



Filed by:

G. Scott Shepherd, Site Development Specialist II - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3807 - GShepherd@sbsite.com

February 26, 2021

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

RE: Notice of Exempt Modification
160 Deer Run Rd, Wilton, CT
Latitude: 41.239166
Longitude: -73.471111
T-Mobile Site #: CT11346C_Anchor

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 118-foot level of the existing 118-foot Monopole Tower at 160 Deer Run Rd., Wilton, CT. The 118-foot tower is owned by SBA Site Management. The property is owned by Westport Broadcasting, LLC. T-Mobile now intends to remove all nine (9) antennas and replace with nine (9) new 700/600/1900/2100 /2500MHz antennas.

The new antennas would support 5G services and would be installed at the 118-foot level of the tower.

Please note: Per the Connecticut Siting Council Website: CSC COVID 19 Guidelines.
In order to prevent the spread of Coronavirus and protect the health and safety of our members and staff, as of March 18, 2020, the Connecticut Siting Council shall convert to full remote operations until March 30, 2020. Please be advised that during this time period, all hard copy filing requirements will be waived in lieu of an electronic filing. Please also be advised that the March 26, 2020 regular meeting shall be held via teleconference. The Council's website is not equipped with an on-line filing fee receipt service. Therefore, filing fees and/or direct cost charges associated with matters received electronically during the above-mentioned time period will be directly invoiced at a later date.

Planned Modifications:

TOWER

Remove:

- (3) Sector Frames (T-Arms)

Remove and Replace:

- (3) Ericsson AIR21 B2P/B4P 2100MHz antenna (remove) – (3) Ericsson AIR32 B66A/B2A 1900/2100MHz antenna (replace)
- (3) Ericsson AIR21 B4P/B2P 1900/2100MHz antenna (remove) – (3) Ericsson AIR6449 B41 2500MHz antenna (replace)
- (3) Commscope LNX-6515DS-A1m 700MHz antenna (remove) – (3) RFS APXVAALL24_43-U-NA20 700/600/1900/2100 MHz antenna (replace)
- (3) Ericsson S11B12 RRUs (remove) – (3) Commscope SDX1926Q-43 quadplexers (replace)

Install New:

- (3) Ericsson Radio 4415 B25 – RRUs
- (3) Ericsson Radio 4449 B71+B85 - RRUs
- (1) 1-5/8" coax
- (6) 1-5/8" fiber
- (3) Sector Frame Mounts Sitepro1 P/N : VFA12-HD

Existing Equipment to Remain:

- (3) Ericsson KRY 112 71 – TMAs

Entitlements:

- (1) 1-1/4" fiber

GROUND

Install New:

- Equipment inside existing RBS6131 cabinet
- (1) Ericsson B160 Battery Cabinet
- (1) Ericsson 6160 Equipment Cabinet
- (1) 2" conduit from existing PPC

This facility was approved by the Council on August 31, 2006 under Docket No. 308. Approval was given for a self-supporting lattice tower, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of the carrier and other entities, both public and private, but not to exceed a height of 118 feet above ground level. The height at the top of the antennas was not to exceed 122 feet above ground level. Whip antennas were to be relocated onto the replacement structure and combined into shared antennas where possible. The Certificate Holder was to remove the existing guyed lattice tower upon commencement of operation of the 120' self-supporting lattice tower. A recalculated report of electromagnetic radio frequency power density was to be provided when operations caused a change in power density levels. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of the facility, the facility was to be brought into compliance with such standards. The Certificate Holder was to permit public or private entities to share space on the proposed tower for fair consideration, or provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such sharing. Reasonable space on the tower was to be provided for no compensation for any Town of Wilton public safety services (police, fire and medical services), provided such use could be accommodated and was compatible with the structural integrity. And any nonfunctioning antennas and mounting

equipment was to be removed within 60 days. There were no further post construction stipulations set. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16.50j-72(b)(2). In accordance with R.C.S.A. § 16.50j-73, a copy of this letter is being sent to the Town of Wilton's First Selectman, Lynne Vanderslice, and Zoning Enforcement Officer, Timothy Bunting, as well as to the property owner. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

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 structure.
2. The proposed modification will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modification will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

G. Scott Shepherd
Site Development Specialist II
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125
Westborough, MA 01581
508.251.0720 x3804 + T / 508.366.2610 + F
508.868.6000 + C
GShepherd@SBASite.com

Attachments

cc: Lynne Vanderslice, First Selectwoman / with attachments
Wilton Town Hall, 238 Danbury Rd., Wilton, CT 06897
Timothy Bunting, Zoning Enforcement Officer
Wilton Town Hall, 238 Danbury Rd., Wilton, CT 06897
Westport Broadcasting Co, LLC / with attachments
PO Box 1041, Virginia Beach, VA 23451



EXHIBIT LIST

Exhibit 1	Check Copy	To be invoiced at a later date per Covid guidelines
Exhibit 2	Notification Receipts	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Original Zoning Approval	CSC 8/31/06
Exhibit 6	Construction Drawings	Chappell Engineering 2/4/21
Exhibit 7	Structural Analysis	FDH Infrastructure 2/11/21
Exhibit 8	Mount Analysis	FDH Infrastructure 2/11/21
Exhibit 9	EME Report	EBI Consulting 2/25/21

EXHIBIT 1

Normally, Exhibit 1 would contain a copy of the check for the filing fee.

EXHIBIT 2

ORIGIN ID:BFBA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

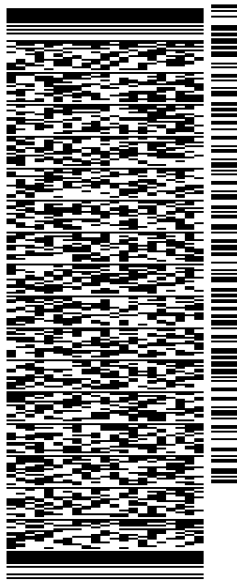
SHIP DATE: 26FEB21
ACTWGT: 1.00 LB
CAD: 105843304/NET14340

BILL SENDER

TO **MELANIE A. BACHMAN EXEC. DIR**
CONNECTICUT SITING COUNCIL
TEN FRANKLIN SQUARE

NEW BRITAIN CT 06051

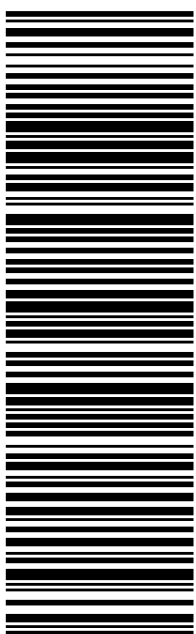
(508) 251-0720 X.3807 REF: 105692009-6089
INV# PO: DEPT:



J211121011901uv

TRK# 7730 1312 2425
0201
MON - 01 MAR 10:30A
PRIORITY OVERNIGHT

SEBDLA
CT:US **BDL**
06051



56DJ3/CB7A/FE4A

After printing this label:

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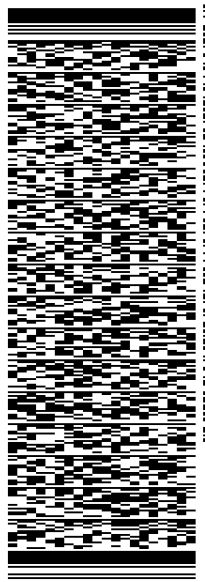
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 26FEB21
ACTWGT: 1.00 LB
CAD: 105843304/NET14340
BILL SENDER

TO LYNNE VANDERSLICE
TOWN OF WILTON
FIRST SELECTWOMAN
238 DANBURY RD
WILTON CT 06897
(508) 251-0720 X 3807
REF: 105692009-6089
PO: DEPT:

56DJ3/CB7A/FE4A



J211121011901uv

TRK# 7730 1323 5120
0201
MON - 01 MAR 10:30A
PRIORITY OVERNIGHT

SH DXRA
06897
CT:US SWF

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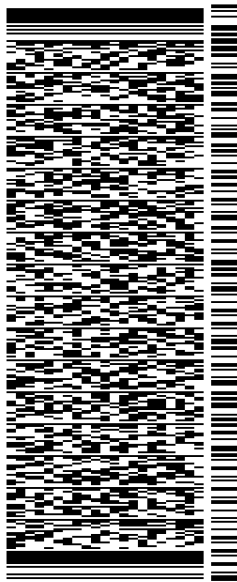
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UNITED STATES US

SHIP DATE: 26FEB21
ACTWGT: 1.00 LB
CAD: 105843304/NET4340
BILL SENDER

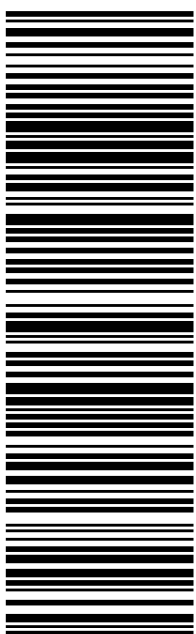
TO **TIMOTHY BUNTING**
TOWN OF WILTON
ZONING ENFORCEMENT OFFICER
238 DANBURY RD
WILTON CT 06897
REF: 1056-92009-6089
DEPT:
PO:
INV: (508) 251-0720 X 3807

56DJ3/CB7A/FE4A



TRK# 7730 1326 7813
0201
MON - 01 MAR 10:30A
PRIORITY OVERNIGHT

SH DXRA
06897
CT:US SWF



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EXHIBIT 3

160 DEER RUN RD

Location 160 DEER RUN RD

Mblu 81 / / 28 / /

Acct# 001780

Owner WESTPORT BROADCASTING
CO LLC

Assessment \$714,000

Appraisal \$1,020,000

PID 4243

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$286,800	\$733,200	\$1,020,000

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$200,760	\$513,240	\$714,000

Owner of Record

Owner WESTPORT BROADCASTING CO LLC
Co-Owner
Address PO BOX 1041
VIRGINIA BEACH, VA 23451

Sale Price \$400,000
Certificate
Book & Page 1081/0146
Sale Date 02/11/1998
Instrument 00

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
WESTPORT BROADCASTING CO LLC	\$400,000		1081/0146	00	02/11/1998
FLAMM, DONALD	\$50,000		0177/0277	00	06/27/1972

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent
Good:
Replacement Cost
Less Depreciation: \$0

Building Attributes


Field	Description
Style	Outbuildings
Model	
Grade:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Elevator	
Fireplaces	
Sauna	
Spa/Jet Tub	
Whirlpool Tub	
Cath. Ceil	

Building Photo



(<http://images.vgsi.com/photos/WiltonCTPhotos//\00\01\07\87.j>)

Building Layout

 Building Layout

(<http://images.vgsi.com/photos/WiltonCTPhotos//Sketches/4243>)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 2-1V
Description Commercial
Zone R-2

Land Line Valuation

Size (Acres) 2
Frontage
Depth

Neighborhood 05
Alt Land Appr No
Category

Assessed Value \$513,240
Appraised Value \$733,200

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD2	Shed Good			476 S.F.	\$6,000	1
PAT1	Patio			892 S.F.	\$4,000	1
FN3	Fence 6'			180 L.F.	\$1,800	1
CLT	CELL TOWER			1 UNITS	\$275,000	1

Valuation History

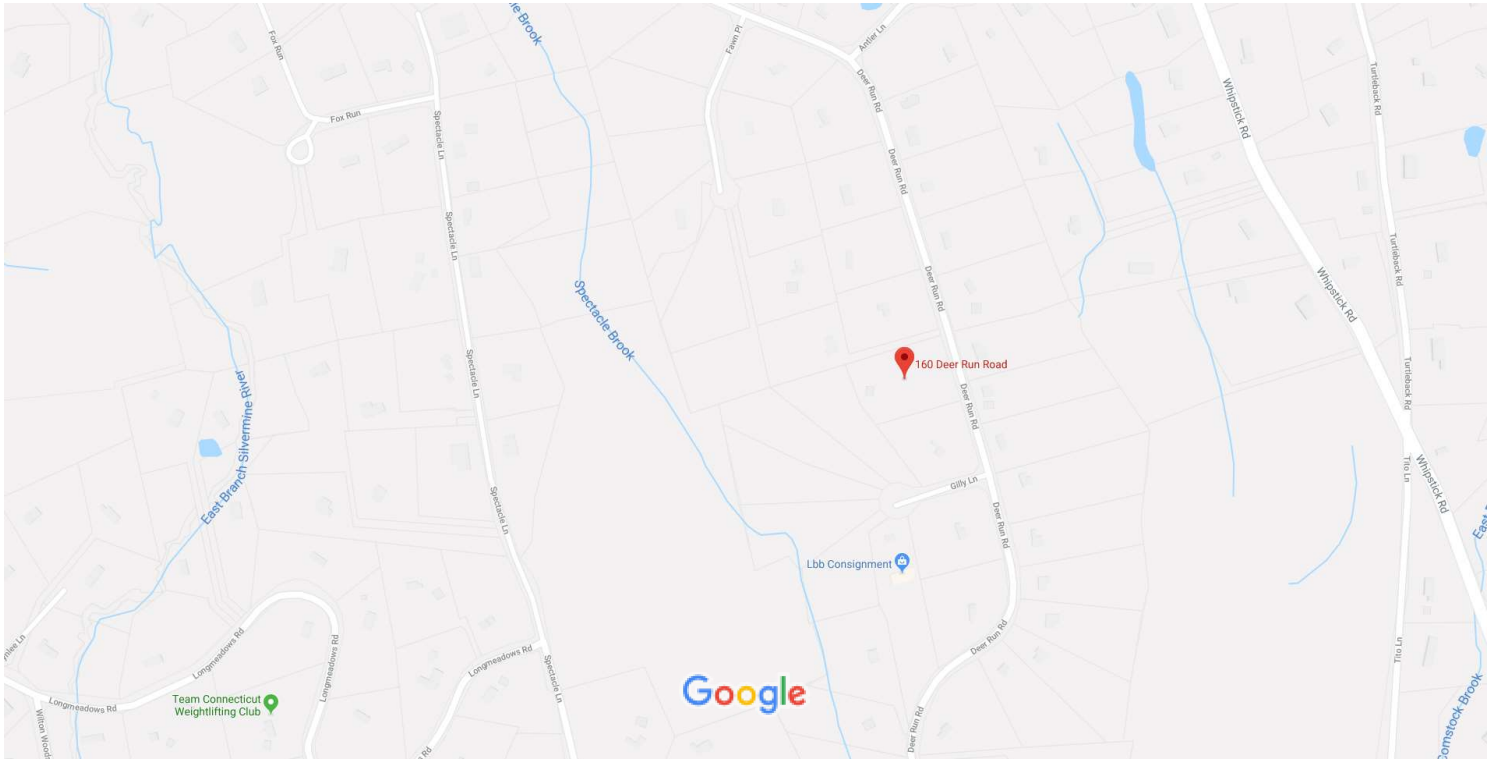
Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$286,800	\$733,200	\$1,020,000
2017	\$286,800	\$506,200	\$793,000
2016	\$286,800	\$506,200	\$793,000

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$200,760	\$513,240	\$714,000
2017	\$200,760	\$354,340	\$555,100
2016	\$200,760	\$354,340	\$555,100

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EXHIBIT 4

Google Maps 160 Deer Run Rd



Map data ©2019 200 ft



160 Deer Run Rd

Wilton, CT 06897



Directions



Save



Nearby



Send to your phone



Share



6GRJ+J5 Wilton, Connecticut

Photos

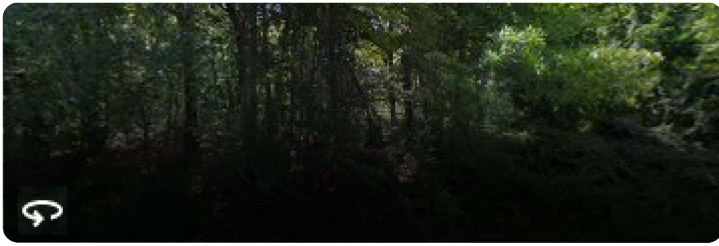


EXHIBIT 5

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

Connecticut

Siting

Council

August 31, 2006

Decision and Order

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

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

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

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

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

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

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

The parties and intervenors to this proceeding are:

Applicant

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

Representatives

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

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

Party

Wilton Environmental Trust

Representative

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

Party

Town of Wilton

Representatives

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

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

Intervenor

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

Representative

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

Intervenor

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

Representative

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

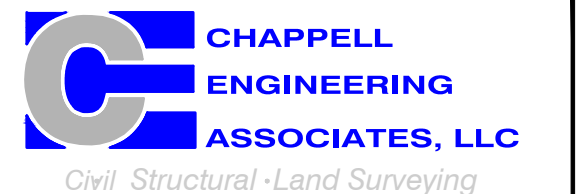
EXHIBIT 6

**T-MOBILE
NORTHEAST LLC**

15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	02/03/21	ISSUED FOR CONSTRUCTION	JRV
0	11/13/20	ISSUED FOR REVIEW	JRV

SITE NUMBER:
CT11346C

SITE ADDRESS:
160 DEER RUN ROAD
WILTON, CT 06897

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

CT346/OPTASITEWILTONFT

160 DEER RUN ROAD
WILTON, CT 06897
FAIRFIELD COUNTY

SITE NO.: CT11346C

RF DESIGN GUIDELINE: 67D5A997DB OUTDOOR

SITE NOTES

- THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
 - ADA COMPLIANCE NOT REQUIRED.
 - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.
 - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
 - BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE
 - ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
 - STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

APPROVALS

PROJECT MANAGER:	DATE:	ZONING/SITE ACQ.:	DATE:
CONSTRUCTION:	DATE:	OPERATIONS:	DATE:
RF ENGINEERING:	DATE:	TOWER OWNER:	DATE:

T-MOBILE TECHNICIAN SITE SAFETY NOTES

LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS BY CERTIFIED CLIMBER
SECTOR B:	ACCESS BY CERTIFIED CLIMBER
SECTOR C:	ACCESS BY CERTIFIED CLIMBER
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OWNERS REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNLESS CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP

SCALE: 1" = 1000'-0"



DIRECTIONS

TURN LEFT ONTO S WASHINGTON ST. TURN RIGHT ONTO MA-123 E. TURN LEFT TO MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. MERGE ONTO I-495 NORTH. TAKE EXIT 13b TO MERGE ONTO I-95 SOUTH TOWARD PROVIDENCE RI. KEEP LEFT TO STAY ON I-95 SOUTH. KEEP RIGHT AT THE FORK TO STAY ON I-95 SOUTH. KEEP LEFT TO STAY ON I-95 SOUTH. TAKE EXIT 38 FOR STATE 15 TOWARD MERRITT PARKWAY/WILBUR CROSS PARKWAY. MERGE ONTO MILFORD PARKWAY. TAKE THE CONNECTICUT 15 SOUTH EXIT ON THE LEFT TOWARD MERRITT PARKWAY/N.Y. CITY. MERGE ONTO CT-15 SOUTH/MERRITT PARKWAY. TAKE EXIT 41 TOWARD CT-33 NORTH/WILTON ROAD. TURN LEFT ONTO CT-33 NORTH. TURN RIGHT ONTO MILLSTONE ROAD. TURN LEFT ONTO DEER RUN ROAD. SITE WILL BE ON THE LEFT.

SHEET INDEX

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DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT SUMMARY

SITE NUMBER:	CT11346C
SBA SITE NUMBER:	CT98078-L
SBA SITE NAME:	WILTON, CT / OPTASITE
SITE ADDRESS:	160 DEER RUN ROAD WILTON, CT 06897
PROPERTY OWNER:	WESTPORT BROADCASTING CO LLC. PO BOX 1041 VIRGINIA BEACH, VA 23451
TOWER OWNER:	SBA SITE MANAGEMENT 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	FAIRFIELD COUNTY
ZONING DISTRICT:	R-2A (RESIDENTIAL)
STRUCTURE TYPE:	SELF-SUPPORTING TOWER
STRUCTURE HEIGHT:	118'±
APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
SBA RSM:	RON LENNOX PHONE: 732-404-9360 EMAIL: RLennox@sbasite.com
ARCHITECT:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
STRUCTURAL ENGINEER:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
SITE CONTROL POINT:	LATITUDE: 41.239166° N41°14'21.00" LONGITUDE: -73.471111° W73°28'16.00"

SPECIAL ZONING NOTE:

BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – T-MOBILE
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T-MOBILE
OEM – ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL¾ IN.
BEAMS AND COLUMNS½ IN.
- A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
- CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

- FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- CABLE LADDER RACK:
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

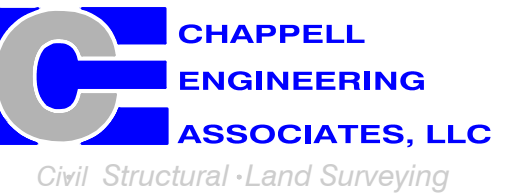
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

**T-MOBILE
NORTHEAST LLC**

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SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	02/03/21	ISSUED FOR CONSTRUCTION	JRV
0	11/13/20	ISSUED FOR REVIEW	JRV

SITE NUMBER:
CT11346C

SITE ADDRESS:
160 DEER RUN ROAD
WILTON, CT 06897

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

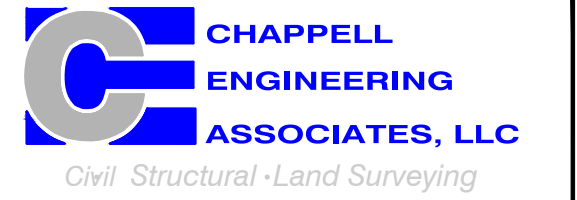
SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.

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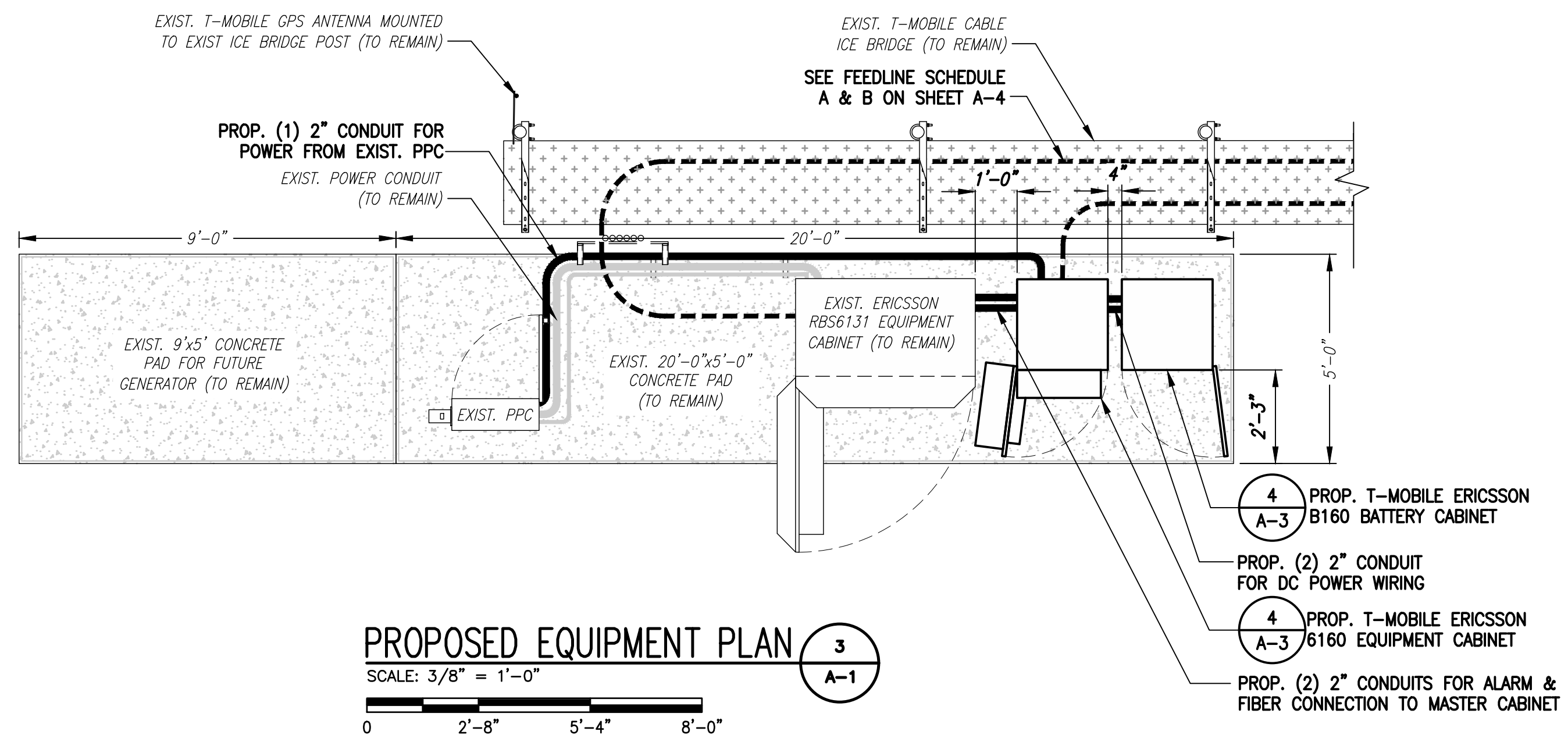
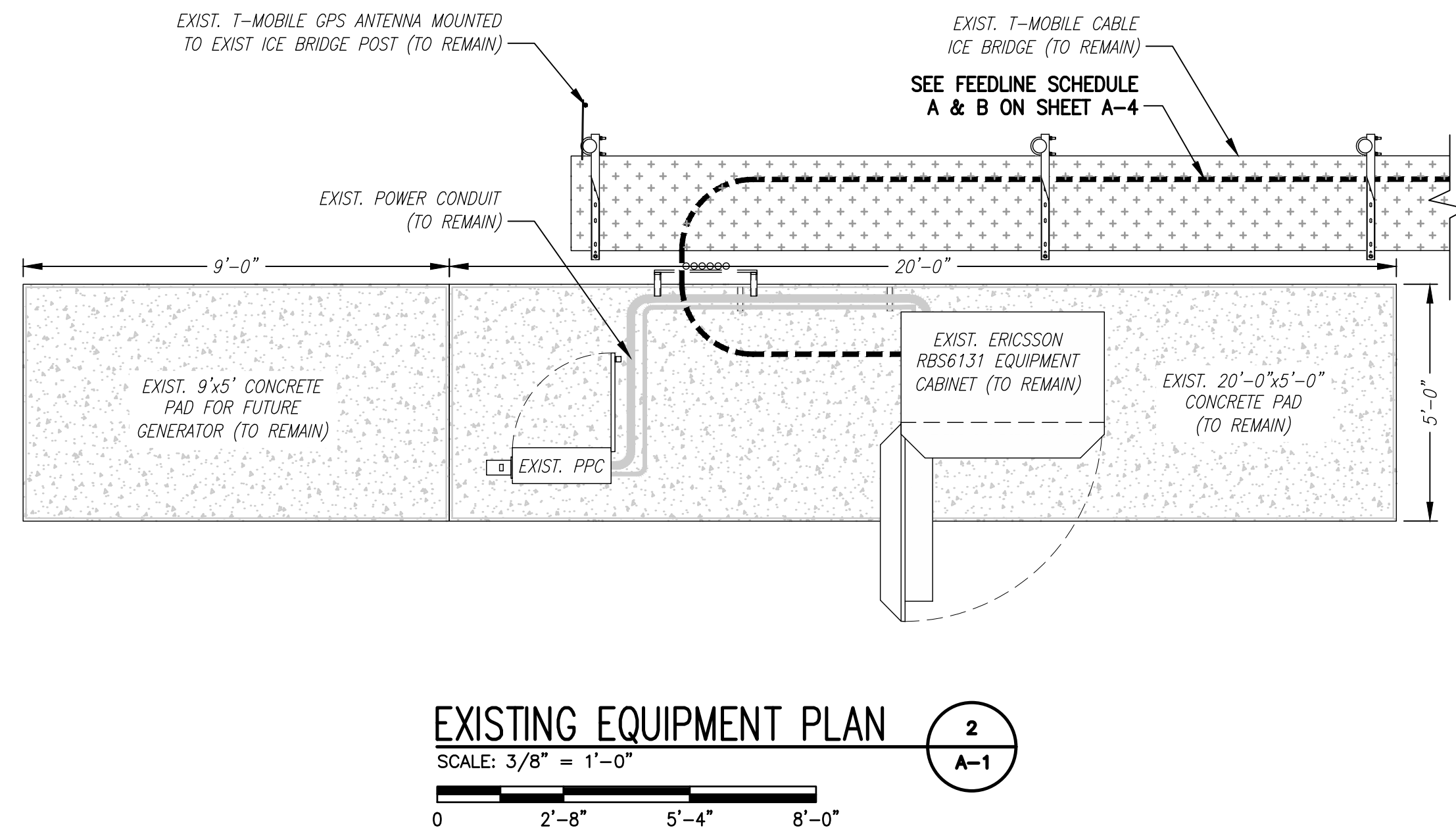
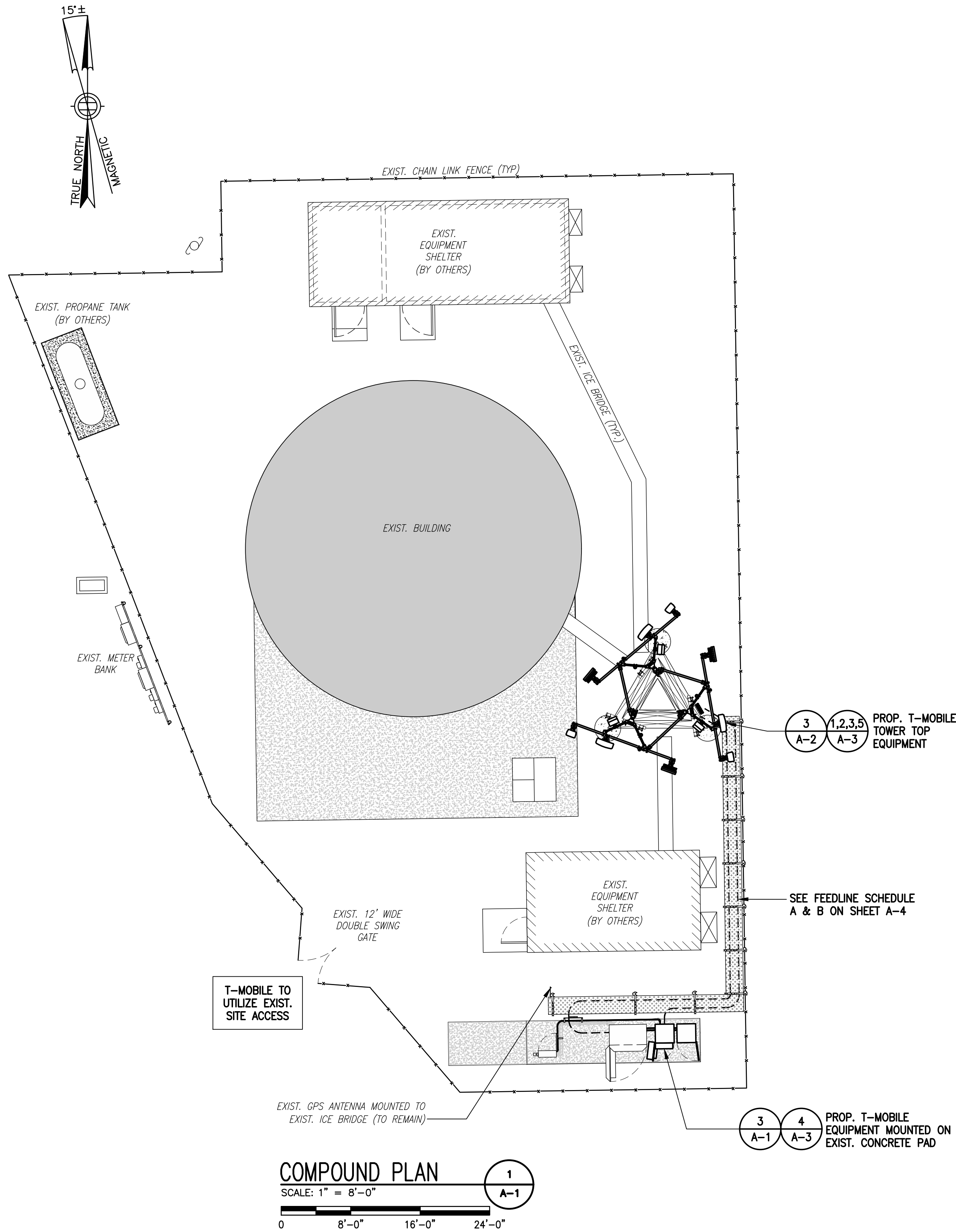
SITE ADDRESS:
 160 DEER RUN ROAD
 WILTON, CT 06897

SHEET TITLE

**COMPOUND &
EQUIPMENT PLAN**

SHEET NUMBER

A-1

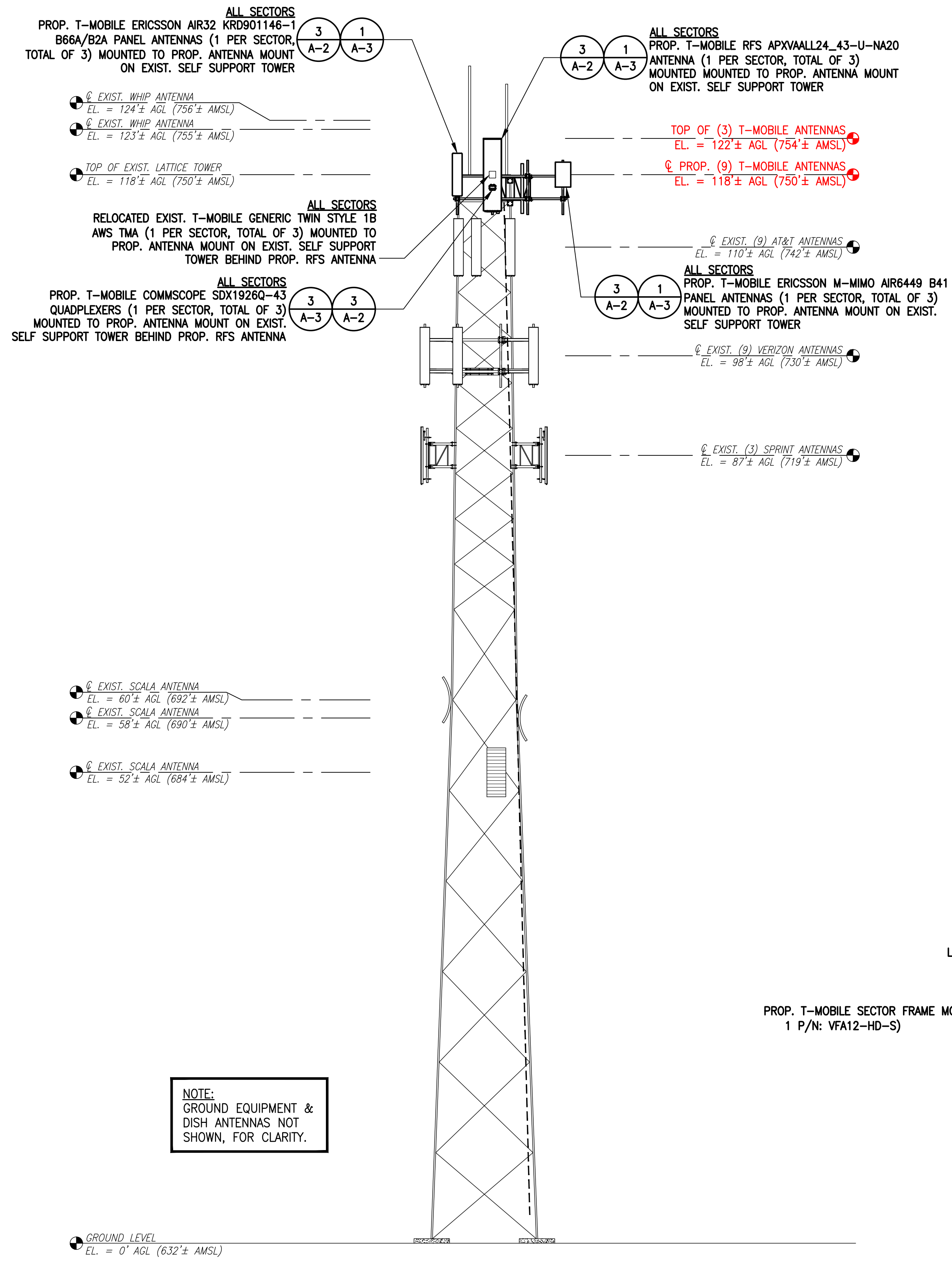


MOUNT NOTE:
 REFER TO MOUNT ANALYSIS DONE BY TOWER ENGINEERING SOLUTIONS DATED 8/06/2019 FOR ADDITIONAL MOUNTING DETAILS

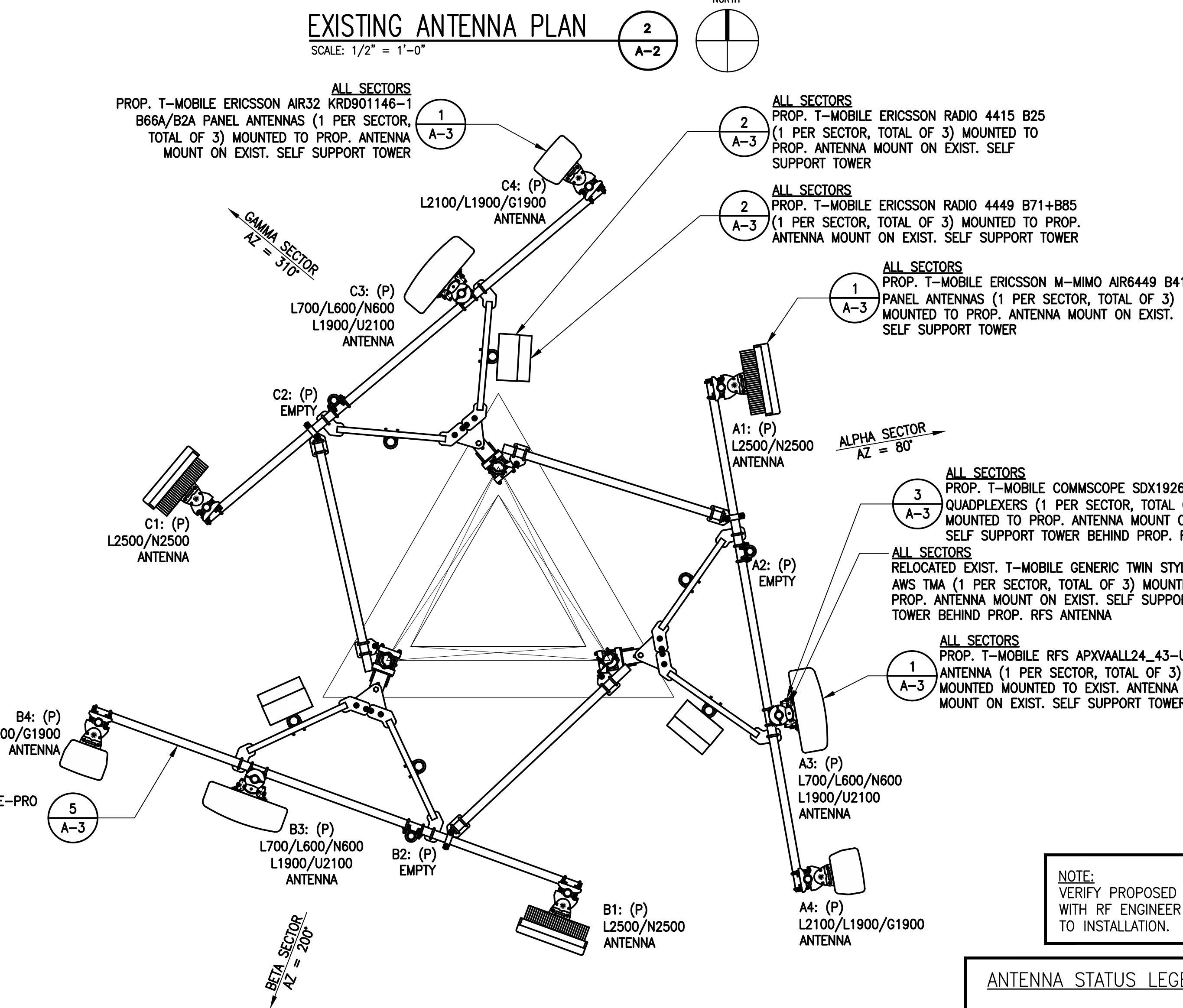
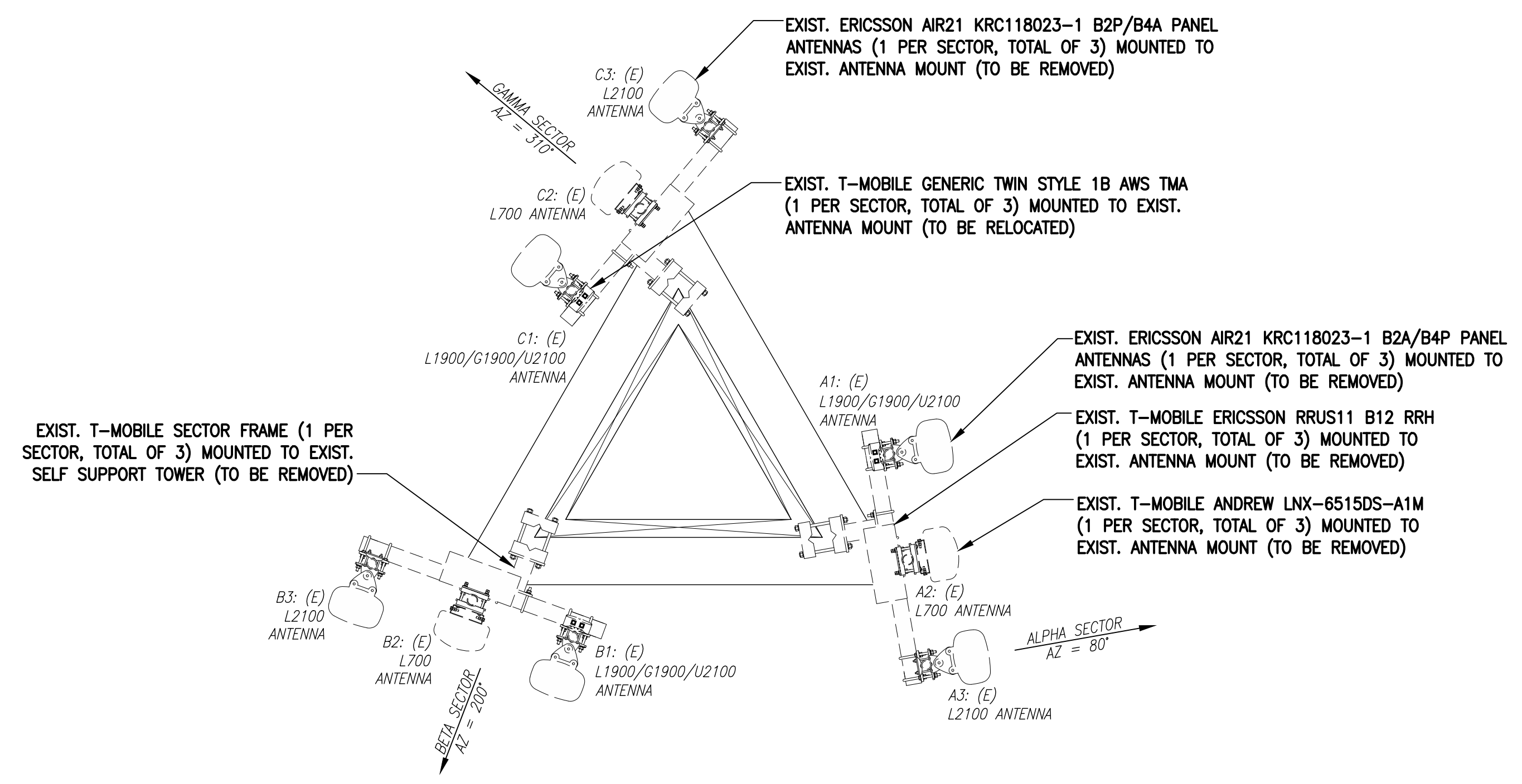
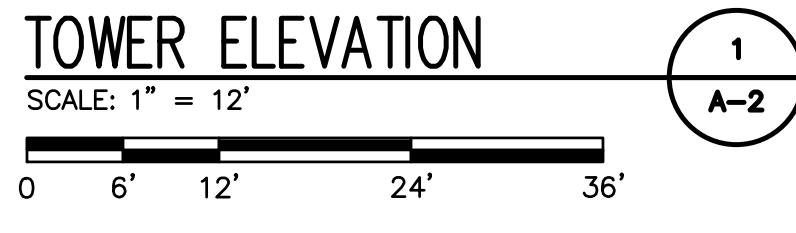
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RAD CENTER NOTE:
 T-MOBILE RAD CENTER SHOWN IN RED TEXT BASED ON SBA-PROVIDED CO-LOCATION APPLICATION, EQUIPMENT DATABASE, AND STRUCTURAL ANALYSIS. THE SBA-PROVIDED ANTENNA RAD CENTER SHALL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM THE T-MOBILE RFDS.

GENERAL CONTRACTOR NOTE:
 GENERAL CONTRACTOR SHALL REFER TO MOUNT STRUCTURAL ANALYSIS AND ANY MOUNT MODIFICATION DESIGN PROVIDED BY SBA



NOTE:
 GROUND EQUIPMENT & DISH ANTENNAS NOT SHOWN, FOR CLARITY.



NOTE:
 VERIFY PROPOSED AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.

ANTENNA STATUS LEGEND:
 EMPTY - EMPTY PIPE
 (E) - EXISTING
 (P) - INSTALL
 (F) - FUTURE

MOUNT NOTE:
 REFER TO MOUNT ANALYSIS DONE BY TOWER ENGINEERING SOLUTIONS DATED 8/06/2019 FOR ADDITIONAL MOUNTING DETAILS

T-MOBILE NORTHEAST LLC

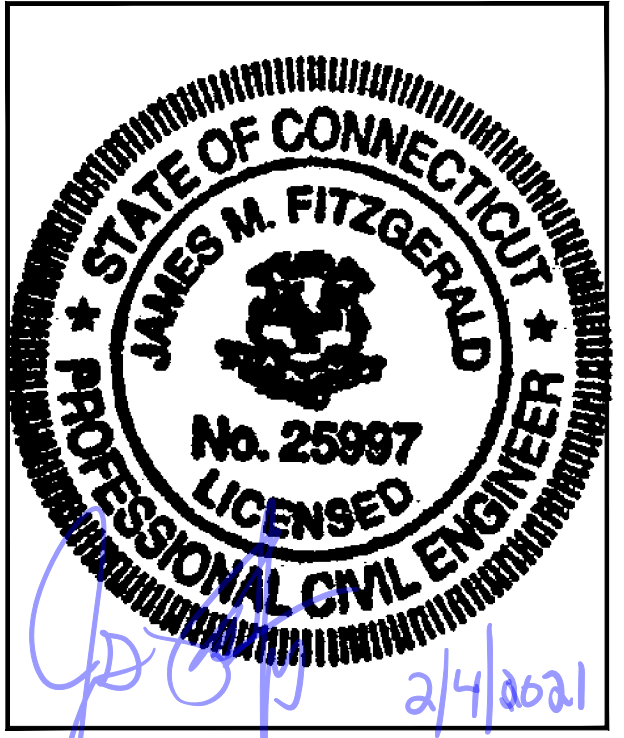
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CHAPPELL ENGINEERING ASSOCIATES, LLC
 Civil Structural-Land Surveying

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SUBMITTALS

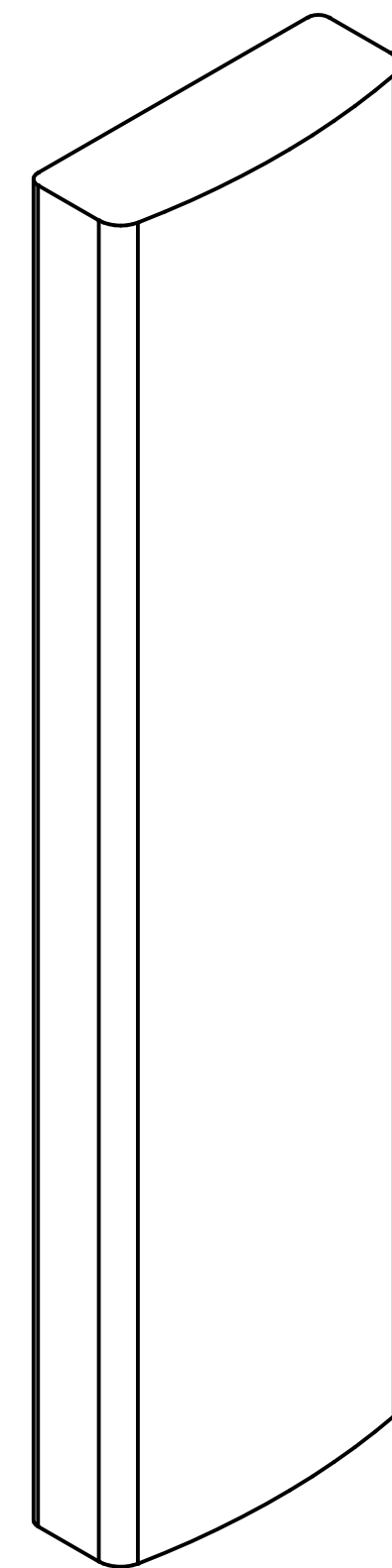
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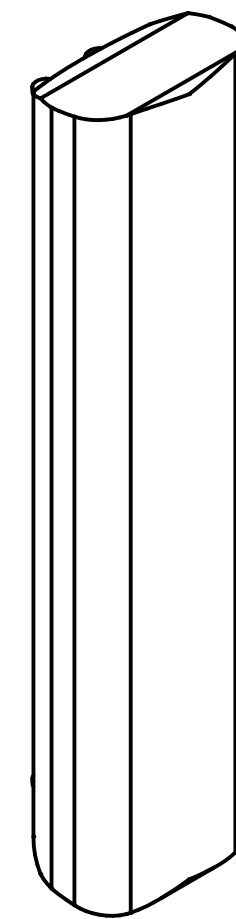
SITE ADDRESS:
 160 DEER RUN ROAD
 WILTON, CT 06897

SHEET TITLE
 TOWER ELEVATIONS & ANTENNA PLAN

SHEET NUMBER
 A-2



RFS APXVAALL24 43-U-NA20 ANTENNA
 DIMENSIONS: 95.9"H x 24.0"W x 8.7"D
 WEIGHT: 128.0 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON AIR32 KRD901146-1 B66A/B2A ANTENNA
 DIMENSIONS: 56.6"H x 12.9"W x 8.7"D
 WEIGHT: 132.2 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON M-MIMO AIR6449 B41 ANTENNA
 DIMENSIONS: 33.1"H x 20.5"W x 8.3"D
 WEIGHT: 103.0 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON RADIO 4415 B25
 DIMENSIONS: 16.5"H x 13.4"W x 5.9"D
 WEIGHT: 46.0 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3



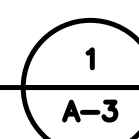
ERICSSON RADIO 4449 B71+B85
 DIMENSIONS: 14.9"H x 13.2"W x 9.3"D
 WEIGHT: 74.0 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3



COMMSCOPE SDX1926Q-43 QUADPLEXER
 DIMENSIONS: 4.2"H x 6.9"W x 2.9"D
 WEIGHT: 6.2 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3

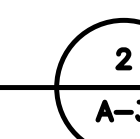
ANTENNA DETAILS

SCALE: N.T.S.



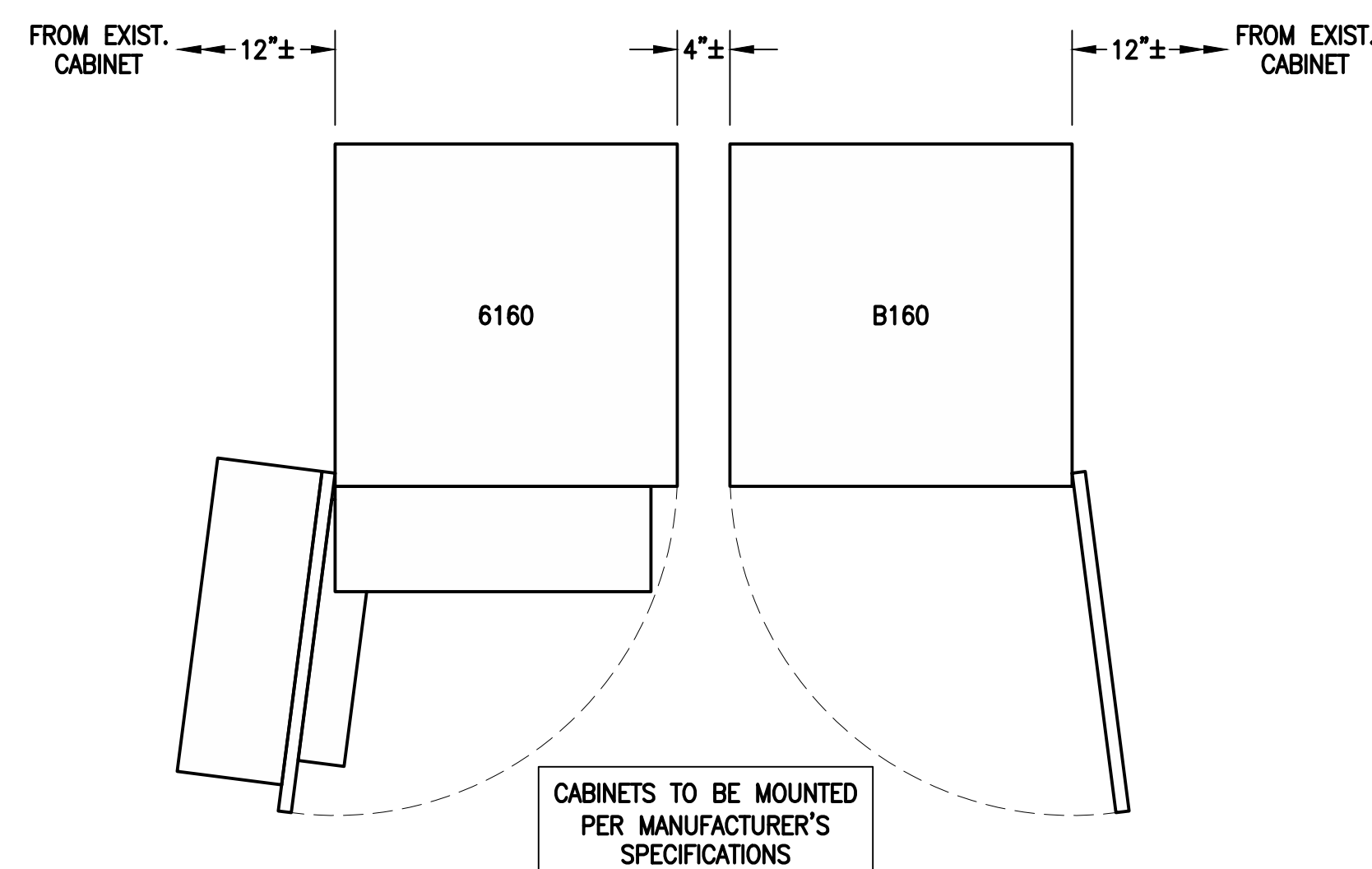
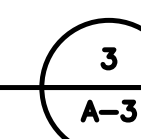
RADIO DETAILS

SCALE: N.T.S.



DIPLEXER DETAIL

SCALE: N.T.S.

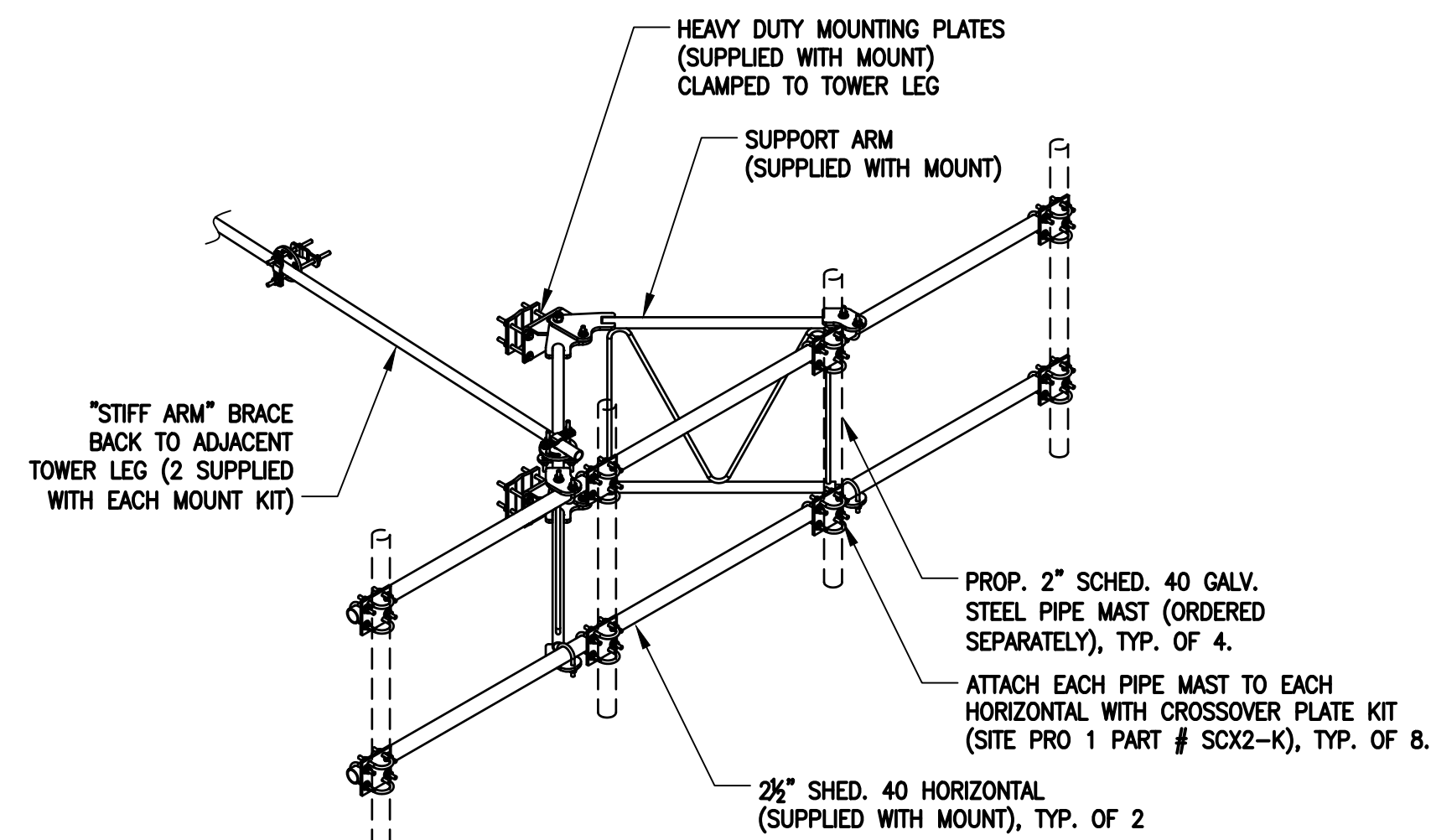
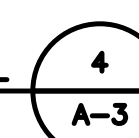


ERICSSON 6160 SITE SUPPORT CABINET
 DIMENSIONS: 63.25"H x 26.0"W x 34.0"D
 WEIGHT: 680.0 lbs
 QUANTITY: TOTAL OF 1

ERICSSON B160 BATTERY CABINET
 DIMENSIONS: 63.25"H x 26.0"W x 26.0"D
 WEIGHT: 1771.0 lbs
 QUANTITY: TOTAL OF 1

EQUIPMENT DETAIL

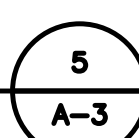
SCALE: N.T.S.



SITE-PRO 1 12'-6" HEAVY-DUTY V-FRAME
 PART NUMBER: VFA12-HD
 (TOTAL OF 3 REQUIRED)

TYPICAL SITE PRO 1, 12'-6" HEAVY DUTY V-FRAME ASSEMBLY

SCALE: N.T.S.



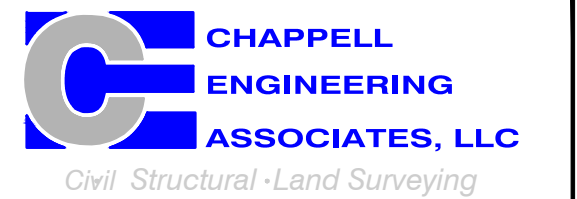
MOUNT NOTE:
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T-MOBILE NORTHEAST LLC

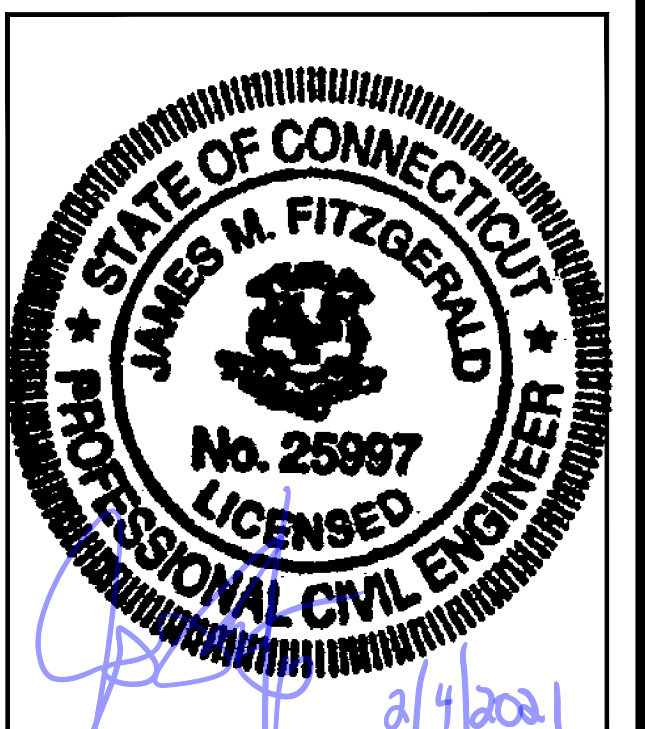
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CT11346C

SITE ADDRESS:
 160 DEER RUN ROAD
 WILTON, CT 06897

SHEET TITLE
SITE DETAILS

SHEET NUMBER
A-3

FINAL ANTENNA CONFIGURATION								
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	TMA/RADIOS	SIGNAL CABLES
ALPHA	A1 ERICSSON M-MIMO AIR6449 B41	118'± AGL	80°	0°	2'	L2500/N2500	-	(6) 1-5/8" COAX CABLES (6) 1-5/8" (6x12) HCS FIBER CABLES
	A2 RFS APXVAALL24_43-U-NA20	118'± AGL	80°	0°	-	L700/L600/N600	RADIO 4449 B71+B85 RADIO 4415 B25 SDX1926Q-43 QUADPLEXER TWIN STYLE 1B AWS TMA (KRY 11271)	
	A3 ERICSSON AIR32 KRD901146-1 B66A/B2A	118'± AGL	80°	0°	2'	L2100/G1900/L1900	-	
	B1 ERICSSON M-MIMO AIR6449 B41	118'± AGL	200°	0°	2'	L2500/N2500	-	
BETA	B2 RFS APXVAALL24_43-U-NA20	118'± AGL	200°	0°	-	L700/L600/N600	RADIO 4449 B71+B85 RADIO 4415 B25 SDX1926Q-43 QUADPLEXER TWIN STYLE 1B AWS TMA (KRY 11271)	
	B3 ERICSSON AIR32 KRD901146-1 B66A/B2A	118'± AGL	200°	0°	2'	L2100/G1900/L1900	-	
	C1 ERICSSON M-MIMO AIR6449 B41	118'± AGL	310°	0°	2'	L2500/N2500	-	
	C2 RFS APXVAALL24_43-U-NA20	118'± AGL	310°	0°	-	L700/L600/N600	RADIO 4449 B71+B85 RADIO 4415 B25 SDX1926Q-43 QUADPLEXER TWIN STYLE 1B AWS TMA (KRY 11271)	
GAMMA	C3 ERICSSON AIR32 KRD901146-1 B66A/B2A	118'± AGL	310°	0°	2'	L2100/G1900/L1900	-	

CABLE NOTE: (E)(1) 1-1/4" (9x18) HCS FIBER CABLE TO BE REMOVED. SEE FEEDLINE SCHEDULE A & B BELOW.

NOTE: RFDS REV7 - 09/25/20

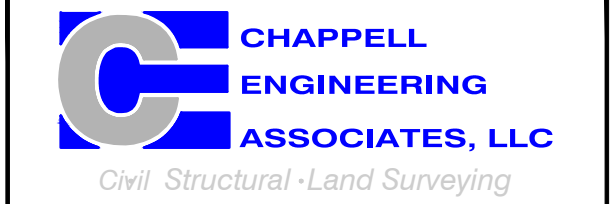
FEEDLINE SCHEDULE		
SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (6) 1-5/8" COAX CABLES EXISTING TO BE REMOVED: (1) 1-1/4" (9x18) HCS FIBER CABLE	ROUTED PER STRUCTURAL ANALYSIS
B	PROPOSED: (6) 1-5/8" (6x12) HCS FIBER CABLES	
NOTE: EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.		

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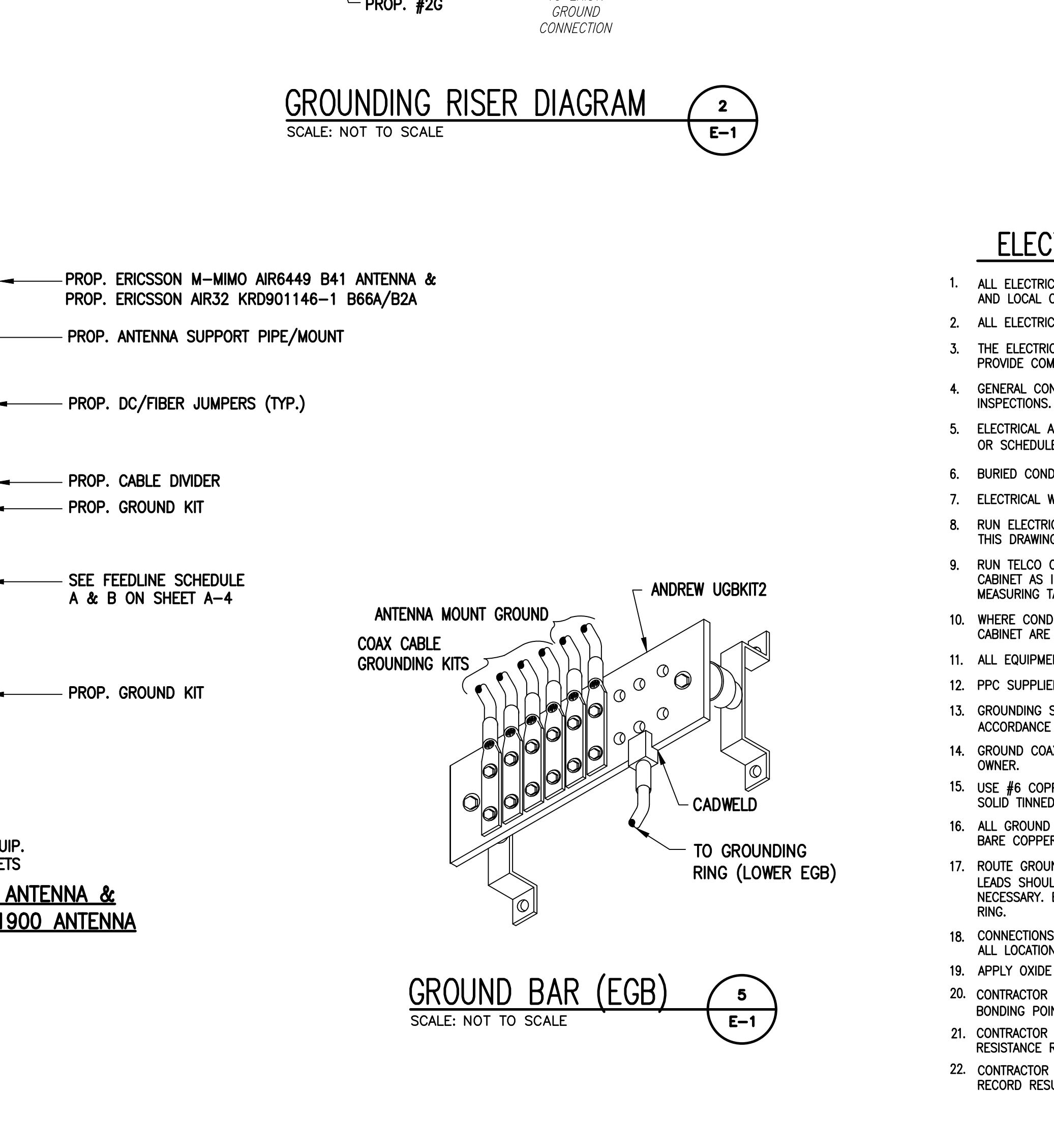
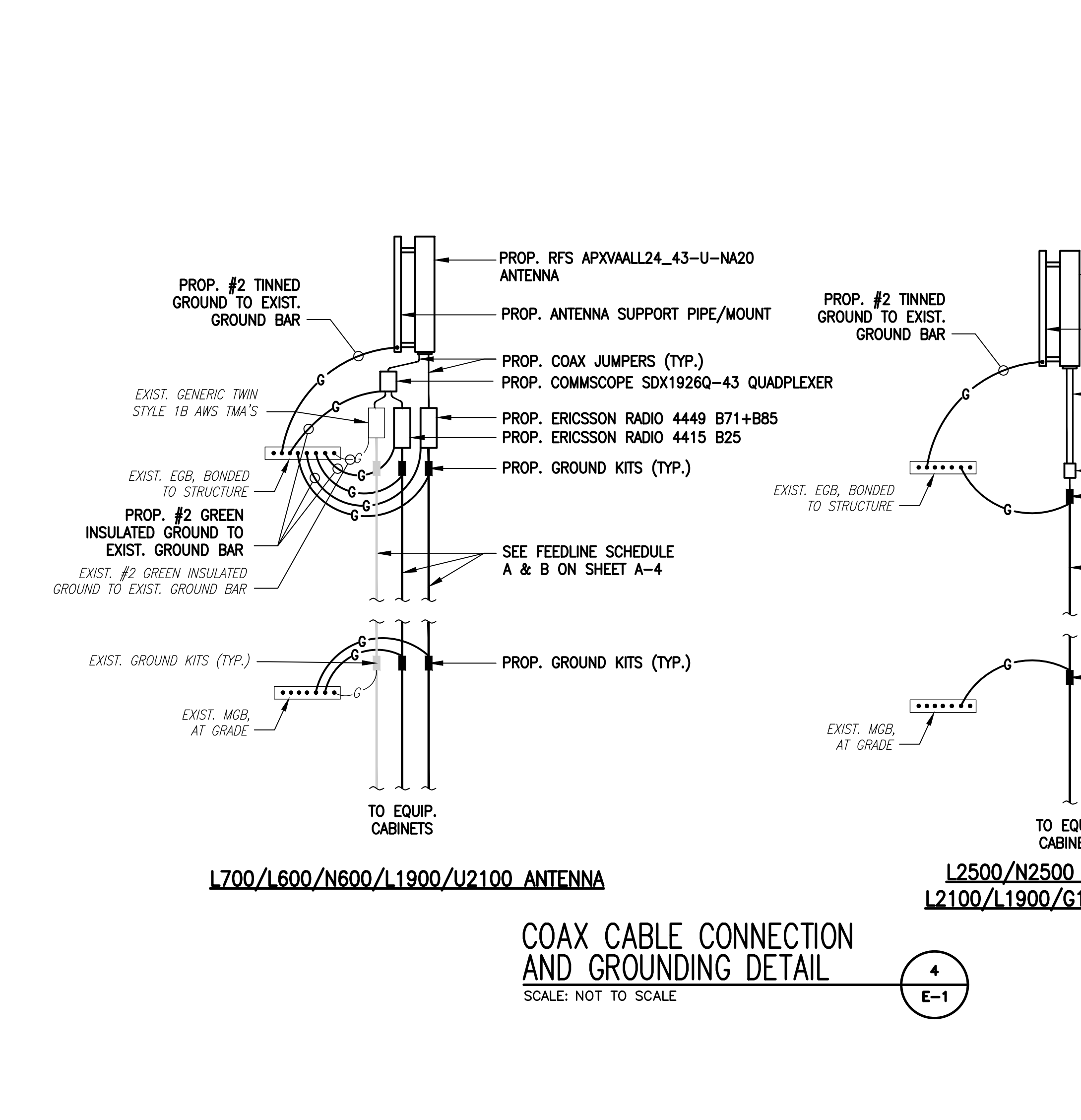
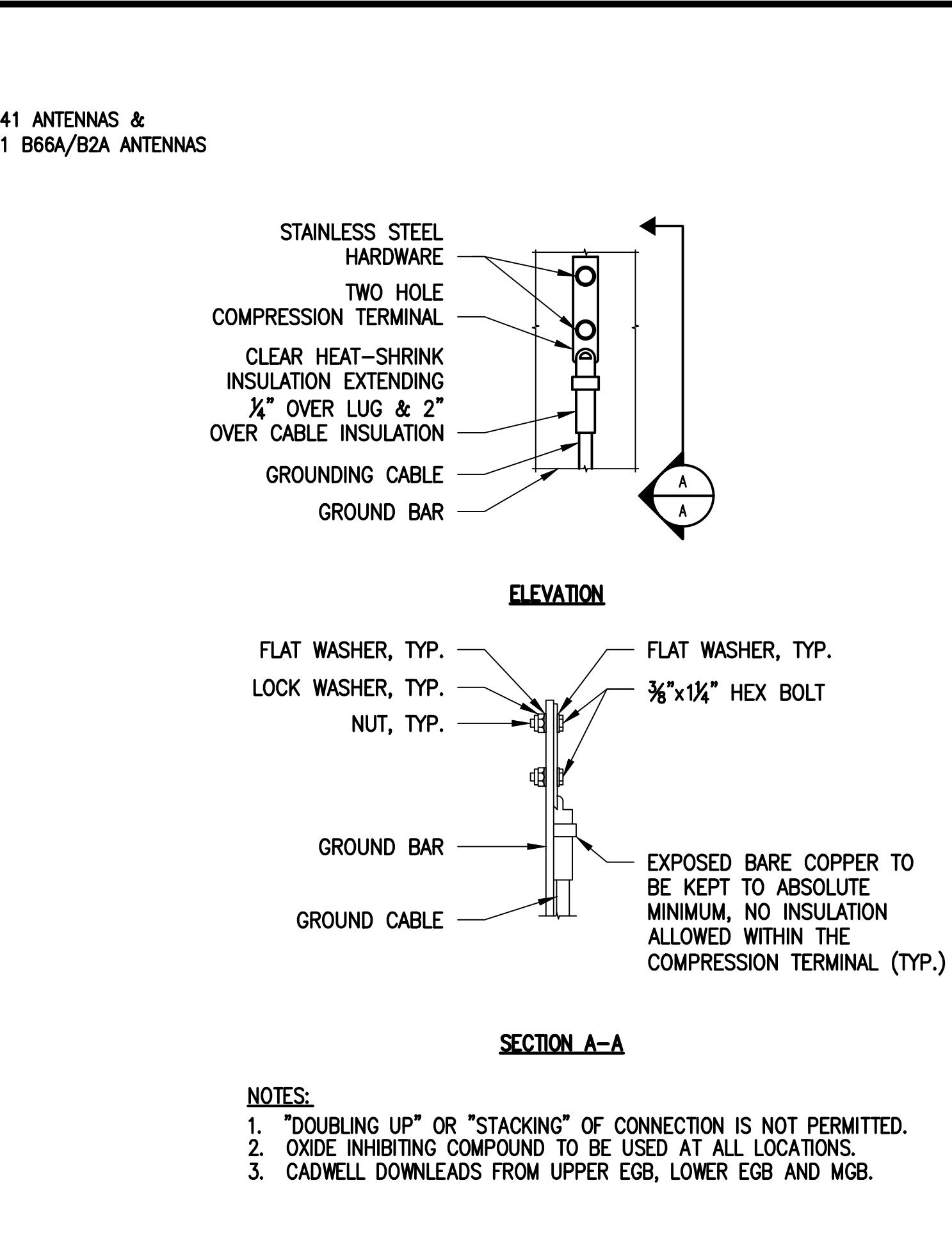
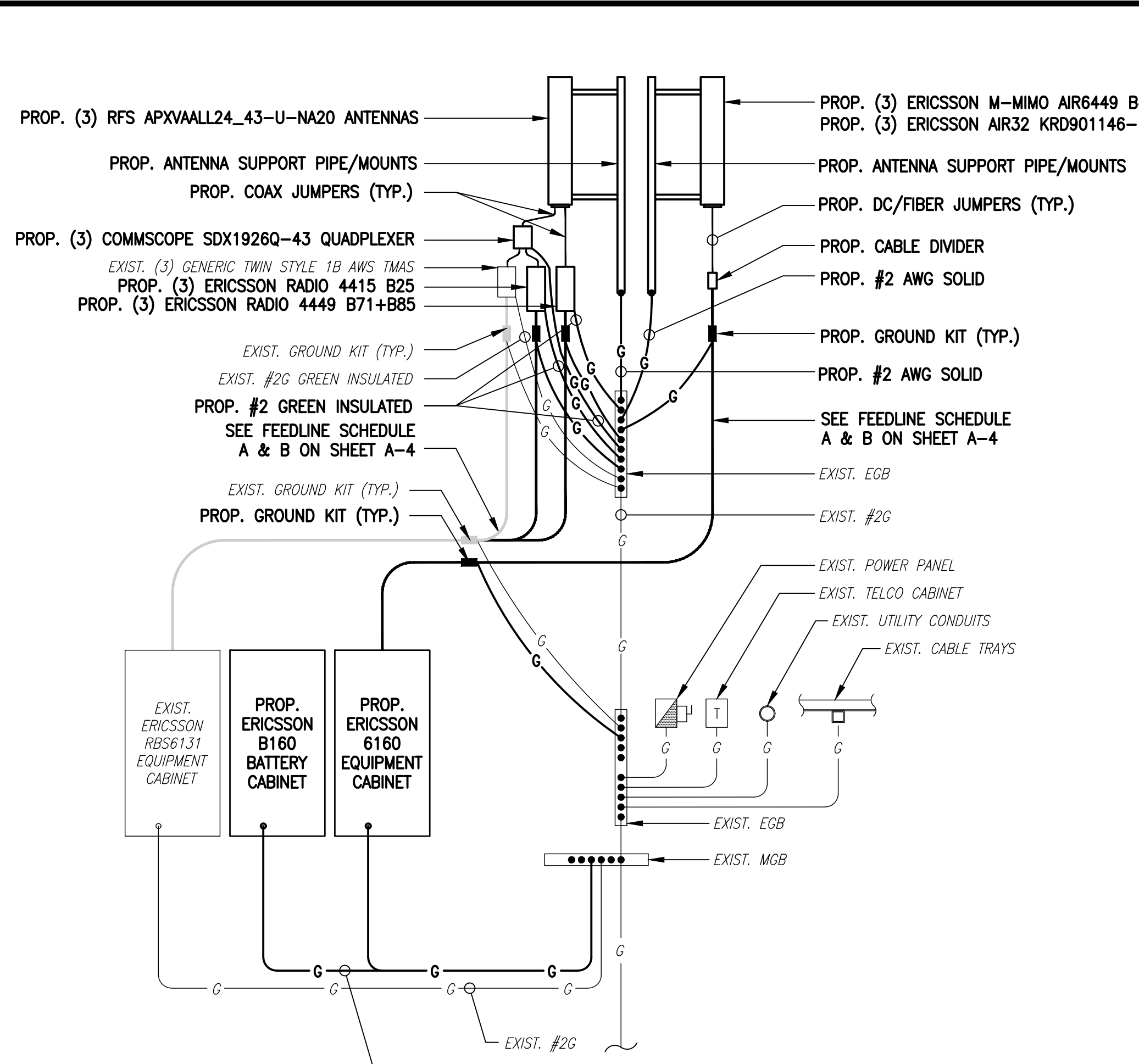
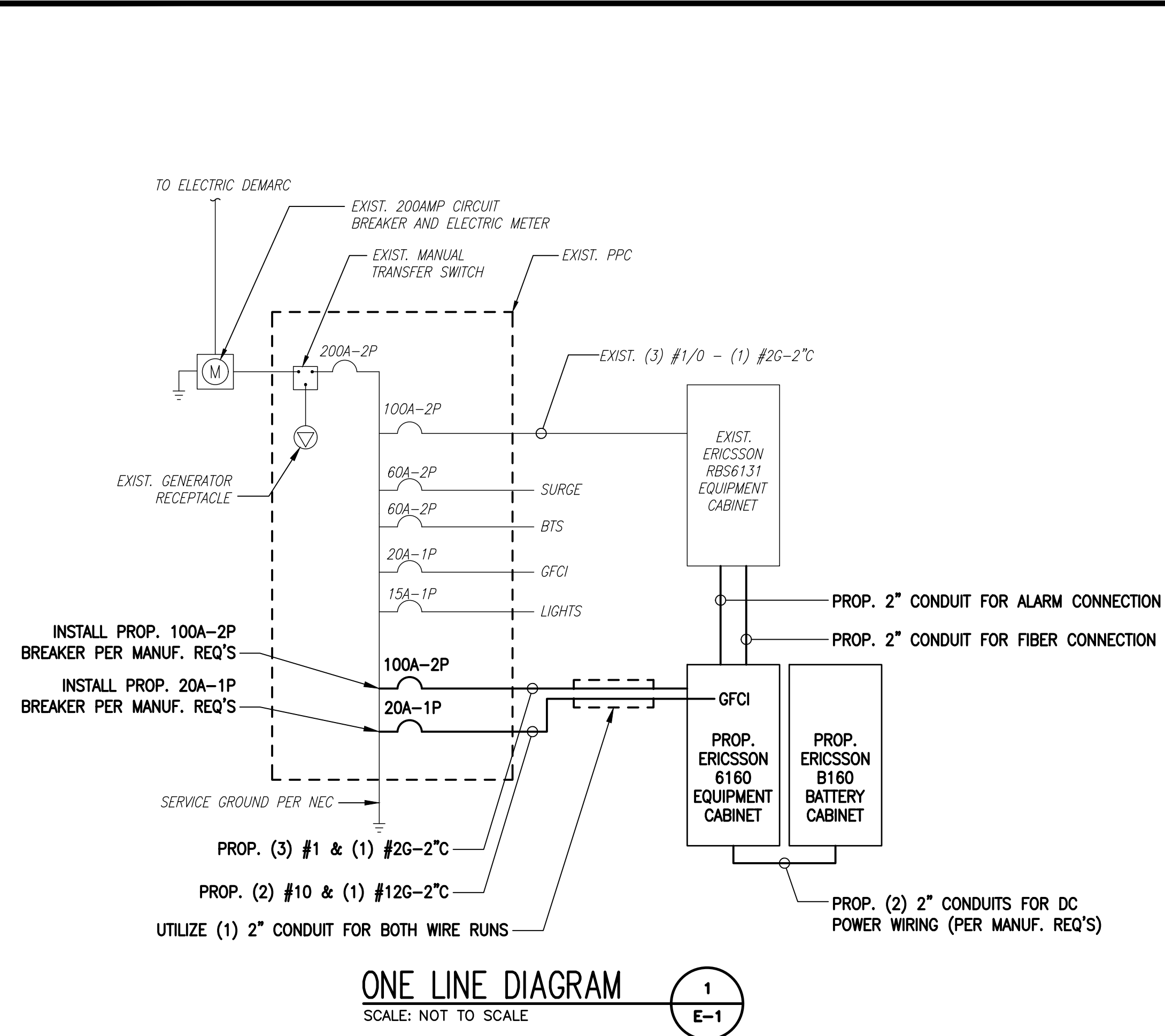
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SHEET TITLE
**ANTENNA &
FEEDLINE CHARTS**

SHEET NUMBER
A-4



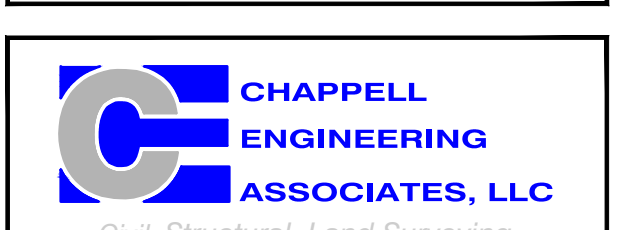
- ELECTRICAL AND GROUNDING NOTES**
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 - ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
 - THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
 - GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
 - ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
 - BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
 - ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
 - RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
 - RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
 - WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
 - ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
 - PPC SUPPLIED BY PROJECT OWNER.
 - GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
 - GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
 - USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
 - ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
 - ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 8" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
 - CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
 - APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
 - CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
 - CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
 - CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.

**T-MOBILE
NORTHEAST LLC**

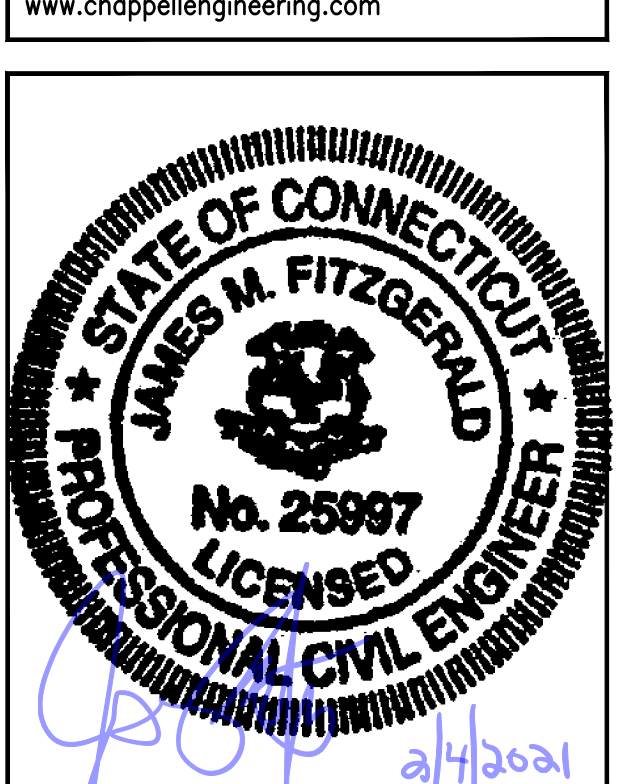
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	02/03/21	ISSUED FOR CONSTRUCTION	JRV
0	11/13/20	ISSUED FOR REVIEW	JRV

SITE NUMBER:
CT11346C

SITE ADDRESS:
160 DEER RUN ROAD
WILTON, CT 06897

SHEET TITLE
**ELECTRIC & GROUNDING
DETAILS**

SHEET NUMBER
E-1

EXHIBIT 7

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

120.0' Self-Support Tower (120.0' AGL)

**SBA Site Name: Wilton, CT / Optasite
SBA Site ID: CT98078-L-01
T-Mobile Site Name: CT346/ OptasiteWiltonFT
T-Mobile Site ID: CT11346C
Site Address: 160 Deer Run Rd, Wilton, CT 06897**

FDH Infrastructure Services, LLC Project Number PR-005254

Analysis Results

Tower Components	81.2%	Sufficient
Foundation	36.1%	Sufficient

Prepared By:



Chaitanya Shetti
Project Engineer II

Reviewed By:



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

FDH Infrastructure Services, LLC

6521 Meridien Drive
Raleigh, NC, 27616
(919) 755-1012
Structural@fdh-is.com

February 11, 2021



02-11-2021

Prepared pursuant to the ANSI/TIA-222-G Structural Standard for Antenna Supporting Structures and Antennas and the 2018 Connecticut State Building Code

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EXECUTIVE SUMMARY 3
 Conclusions..... 3
 Recommendations 3
APPURTENANCE LISTING 4
RESULTS 5
GENERAL COMMENTS..... 6
LIMITATIONS 6
APPENDIX..... 7

EXECUTIVE SUMMARY

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

Source	Document Type	Reference	Date
World Tower	Tower & Foundation Drawings	Drawing No. Q06515	October 16, 2006
JGI Eastern, Inc.	Geotechnical Report	Project No. 06517G	August 31, 2006
FDH Infrastructure Services, LLC	Tower Mapping Report	Project No. 18TBQN1500	December 12, 2018
FDH Infrastructure Services, LLC	Previous Structural Analysis	Project No. PR-003788	May 22, 2020
T-Mobile	Collocation Application	App ID: 141365 [Version 2]	February 03, 2021
FDH Infrastructure Services, LLC	Mount Analysis Report	Project No. PR-005254	February 10, 2021
SBA Network Services, Inc.			

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

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

Conclusions

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

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

Recommendations

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

1. Feed lines to be installed as shown in **Figure 1** in the **Appendix**.
2. RRU/RRH Stipulation: The equipment may be installed in any arrangement as determined by the client.
3. The proposed TMAs should be installed directly behind the proposed/existing panel antennas.

APPURTENANCE LISTING

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

Table 1 - Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Feed Lines	Carrier	Mount Elevation (ft)	Mount Type
126.5	(2) 3" Ø x 12' Omni	(2) 7/8"	---	122.0	(3) 2.4" Ø x 7' Pipe Mounts
121.0	(3) Ericsson KRY 112 71	(6) 1-5/8" (1) 1-1/4" Hybrid	T-Mobile	118.0	(3) 6.7' x 1' T-Arms
120.0	(3) Commscope LNX-6515DS-VTM				
119.5	(3) Ericsson Air 21 B4A/B2P (3) Ericsson Air 21 B2A/B4P				
118.0	(3) Ericsson S11B12				
110.0	(3) Powerwave 7770 (3) Kathrein 800-10965 (3) Powerwave P65-16-XLH-RR (3) CCI OPA65R-BU6DA (6) Powerwave LGP 21401 (3) Powerwave TT19-08BP111-001 (3) Ericsson RRUS-11 (3) Ericsson RRUS 4478 B5 (3) Ericsson RRUS 4415 B25 (3) Ericsson RRUS 4478 B14 (2) Raycap DC6-48-60-18-8F	(12) 1-5/8" (4) 3/4" DC (2) 3/8" Fiber (2) 3/8" Alarm Cables (1) 3" Flex	AT&T	110.0	(3) 12' Sector Mounts [Sabre P/N: C10857001C]
99.5	(2) Raycap RC2DC-3315-PF48 (3) Alcatel Lucent B66A RRH4x45	(12) 1-5/8" (2) 1-5/8" Hybrid	Verizon	96.5	(3) 10'x2' T-Frames
99.0	(6) Andrew SBNHH-1D85B				
98.0	(6) RFS RDR6004 (3) RFS 80090/8				
97.0	(3) Alcatel Lucent B13 RRH4x30-4R				
86.0	(3) 60"x12"x4.5" Panels	(9) 1-5/8" (2) 1-1/2"	Sprint	86.0	(3) 2.7' Stand-Offs
57.0	(1) Scala PR-850 (1) Scala PR-850	(1) 7/8"		57.0	Direct
51.0	(1) Scala PR-850	(2) 7/8"		55.0	(1) 1.9"x9.8' Pipe Mount

Proposed Carrier Final Loading:

Antenna Elevation (ft)	Description	Feed Lines	Carrier	Mount Elevation (ft)	Mount Type
118.0	(3) Ericsson AIR6449 B41 (3) Ericsson AIR32 KRD901146-1_B66A_B2A (Octo) (3) RFS APXVAALL24-43-U-NA20 (3) Commscope SDX1926Q-43 (E14F05P86) (3) Ericsson KRY 112 71 (3) Ericsson Radio 4449 B71+B85 (3) Ericsson Radio 4415 B25	(7) 1-5/8" (6) Fiber	T-Mobile	118.0	(3) Sector Mounts [Sitepro1 P/N: VFA12-HD]

RESULTS

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

Table 2 - Material Grade

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

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

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

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

Table 3 - Structure Member Capacities

Section No.	Elevation (ft.)	Component Type	Size	% Capacity	Pass / Fail
T1	120 - 100	Leg	1 3/4	71.2	Pass
T2	100 - 80	Leg	2 1/2	61.3	Pass
T3	80 - 60	Leg	2 3/4	68.1	Pass
T4	60 - 40	Leg	3	70.0	Pass
T5	40 - 20	Leg	3 1/4	68.1	Pass
T6	20 - 0	Leg	3 1/2	64.4	Pass
T1	120 - 100	Diagonal	L2x2x3/16	28.2 44.0 (b)	Pass
T2	100 - 80	Diagonal	L2x2x3/16	52.3 81.2 (b)	Pass
T3	80 - 60	Diagonal	L2x2x3/16	39.8 52.2 (b)	Pass
T4	60 - 40	Diagonal	L2x2x3/16	59.3	Pass
T5	40 - 20	Diagonal	L3x3x1/4	37.7 52.0 (b)	Pass
T6	20 - 0	Diagonal	L3x3x1/4	42.9 50.0 (b)	Pass
T5	40 - 20	Secondary Horizontal	L2x2x1/8	57.6	Pass
T6	20 - 0	Secondary Horizontal	L2x2x1/8	80.4	Pass
T1	120 - 100	Top Girt	L2x2x1/8	10.5 11.0 (b)	Pass
T3	80 - 60	Top Girt	L2x2x1/8	5.7 6.1 (b)	Pass

Table 4 – Additional Structure Component Capacities

Elevation (ft.)	Component	% Capacity	Pass / Fail	Notes
0	Anchor Rods	65.9	Pass	-
0	Base Foundation (Soil Interaction)	36.1	Pass	-
0	Base Foundation (Structural)	32.6	Pass	-

Table 5 - Maximum Dish Rotations at Service Wind Speeds

Centerline Elevation (ft.)	Dish	Tilt (deg)*	Twist (deg)*
57.0	(2) Scala PR-850	0.0969	0.0194
51.0	(1) Scala PR-850	0.0851	0.0157

*Allowable tilt and twist to be reviewed by the carrier

GENERAL COMMENTS

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

LIMITATIONS

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

APPENDIX

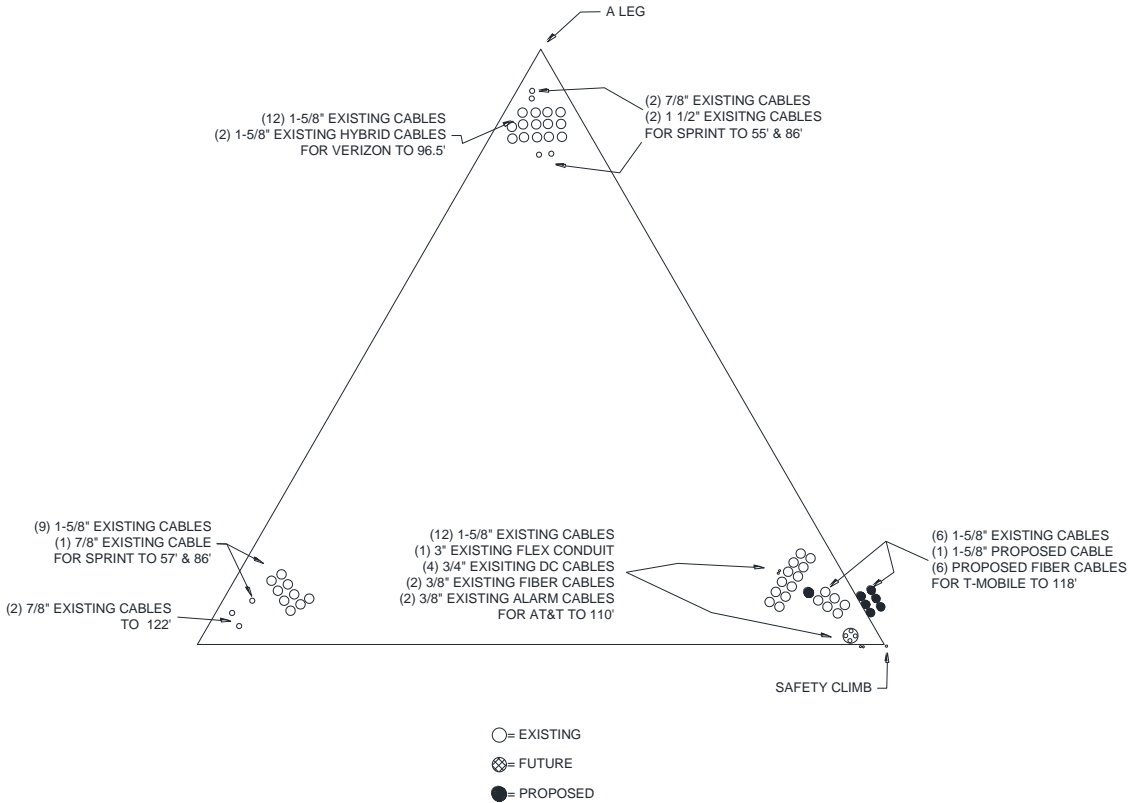


Figure 1- Feed Line Layout

DESIGNED APPURTENANCE LOADING

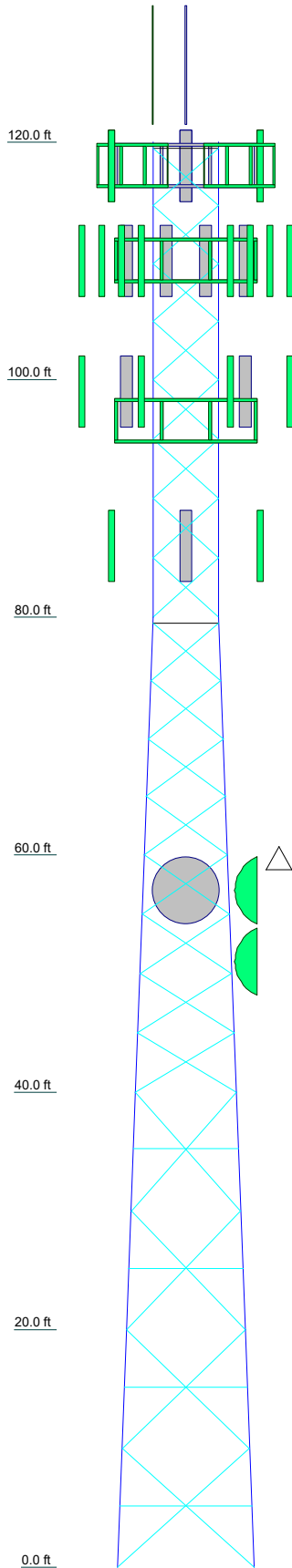
TYPE	ELEVATION	TYPE	ELEVATION
3"x12' Omni	122	P65-16-XLH-RR w/ Mount Pipe	110
3"x12' Omni	122	P65-16-XLH-RR w/ Mount Pipe	110
2.4" x 7" Pipe Mount	122	P65-16-XLH-RR w/ Mount Pipe	110
2.4" x 7" Pipe Mount	122	(2) LGP21401 TMA	110
2.4" x 7" Pipe Mount	122	(2) LGP21401 TMA	110
Lightning Rod	120	(2) LGP21401 TMA	110
Air 6449 B41 w/ Pipe Mount	118	TT19-08BP111-001	110
Air 6449 B41 w/ Pipe Mount	118	TT19-08BP111-001	110
Air 6449 B41 w/ Pipe Mount	118	TT19-08BP111-001	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4478 B5	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4478 B5	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4478 B5	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4415 B25	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4415 B25	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4415 B25	110
4449 B71 + B85	118	DC6-48-60-18-8F	110
4449 B71 + B85	118	DC6-48-60-18-8F	110
4415 B25	118	(3) 12' Sector Mounts [Sabre C10857001C]	110
4415 B25	118	RC2DC-3315-PF-48	96.5
4415 B25	118	RC2DC-3315-PF-48	96.5
SDX1926Q-43	118	B66A RRH4X45	96.5
SDX1926Q-43	118	B66A RRH4X45	96.5
SDX1926Q-43	118	B66A RRH4X45	96.5
KRY 112 71	118	(2) SBNHH-1D85B w/Mount Pipe	96.5
KRY 112 71	118	(2) SBNHH-1D85B w/Mount Pipe	96.5
KRY 112 71	118	(2) SBNHH-1D85B w/Mount Pipe	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	(2) FDR6004/6	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	(2) FDR6004/6	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	80090-8	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	80090-8	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	80090-8	96.5
OPA65R-BU6DA w/ Mount Pipe	110	B13 RRH 4x30-4R	96.5
OPA65R-BU6DA w/ Mount Pipe	110	B13 RRH 4x30-4R	96.5
OPA65R-BU6DA w/ Mount Pipe	110	B13 RRH 4x30-4R	96.5
RRUS 4478 B14	110	(4) Mount Pipe	96.5
RRUS 4478 B14	110	(4) Mount Pipe	96.5
RRUS 4478 B14	110	(4) Mount Pipe	96.5
7770 w/Mount Pipe	110	(3) 10' x 2' T-Arms	96.5
7770 w/Mount Pipe	110	60" x 12" x 5" w/ Mount Pipe	86
7770 w/Mount Pipe	110	60" x 12" x 5" w/ Mount Pipe	86
7770 w/Mount Pipe	110	60" x 12" x 5" w/ Mount Pipe	86
800 10965 w/ Mount Pipe	110	(3) 2.7' StandOffs	86
800 10965 w/ Mount Pipe	110	PR-850	57
800 10965 w/ Mount Pipe	110	1.9"Ø x 9.8' Pipe Mount	55
800 10965 w/ Mount Pipe	110	PR-850	55
800 10965 w/ Mount Pipe	110	PR-850	55

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

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



Section	T1	T2	T3	T4	T5	T6
Legs	SR 1 3/4	SR 2 1/2	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/2
Leg Grade	A572-50					
Diagonals	L2x2x3/16					
Diagonal Grade	A36					
Top Girts	L2x2x1/8					
Sec. Horizontals	N.A.					
Face Width (ft)	7					
# Panels @ (ft)	4 @ 5					
Weight (K)	11.6					

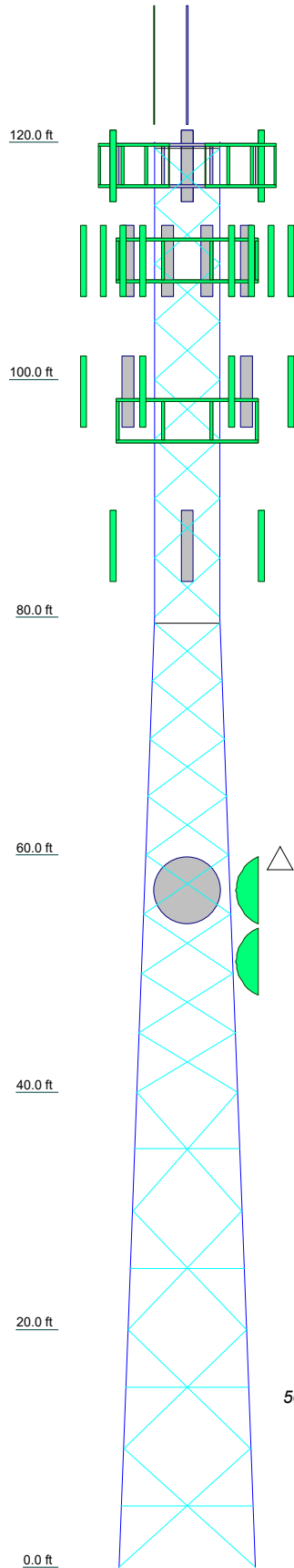
<p>FDH Infrastructure Services ENGINEERING INNOVATION FDH-IS</p>	<p>Job: CT98078-L, Wilton, CT/Optasite</p>	
	<p>6521 Meriden Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031</p>	
	<p>Project: PR-005254</p>	<p>Client: SBA Network Services, Inc. Drawn by: Chaitanya Shetti App'd:</p>
	<p>Code: TIA-222-G Date: 02/11/21 Scale: NTS</p>	<p>Path: Dwg No. E-1</p>

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
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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: 81.2%



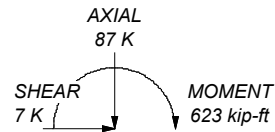
Section	T1	T2	T3	T4	T5	T6
Legs	SR 1 3/4	SR 2 1/2	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/2
Leg Grade	A572-50					
Diagonals	L2x2x3/16					
Diagonal Grade	A36					
Top Girts	L2x2x1/8	N.A.	L2x2x1/8	N.A.	N.A.	N.A.
Sec. Horizontals	N.A.					
Face Width (ft)	7					
# Panels @ (ft)	4 @ 4.875					
Weight (K)	0.9					
	1.4					
	1.7					
	2.0					
	2.6					
	2.9					
	8.5					
	10					
	4 @ 10					
	L3x3x1/4					
	L2x2x1/8					
	N.A.					

ALL REACTIONS ARE FACTORED

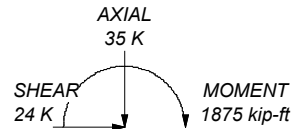
MAX. CORNER REACTIONS AT BASE:

DOWN: 200 K
SHEAR: 15 K

UPLIFT: -172 K
SHEAR: 13 K



TORQUE 5 kip-ft
50 mph WIND - 0.7500 in ICE



TORQUE 14 kip-ft
REACTIONS - 93 mph WIND

<p>FDH Infrastructure Services ENGINEERING INNOVATION FDH-IS</p>	<p>6521 Meriden Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031</p>		<p>Job: CT98078-L, Wilton, CT/Optasite</p>	
	<p>Project: PR-005254</p>		<p>Client: SBA Network Services, Inc. Drawn by: Chaitanya Shetti App'd:</p>	
	<p>Code: TIA-222-G</p>		<p>Date: 02/11/21 Scale: NTS</p>	
	<p>Path:</p>		<p>Dwg No. E-1</p>	

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job CT98078-L, Wilton, CT/Optasite	Page 1 of 33
	Project PR-005254	Date 12:03:28 02/11/21
	Client SBA Network Services, Inc.	Designed by Chaitanya Shetti

Tower Input Data

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

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

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

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

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

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

Basic wind speed of 93 mph.

Structure Class II.

Exposure Category B.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

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

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

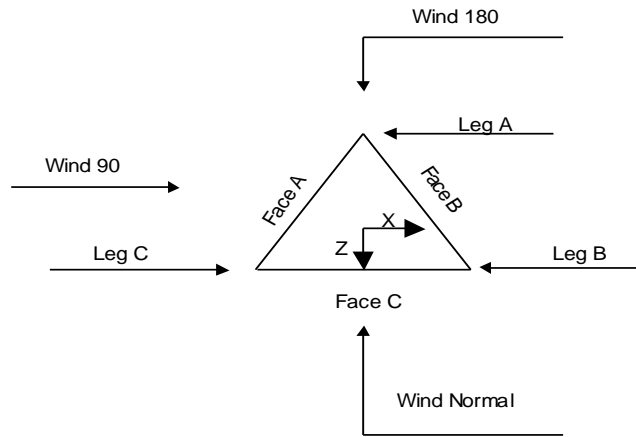
Stress ratio used in tower member design is 1.

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

Options

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

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job CT98078-L, Wilton, CT/Optasite	Page 2 of 33
	Project PR-005254	Date 12:03:28 02/11/21
	Client SBA Network Services, Inc.	Designed by Chaitanya Shetti



Triangular Tower

Tower Section Geometry

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

Tower Section Geometry (cont'd)

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

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Tower Section Geometry (cont'd)

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

Tower Section Geometry (cont'd)

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

Tower Section Geometry (cont'd)

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

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	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 120.00-100.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T2	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000

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Tower 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 120.00-100.00	Flange	0.7500 A325N	4	0.6250 A325N	1	0.3750 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T2 100.00-80.00	Flange	0.7500 A325N	4	0.6250 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T3 80.00-60.00	Flange	1.0000 A325N	4	0.6250 A325N	1	0.3750 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T4 60.00-40.00	Flange	1.0000 A325N	4	0.6250 A325N	1	0.6250 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T5 40.00-20.00	Flange	1.0000 A325N	6	0.6250 A325N	1	0.6250 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	1	0.6250 A325N	0
T6 20.00-0.00	Flange	1.0000 A325N	0	0.6250 A325N	1	0.6250 A325N	0	0.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	1	0.6250 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	B	No	No	Ar (CaAa)	118.00 - 0.00	0.0000	0.5	1	1	0.0000	0.3750		0.22
*** 1-5/8"	A	No	No	Ar (CaAa)	118.00 - 0.00	-85.000 0	0	7	2	0.5000	1.9800		0.82
1-5/8"	B	No	No	Ar (CaAa)	118.00 - 0.00	0.0000	0.4	6	3	0.5000	1.9800		0.82
T-Brackets	A	No	No	Af (CaAa)	110.00 - 8.50	-100.00 00	0	1	1	1.0000	1.0000		4.20
*** 1-5/8"	A	No	No	Ar (CaAa)	110.00 - 0.00	-75.000 0	0	12	6	0.5000	1.9800		0.82
3"	C	No	No	Ar (CaAa)	110.00 - 0.00	-0.5000	-0.43	1	1	0.5000	3.0100		1.78
3/8"	A	No	No	Ar (CaAa)	110.00 - 0.00	-72.000 0	0	2	2	0.0000	0.3750		0.18
3/8"	C	No	No	Ar (CaAa)	110.00 - 0.00	0.0000	-0.45	2	2	0.0000	0.3750		0.18
*** 1-5/8"	C	No	No	Ar (CaAa)	96.50 - 9.50	-85.000 0	0	14	4	0.5000	1.9800		0.82
T-Brackets	C	No	No	Af (CaAa)	95.00 - 9.50	-95.000 0	0	1	1	1.0000	1.0000		4.20
*** 1-5/8"	B	No	No	Ar (CaAa)	86.00 - 9.00	-80.000 0	0	9	4	0.5000	1.9800		0.82
7/8"	B	No	No	Ar (CaAa)	57.00 - 9.00	-85.000 0	0	1	1	0.5000	1.1100		0.54

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
7/8"	B	No	No	Ar (CaAa)	120.00 - 9.00	-90.000 0	0	2	2	0.5000	1.1100		0.54
7/8"	C	No	No	Ar (CaAa)	55.00 - 9.50	-90.000 0	0.02	2	1	0.5000	1.1100		0.54
7/8"	C	No	No	Ar (CaAa)	86.00 - 9.50	-78.000 0	0	2	2	0.5000	1.1100		0.54
T-Brackets	B	No	No	Af (CaAa)	95.00 - 8.50	-95.000 0	0	1	1	1.0000	1.0000		4.20

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	CAAA	Weight plf
***	3/4"	C	No	CaAa (In Face)	110.00 - 0.00	-0.5000	-0.43	4	No Ice 1/2" Ice 1" Ice	1.78 0.00 0.00

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	CAAA In Face ft ²	CAAA Out Face ft ²	Weight K
T1	120.00-100.00	A	0.000	0.000	51.125	0.000	0.25
		B	0.000	0.000	26.499	0.000	0.11
		C	0.000	0.000	3.760	0.000	0.09
T2	100.00-80.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	42.142	0.000	0.23
		C	0.000	0.000	57.090	0.000	0.44
T3	80.00-60.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	67.923	0.000	0.36
		C	0.000	0.000	70.733	0.000	0.52
T4	60.00-40.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	69.810	0.000	0.37
		C	0.000	0.000	74.063	0.000	0.54
T5	40.00-20.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	70.143	0.000	0.37
		C	0.000	0.000	75.173	0.000	0.54
T6	20.00-0.00	A	0.000	0.000	78.657	0.000	0.37
		B	0.000	0.000	49.692	0.000	0.25
		C	0.000	0.000	43.038	0.000	0.37

Feed Line/Linear Appurtenances Section Areas - With Ice

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T1	120.00-100.00	A	1.692	0.000	0.000	70.093	0.000	1.19
		B		0.000	0.000	54.888	0.000	0.75
		C		0.000	0.000	13.378	0.000	0.17
T2	100.00-80.00	A	1.658	0.000	0.000	109.330	0.000	1.86
		B		0.000	0.000	78.016	0.000	1.18
		C		0.000	0.000	76.623	0.000	1.37
T3	80.00-60.00	A	1.617	0.000	0.000	108.320	0.000	1.82
		B		0.000	0.000	107.930	0.000	1.72
		C		0.000	0.000	98.897	0.000	1.69
T4	60.00-40.00	A	1.564	0.000	0.000	107.009	0.000	1.78
		B		0.000	0.000	113.581	0.000	1.77
		C		0.000	0.000	110.879	0.000	1.81
T5	40.00-20.00	A	1.486	0.000	0.000	105.102	0.000	1.71
		B		0.000	0.000	112.282	0.000	1.71
		C		0.000	0.000	112.581	0.000	1.79
T6	20.00-0.00	A	1.331	0.000	0.000	97.640	0.000	1.51
		B		0.000	0.000	75.350	0.000	1.09
		C		0.000	0.000	66.991	0.000	0.98

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
T1	120.00-100.00	15.9841	11.8696	14.3197	12.4152
T2	100.00-80.00	13.4678	4.5602	12.7538	6.1686
T3	80.00-60.00	7.7980	4.2560	8.0402	4.7264
T4	60.00-40.00	7.3246	3.5014	7.2211	3.5257
T5	40.00-20.00	6.9650	3.2039	7.3989	3.3361
T6	20.00-0.00	10.0323	5.6794	11.3908	6.3036

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	2	Safety Line 3/8"	100.00 - 118.00	0.6000	0.6000
T1	5	1-5/8"	100.00 - 118.00	0.6000	0.6000
T1	6	1-5/8"	100.00 - 118.00	0.6000	0.6000
T1	9	T-Brackets	100.00 - 110.00	0.6000	0.6000
T1	11	1-5/8"	100.00 - 110.00	0.6000	0.6000
T1	12	3"	100.00 - 110.00	0.6000	0.6000
T1	13	3/4"	100.00 - 110.00	0.6000	0.6000
T1	14	3/8"	100.00 - 110.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	15	3/8"	100.00 - 110.00	0.6000	0.6000
T1	22	7/8"	100.00 - 120.00	0.6000	0.6000
T2	2	Safety Line 3/8"	80.00 - 100.00	0.6000	0.6000
T2	5	1-5/8"	80.00 - 100.00	0.6000	0.6000
T2	6	1-5/8"	80.00 - 100.00	0.6000	0.6000
T2	9	T-Brackets	80.00 - 100.00	0.6000	0.6000
T2	11	1-5/8"	80.00 - 100.00	0.6000	0.6000
T2	12	3"	80.00 - 100.00	0.6000	0.6000
T2	13	3/4"	80.00 - 100.00	0.6000	0.6000
T2	14	3/8"	80.00 - 100.00	0.6000	0.6000
T2	15	3/8"	80.00 - 100.00	0.6000	0.6000
T2	17	1-5/8"	80.00 - 96.50	0.6000	0.6000
T2	18	T-Brackets	80.00 - 95.00	0.6000	0.6000
T2	20	1-5/8"	80.00 - 86.00	0.6000	0.6000
T2	22	7/8"	80.00 - 100.00	0.6000	0.6000
T2	24	7/8"	80.00 - 86.00	0.6000	0.6000
T2	25	T-Brackets	80.00 - 95.00	0.6000	0.6000
T3	2	Safety Line 3/8"	60.00 - 80.00	0.6000	0.6000
T3	5	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	6	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	9	T-Brackets	60.00 - 80.00	0.6000	0.6000
T3	11	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	12	3"	60.00 - 80.00	0.6000	0.6000
T3	13	3/4"	60.00 - 80.00	0.6000	0.6000
T3	14	3/8"	60.00 - 80.00	0.6000	0.6000
T3	15	3/8"	60.00 - 80.00	0.6000	0.6000
T3	17	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	18	T-Brackets	60.00 - 80.00	0.6000	0.6000
T3	20	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	22	7/8"	60.00 - 80.00	0.6000	0.6000
T3	24	7/8"	60.00 - 80.00	0.6000	0.6000
T3	25	T-Brackets	60.00 - 80.00	0.6000	0.6000
T4	2	Safety Line 3/8"	40.00 - 60.00	0.6000	0.6000
T4	5	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	6	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	9	T-Brackets	40.00 - 60.00	0.6000	0.6000
T4	11	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	12	3"	40.00 - 60.00	0.6000	0.6000
T4	13	3/4"	40.00 - 60.00	0.6000	0.6000
T4	14	3/8"	40.00 - 60.00	0.6000	0.6000
T4	15	3/8"	40.00 - 60.00	0.6000	0.6000
T4	17	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	18	T-Brackets	40.00 - 60.00	0.6000	0.6000
T4	20	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	21	7/8"	40.00 - 57.00	0.6000	0.6000
T4	22	7/8"	40.00 - 60.00	0.6000	0.6000
T4	23	7/8"	40.00 - 55.00	0.6000	0.6000
T4	24	7/8"	40.00 - 60.00	0.6000	0.6000
T4	25	T-Brackets	40.00 - 60.00	0.6000	0.6000
T5	2	Safety Line 3/8"	20.00 - 40.00	0.6000	0.6000
T5	5	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	6	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	9	T-Brackets	20.00 - 40.00	0.6000	0.6000
T5	11	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	12	3"	20.00 - 40.00	0.6000	0.6000
T5	13	3/4"	20.00 - 40.00	0.6000	0.6000
T5	14	3/8"	20.00 - 40.00	0.6000	0.6000
T5	15	3/8"	20.00 - 40.00	0.6000	0.6000
T5	17	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	18	T-Brackets	20.00 - 40.00	0.6000	0.6000

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

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C_{AA} Front	C_{AA} Side	Weight	
			Horz Lateral	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
Lightning Rod	C	None			0.0000	120.00	No Ice	0.25	0.25	0.03
							1/2" Ice	0.66	0.66	0.03
							1" Ice	0.97	0.97	0.04
*** 3"x12' Omni	A	From Leg	0.00	0.00	0.0000	122.00	No Ice	3.60	3.60	0.03
			0.00	4.50			1/2" Ice	4.83	4.83	0.05
			4.50				1" Ice	6.08	6.08	0.08
3"x12' Omni	C	From Leg	0.00	0.00	0.0000	122.00	No Ice	3.60	3.60	0.03
			0.00	4.50			1/2" Ice	4.83	4.83	0.05
			4.50				1" Ice	6.08	6.08	0.08
2.4" x 7' Pipe Mount	A	From Leg	0.00	0.00	0.0000	122.00	No Ice	1.68	1.68	0.05
			0.00	0.00			1/2" Ice	2.41	2.41	0.06
			0.00	0.00			1" Ice	2.83	2.83	0.08
2.4" x 7' Pipe Mount	B	From Leg	0.00	0.00	0.0000	122.00	No Ice	1.68	1.68	0.05
			0.00	0.00			1/2" Ice	2.41	2.41	0.06
			0.00	0.00			1" Ice	2.83	2.83	0.08
2.4" x 7' Pipe Mount	C	From Leg	0.00	0.00	0.0000	122.00	No Ice	1.68	1.68	0.05
			0.00	0.00			1/2" Ice	2.41	2.41	0.06
			0.00	0.00			1" Ice	2.83	2.83	0.08
*** Air 6449 B41 w/ Pipe Mount	A	From Leg	4.00	0.00	0.0000	118.00	No Ice	5.65	2.42	0.10
			0.00				1/2" Ice	5.96	2.64	0.14

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
Air 6449 B41 w/ Pipe Mount	B	From Leg	0.00		0.0000	118.00	1" Ice	6.26	2.87	0.18
			4.00				No Ice	5.65	2.42	0.10
			0.00				1/2" Ice	5.96	2.64	0.14
			0.00				1" Ice	6.26	2.87	0.18
Air 6449 B41 w/ Pipe Mount	C	From Leg	4.00		0.0000	118.00	No Ice	5.65	2.42	0.10
			0.00				1/2" Ice	5.96	2.64	0.14
			0.00				1" Ice	6.26	2.87	0.18
			0.00							
KRD901146-1-B66A-B2A w/ Mount Pipe	A	From Leg	4.00		0.0000	118.00	No Ice	6.75	6.07	0.15
			0.00				1/2" Ice	7.20	6.87	0.21
			0.00				1" Ice	7.65	7.58	0.28
			0.00							
KRD901146-1-B66A-B2A w/ Mount Pipe	B	From Leg	4.00		0.0000	118.00	No Ice	6.75	6.07	0.15
			0.00				1/2" Ice	7.20	6.87	0.21
			0.00				1" Ice	7.65	7.58	0.28
			0.00							
KRD901146-1-B66A-B2A w/ Mount Pipe	C	From Leg	4.00		0.0000	118.00	No Ice	6.75	6.07	0.15
			0.00				1/2" Ice	7.20	6.87	0.21
			0.00				1" Ice	7.65	7.58	0.28
			0.00							
APXVAALL24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00		0.0000	118.00	No Ice	14.69	6.87	0.19
			0.00				1/2" Ice	15.46	7.55	0.31
			0.00				1" Ice	16.23	8.25	0.46
			0.00							
APXVAALL24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00		0.0000	118.00	No Ice	14.69	6.87	0.19
			0.00				1/2" Ice	15.46	7.55	0.31
			0.00				1" Ice	16.23	8.25	0.46
			0.00							
APXVAALL24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00		0.0000	118.00	No Ice	14.69	6.87	0.19
			0.00				1/2" Ice	15.46	7.55	0.31
			0.00				1" Ice	16.23	8.25	0.46
			0.00							
4449 B71 + B85	A	From Leg	4.00		0.0000	118.00	No Ice	2.09	1.59	0.07
			0.00				1/2" Ice	2.27	1.75	0.09
			0.00				1" Ice	2.46	1.92	0.12
			0.00							
4449 B71 + B85	B	From Leg	4.00		0.0000	118.00	No Ice	2.09	1.59	0.07
			0.00				1/2" Ice	2.27	1.75	0.09
			0.00				1" Ice	2.46	1.92	0.12
			0.00							
4449 B71 + B85	C	From Leg	4.00		0.0000	118.00	No Ice	2.09	1.59	0.07
			0.00				1/2" Ice	2.27	1.75	0.09
			0.00				1" Ice	2.46	1.92	0.12
			0.00							
4415 B25	A	From Leg	4.00		0.0000	118.00	No Ice	2.02	1.25	0.06
			0.00				1/2" Ice	2.20	1.40	0.08
			0.00				1" Ice	2.39	1.56	0.10
			0.00							
4415 B25	B	From Leg	4.00		0.0000	118.00	No Ice	2.02	1.25	0.06
			0.00				1/2" Ice	2.20	1.40	0.08
			0.00				1" Ice	2.39	1.56	0.10
			0.00							
4415 B25	C	From Leg	4.00		0.0000	118.00	No Ice	2.02	1.25	0.06
			0.00				1/2" Ice	2.20	1.40	0.08
			0.00				1" Ice	2.39	1.56	0.10
			0.00							
SDX1926Q-43	A	From Leg	4.00		0.0000	118.00	No Ice	0.24	0.10	0.01
			0.00				1/2" Ice	0.30	0.14	0.01
			0.00				1" Ice	0.37	0.19	0.01
			0.00							
SDX1926Q-43	B	From Leg	4.00		0.0000	118.00	No Ice	0.24	0.10	0.01
			0.00				1/2" Ice	0.30	0.14	0.01
			0.00				1" Ice	0.37	0.19	0.01
			0.00							
SDX1926Q-43	C	From Leg	4.00		0.0000	118.00	No Ice	0.24	0.10	0.01
			0.00				1/2" Ice	0.30	0.14	0.01
			0.00				1" Ice	0.37	0.19	0.01
			0.00							
KRY 112 71	A	From Leg	4.00		0.0000	118.00	No Ice	1.50	0.50	0.02
			0.00				1/2" Ice	1.65	0.60	0.03
			0.00				1" Ice	1.81	0.72	0.04
			0.00							
KRY 112 71	B	From Leg	4.00		0.0000	118.00	No Ice	1.50	0.50	0.02
			0.00				1/2" Ice	1.65	0.60	0.03

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job	CT98078-L, Wilton, CT/Optasite	Page	11 of 33
	Project	PR-005254	Date	12:03:28 02/11/21
	Client	SBA Network Services, Inc.	Designed by	Chaitanya Shetti

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight					
			Horz	Lateral						Vert	°	ft	ft ²	ft ²
KRY 112 71	C	From Leg	4.00	0.00	0.0000	118.00	1" Ice	1.81	0.72	0.04				
			4.00	0.00							No Ice	1.50	0.50	0.02
			0.00	0.00							1/2" Ice	1.65	0.60	0.03
			0.00	0.00							1" Ice	1.81	0.72	0.04
Sector Frame (SitePro 1 P/N: VFA12-HD)	A	From Leg	2.00	0.00	0.0000	118.00	No Ice	13.20	9.20	0.66				
			0.00	0.00							1/2" Ice	19.50	14.60	0.80
			0.00	0.00							1" Ice	25.80	19.50	1.01
			0.00	0.00							No Ice	13.20	9.20	0.66
Sector Frame (SitePro 1 P/N: VFA12-HD)	B	From Leg	2.00	0.00	0.0000	118.00	No Ice	13.20	9.20	0.66				
			0.00	0.00							1/2" Ice	19.50	14.60	0.80
			0.00	0.00							1" Ice	25.80	19.50	1.01
			0.00	0.00							No Ice	13.20	9.20	0.66
Sector Frame (SitePro 1 P/N: VFA12-HD)	C	From Leg	2.00	0.00	0.0000	118.00	No Ice	13.20	9.20	0.66				
			0.00	0.00							1/2" Ice	19.50	14.60	0.80
			0.00	0.00							1" Ice	25.80	19.50	1.01
			0.00	0.00							No Ice	13.20	9.20	0.66

OPA65R-BU6DA w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	110.00	No Ice	12.25	6.05	0.09				
			0.00	0.00							1/2" Ice	13.00	6.71	0.18
			0.00	0.00							1" Ice	13.76	7.39	0.27
			0.00	0.00							No Ice	12.25	6.05	0.09
OPA65R-BU6DA w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	110.00	No Ice	12.25	6.05	0.09				
			0.00	0.00							1/2" Ice	13.00	6.71	0.18
			0.00	0.00							1" Ice	13.76	7.39	0.27
			0.00	0.00							No Ice	12.25	6.05	0.09
OPA65R-BU6DA w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	110.00	No Ice	12.25	6.05	0.09				
			0.00	0.00							1/2" Ice	13.00	6.71	0.18
			0.00	0.00							1" Ice	13.76	7.39	0.27
			0.00	0.00							No Ice	12.25	6.05	0.09
RRUS 4478 B14	A	From Leg	4.00	0.00	0.0000	110.00	No Ice	1.84	1.06	0.06				
			0.00	0.00							1/2" Ice	2.01	1.20	0.08
			0.00	0.00							1" Ice	2.19	1.34	0.09
			0.00	0.00							No Ice	1.84	1.06	0.06
RRUS 4478 B14	B	From Leg	4.00	0.00	0.0000	110.00	No Ice	1.84	1.06	0.06				
			0.00	0.00							1/2" Ice	2.01	1.20	0.08
			0.00	0.00							1" Ice	2.19	1.34	0.09
			0.00	0.00							No Ice	1.84	1.06	0.06
RRUS 4478 B14	C	From Leg	4.00	0.00	0.0000	110.00	No Ice	1.84	1.06	0.06				
			0.00	0.00							1/2" Ice	2.01	1.20	0.08
			0.00	0.00							1" Ice	2.19	1.34	0.09
			0.00	0.00							No Ice	1.84	1.06	0.06
7770 w/Mount Pipe	A	From Face	4.00	0.00	0.0000	110.00	No Ice	6.20	4.94	0.07				
			0.00	0.00							1/2" Ice	6.76	5.86	0.12
			0.00	0.00							1" Ice	7.27	6.64	0.19
			0.00	0.00							No Ice	6.20	4.94	0.07
7770 w/Mount Pipe	B	From Face	4.00	0.00	0.0000	110.00	No Ice	6.20	4.94	0.07				
			0.00	0.00							1/2" Ice	6.76	5.86	0.12
			0.00	0.00							1" Ice	7.27	6.64	0.19
			0.00	0.00							No Ice	6.20	4.94	0.07
7770 w/Mount Pipe	C	From Face	4.00	0.00	0.0000	110.00	No Ice	6.20	4.94	0.07				
			0.00	0.00							1/2" Ice	6.76	5.86	0.12
			0.00	0.00							1" Ice	7.27	6.64	0.19
			0.00	0.00							No Ice	6.20	4.94	0.07
800 10965 w/ Mount Pipe	A	From Face	4.00	0.00	0.0000	110.00	No Ice	14.05	7.63	0.14				
			0.00	0.00							1/2" Ice	14.69	8.90	0.23
			0.00	0.00							1" Ice	15.30	9.96	0.34
			0.00	0.00							No Ice	14.05	7.63	0.14
800 10965 w/ Mount Pipe	B	From Face	4.00	0.00	0.0000	110.00	No Ice	14.05	7.63	0.14				
			0.00	0.00							1/2" Ice	14.69	8.90	0.23
			0.00	0.00							1" Ice	15.30	9.96	0.34
			0.00	0.00							No Ice	14.05	7.63	0.14
800 10965 w/ Mount Pipe	C	From Face	4.00	0.00	0.0000	110.00	No Ice	14.05	7.63	0.14				
			0.00	0.00							1/2" Ice	14.69	8.90	0.23
			0.00	0.00							1" Ice	15.30	9.96	0.34
			0.00	0.00							No Ice	14.05	7.63	0.14
P65-16-XLH-RR w/ Mount Pipe	A	From Face	4.00	0.00	0.0000	110.00	No Ice	8.37	6.36	0.08				
			0.00	0.00							1/2" Ice	8.93	7.54	0.14
			0.00	0.00							1" Ice	9.46	8.43	0.22
			0.00	0.00							No Ice	8.37	6.36	0.08
P65-16-XLH-RR w/ Mount Pipe	B	From Face	4.00	0.00	0.0000	110.00	No Ice	8.37	6.36	0.08				
			0.00	0.00							1/2" Ice	8.93	7.54	0.14
			0.00	0.00							1" Ice	9.46	8.43	0.22
			0.00	0.00							No Ice	8.37	6.36	0.08
P65-16-XLH-RR w/ Mount	C	From Face	4.00	0.00	0.0000	110.00	No Ice	8.37	6.36	0.08				

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	Project		PR-005254				Date		12:03:28 02/11/21	
	Client		SBA Network Services, Inc.				Designed by		Chaitanya Shetti	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz Lateral	Vert					
Pipe			0.00			1/2" Ice	8.93	7.54	0.14
			0.00			1" Ice	9.46	8.43	0.22
(2) LGP21401 TMA	A	From Face	4.00		0.0000	No Ice	0.82	0.35	0.02
			0.00			1/2" Ice	0.94	0.44	0.02
			0.00			1" Ice	1.06	0.54	0.03
(2) LGP21401 TMA	B	From Face	4.00		0.0000	No Ice	0.82	0.35	0.02
			0.00			1/2" Ice	0.94	0.44	0.02
			0.00			1" Ice	1.06	0.54	0.03
(2) LGP21401 TMA	C	From Face	4.00		0.0000	No Ice	0.82	0.35	0.02
			0.00			1/2" Ice	0.94	0.44	0.02
			0.00			1" Ice	1.06	0.54	0.03
TT19-08BP111-001	A	From Face	4.00		0.0000	No Ice	0.55	0.45	0.02
			0.00			1/2" Ice	0.65	0.53	0.02
			0.00			1" Ice	0.75	0.63	0.03
TT19-08BP111-001	B	From Face	4.00		0.0000	No Ice	0.55	0.45	0.02
			0.00			1/2" Ice	0.65	0.53	0.02
			0.00			1" Ice	0.75	0.63	0.03
TT19-08BP111-001	C	From Face	4.00		0.0000	No Ice	0.55	0.45	0.02
			0.00			1/2" Ice	0.65	0.53	0.02
			0.00			1" Ice	0.75	0.63	0.03
RRUS-11	A	From Face	4.00		0.0000	No Ice	2.52	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.00			1" Ice	2.92	1.36	0.10
RRUS-11	B	From Face	4.00		0.0000	No Ice	2.52	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.00			1" Ice	2.92	1.36	0.10
RRUS-11	C	From Face	4.00		0.0000	No Ice	2.52	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.00			1" Ice	2.92	1.36	0.10
RRUS 4478 B5	A	From Face	4.00		0.0000	No Ice	1.84	1.06	0.06
			0.00			1/2" Ice	2.01	1.20	0.08
			0.00			1" Ice	2.19	1.34	0.09
RRUS 4478 B5	B	From Face	4.00		0.0000	No Ice	1.84	1.06	0.06
			0.00			1/2" Ice	2.01	1.20	0.08
			0.00			1" Ice	2.19	1.34	0.09
RRUS 4478 B5	C	From Face	4.00		0.0000	No Ice	1.84	1.06	0.06
			0.00			1/2" Ice	2.01	1.20	0.08
			0.00			1" Ice	2.19	1.34	0.09
RRUS 4415 B25	A	From Face	4.00		0.0000	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
RRUS 4415 B25	B	From Face	4.00		0.0000	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
RRUS 4415 B25	C	From Face	4.00		0.0000	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
DC6-48-60-18-8F	A	From Face	0.50		0.0000	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
DC6-48-60-18-8F	B	From Face	0.50		0.0000	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
(3) 12' Sector Mounts [Sabre C10857001C]	C	None			0.0000	No Ice	15.85	15.85	1.50
						1/2" Ice	20.80	20.80	1.95
						1" Ice	25.75	25.75	2.40

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	Project	PR-005254	Date	12:03:28 02/11/21
	Client	SBA Network Services, Inc.	Designed by	Chaitanya Shetti

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
RC2DC-3315-PF-48	A	From Leg	4.00	0.0000	96.50	No Ice	2.52	1.77	0.04
			0.00			1/2" Ice	2.73	1.95	0.06
			3.00			1" Ice	2.95	2.14	0.09
RC2DC-3315-PF-48	B	From Leg	4.00	0.0000	96.50	No Ice	2.52	1.77	0.04
			0.00			1/2" Ice	2.73	1.95	0.06
			3.00			1" Ice	2.95	2.14	0.09
B66A RRH4X45	A	From Leg	4.00	0.0000	96.50	No Ice	2.58	1.63	0.06
			0.00			1/2" Ice	2.79	1.81	0.08
			3.00			1" Ice	3.01	2.00	0.10
B66A RRH4X45	B	From Leg	4.00	0.0000	96.50	No Ice	2.58	1.63	0.06
			0.00			1/2" Ice	2.79	1.81	0.08
			3.00			1" Ice	3.01	2.00	0.10
B66A RRH4X45	C	From Leg	4.00	0.0000	96.50	No Ice	2.58	1.63	0.06
			0.00			1/2" Ice	2.79	1.81	0.08
			3.00			1" Ice	3.01	2.00	0.10
(2) SBNHH-1D85B w/Mount Pipe	A	From Leg	4.00	0.0000	96.50	No Ice	8.47	7.44	0.08
			0.00			1/2" Ice	9.00	8.47	0.16
			2.50			1" Ice	9.53	9.37	0.24
(2) SBNHH-1D85B w/Mount Pipe	B	From Leg	4.00	0.0000	96.50	No Ice	8.47	7.44	0.08
			0.00			1/2" Ice	9.00	8.47	0.16
			2.50			1" Ice	9.53	9.37	0.24
(2) SBNHH-1D85B w/Mount Pipe	C	From Leg	4.00	0.0000	96.50	No Ice	8.47	7.44	0.08
			0.00			1/2" Ice	9.00	8.47	0.16
			2.50			1" Ice	9.53	9.37	0.24
(2) FDR6004/6	A	From Leg	4.00	0.0000	96.50	No Ice	0.25	0.08	0.00
			0.00			1/2" Ice	0.31	0.12	0.00
			1.00			1" Ice	0.39	0.17	0.01
(2) FDR6004/6	B	From Leg	4.00	0.0000	96.50	No Ice	0.25	0.08	0.00
			0.00			1/2" Ice	0.31	0.12	0.00
			1.00			1" Ice	0.39	0.17	0.01
(2) FDR6004/6	C	From Leg	4.00	0.0000	96.50	No Ice	0.25	0.08	0.00
			0.00			1/2" Ice	0.31	0.12	0.00
			1.00			1" Ice	0.39	0.17	0.01
80090-8	A	From Leg	4.00	0.0000	96.50	No Ice	8.14	6.61	0.23
			0.00			1/2" Ice	8.72	7.19	0.28
			1.00			1" Ice	9.31	7.77	0.33
80090-8	B	From Leg	4.00	0.0000	96.50	No Ice	8.14	6.61	0.23
			0.00			1/2" Ice	8.72	7.19	0.28
			1.00			1" Ice	9.31	7.77	0.33
80090-8	C	From Leg	4.00	0.0000	96.50	No Ice	8.14	6.61	0.23
			0.00			1/2" Ice	8.72	7.19	0.28
			1.00			1" Ice	9.31	7.77	0.33
B13 RRH 4x30-4R	A	From Leg	4.00	0.0000	96.50	No Ice	2.13	1.59	0.06
			0.00			1/2" Ice	2.32	1.76	0.08
			0.00			1" Ice	2.52	1.94	0.10
B13 RRH 4x30-4R	B	From Leg	4.00	0.0000	96.50	No Ice	2.13	1.59	0.06
			0.00			1/2" Ice	2.32	1.76	0.08
			0.00			1" Ice	2.52	1.94	0.10
B13 RRH 4x30-4R	C	From Leg	4.00	0.0000	96.50	No Ice	2.13	1.59	0.06
			0.00			1/2" Ice	2.32	1.76	0.08
			0.00			1" Ice	2.52	1.94	0.10
(4) Mount Pipe	A	From Leg	0.00	0.0000	96.50	No Ice	1.20	1.20	0.02
			0.00			1/2" Ice	1.50	1.50	0.03
			0.00			1" Ice	1.81	1.81	0.04
(4) Mount Pipe	B	From Leg	0.00	0.0000	96.50	No Ice	1.20	1.20	0.02
			0.00			1/2" Ice	1.50	1.50	0.03
			0.00			1" Ice	1.81	1.81	0.04

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job	CT98078-L, Wilton, CT/Optasite	Page	14 of 33
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Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight	
			Horz	Lateral	Vert						°
(4) Mount Pipe	C	From Leg	0.00			0.0000	96.50	No Ice	1.20	1.20	0.02
			0.00					1/2" Ice	1.50	1.50	0.03
			0.00					1" Ice	1.81	1.81	0.04
(3) 10' x 2' T-Arms	C	None				0.0000	96.50	No Ice	17.87	17.87	0.80
								1/2" Ice	25.31	25.31	1.16
								1" Ice	32.75	32.75	1.52

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

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

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:			Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz	Lateral	Vert							°
PR-850	A	Grid	From Leg	0.50			0.0000		57.00	5.67	No Ice	25.22	0.04
				0.00							1/2" Ice	25.97	0.17
				0.00							1" Ice	26.71	0.30
**													
PR-850	B	Grid	From Leg	0.50			10.0000		55.00	5.67	No Ice	25.22	0.04
				0.00							1/2" Ice	25.97	0.17
				2.00							1" Ice	26.71	0.30
PR-850	B	Grid	From Leg	0.50			25.0000		55.00	5.67	No Ice	25.22	0.04
				0.00							1/2" Ice	25.97	0.17
				-4.00							1" Ice	26.71	0.30
**													

Tower Pressures - No Ice

$$G_H = 0.850$$

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Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T1 120.00-100.00	110.00	1.016	19	112.917	A	10.432	5.833	5.833	35.86	51.125	0.000
					B	10.432	5.833		35.86	26.499	0.000
					C	10.432	5.833		35.86	3.760	0.000
T2 100.00-80.00	90.00	0.959	18	114.167	A	9.535	8.333	8.333	46.64	80.073	0.000
					B	9.535	8.333		46.64	42.142	0.000
					C	9.535	8.333		46.64	57.090	0.000
T3 80.00-60.00	70.00	0.892	17	129.587	A	11.091	9.175	9.175	45.27	80.073	0.000
					B	11.091	9.175		45.27	67.923	0.000
					C	11.091	9.175		45.27	70.733	0.000
T4 60.00-40.00	50.00	0.811	15	160.004	A	11.905	10.009	10.009	45.68	80.073	0.000
					B	11.905	10.009		45.68	69.810	0.000
					C	11.905	10.009		45.68	74.063	0.000
T5 40.00-20.00	30.00	0.701	13	190.420	A	16.215	10.843	10.843	40.07	80.073	0.000
					B	16.215	10.843		40.07	70.143	0.000
					C	16.215	10.843		40.07	75.173	0.000
T6 20.00-0.00	10.00	0.7	13	220.837	A	17.769	11.678	11.678	39.66	78.657	0.000
					B	17.769	11.678		39.66	49.692	0.000
					C	17.769	11.678		39.66	43.038	0.000

Tower Pressure - With Ice

$G_H = 0.850$

Section Elevation ft	z ft	K _Z	q _z psf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T1 120.00-100.00	110.00	1.016	6	1.6919	118.556	A	10.432	34.763	17.113	37.86	70.093	0.000
						B	10.432	34.763		37.86	54.888	0.000
						C	10.432	34.763		37.86	13.378	0.000
T2 100.00-80.00	90.00	0.959	5	1.6583	119.694	A	9.535	35.201	19.389	43.34	109.330	0.000
						B	9.535	35.201		43.34	78.016	0.000
						C	9.535	35.201		43.34	76.623	0.000
T3 80.00-60.00	70.00	0.892	5	1.6171	134.981	A	11.091	37.903	19.966	40.75	108.320	0.000
						B	11.091	37.903		40.75	107.930	0.000
						C	11.091	37.903		40.75	98.897	0.000
T4 60.00-40.00	50.00	0.811	4	1.5636	165.219	A	11.905	39.058	20.443	40.11	107.009	0.000
						B	11.905	39.058		40.11	113.581	0.000
						C	11.905	39.058		40.11	110.879	0.000
T5 40.00-20.00	30.00	0.701	4	1.4858	195.377	A	16.215	38.299	20.758	38.08	105.102	0.000
						B	16.215	38.299		38.08	112.282	0.000
						C	16.215	38.299		38.08	112.581	0.000
T6 20.00-0.00	10.00	0.7	4	1.3312	225.278	A	17.769	37.875	20.561	36.95	97.640	0.000
						B	17.769	37.875		36.95	75.350	0.000
						C	17.769	37.875		36.95	66.991	0.000

Tower Pressure - Service

$G_H = 0.850$

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Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F _{a c e}	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T1 120.00-100.00	110.00	1.016	8	112.917	A B C	10.432 10.432 10.432	5.833 5.833 5.833	5.833	35.86 35.86 35.86	51.125 26.499 3.760	0.000 0.000 0.000
T2 100.00-80.00	90.00	0.959	8	114.167	A B C	9.535 9.535 9.535	8.333 8.333 8.333	8.333	46.64 46.64 46.64	80.073 42.142 57.090	0.000 0.000 0.000
T3 80.00-60.00	70.00	0.892	7	129.587	A B C	11.091 11.091 11.091	9.175 9.175 9.175	9.175	45.27 45.27 45.27	80.073 67.923 70.733	0.000 0.000 0.000
T4 60.00-40.00	50.00	0.811	6	160.004	A B C	11.905 11.905 11.905	10.009 10.009 10.009	10.009	45.68 45.68 45.68	80.073 69.810 74.063	0.000 0.000 0.000
T5 40.00-20.00	30.00	0.701	5	190.420	A B C	16.215 16.215 16.215	10.843 10.843 10.843	10.843	40.07 40.07 40.07	80.073 70.143 75.173	0.000 0.000 0.000
T6 20.00-0.00	10.00	0.7	5	220.837	A B C	17.769 17.769 17.769	11.678 11.678 11.678	11.678	39.66 39.66 39.66	78.657 49.692 43.038	0.000 0.000 0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	F _{a c e}	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A B C	0.144 0.144 0.144	2.794 2.794 2.794	19	1 1 1	1 1 1	13.739 13.739 13.739	1.14	57.12	B
T2 100.00-80.00	1.08	1.44	A B C	0.157 0.157 0.157	2.748 2.748 2.748	18	1 1 1	1 1 1	14.271 14.271 14.271	1.57	78.63	A
T3 80.00-60.00	1.28	1.71	A B C	0.156 0.156 0.156	2.748 2.748 2.748	17	1 1 1	1 1 1	16.305 16.305 16.305	1.73	86.42	B
T4 60.00-40.00	1.30	1.98	A B C	0.137 0.137 0.137	2.82 2.82 2.82	15	1 1 1	1 1 1	17.573 17.573 17.573	1.67	83.61	B
T5 40.00-20.00	1.31	2.59	A B C	0.142 0.142 0.142	2.801 2.801 2.801	13	1 1 1	1 1 1	22.361 22.361 22.361	1.60	80.06	B
T6 20.00-0.00	0.99	2.94	A B C	0.133 0.133 0.133	2.834 2.834 2.834	13	1 1 1	1 1 1	24.379 24.379 24.379	1.47	73.55	A
Sum Weight:	6.42	11.60						OTM	534.55 kip-ft	9.19		

Tower Forces - No Ice - Wind 60 To Face

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job	CT98078-L, Wilton, CT/Optasite	Page	17 of 33
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Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	19	0.8	1	11.653	1.05	52.39	C
			B	0.144	2.794		0.8	1	11.653			
			C	0.144	2.794		0.8	1	11.653			
T2 100.00-80.00	1.08	1.44	A	0.157	2.748	18	0.8	1	12.364	1.49	74.61	B
			B	0.157	2.748		0.8	1	12.364			
			C	0.157	2.748		0.8	1	12.364			
T3 80.00-60.00	1.28	1.71	A	0.156	2.748	17	0.8	1	14.087	1.64	82.07	C
			B	0.156	2.748		0.8	1	14.087			
			C	0.156	2.748		0.8	1	14.087			
T4 60.00-40.00	1.30	1.98	A	0.137	2.82	15	0.8	1	15.192	1.59	79.25	C
			B	0.137	2.82		0.8	1	15.192			
			C	0.137	2.82		0.8	1	15.192			
T5 40.00-20.00	1.31	2.59	A	0.142	2.801	13	0.8	1	19.118	1.50	74.97	C
			B	0.142	2.801		0.8	1	19.118			
			C	0.142	2.801		0.8	1	19.118			
T6 20.00-0.00	0.99	2.94	A	0.133	2.834	13	0.8	1	20.825	1.36	67.91	B
			B	0.133	2.834		0.8	1	20.825			
			C	0.133	2.834		0.8	1	20.825			
Sum Weight:	6.42	11.60						OTM	502.27 kip-ft	8.62		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	19	0.85	1	12.174	1.06	53.22	C
			B	0.144	2.794		0.85	1	12.174			
			C	0.144	2.794		0.85	1	12.174			
T2 100.00-80.00	1.08	1.44	A	0.157	2.748	18	0.85	1	12.840	1.52	76.10	C
			B	0.157	2.748		0.85	1	12.840			
			C	0.157	2.748		0.85	1	12.840			
T3 80.00-60.00	1.28	1.71	A	0.156	2.748	17	0.85	1	14.641	1.68	84.09	C
			B	0.156	2.748		0.85	1	14.641			
			C	0.156	2.748		0.85	1	14.641			
T4 60.00-40.00	1.30	1.98	A	0.137	2.82	15	0.85	1	15.788	1.62	81.19	C
			B	0.137	2.82		0.85	1	15.788			
			C	0.137	2.82		0.85	1	15.788			
T5 40.00-20.00	1.31	2.59	A	0.142	2.801	13	0.85	1	19.929	1.54	76.98	C
			B	0.142	2.801		0.85	1	19.929			
			C	0.142	2.801		0.85	1	19.929			
T6 20.00-0.00	0.99	2.94	A	0.133	2.834	13	0.85	1	21.714	1.40	69.76	C
			B	0.133	2.834		0.85	1	21.714			
			C	0.133	2.834		0.85	1	21.714			
Sum Weight:	6.42	11.60						OTM	513.12 kip-ft	8.83		

Tower Forces - With Ice - Wind Normal To Face

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	2.11	3.18	A	0.381	2.102	6	1	1	32.274	0.62	30.76	B
			B	0.381	2.102		1	1	32.274			
			C	0.381	2.102		1	1	32.274			
T2 100.00-80.00	4.41	3.56	A	0.374	2.118	5	1	1	31.546	0.83	41.34	A
			B	0.374	2.118		1	1	31.546			
			C	0.374	2.118		1	1	31.546			
T3 80.00-60.00	5.24	4.04	A	0.363	2.142	5	1	1	34.629	0.89	44.65	B
			B	0.363	2.142		1	1	34.629			
			C	0.363	2.142		1	1	34.629			
T4 60.00-40.00	5.36	4.36	A	0.308	2.274	4	1	1	35.402	0.87	43.31	B
			B	0.308	2.274		1	1	35.402			
			C	0.308	2.274		1	1	35.402			
T5 40.00-20.00	5.21	5.24	A	0.279	2.353	4	1	1	38.915	0.78	39.12	B
			B	0.279	2.353		1	1	38.915			
			C	0.279	2.353		1	1	38.915			
T6 20.00-0.00	3.59	5.44	A	0.247	2.447	4	1	1	39.898	0.67	33.26	A
			B	0.247	2.447		1	1	39.898			
			C	0.247	2.447		1	1	39.898			
Sum Weight:	25.92	25.83						OTM	278.03 kip-ft	4.65		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	2.11	3.18	A	0.381	2.102	6	0.8	1	30.187	0.59	29.73	C
			B	0.381	2.102		0.8	1	30.187			
			C	0.381	2.102		0.8	1	30.187			
T2 100.00-80.00	4.41	3.56	A	0.374	2.118	5	0.8	1	29.639	0.81	40.44	B
			B	0.374	2.118		0.8	1	29.639			
			C	0.374	2.118		0.8	1	29.639			
T3 80.00-60.00	5.24	4.04	A	0.363	2.142	5	0.8	1	32.411	0.87	43.67	C
			B	0.363	2.142		0.8	1	32.411			
			C	0.363	2.142		0.8	1	32.411			
T4 60.00-40.00	5.36	4.36	A	0.308	2.274	4	0.8	1	33.021	0.85	42.30	C
			B	0.308	2.274		0.8	1	33.021			
			C	0.308	2.274		0.8	1	33.021			
T5 40.00-20.00	5.21	5.24	A	0.279	2.353	4	0.8	1	35.671	0.76	37.88	C
			B	0.279	2.353		0.8	1	35.671			
			C	0.279	2.353		0.8	1	35.671			
T6 20.00-0.00	3.59	5.44	A	0.247	2.447	4	0.8	1	36.344	0.64	31.86	B
			B	0.247	2.447		0.8	1	36.344			
			C	0.247	2.447		0.8	1	36.344			
Sum Weight:	25.92	25.83						OTM	270.74 kip-ft	4.52		

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Tower Forces - With Ice - Wind 90 To Face

Section Elevation <i>ft</i>	Add Weight <i>K</i>	Self Weight <i>K</i>	<i>F a c e</i>	<i>e</i>	<i>C_F</i>	<i>q_z</i> <i>psf</i>	<i>D_F</i>	<i>D_R</i>	<i>A_E</i> <i>ft²</i>	<i>F</i> <i>K</i>	<i>w</i> <i>plf</i>	<i>Ctrl. Face</i>
T1 120.00-100.00	2.11	3.18	A	0.381	2.102	6	0.85	1	30.709	0.60	29.75	C
			B	0.381	2.102		0.85	1	30.709			
			C	0.381	2.102		0.85	1	30.709			
T2 100.00-80.00	4.41	3.56	A	0.374	2.118	5	0.85	1	30.116	0.82	40.95	C
			B	0.374	2.118		0.85	1	30.116			
			C	0.374	2.118		0.85	1	30.116			
T3 80.00-60.00	5.24	4.04	A	0.363	2.142	5	0.85	1	32.966	0.88	44.08	C
			B	0.363	2.142		0.85	1	32.966			
			C	0.363	2.142		0.85	1	32.966			
T4 60.00-40.00	5.36	4.36	A	0.308	2.274	4	0.85	1	33.616	0.86	42.79	C
			B	0.308	2.274		0.85	1	33.616			
			C	0.308	2.274		0.85	1	33.616			
T5 40.00-20.00	5.21	5.24	A	0.279	2.353	4	0.85	1	36.482	0.77	38.42	C
			B	0.279	2.353		0.85	1	36.482			
			C	0.279	2.353		0.85	1	36.482			
T6 20.00-0.00	3.59	5.44	A	0.247	2.447	4	0.85	1	37.233	0.65	32.44	C
			B	0.247	2.447		0.85	1	37.233			
			C	0.247	2.447		0.85	1	37.233			
Sum Weight:	25.92	25.83						OTM	273.21 kip-ft	4.57		

Tower Forces - Service - Wind Normal To Face

Section Elevation <i>ft</i>	Add Weight <i>K</i>	Self Weight <i>K</i>	<i>F a c e</i>	<i>e</i>	<i>C_F</i>	<i>q_z</i> <i>psf</i>	<i>D_F</i>	<i>D_R</i>	<i>A_E</i> <i>ft²</i>	<i>F</i> <i>K</i>	<i>w</i> <i>plf</i>	<i>Ctrl. Face</i>
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	8	1	1	13.739	0.48	23.78	B
			B	0.144	2.794		1	1	13.739			
			C	0.144	2.794		1	1	13.739			
T2 100.00-80.00	1.08	1.44	A	0.157	2.748	8	1	1	14.271	0.65	32.73	A
			B	0.157	2.748		1	1	14.271			
			C	0.157	2.748		1	1	14.271			
T3 80.00-60.00	1.28	1.71	A	0.156	2.748	7	1	1	16.305	0.72	35.97	B
			B	0.156	2.748		1	1	16.305			
			C	0.156	2.748		1	1	16.305			
T4 60.00-40.00	1.30	1.98	A	0.137	2.82	6	1	1	17.573	0.70	34.80	B
			B	0.137	2.82		1	1	17.573			
			C	0.137	2.82		1	1	17.573			
T5 40.00-20.00	1.31	2.59	A	0.142	2.801	5	1	1	22.361	0.67	33.33	B
			B	0.142	2.801		1	1	22.361			
			C	0.142	2.801		1	1	22.361			
T6 20.00-0.00	0.99	2.94	A	0.133	2.834	5	1	1	24.379	0.61	30.62	A
			B	0.133	2.834		1	1	24.379			
			C	0.133	2.834		1	1	24.379			
Sum Weight:	6.42	11.60						OTM	222.50 kip-ft	3.82		

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Tower Forces - Service - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	8	0.8	1	11.653	0.44	21.81	C
			B	0.144	2.794		0.8	1	11.653			
			C	0.144	2.794		0.8	1	11.653			
T2 100.00-80.00	1.08	1.44	A	0.157	2.748	8	0.8	1	12.364	0.62	31.06	B
			B	0.157	2.748		0.8	1	12.364			
			C	0.157	2.748		0.8	1	12.364			
T3 80.00-60.00	1.28	1.71	A	0.156	2.748	7	0.8	1	14.087	0.68	34.16	C
			B	0.156	2.748		0.8	1	14.087			
			C	0.156	2.748		0.8	1	14.087			
T4 60.00-40.00	1.30	1.98	A	0.137	2.82	6	0.8	1	15.192	0.66	32.99	C
			B	0.137	2.82		0.8	1	15.192			
			C	0.137	2.82		0.8	1	15.192			
T5 40.00-20.00	1.31	2.59	A	0.142	2.801	5	0.8	1	19.118	0.62	31.21	C
			B	0.142	2.801		0.8	1	19.118			
			C	0.142	2.801		0.8	1	19.118			
T6 20.00-0.00	0.99	2.94	A	0.133	2.834	5	0.8	1	20.825	0.57	28.27	B
			B	0.133	2.834		0.8	1	20.825			
			C	0.133	2.834		0.8	1	20.825			
Sum Weight:	6.42	11.60						OTM	209.06 kip-ft	3.59		

Tower Forces - Service - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	8	0.85	1	12.174	0.44	22.15	C
			B	0.144	2.794		0.85	1	12.174			
			C	0.144	2.794		0.85	1	12.174			
T2 100.00-80.00	1.08	1.44	A	0.157	2.748	8	0.85	1	12.840	0.63	31.68	C
			B	0.157	2.748		0.85	1	12.840			
			C	0.157	2.748		0.85	1	12.840			
T3 80.00-60.00	1.28	1.71	A	0.156	2.748	7	0.85	1	14.641	0.70	35.00	C
			B	0.156	2.748		0.85	1	14.641			
			C	0.156	2.748		0.85	1	14.641			
T4 60.00-40.00	1.30	1.98	A	0.137	2.82	6	0.85	1	15.788	0.68	33.80	C
			B	0.137	2.82		0.85	1	15.788			
			C	0.137	2.82		0.85	1	15.788			
T5 40.00-20.00	1.31	2.59	A	0.142	2.801	5	0.85	1	19.929	0.64	32.04	C
			B	0.142	2.801		0.85	1	19.929			
			C	0.142	2.801		0.85	1	19.929			
T6 20.00-0.00	0.99	2.94	A	0.133	2.834	5	0.85	1	21.714	0.58	29.04	C
			B	0.133	2.834		0.85	1	21.714			
			C	0.133	2.834		0.85	1	21.714			
Sum Weight:	6.42	11.60						OTM	213.58 kip-ft	3.67		

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Force Totals

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Leg Weight	7.81					
Bracing Weight	3.78					
Total Member Self-Weight	11.60			3.37	-10.47	
Total Weight	28.89			3.37	-10.47	
Wind 0 deg - No Ice		-0.05	-14.82	-1132.76	-7.58	8.65
Wind 30 deg - No Ice		7.17	-12.49	-961.56	-564.91	8.16
Wind 60 deg - No Ice		12.52	-7.21	-553.57	-976.69	6.86
Wind 90 deg - No Ice		14.74	0.04	5.92	-1141.51	3.77
Wind 120 deg - No Ice		13.13	7.64	583.73	-1009.99	-1.95
Wind 150 deg - No Ice		7.29	12.61	972.90	-570.60	-7.10
Wind 180 deg - No Ice		0.06	14.23	1105.67	-13.85	-8.59
Wind 210 deg - No Ice		-7.15	12.52	969.98	543.24	-8.20
Wind 240 deg - No Ice		-12.97	7.51	577.53	981.73	-6.91
Wind 270 deg - No Ice		-14.74	-0.07	-0.49	1120.90	-3.83
Wind 300 deg - No Ice		-12.63	-7.34	-559.82	960.37	1.84
Wind 330 deg - No Ice		-7.25	-12.60	-965.55	547.57	7.06
Member Ice	14.23					
Total Weight Ice	81.62			11.96	-40.44	
Wind 0 deg - Ice		-0.23	-7.45	-554.61	-28.02	4.22
Wind 30 deg - Ice		3.46	-6.40	-476.35	-309.57	4.55
Wind 60 deg - Ice		6.28	-3.59	-264.32	-522.33	3.74
Wind 90 deg - Ice		7.31	0.01	12.80	-599.48	2.32
Wind 120 deg - Ice		6.40	3.87	303.44	-528.38	-0.32
Wind 150 deg - Ice		3.60	6.41	500.08	-316.81	-3.06
Wind 180 deg - Ice		0.01	7.27	568.75	-41.16	-4.53
Wind 210 deg - Ice		-3.51	6.38	499.37	231.38	-4.76
Wind 240 deg - Ice		-6.46	3.71	295.07	451.38	-3.79
Wind 270 deg - Ice		-7.41	-0.24	-1.16	524.01	-1.37
Wind 300 deg - Ice		-6.36	-3.82	-276.15	445.10	1.18
Wind 330 deg - Ice		-3.77	-6.38	-474.52	245.13	3.23
Total Weight	28.89			3.37	-10.47	
Wind 0 deg - Service		-0.02	-6.17	-473.10	0.63	3.60
Wind 30 deg - Service		2.98	-5.20	-401.84	-231.35	3.40
Wind 60 deg - Service		5.21	-3.00	-232.02	-402.74	2.86
Wind 90 deg - Service		6.13	0.02	0.85	-471.35	1.57
Wind 120 deg - Service		5.47	3.18	241.36	-416.60	-0.81
Wind 150 deg - Service		3.03	5.25	403.34	-233.72	-2.96
Wind 180 deg - Service		0.02	5.92	458.61	-1.98	-3.58
Wind 210 deg - Service		-2.98	5.21	402.13	229.90	-3.41
Wind 240 deg - Service		-5.40	3.13	238.78	412.42	-2.88
Wind 270 deg - Service		-6.14	-0.03	-1.82	470.34	-1.59
Wind 300 deg - Service		-5.26	-3.05	-234.62	403.52	0.77
Wind 330 deg - Service		-3.02	-5.24	-403.51	231.70	2.94

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice

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Comb. No.	Description
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	120 - 100	Leg	Max Tension	7	15.10	-0.10	0.03
			Max. Compression	10	-21.65	-0.10	-0.06
			Max. Mx	8	-3.09	0.78	0.03
			Max. My	2	-1.06	-0.02	-0.79
			Max. Vy	8	0.92	-0.06	-0.00

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T2	100 - 80	Diagonal	Max. Vx	2	-0.94	-0.00	0.06
			Max Tension	8	3.46	0.00	0.00
			Max. Compression	20	-3.52	0.00	0.00
			Max. Mx	31	0.84	0.03	-0.00
			Max. My	8	-3.25	-0.00	-0.01
			Max. Vy	31	-0.02	0.03	-0.00
			Max. Vx	8	0.00	-0.00	-0.01
			Max Tension	11	0.45	0.00	0.00
			Max. Compression	6	-0.49	0.00	0.00
			Max. Mx	26	-0.05	-0.04	0.00
		Top Girt	Max. My	4	-0.01	0.00	0.00
			Max. Vy	26	0.03	0.00	0.00
			Max. Vx	4	-0.00	0.00	0.00
			Max Tension	7	57.55	-0.31	0.13
			Max. Compression	10	-68.97	0.60	0.36
			Max. Mx	20	46.98	-0.66	-0.14
			Max. My	3	-65.88	-0.08	-0.70
			Max. Vy	8	0.67	-0.40	-0.00
			Max. Vx	2	-0.71	0.00	0.44
			Max Tension	24	6.40	0.00	0.00
T3	80 - 60	Diagonal	Max. Compression	24	-6.53	0.00	0.00
			Max. Mx	31	1.37	0.03	-0.00
			Max. My	4	-5.26	-0.01	-0.01
			Max. Vy	31	-0.02	0.03	-0.00
			Max. Vx	4	0.00	-0.01	-0.01
			Max Tension	7	92.41	-0.05	-0.01
			Max. Compression	10	-107.06	0.17	0.03
			Max. Mx	18	-79.70	1.31	0.18
			Max. My	16	-6.96	-0.03	0.75
			Max. Vy	19	-4.04	1.31	0.18
		Leg	Max. Vx	16	-2.40	-0.03	0.75
			Max Tension	24	4.51	0.00	0.00
			Max. Compression	24	-4.72	0.00	0.00
			Max. Mx	31	1.07	0.03	0.00
			Max. My	14	-4.07	-0.00	0.01
			Max. Vy	31	-0.03	0.03	0.00
			Max. Vx	14	-0.00	0.00	0.00
			Max Tension	11	0.15	0.00	0.00
			Max. Compression	6	-0.27	0.00	0.00
			Max. Mx	26	-0.10	-0.04	0.00
T4	60 - 40	Top Girt	Max. My	28	-0.10	0.00	0.00
			Max. Vy	26	0.03	0.00	0.00
			Max. Vx	28	-0.00	0.00	0.00
			Max Tension	7	120.86	-0.16	-0.00
			Max. Compression	10	-139.37	-0.05	0.01
			Max. Mx	31	-62.90	0.22	-0.00
			Max. My	5	-7.02	-0.00	-0.26
			Max. Vy	14	0.14	-0.21	0.06
			Max. Vx	2	0.19	-0.13	-0.23
			Max Tension	24	4.74	0.00	0.00
		Diagonal	Max. Compression	24	-4.83	0.00	0.00
			Max. Mx	31	0.80	0.04	0.00
			Max. My	2	-4.44	-0.01	-0.01
			Max. Vy	29	0.03	0.03	-0.00
			Max. Vx	34	-0.00	0.00	0.00
			Max Tension	7	142.98	0.41	-0.02
			Max. Compression	10	-165.28	-0.43	0.00
			Max. Mx	10	-165.04	0.79	0.00
			Max. My	4	-10.35	-0.10	-0.69
			Max. Vy	10	-0.30	0.79	0.00
T5	40 - 20	Leg	Max. Vx	4	-0.20	-0.10	-0.69

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T6	20 - 0	Diagonal	Max Tension	25	6.16	0.07	-0.02	
			Max. Compression	24	-6.46	0.00	0.00	
			Max. Mx	8	1.86	0.12	-0.02	
			Max. My	12	-6.41	-0.04	0.04	
			Max. Vy	31	-0.05	0.09	-0.02	
			Max. Vx	12	0.01	0.00	0.00	
		Secondary Horizontal	Max Tension	10	3.41	0.01	-0.01	
			Max. Compression	10	-3.41	0.00	0.00	
			Max. Mx	34	-0.04	0.03	0.00	
			Max. My	14	-0.30	0.01	0.01	
			Max. Vy	28	0.03	0.03	0.00	
			Max. Vx	14	-0.00	0.00	0.00	
		Leg	Max Tension	7	166.30	0.48	-0.02	
			Max. Compression	10	-192.88	0.00	0.00	
			Max. Mx	10	-179.40	0.91	-0.00	
			Max. My	4	-11.92	-0.11	-0.83	
			Max. Vy	10	0.33	0.91	-0.00	
			Max. Vx	4	0.23	-0.11	-0.83	
			Diagonal	Max Tension	25	6.01	0.07	-0.01
				Max. Compression	24	-6.22	0.00	0.00
				Max. Mx	30	1.23	0.11	0.00
				Max. My	12	-6.08	-0.02	0.03
				Max. Vy	29	0.05	0.11	-0.01
				Max. Vx	12	0.00	0.00	0.00
			Secondary Horizontal	Max Tension	10	3.76	0.01	-0.01
				Max. Compression	10	-3.76	0.00	0.00
		Max. Mx		34	-0.08	0.04	0.00	
		Max. My		14	-0.39	0.01	0.01	
Max. Vy	28	0.03		0.03	0.00			
Max. Vx	14	-0.00		0.00	0.00			

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	196.09	13.18	-6.97
	Max. H _x	18	196.09	13.18	-6.97
	Max. H _z	7	-172.08	-11.87	6.21
	Min. Vert	7	-172.08	-11.87	6.21
	Min. H _x	7	-172.08	-11.87	6.21
	Min. H _z	18	196.09	13.18	-6.97
Leg B	Max. Vert	10	199.82	-13.00	-7.69
	Max. H _x	23	-171.58	11.62	6.88
	Max. H _z	25	-146.61	9.38	6.95
	Min. Vert	23	-171.58	11.62	6.88
	Min. H _x	10	199.82	-13.00	-7.69
	Min. H _z	10	199.82	-13.00	-7.69
Leg A	Max. Vert	2	194.93	0.71	14.75
	Max. H _x	22	102.25	1.62	7.49
	Max. H _z	2	194.93	0.71	14.75
	Min. Vert	15	-169.63	-0.70	-13.18
	Min. H _x	11	-85.34	-1.57	-6.95
	Min. H _z	15	-169.63	-0.70	-13.18

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Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overtuning Moment, M _x	Overtuning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	28.89	0.00	0.00	3.38	-10.50	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	34.67	-0.08	-23.71	-1826.29	-8.07	13.91
0.9 Dead+1.6 Wind 0 deg - No Ice	26.00	-0.08	-23.71	-1823.91	-4.88	13.89
1.2 Dead+1.6 Wind 30 deg - No Ice	34.67	11.47	-19.99	-1550.51	-905.96	13.14
0.9 Dead+1.6 Wind 30 deg - No Ice	26.00	11.47	-19.99	-1548.63	-901.10	13.11
1.2 Dead+1.6 Wind 60 deg - No Ice	34.67	20.03	-11.54	-893.19	-1569.34	11.04
0.9 Dead+1.6 Wind 60 deg - No Ice	26.00	20.03	-11.54	-892.54	-1563.25	11.03
1.2 Dead+1.6 Wind 90 deg - No Ice	34.67	23.58	0.07	8.17	-1834.81	6.05
0.9 Dead+1.6 Wind 90 deg - No Ice	26.00	23.58	0.07	7.15	-1828.24	6.04
1.2 Dead+1.6 Wind 120 deg - No Ice	34.67	21.01	12.22	939.00	-1622.88	-3.14
0.9 Dead+1.6 Wind 120 deg - No Ice	26.00	21.01	12.22	936.25	-1616.71	-3.14
1.2 Dead+1.6 Wind 150 deg - No Ice	34.67	11.66	20.17	1566.04	-915.10	-11.42
0.9 Dead+1.6 Wind 150 deg - No Ice	26.00	11.66	20.17	1562.11	-910.23	-11.41
1.2 Dead+1.6 Wind 180 deg - No Ice	34.67	0.09	22.77	1780.03	-18.13	-13.82
0.9 Dead+1.6 Wind 180 deg - No Ice	26.00	0.09	22.77	1775.69	-14.94	-13.80
1.2 Dead+1.6 Wind 210 deg - No Ice	34.67	-11.45	20.04	1561.40	879.39	-13.20
0.9 Dead+1.6 Wind 210 deg - No Ice	26.00	-11.45	20.04	1557.46	880.91	-13.18
1.2 Dead+1.6 Wind 240 deg - No Ice	34.67	-20.75	12.02	929.08	1585.76	-11.12
0.9 Dead+1.6 Wind 240 deg - No Ice	26.00	-20.75	12.02	926.34	1585.98	-11.10
1.2 Dead+1.6 Wind 270 deg - No Ice	34.67	-23.59	-0.11	-2.12	1809.99	-6.15
0.9 Dead+1.6 Wind 270 deg - No Ice	26.00	-23.59	-0.11	-3.14	1809.80	-6.14
1.2 Dead+1.6 Wind 300 deg - No Ice	34.67	-20.21	-11.74	-903.25	1551.40	2.96
0.9 Dead+1.6 Wind 300 deg - No Ice	26.00	-20.21	-11.74	-902.59	1551.68	2.96
1.2 Dead+1.6 Wind 330 deg - No Ice	34.67	-11.60	-20.16	-1556.95	886.34	11.35
0.9 Dead+1.6 Wind 330 deg - No Ice	26.00	-11.60	-20.16	-1555.08	887.86	11.34
1.2 Dead+1.0 Ice+1.0 Temp	87.40	0.00	0.00	12.94	-43.48	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	87.40	-0.23	-7.45	-563.90	-30.99	4.30
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	87.40	3.46	-6.40	-484.23	-317.66	4.64
1.2 Dead+1.0 Wind 60 deg+1.0	87.40	6.28	-3.59	-268.38	-534.20	3.80

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 90 deg+1.0	87.40	7.31	0.01	13.78	-612.77	2.34
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	87.40	6.40	3.87	309.65	-540.34	-0.34
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	87.40	3.60	6.41	509.92	-324.95	-3.13
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	87.40	0.01	7.27	579.87	-44.26	-4.62
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	87.40	-3.51	6.38	509.22	233.28	-4.85
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	87.40	-6.46	3.71	301.22	457.20	-3.86
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	87.40	-7.41	-0.24	-0.31	531.15	-1.40
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	87.40	-6.36	-3.82	-280.34	450.81	1.20
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	87.40	-3.77	-6.38	-482.36	247.17	3.30
Dead+Wind 0 deg - Service	28.89	-0.02	-6.17	-472.18	-9.35	3.62
Dead+Wind 30 deg - Service	28.89	2.98	-5.20	-400.52	-242.65	3.41
Dead+Wind 60 deg - Service	28.89	5.21	-3.00	-229.73	-415.01	2.87
Dead+Wind 90 deg - Service	28.89	6.13	0.02	4.46	-483.98	1.57
Dead+Wind 120 deg - Service	28.89	5.47	3.18	246.31	-428.92	-0.82
Dead+Wind 150 deg - Service	28.89	3.03	5.25	409.23	-245.02	-2.97
Dead+Wind 180 deg - Service	28.89	0.02	5.92	464.83	-11.97	-3.59
Dead+Wind 210 deg - Service	28.89	-2.98	5.21	408.02	221.23	-3.43
Dead+Wind 240 deg - Service	28.89	-5.40	3.13	243.74	404.76	-2.89
Dead+Wind 270 deg - Service	28.89	-6.14	-0.03	1.79	463.02	-1.60
Dead+Wind 300 deg - Service	28.89	-5.26	-3.05	-232.35	395.83	0.77
Dead+Wind 330 deg - Service	28.89	-3.02	-5.24	-402.20	223.03	2.95

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-28.89	0.00	0.00	28.89	0.00	0.000%
2	-0.08	-34.67	-23.71	0.08	34.67	23.71	0.000%
3	-0.08	-26.00	-23.71	0.08	26.00	23.71	0.000%
4	11.47	-34.67	-19.99	-11.47	34.67	19.99	0.000%
5	11.47	-26.00	-19.99	-11.47	26.00	19.99	0.000%
6	20.03	-34.67	-11.54	-20.03	34.67	11.54	0.000%
7	20.03	-26.00	-11.54	-20.03	26.00	11.54	0.000%
8	23.58	-34.67	0.07	-23.58	34.67	-0.07	0.000%
9	23.58	-26.00	0.07	-23.58	26.00	-0.07	0.000%
10	21.01	-34.67	12.22	-21.01	34.67	-12.22	0.000%
11	21.01	-26.00	12.22	-21.01	26.00	-12.22	0.000%
12	11.66	-34.67	20.17	-11.66	34.67	-20.17	0.000%
13	11.66	-26.00	20.17	-11.66	26.00	-20.17	0.000%
14	0.09	-34.67	22.77	-0.09	34.67	-22.77	0.000%
15	0.09	-26.00	22.77	-0.09	26.00	-22.77	0.000%
16	-11.45	-34.67	20.04	11.45	34.67	-20.04	0.000%
17	-11.45	-26.00	20.04	11.45	26.00	-20.04	0.000%
18	-20.75	-34.67	12.02	20.75	34.67	-12.02	0.000%
19	-20.75	-26.00	12.02	20.75	26.00	-12.02	0.000%
20	-23.59	-34.67	-0.11	23.59	34.67	0.11	0.000%
21	-23.59	-26.00	-0.11	23.59	26.00	0.11	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
22	-20.21	-34.67	-11.74	20.21	34.67	11.74	0.000%
23	-20.21	-26.00	-11.74	20.21	26.00	11.74	0.000%
24	-11.60	-34.67	-20.16	11.60	34.67	20.16	0.000%
25	-11.60	-26.00	-20.16	11.60	26.00	20.16	0.000%
26	0.00	-87.40	0.00	-0.00	87.40	0.00	0.000%
27	-0.23	-87.40	-7.45	0.23	87.40	7.45	0.000%
28	3.46	-87.40	-6.40	-3.46	87.40	6.40	0.000%
29	6.28	-87.40	-3.59	-6.28	87.40	3.59	0.000%
30	7.31	-87.40	0.01	-7.31	87.40	-0.01	0.000%
31	6.40	-87.40	3.87	-6.40	87.40	-3.87	0.000%
32	3.60	-87.40	6.41	-3.60	87.40	-6.41	0.000%
33	0.01	-87.40	7.27	-0.01	87.40	-7.27	0.000%
34	-3.51	-87.40	6.38	3.51	87.40	-6.38	0.000%
35	-6.46	-87.40	3.71	6.46	87.40	-3.71	0.000%
36	-7.41	-87.40	-0.24	7.41	87.40	0.24	0.000%
37	-6.36	-87.40	-3.82	6.36	87.40	3.82	0.000%
38	-3.77	-87.40	-6.38	3.77	87.40	6.38	0.000%
39	-0.02	-28.89	-6.17	0.02	28.89	6.17	0.000%
40	2.98	-28.89	-5.20	-2.98	28.89	5.20	0.000%
41	5.21	-28.89	-3.00	-5.21	28.89	3.00	0.000%
42	6.13	-28.89	0.02	-6.13	28.89	-0.02	0.000%
43	5.47	-28.89	3.18	-5.47	28.89	-3.18	0.000%
44	3.03	-28.89	5.25	-3.03	28.89	-5.25	0.000%
45	0.02	-28.89	5.92	-0.02	28.89	-5.92	0.000%
46	-2.98	-28.89	5.21	2.98	28.89	-5.21	0.000%
47	-5.40	-28.89	3.13	5.40	28.89	-3.13	0.000%
48	-6.14	-28.89	-0.03	6.14	28.89	0.03	0.000%
49	-5.26	-28.89	-3.05	5.26	28.89	3.05	0.000%
50	-3.02	-28.89	-5.24	3.02	28.89	5.24	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.0000001	0.0000001
2	Yes	4	0.0000001	0.00000419
3	Yes	4	0.0000001	0.00000454
4	Yes	4	0.0000001	0.00000850
5	Yes	4	0.0000001	0.00000772
6	Yes	4	0.0000001	0.00001050
7	Yes	4	0.0000001	0.00000920
8	Yes	4	0.0000001	0.00000847
9	Yes	4	0.0000001	0.00000772
10	Yes	4	0.0000001	0.00000444
11	Yes	4	0.0000001	0.00000484
12	Yes	4	0.0000001	0.00000807
13	Yes	4	0.0000001	0.00000734
14	Yes	4	0.0000001	0.00001021
15	Yes	4	0.0000001	0.00000895
16	Yes	4	0.0000001	0.00000850
17	Yes	4	0.0000001	0.00000773
18	Yes	4	0.0000001	0.00000421
19	Yes	4	0.0000001	0.00000459
20	Yes	4	0.0000001	0.00000824
21	Yes	4	0.0000001	0.00000755
22	Yes	4	0.0000001	0.00001039

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23	Yes	4	0.00000001	0.00000917
24	Yes	4	0.00000001	0.00000780
25	Yes	4	0.00000001	0.00000713
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00001740
28	Yes	4	0.00000001	0.00001808
29	Yes	4	0.00000001	0.00001846
30	Yes	4	0.00000001	0.00001843
31	Yes	4	0.00000001	0.00001823
32	Yes	4	0.00000001	0.00001829
33	Yes	4	0.00000001	0.00001824
34	Yes	4	0.00000001	0.00001780
35	Yes	4	0.00000001	0.00001711
36	Yes	4	0.00000001	0.00001685
37	Yes	4	0.00000001	0.00001697
38	Yes	4	0.00000001	0.00001704
39	Yes	4	0.00000001	0.00000001
40	Yes	4	0.00000001	0.00000001
41	Yes	4	0.00000001	0.00000001
42	Yes	4	0.00000001	0.00000001
43	Yes	4	0.00000001	0.00000001
44	Yes	4	0.00000001	0.00000001
45	Yes	4	0.00000001	0.00000001
46	Yes	4	0.00000001	0.00000001
47	Yes	4	0.00000001	0.00000001
48	Yes	4	0.00000001	0.00000001
49	Yes	4	0.00000001	0.00000001
50	Yes	4	0.00000001	0.00000001

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	120 - 100	2.692	43	0.1863	0.0444
T2	100 - 80	1.926	43	0.1745	0.0435
T3	80 - 60	1.217	43	0.1442	0.0341
T4	60 - 40	0.669	43	0.1030	0.0214
T5	40 - 20	0.291	43	0.0646	0.0100
T6	20 - 0	0.077	43	0.0301	0.0044

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
122.00	3"x12" Omni	43	2.692	0.1863	0.0444	524170
120.00	Lightning Rod	43	2.692	0.1863	0.0444	524170
118.00	Air 6449 B41 w/ Pipe Mount	43	2.615	0.1855	0.0445	524170
110.00	OPA65R-BU6DA w/ Mount Pipe	43	2.307	0.1819	0.0447	262086
96.50	RC2DC-3315-PF-48	43	1.795	0.1706	0.0425	75146
86.00	60" x 12" x 5" w/ Mount Pipe	43	1.416	0.1551	0.0376	33084
57.00	PR-850	43	0.601	0.0969	0.0194	29013
55.00	1.9"Ø x 9.8' Pipe Mount	43	0.559	0.0929	0.0182	29029
51.00	PR-850	43	0.478	0.0851	0.0157	29036

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Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	120 - 100	10.164	10	0.7001	0.1711
T2	100 - 80	7.285	10	0.6568	0.1676
T3	80 - 60	4.609	10	0.5441	0.1312
T4	60 - 40	2.537	10	0.3891	0.0823
T5	40 - 20	1.103	10	0.2445	0.0386
T6	20 - 0	0.294	10	0.1141	0.0170

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
122.00	3"x12' Omni	10	10.164	0.7001	0.1711	151851
120.00	Lightning Rod	10	10.164	0.7001	0.1711	151851
118.00	Air 6449 B41 w/ Pipe Mount	10	9.874	0.6973	0.1715	151851
110.00	OPA65R-BU6DA w/ Mount Pipe	10	8.716	0.6842	0.1723	75926
96.50	RC2DC-3315-PF-48	10	6.791	0.6424	0.1635	20849
86.00	60" x 12" x 5" w/ Mount Pipe	10	5.364	0.5848	0.1447	8897
57.00	PR-850	10	2.282	0.3662	0.0749	7696
55.00	1.9"Ø x 9.8' Pipe Mount	10	2.120	0.3512	0.0700	7696
51.00	PR-850	10	1.814	0.3219	0.0606	7689

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	120	Leg	A325N	0.7500	4	3.78	29.82	0.127	1	Bolt Tension
		Diagonal	A325N	0.6250	1	3.46	7.88	0.440	1	Member Block Shear
T2	100	Top Girt	A325N	0.3750	1	0.49	4.47	0.110	1	Bolt Shear
		Leg	A325N	0.7500	4	14.39	29.82	0.482	1	Bolt Tension
T3	80	Diagonal	A325N	0.6250	1	6.40	7.88	0.812	1	Member Block Shear
		Leg	A325N	1.0000	4	23.10	53.01	0.436	1	Bolt Tension
T4	60	Diagonal	A325N	0.6250	1	4.51	8.63	0.522	1	Member Block Shear
		Top Girt	A325N	0.3750	1	0.27	4.47	0.061	1	Bolt Shear
T5	40	Leg	A325N	1.0000	4	30.22	53.01	0.570	1	Bolt Tension
		Diagonal	A325N	0.6250	1	4.74	8.63	0.549	1	Member Block Shear
T6	20	Leg	A325N	1.0000	6	23.81	53.01	0.449	1	Bolt Tension
		Diagonal	A325N	0.6250	1	6.46	12.43	0.520	1	Bolt Shear
T6	20	Diagonal	A325N	0.6250	1	6.22	12.43	0.500	1	Bolt Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
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Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	1 3/4	20.00	4.88	133.7 K=1.00	2.4053	-21.65	30.39	0.712 ¹
T2	100 - 80	2 1/2	20.00	5.00	96.0 K=1.00	4.9087	-68.97	112.60	0.613 ¹
T3	80 - 60	2 3/4	20.02	4.88	85.2 K=1.00	5.9396	-107.06	157.26	0.681 ¹
T4	60 - 40	3	20.02	5.00	80.1 K=1.00	7.0686	-139.38	199.04	0.700 ¹
T5	40 - 20	3 1/4	20.02	5.20	76.8 K=1.00	8.2958	-165.28	242.55	0.681 ¹
T6	20 - 0	3 1/2	20.02	5.17	70.9 K=1.00	9.6211	-192.88	299.63	0.644 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x3/16	7.35	3.43	108.4 K=1.04	0.7150	-3.52	12.48	0.282 ¹
T2	100 - 80	L2x2x3/16	7.43	3.43	108.3 K=1.04	0.7150	-6.53	12.49	0.523 ¹
T3	80 - 60	L2x2x3/16	8.38	4.00	121.7 K=1.00	0.7150	-4.23	10.62	0.398 ¹
T4	60 - 40	L2x2x3/16	9.70	4.65	141.5 K=1.00	0.7150	-4.78	8.06	0.593 ¹
T5	40 - 20	L3x3x1/4	13.88	6.87	139.3 K=1.00	1.4400	-6.32	16.78	0.377 ¹
T6	20 - 0	L3x3x1/4	14.96	7.39	149.8 K=1.00	1.4400	-6.22	14.50	0.429 ¹

¹ P_u / φP_n controls

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	Project	PR-005254	Date	12:03:28 02/11/21
	Client	SBA Network Services, Inc.	Designed by	Chaitanya Shetti

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	40 - 20	L2x2x1/8	9.61	4.67	136.0 K=0.96	0.4844	-3.41	5.92	0.576 ¹
T6	20 - 0	L2x2x1/8	11.11	5.41	153.0 K=0.94	0.4844	-3.76	4.67	0.804 ¹

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 K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x1/8	5.50	5.06	152.8 K=1.00	0.4844	-0.49	4.69	0.105 ¹
T3	80 - 60	L2x2x1/8	5.54	5.02	151.4 K=1.00	0.4844	-0.27	4.77	0.057 ¹

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	1 3/4	20.00	4.88	133.7	2.4053	15.10	108.24	0.140 ¹
T2	100 - 80	2 1/2	20.00	5.00	96.0	4.9087	57.55	220.89	0.261 ¹
T3	80 - 60	2 3/4	20.02	4.88	85.2	5.9396	92.41	267.28	0.346 ¹
T4	60 - 40	3	20.02	5.00	80.1	7.0686	120.86	318.09	0.380 ¹
T5	40 - 20	3 1/4	20.02	4.81	71.0	8.2958	142.98	373.31	0.383 ¹
T6	20 - 0	3 1/2	20.02	4.84	66.3	9.6211	166.30	432.95	0.384 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x3/16	7.35	3.43	69.6	0.4308	3.46	18.74	0.185 ¹

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job	CT98078-L, Wilton, CT/Optasite	Page	32 of 33
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	Client	SBA Network Services, Inc.	Designed by	Chaitanya Shetti

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T2	100 - 80	L2x2x3/16	7.43	3.43	69.5	0.4308	6.40	18.74	0.341 ¹
T3	80 - 60	L2x2x3/16	7.52	3.57	72.7	0.4308	4.51	18.74	0.241 ¹
T4	60 - 40	L2x2x3/16	9.70	4.65	93.6	0.4308	4.74	18.74	0.253 ¹
T5	40 - 20	L3x3x1/4	13.37	6.63	87.4	0.9394	6.16	40.86	0.151 ¹
T6	20 - 0	L3x3x1/4	14.41	7.12	93.8	0.9394	6.01	40.86	0.147 ¹

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	40 - 20	L2x2x1/8	9.61	4.67	179.0	0.4844	3.41	15.69	0.217 ¹
T6	20 - 0	L2x2x1/8	11.11	5.41	207.3	0.4844	3.76	15.69	0.239 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x1/8	5.50	5.06	102.6	0.3164	0.45	13.76	0.033 ¹
T3	80 - 60	L2x2x1/8	5.54	5.02	101.7	0.3164	0.15	13.76	0.011 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail
T1	120 - 100	Leg	1 3/4	2	-21.65	30.39	71.2	Pass
T2	100 - 80	Leg	2 1/2	32	-68.97	112.60	61.3	Pass
T3	80 - 60	Leg	2 3/4	59	-107.06	157.26	68.1	Pass
T4	60 - 40	Leg	3	89	-139.38	199.04	70.0	Pass
T5	40 - 20	Leg	3 1/4	116	-165.28	242.55	68.1	Pass
T6	20 - 0	Leg	3 1/2	137	-192.88	299.63	64.4	Pass
T1	120 - 100	Diagonal	L2x2x3/16	7	-3.52	12.48	28.2	Pass
							44.0 (b)	
T2	100 - 80	Diagonal	L2x2x3/16	37	-6.53	12.49	52.3	Pass
							81.2 (b)	
T3	80 - 60	Diagonal	L2x2x3/16	67	-4.23	10.62	39.8	Pass
							52.2 (b)	
T4	60 - 40	Diagonal	L2x2x3/16	94	-4.78	8.06	59.3	Pass
T5	40 - 20	Diagonal	L3x3x1/4	121	-6.32	16.78	37.7	Pass
							52.0 (b)	

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job CT98078-L, Wilton, CT/Optasite	Page 33 of 33
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	Client SBA Network Services, Inc.	Designed by Chaitanya Shetti

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T6	20 - 0	Diagonal	L3x3x1/4	142	-6.22	14.50	42.9	Pass
							50.0 (b)	
T5	40 - 20	Secondary Horizontal	L2x2x1/8	124	-3.41	5.92	57.6	Pass
T6	20 - 0	Secondary Horizontal	L2x2x1/8	146	-3.76	4.67	80.4	Pass
T1	120 - 100	Top Girt	L2x2x1/8	5	-0.49	4.69	10.5	Pass
							11.0 (b)	
T3	80 - 60	Top Girt	L2x2x1/8	62	-0.27	4.77	5.7	Pass
							6.1 (b)	
							Summary	
						Leg (T1)	71.2	Pass
						Diagonal (T2)	81.2	Pass
						Secondary Horizontal (T6)	80.4	Pass
						Top Girt (T1)	11.0	Pass
						Bolt Checks	81.2	Pass
						RATING =	81.2	Pass

Self Support Anchor Rod Capacity

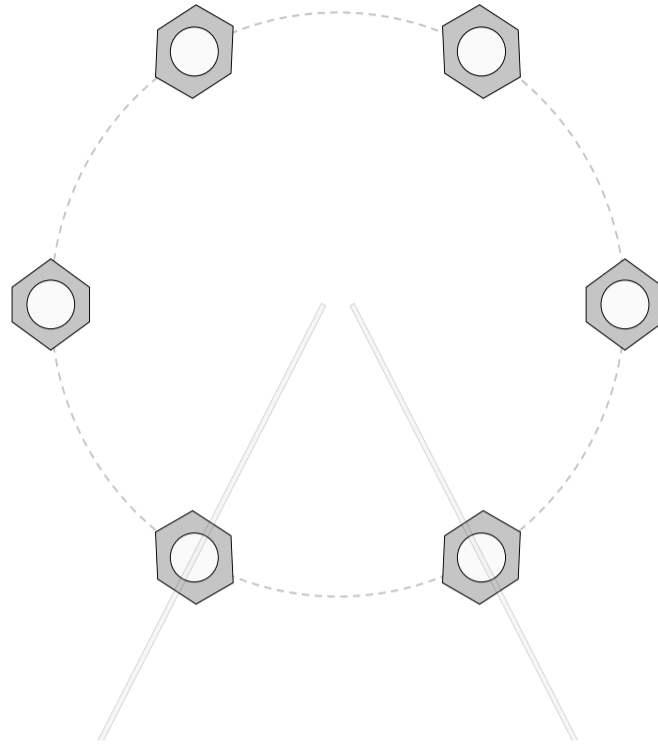
Site Info	
BU #	CT98078-L-01
Site Name	Wilton, CT/Optasite
Order #	141365

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

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	200.00	172.00
Shear Force (kips)	15.00	13.00

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

*Anchor Rod Eccentricity Applied



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary <i>(units of kips, kip-in)</i>	
(6) 1" ϕ bolts (A449 N; Fy=92 ksi, Fu=120 ksi)		$Pu_c = 33.33$	$\phi Pn_t = 58.18$
l_{ar} (in): 1		$Vu = 2.5$	$\phi Vn = n/a$
		$Mu = n/a$	$\phi Mn = n/a$
			Stress Rating
			65.9%
			Pass

Pier and Pad Foundation

Site ID : CT98078-L-01
 Site Name: Wilton, CT/ Optasit
 App. Number: 141365

TIA-222 Revision: G
 Tower Type: Self Support

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	200	kips
Compression Shear, V_{u_comp} :	15	kips
Uplift, P_{uplift} :	172	kips
Uplift Shear, V_{u_uplift} :	13	kips
Tower Height, H :	120	ft
Base Face Width, BW :	11.5	ft
BP Dist. Above Fdn, bp_{dist} :	2	in

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
<i>Uplift (kips)</i>	475.86	172.00	36.1%	Pass
<i>Lateral (Sliding) (kips)</i>	157.30	13.00	8.3%	Pass
<i>Bearing Pressure (ksf)</i>	9.77	1.86	19.0%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	852.47	105.00	12.3%	Pass
<i>Pier Flexure (Tension) (kip*ft)</i>	584.09	91.00	15.6%	Pass
<i>Pier Compression (kip)</i>	3374.26	208.91	6.2%	Pass
<i>Pad Flexure (kip*ft)</i>	2102.07	340.70	16.2%	Pass
<i>Pad Shear - 1-way (kips)</i>	361.68	68.04	18.8%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.054	32.6%	Pass

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

Soil Rating: 36.1%
 Structural Rating: 32.6%

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

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

Soil Properties		
Total Soil Unit Weight, γ :	120	pcf
Ultimate Net Bearing, Q_{net} :	12.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	8	
Base Friction, μ :	0.5	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

<--Toggle between Gross and Net

EXHIBIT 8

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

120' Self-Support Tower (120.0' AGL)

SBA Site Name: Wilton, CT / Optasite
SBA Site ID: CT98078-L-01
TMO Site Name: CT346/ OptasiteWiltonFT
TMO Site ID: CT11346C
Site Address: 160 Deer Run Rd., Wilton, CT 06897

FDH Infrastructure Services, LLC Project Number PR-005254

Analysis Results

Mount Components	40.7%	Sufficient
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Prepared By:



Deepak Reddy Devulapally, EIT
Project Engineer I

Reviewed By:



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

FDH Infrastructure Services, LLC
6521 Meridien Drive
Raleigh, NC 27616
(919) 755-1012
Structural@fdh-is.com



02-11-2021

February 10, 2021

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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Infrastructure Services, LLC performed a structural analysis of the proposed mount(s) and the proposed loading for T-Mobile at the 120' Self-Support Tower located in Wilton, CT to determine whether the structure is structurally adequate to support both the existing and proposed loads pursuant to *ANSI/TIA-222-H Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures*. Information pertaining to the existing/proposed antenna loading, mount geometry, and member sizes was obtained from:

Source	Document Type	Reference	Date
Site Pro 1	Manufacturer Drawings	Part No. VFA12-HD	December 13, 2017
FDH Infrastructure Services	Tower Mapping Report	Project No. 18TBQN1500	December 12, 2018
FDH Infrastructure Services	Previous Structural Analysis	Project No. PR-003788	May 22, 2020
T-Mobile	RFDS	Site ID. CT11346C	September 25, 2020
SBA Network Services, Inc.			

The *ultimate design wind speed* per the *ANSI/TIA-222-H Structural Standard for Antennas Supporting Structures and Antennas and Small Wind Turbine Support Structures* is 116 mph without ice and 50 mph with 1" radial ice. Furthermore, this structure was analyzed as a Class II structure in Exposure Category B using Topographical Factor of 1.

Conclusions

With the existing and proposed antennas from T-Mobile outlined in **Table 1**, we have determined the mount(s) stress level to be **Sufficient** pursuant to the requirements of the *ANSI/TIA-222-H* standard. For a more detailed description of the analysis of the mount(s), see the **Results** section of this report.

Our assessment has been made assuming all information provided to FDH Infrastructure Services, LLC is accurate and that the mount(s) have been properly erected and maintained.

Recommendation(s)

To ensure the requirements of the current analysis standards are met with the loading in place per **Table 1**, we have the following recommendation(s):

1. All existing and proposed TMAs and RRHs should be installed behind the existing and proposed panel antennas. This equipment was not shielded when considering wind loads in this analysis.
2. The proposed mount(s) (Site Pro1 P/N: VFA12-HD) must be installed and maintained per the manufacturer's specifications prior to the installation of the proposed loading.
3. We recommend that all bolts be checked for tightness prior to the installation of the proposed loading and that all rusted hardware be replaced with galvanized hardware.

APPURTENANCE LISTING

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

Table 1 - Appurtenance Loading

Existing Carrier Mount Loading:

Antenna Elevation (ft.)	Description	Feed Lines	Carrier	Mount Centerline Elevation (ft.)	Mount Type
118.0	(3) Andrew LNX-6515DS-A1M (3) Ericsson AIR21 B2A B4P (3) Ericsson AIR21 B2P B4A (3) TWIN STYLE 1B-AWS (3) Ericsson RRUS11 B12	(6) 1-5/8" (1) 1-1/4" Hybrid	T-Mobile	118.0	(3) 6.7'x 1' T-Arms

Proposed Carrier Final Mount Loading:

Antenna Elevation (ft.)	Description	Feed Lines	Carrier	Mount Centerline Elevation (ft.)	Mount Type
118.0	(3) Ericsson AIR6449 B41 (3) RFS APXVAALL24_43-U-NA20 (3) Ericsson AIR32 KRD901146-1_B66A_B2A (3) Ericsson KRY112 71 (3) Commscope SDX1926Q-43 (E14F05P86) (3) Ericsson Radio 4449 B71+B85 (3) Ericsson Radio 4415 B25	(7) 1-5/8" (6) Fiber	T-Mobile	118.0	(3) 12.5 ft. Sector Frames [Site Pro1 P/N: VFA12-HD]

RESULTS

The following member material grades were utilized in the analysis:

Table 2 - Member Material Grade

Member Type	Steel Grade*
Pipe	A53 Gr. B
Rectangular HSS	A500 Gr. B (F _y = 46 ksi)
Round HSS	A500 Gr. B (F _y = 42 ksi)
U-bolt	J429 Gr. 2
Bolt	A325
Threaded Rods	A36
All Other Members	A36

* Steel grade assumed unless otherwise noted.

The following load combinations were used to analyze the mount(s):

Table 3 – Load Combinations

Load Case	Factored Combination
Dead + Wind	1.2 D + 1.0 W ₀
Dead + Dead (Ice) + Wind (ice)	1.2 D + 1.0 D _i + 1.0 W _i
Dead	1.4 D
Dead + Live (maintenance)	1.2 D + 1.5 L _v
Dead + Live (Pipe maintenance) + Wind (maintenance)	1.2 D + 1.5 L _m + 1.0 W _m
Dead + Seismic (horizontal)	1.2 D + 1.0 E _h

Table 4 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. *Note: Capacities up to 105% are considered acceptable.* **Table 5** displays the maximum tilt and twist at maintenance wind speeds (30 mph) relative to tower deflections. Values in this table represent the expected displacements during operations coinciding with maintenance work performed by crew members.

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

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

Table 4 - Mount Component Stresses vs. Capacity

Component	Capacity (%)	Pass / Fail
Pipe Mount(s)	37.9	Pass
Horizontal(s)	25.3	Pass
Standoff(s)	18.5	Pass
Connection Plate(s)	40.7	Pass
Tie Back(s)	6.8	Pass
Tower Connection(s)	4.0	Pass

Table 5 – Maximum Mount Deflections and Rotations at Maintenance Wind Speeds (30 mph)

Mount Elevation (ft.)	Vertical Deflection* (in.)	Tilt* (degrees)	Twist* (degrees)
118.0	0.307	0.439	0.104

* Deflections provided are relative to the deflection of the supporting tower or structure. Allowable deflection and rotation values to be reviewed by the client.

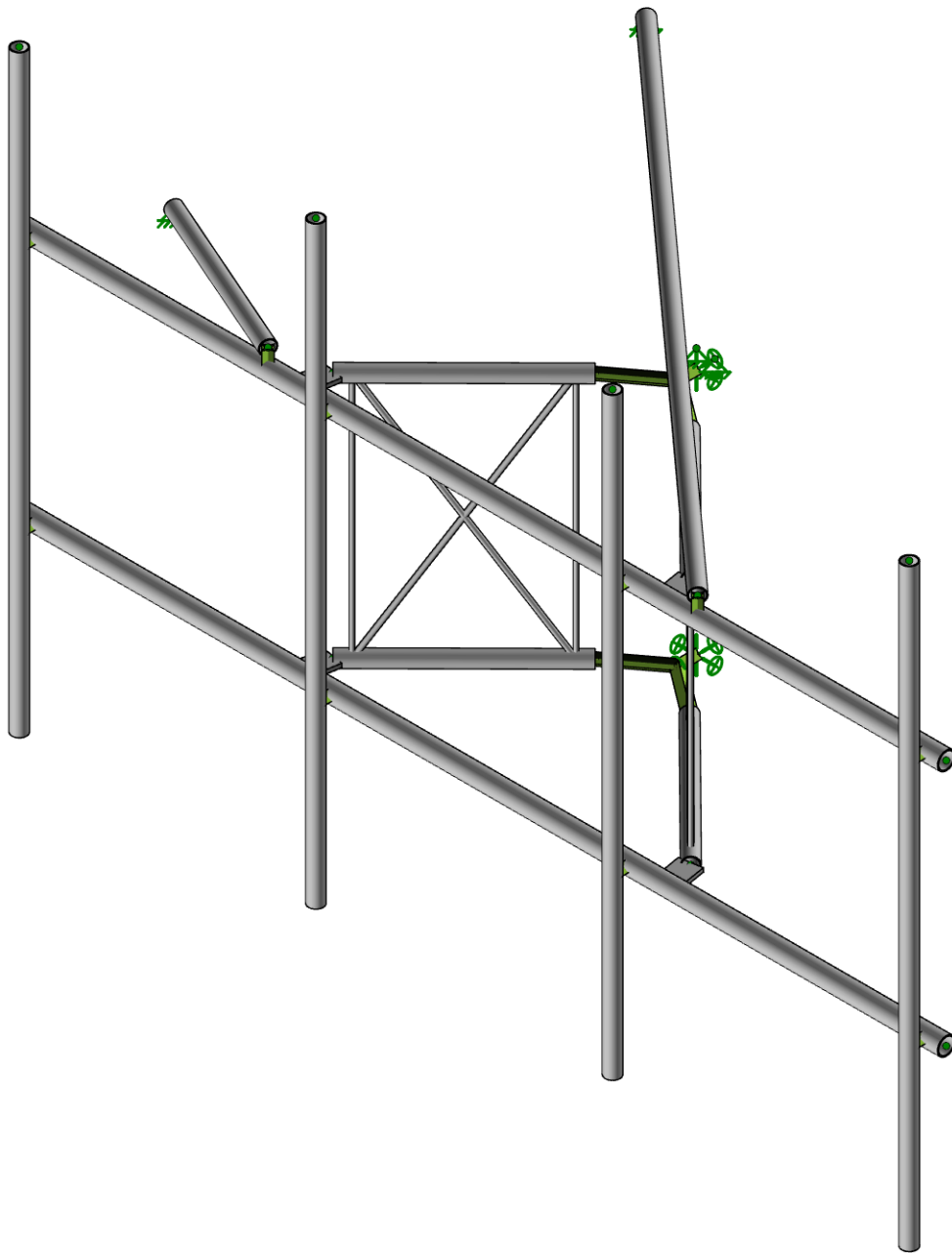
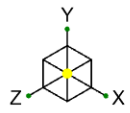
GENERAL COMMENTS

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

LIMITATIONS

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

APPENDIX



FDH-IS

DRD

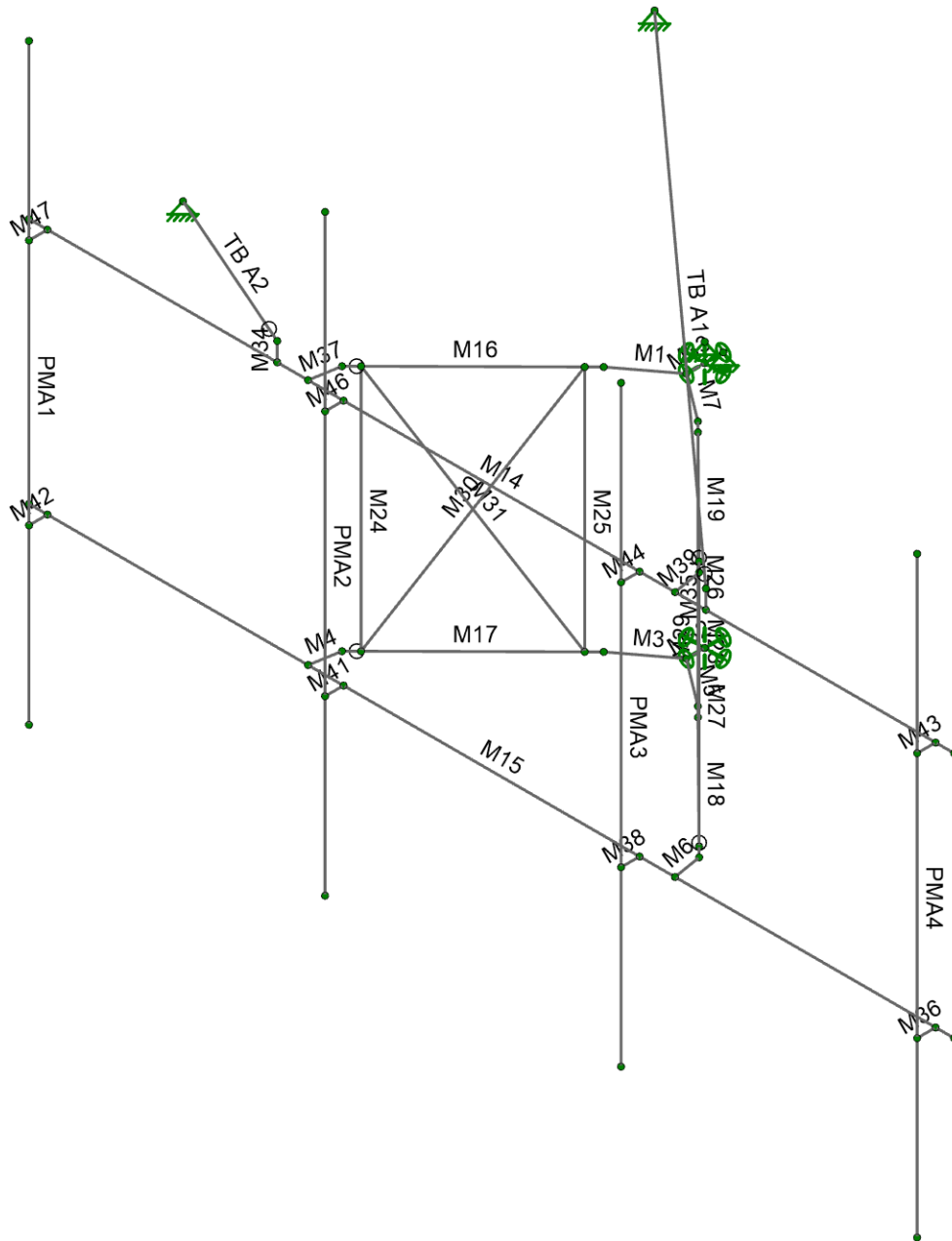
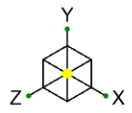
PR-004677

10066258: Valley Store

Proposed Mount - 1

Feb 10, 2021

CT98078-L_Wilton (02-10-2021 05 14 PM).r3d



FDH-IS

10066258: Valley Store

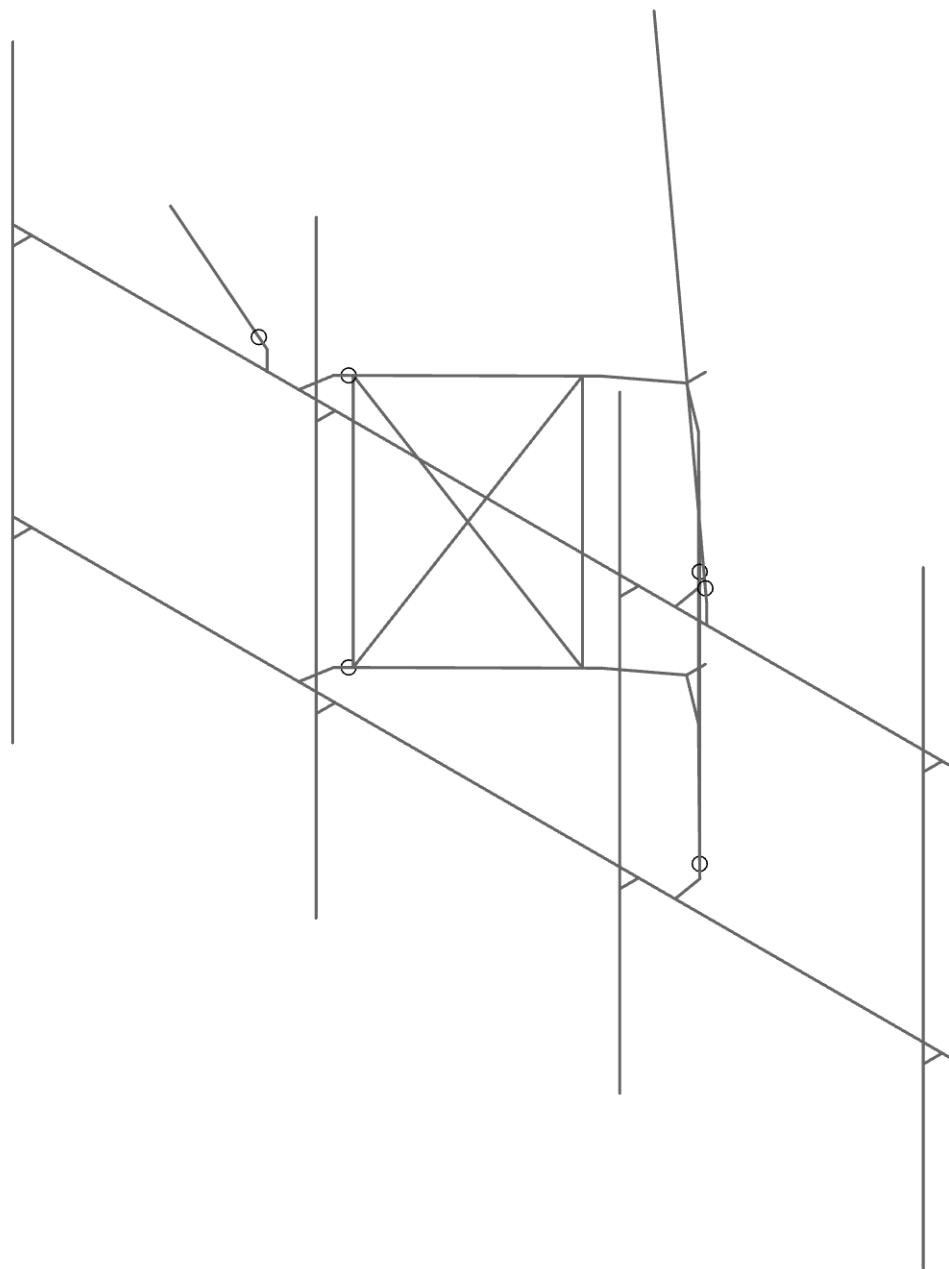
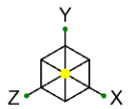
Proposed Mount - 2

DRD

Feb 10, 2021

PR-004677

CT98078-L_Wilton (02-10-2021 05 14 PM).r3d



FDH-IS

DRD

PR-004677

10066258: Valley Store

Proposed Mount - 3

Feb 10, 2021

CT98078-L_Wilton (02-10-2021 05 14 PM).r3d

Mount Analysis

Project Information	
Project Number:	PR005254
Site Name:	CT346/ OptasiteWiltonFT
Site Number:	CT11346C

Analysis Parameters			
Tower Type:	<i>TowerType</i>	Self Support	-
Mount Status:	<i>MountStatus</i>	Proposed	-
Mount Type:	<i>MountType</i>	Sector Frame	-
Analysis Code:	<i>Code</i>	TIA-222-H	-
Max Stress Ratio:	<i>MaxStressRatio</i>	105%	-
Tower Height:	<i>TwrHeight</i>	120	ft
Effective Mount Centerline Height:	<i>MntHeight</i>	118	ft
RISA Y-Coordinate of Mount CL:	<i>MountY</i>	0	in
Ultimate Wind Speed:	<i>WindSpeed</i>	116	mph
Maintenance Wind Speed:	<i>MaintWind</i>	30	mph
Design Ice Wind Speed:	<i>IceWind</i>	50	mph
Ultimate Ice Thickness:	<i>IceThickness</i>	1	in
Risk Category:	<i>RiskCat</i>	II	-
Exposure Category:	<i>Exposure</i>	B	-
Topographic Factor K_{zt} :	<i>Kzt</i>	1	-
Ss:	<i>Ss</i>	0.243	-
S _i :	<i>S_i</i>	0.057	-
Site Class:	<i>SiteClass</i>	D (assumed)	-
Ground Elevation at Base of Structure:	<i>zs</i>	628	ft
Roof Speed Up Factor:	<i>Ks</i>	-	-

Wind Parameters			
Wind Speed:			
Shielding Factor K_d :	<i>Ka</i>	0.90	-
Gust Factor G_H :	<i>Gh</i>	1.00	-
Velocity Pressure Factor K_z :	<i>Kz</i>	1.04	-
Wind Importance Factor I :	<i>I</i>	-	-
Exist. Structure Reduction Factor F_w :	<i>Fw</i>	0.95	-
Direction Probability Factor K_d :	<i>Kd</i>	0.95	-
Wind Pressure q_z :	<i>qz</i>	33.14	psf
Maint. Wind Pressure q_{mz} :	<i>q mz</i>	2.22	psf
Ice Wind Speed:			
Design Ice Thickness t_{iz} :	<i>t iz</i>	1.14	in
Ice Height Escalation Factor K_{iz} :	<i>K iz</i>	1.14	-
Ice Importance Factor I :	<i>I</i>	1.00	-

Load Combinations
1.2D + 1.0Wo
0.9D + 1.0Wo
1.2D + 1.0Di + 1.0Wi
1.4D
1.2D + 1.5Lm + 1.0Wm
1.2D + 1.5Lv

Considered Wind Directions
0°, 30°, 60°, 90°, 120°, 150°, 180°, 210°, 240°, 270°, 300°, 330°

Maintenance Loads	
Pipe Mounts, L _M (lbs):	500
Horizontals, L _V (lbs):	250

Maximum Deflections		
Vertical (in)	Tilt (deg)	Twist (deg)
0.307	0.439	0.104

Tie-Back End Reactions		
Member Label	Joint Label at BC	Resultant (lbs)
TB A1	N197	1559.2
TB A2	N133	677.0

Overall Max Stress Ratio	
40.7%	Pass

Connection Summary										
Node Label	Bolt Quantity	Bolt Diameter (in)	Bolt Type	Tu (kips)	ΦTn (kips)	Vu (kips)	ΦVn (kips)	Controlling LC	Stress Ratio	Pass/Fail
N197	4	0.625	Threaded Rod	0.39	9.83	0.01	6.68	44	4.0%	Pass

Section Sets Summary						
Section Set	Member	Member Label	Controlling	LC	Stress Ratio	Pass/Fail
Horizontals	PIPE_2.5	M14	Bending	76	25.3%	Pass
Standoff	PIPE_2.0	M16	Bending	79	18.5%	Pass
Bracing 1	SR 3/4	M30	Bending	76	11.5%	Pass
Bracing 2	SR 5/8	M24	Bending	75	25.2%	Pass
Tie Back	PIPE_2.0	TB A1	Bending	31	6.8%	Pass
Pipe Mount	PIPE_2.0	PMA1	Bending	74	37.9%	Pass
Conn Plate A	PL 3 1/2" x 5/8"	M39	Bending	49	40.7%	Pass

Site Specific Appurtenances:

	Include Loading (Yes/No)	Manufacturer	Model	Member Label	Type	#	Absolute Azimuth (deg)	Centerline Elevation (ft)	Height (in)	Width (in)	Depth (in)	Weight (lbs)	Ice Weight (lbs)	CaAa Front No Ice (ft ²)	CaAa Front Ice (ft ²)	CaAa Side No Ice (ft ²)	CaAa Side Ice (ft ²)
1	Yes	ericsson	Air 6449 B41	PMA1	Antenna	1	0.00	118.00	33.1	20.6	8.6	104.0	193.798	5.682	6.742	2.491	3.294
2	Yes	rfs celwave	APXVAALL24_43-U-NA20	PMA2	Antenna	1	0.00	118.00	95.9	24.0	8.5	122.8	417.769	20.243	22.477	8.733	10.799
3	Yes	ericsson	AIR 32 KRD901146-1_B66A_B2A	PMA4	Antenna	1	0.00	118.00	56.6	12.9	8.7	132.2	241.481	6.510	7.824	4.712	5.954
4	Yes	ericsson	RADIO 4449 B71/B85	PMA2	Other	1	0.00	118.00	15.0	13.2	10.5	75.0	106.093	1.644	2.220	1.310	1.835
5	Yes	ericsson	RADIO 4415 B25	PMA2	Other	1	0.00	118.00	15.0	13.2	5.4	44.0	70.617	1.644	2.220	0.679	1.100
6	Yes	commscope	SDX1926Q-43	PMA2	Other	1	0.00	118.00	4.2	6.9	2.9	6.2	10.349	0.241	0.494	0.101	0.278
7	Yes	ericsson	KRY 112 71	PMA2	Other	1	0.00	118.00	15.0	12.0	3.8	19.6	46.532	1.500	1.862	0.500	0.742

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		16	74.2	0
3	Total General		16	74.2	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	PL 3 1/2" x 5/8"	4	19.1	0.012
7	A36 Gr.36	SR 5/8	4	160	0.014
8	A36 Gr.36	SR 3/4	4	190	0.024
9	A53-b	PIPE 2.0	10	648.7	0.188
10	A53-b	PIPE 2.5	2	300	0.137
11	Total HR Steel		24	1317.9	0.374

Node Coordinates

	Label	X [in]	Y [in]	Z [in]	Detach From Diaphragm
1	TF6	-34.75	23	31.56	
2	TF5	34.75	23	31.56	
3	N57A	9.183083	20	7.273968	
4	N56A	9.183083	-20	7.273968	
5	N55A	-9.183083	-20	7.273968	
6	N54A	-9.183083	20	7.273968	
7	N53	27.401968	20	25.315083	
8	N52	27.401968	-20	25.315083	
9	N51	-27.401968	-20	25.315083	
10	N50	-27.401968	20	25.315083	
11	N18	-75	-20	31.56	
12	N17	-29.75	-20	31.56	
13	N16	29.75	-20	31.56	
14	N15	75	-20	31.56	
15	N14	75	20	31.56	
16	N13	29.75	20	31.56	
17	N12	-29.75	20	31.56	
18	N11	-75	20	31.56	
19	N10	28.951	20	26.849	
20	N9	7.634	20	5.74	
21	N8	7.634	-20	5.74	
22	N7	28.951	-20	26.849	
23	N6	0	20	0	
24	N5	0	-20	0	
25	N4	-28.951	-20	26.849	
26	N3	-7.634	-20	5.74	
27	N2	-7.634	20	5.74	
28	N1	-28.951	20	26.849	
29	N31	0	20	-3	
30	N32	0	-20	-3	
31	N33	-34.75	20	31.56	
32	N34	34.75	20	31.56	
33	N35	72	-20	31.56	
34	N36	72	20	31.56	
35	N37	72	-20	34.56	
36	N38	72	20	34.56	
37	N39	24	-20	31.56	
38	N40	24	-20	34.56	
39	N43	-24	-20	31.56	
40	N44	-24	-20	34.56	
41	N45	-72	-20	31.56	
42	N46	-72	-20	34.56	
43	N47	-24	20	31.56	
44	N48	24	20	34.56	

Node Coordinates (Continued)

	Label	X [in]	Y [in]	Z [in]	Detach From Diaphragm
45	N49	24	20	31.56	
46	N56	-24	20	34.56	
47	N57	-72	20	31.56	
48	N58	-72	20	34.56	
49	N59	24	-48	34.56	
50	N60	72	-48	34.56	
51	N62	-24	-48	34.56	
52	N63	-72	-48	34.56	
53	N64	24	48	34.56	
54	N65	-24	48	34.56	
55	N66	72	48	34.56	
56	N68	-72	48	34.56	
57	N72	0	23	-3	
58	N133	-62.0197	23	19.5733	
59	N197	-50.5589	23	-45.424	
60	N198	3	23	-3	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N31	Reaction	Reaction	Reaction	Reaction	Reaction
2	N32	Reaction	Reaction	Reaction	Reaction	Reaction
3	N72	Reaction	Reaction	Reaction		
4	N133	Reaction	Reaction	Reaction		
5	N197	Reaction	Reaction	Reaction		
6	N198	Reaction	Reaction	Reaction		

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁵ °F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	58	1.2
3	A992	29000	11154	0.3	0.65	0.49	50	1.1	58	1.2
4	A500 Gr.42	29000	11154	0.3	0.65	0.49	42	1.3	58	1.1
5	A500 Gr.46	29000	11154	0.3	0.65	0.49	46	1.2	58	1.1
6	A53-b	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	Horizontals	PIPE 2.5	Beam	Pipe	A53-b	Typical	1.61	1.45	1.45	2.89
2	Standoff	PIPE 2.0	Beam	Pipe	A53-b	Typical	1.02	0.627	0.627	1.25
3	Bracing 1	SR 3/4	Beam	BAR	A36 Gr.36	Typical	0.442	0.016	0.016	0.031
4	Bracing 2	SR 5/8	Column	BAR	A36 Gr.36	Typical	0.307	0.007	0.007	0.015
5	Tie Back	PIPE 2.0	HBrace	Pipe	A53-b	Typical	1.02	0.627	0.627	1.25
6	Pipe Mount	PIPE 2.0	Column	Pipe	A53-b	Typical	1.02	0.627	0.627	1.25
7	Conn Plate A	PL 3 1/2" x 5/8"	HBrace	RECT	A36 Gr.36	Typical	2.188	0.071	2.233	0.253

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N6	N2		RIGID	None	None	RIGID	Typical
2	M3	N5	N3		RIGID	None	None	RIGID	Typical
3	M5	N5	N8		RIGID	None	None	RIGID	Typical
4	M7	N6	N9		RIGID	None	None	RIGID	Typical
5	M4	N17	N4	90	Conn Plate A	HBrace	RECT	A36 Gr.36	Typical
6	M6	N16	N7	90	Conn Plate A	HBrace	RECT	A36 Gr.36	Typical
7	TB A1	TF5	N197		Tie Back	HBrace	Pipe	A53-b	Typical
8	M14	N11	N14		Horizontals	Beam	Pipe	A53-b	Typical
9	M15	N18	N15		Horizontals	Beam	Pipe	A53-b	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
10	M16	N1	N2		Standoff	Beam	Pipe	A53-b	Typical
11	M17	N4	N3		Standoff	Beam	Pipe	A53-b	Typical
12	M18	N7	N8		Standoff	Beam	Pipe	A53-b	Typical
13	M19	N10	N9		Standoff	Beam	Pipe	A53-b	Typical
14	M24	N50	N51		Bracing 2	Column	BAR	A36 Gr.36	Typical
15	M25	N54A	N55A		Bracing 2	Column	BAR	A36 Gr.36	Typical
16	M26	N57A	N56A		Bracing 2	Column	BAR	A36 Gr.36	Typical
17	M27	N53	N52		Bracing 2	Column	BAR	A36 Gr.36	Typical
18	M28	N57A	N52		Bracing 1	Beam	BAR	A36 Gr.36	Typical
19	M29	N56A	N53		Bracing 1	Beam	BAR	A36 Gr.36	Typical
20	M30	N51	N54A		Bracing 1	Beam	BAR	A36 Gr.36	Typical
21	M31	N50	N55A		Bracing 1	Beam	BAR	A36 Gr.36	Typical
22	TB A2	TF6	N133		Tie Back	HBrace	Pipe	A53-b	Typical
23	M37	N1	N12	90	Conn Plate A	HBrace	RECT	A36 Gr.36	Typical
24	M39	N10	N13	90	Conn Plate A	HBrace	RECT	A36 Gr.36	Typical
25	M32	N5	N32		RIGID	None	None	RIGID	Typical
26	M33	N6	N31		RIGID	None	None	RIGID	Typical
27	M34	N33	TF6		RIGID	None	None	RIGID	Typical
28	M35	N34	TF5		RIGID	None	None	RIGID	Typical
29	M36	N35	N37		RIGID	None	None	RIGID	Typical
30	M38	N39	N40		RIGID	None	None	RIGID	Typical
31	M41	N43	N44		RIGID	None	None	RIGID	Typical
32	M42	N45	N46		RIGID	None	None	RIGID	Typical
33	M43	N36	N38		RIGID	None	None	RIGID	Typical
34	M44	N49	N48		RIGID	None	None	RIGID	Typical
35	M46	N47	N56		RIGID	None	None	RIGID	Typical
36	M47	N57	N58		RIGID	None	None	RIGID	Typical
37	PMA4	N66	N60		Pipe Mount	Column	Pipe	A53-b	Typical
38	PMA3	N64	N59		Pipe Mount	Column	Pipe	A53-b	Typical
39	PMA2	N65	N62		Pipe Mount	Column	Pipe	A53-b	Typical
40	PMA1	N68	N63		Pipe Mount	Column	Pipe	A53-b	Typical

Member Advanced Data

	Label	I Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
1	M1			Yes	** NA **	None
2	M3			Yes	** NA **	None
3	M5			Yes	** NA **	None
4	M7			Yes	** NA **	None
5	M4			Yes	** NA **	None
6	M6			Yes	** NA **	None
7	TB A1	BenPIN		Yes	** NA **	None
8	M14			Yes		None
9	M15			Yes		None
10	M16	BenPIN		Yes		None
11	M17	BenPIN		Yes		None
12	M18	BenPIN		Yes		None
13	M19	BenPIN		Yes		None
14	M24			Yes	** NA **	None
15	M25			Yes	** NA **	None
16	M26			Yes	** NA **	None
17	M27			Yes	** NA **	None
18	M28			Yes		None
19	M29		Tension Only	Yes		None
20	M30			Yes		None
21	M31		Tension Only	Yes		None
22	TB A2	BenPIN		Yes	** NA **	None
23	M37			Yes	** NA **	None
24	M39			Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
25	M32			Yes	** NA **	None
26	M33			Yes	** NA **	None
27	M34			Yes	** NA **	None
28	M35			Yes	** NA **	None
29	M36			Yes	** NA **	None
30	M38			Yes	** NA **	None
31	M41			Yes	** NA **	None
32	M42			Yes	** NA **	None
33	M43			Yes	** NA **	None
34	M44			Yes	** NA **	None
35	M46			Yes	** NA **	None
36	M47			Yes	** NA **	None
37	PMA4			Yes	** NA **	None
38	PMA3			Yes	** NA **	None
39	PMA2			Yes	** NA **	None
40	PMA1			Yes	** NA **	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [in]	Lb y-y [in]	Lb z-z [in]	Lcomp top [in]	K y-y	K z-z	Function
1	M4	Conn Plate A	4.778			Lbyy			Lateral
2	M6	Conn Plate A	4.778			Lbyy			Lateral
3	TB A1	Tie Back	114.909			Lbyy			Lateral
4	M14	Horizontals	150	59.5	59.5	Lbyy			Lateral
5	M15	Horizontals	150	59.5	59.5	Lbyy			Lateral
6	M16	Standoff	30			Lbyy			Lateral
7	M17	Standoff	30			Lbyy			Lateral
8	M18	Standoff	30			Lbyy			Lateral
9	M19	Standoff	30			Lbyy			Lateral
10	M24	Bracing 2	40	30	30	Lbyy	0.65	0.65	Lateral
11	M25	Bracing 2	40	30	30	Lbyy	0.65	0.65	Lateral
12	M26	Bracing 2	40	30	30	Lbyy	0.65	0.65	Lateral
13	M27	Bracing 2	40	30	30	Lbyy	0.65	0.65	Lateral
14	M28	Bracing 1	47.512			Lbyy	0.65	0.65	Lateral
15	M29	Bracing 1	47.512			Lbyy	0.65	0.65	Lateral
16	M30	Bracing 1	47.512			Lbyy	0.65	0.65	Lateral
17	M31	Bracing 1	47.512			Lbyy	0.65	0.65	Lateral
18	TB A2	Tie Back	29.788			Lbyy			Lateral
19	M37	Conn Plate A	4.778			Lbyy			Lateral
20	M39	Conn Plate A	4.778			Lbyy			Lateral
21	PMA4	Pipe Mount	96	40	40	Lbyy			Lateral
22	PMA3	Pipe Mount	96	40	40	Lbyy			Lateral
23	PMA2	Pipe Mount	96	40	40	Lbyy			Lateral
24	PMA1	Pipe Mount	96	40	40	Lbyy			Lateral

Nodal Loads and Enforced Displacements

No Data to Print...									
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Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	-0.085	%32.760417	Active
2	PMA1	Z	-0.085	%67.239583	Active
3	PMA2	Z	-0.219	%052083	Active
4	PMA2	Z	-0.219	%99.947917	Active
5	PMA4	Z	-0.097	%20.520833	Active
6	PMA4	Z	-0.097	%79.479167	Active
7	PMA2	Z	-0.049	%50	Active
8	PMA2	Z	-0.049	%50	Active

Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
9	PMA2	Z	-0.007	%50	Active
10	PMA2	Z	-0.045	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.036	%32.760417	Active
2	PMA1	Z	-0.063	%32.760417	Active
3	PMA1	X	0.036	%67.239583	Active
4	PMA1	Z	-0.063	%67.239583	Active
5	PMA2	X	0.092	%052083	Active
6	PMA2	Z	-0.159	%052083	Active
7	PMA2	X	0.092	%99.947917	Active
8	PMA2	Z	-0.159	%99.947917	Active
9	PMA4	X	0.045	%20.520833	Active
10	PMA4	Z	-0.078	%20.520833	Active
11	PMA4	X	0.045	%79.479167	Active
12	PMA4	Z	-0.078	%79.479167	Active
13	PMA2	X	0.023	%50	Active
14	PMA2	Z	-0.04	%50	Active
15	PMA2	X	0.021	%50	Active
16	PMA2	Z	-0.036	%50	Active
17	PMA2	X	0.003	%50	Active
18	PMA2	Z	-0.005	%50	Active
19	PMA2	X	0.019	%50	Active
20	PMA2	Z	-0.032	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.042	%32.760417	Active
2	PMA1	Z	-0.025	%32.760417	Active
3	PMA1	X	0.042	%67.239583	Active
4	PMA1	Z	-0.025	%67.239583	Active
5	PMA2	X	0.098	%052083	Active
6	PMA2	Z	-0.057	%052083	Active
7	PMA2	X	0.098	%99.947917	Active
8	PMA2	Z	-0.057	%99.947917	Active
9	PMA4	X	0.067	%20.520833	Active
10	PMA4	Z	-0.038	%20.520833	Active
11	PMA4	X	0.067	%79.479167	Active
12	PMA4	Z	-0.038	%79.479167	Active
13	PMA2	X	0.036	%50	Active
14	PMA2	Z	-0.021	%50	Active
15	PMA2	X	0.024	%50	Active
16	PMA2	Z	-0.014	%50	Active
17	PMA2	X	0.004	%50	Active
18	PMA2	Z	-0.002	%50	Active
19	PMA2	X	0.019	%50	Active
20	PMA2	Z	-0.011	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.037	%32.760417	Active
2	PMA1	X	0.037	%67.239583	Active
3	PMA2	X	0.078	%052083	Active
4	PMA2	X	0.078	%99.947917	Active
5	PMA4	X	0.07	%20.520833	Active
6	PMA4	X	0.07	%79.479167	Active



Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
7	PMA2	X	0.039	%50	Active
8	PMA2	X	0.02	%50	Active
9	PMA2	X	0.003	%50	Active
10	PMA2	X	0.015	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.042	%32.760417	Active
2	PMA1	Z	0.025	%32.760417	Active
3	PMA1	X	0.042	%67.239583	Active
4	PMA1	Z	0.025	%67.239583	Active
5	PMA2	X	0.098	%.052083	Active
6	PMA2	Z	0.057	%.052083	Active
7	PMA2	X	0.098	%99.947917	Active
8	PMA2	Z	0.057	%99.947917	Active
9	PMA4	X	0.067	%20.520833	Active
10	PMA4	Z	0.038	%20.520833	Active
11	PMA4	X	0.067	%79.479167	Active
12	PMA4	Z	0.038	%79.479167	Active
13	PMA2	X	0.036	%50	Active
14	PMA2	Z	0.021	%50	Active
15	PMA2	X	0.024	%50	Active
16	PMA2	Z	0.014	%50	Active
17	PMA2	X	0.004	%50	Active
18	PMA2	Z	0.002	%50	Active
19	PMA2	X	0.019	%50	Active
20	PMA2	Z	0.011	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.036	%32.760417	Active
2	PMA1	Z	0.063	%32.760417	Active
3	PMA1	X	0.036	%67.239583	Active
4	PMA1	Z	0.063	%67.239583	Active
5	PMA2	X	0.092	%.052083	Active
6	PMA2	Z	0.159	%.052083	Active
7	PMA2	X	0.092	%99.947917	Active
8	PMA2	Z	0.159	%99.947917	Active
9	PMA4	X	0.045	%20.520833	Active
10	PMA4	Z	0.078	%20.520833	Active
11	PMA4	X	0.045	%79.479167	Active
12	PMA4	Z	0.078	%79.479167	Active
13	PMA2	X	0.023	%50	Active
14	PMA2	Z	0.04	%50	Active
15	PMA2	X	0.021	%50	Active
16	PMA2	Z	0.036	%50	Active
17	PMA2	X	0.003	%50	Active
18	PMA2	Z	0.005	%50	Active
19	PMA2	X	0.019	%50	Active
20	PMA2	Z	0.032	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	0.085	%32.760417	Active
2	PMA1	Z	0.085	%67.239583	Active
3	PMA2	Z	0.219	%.052083	Active
4	PMA2	Z	0.219	%99.947917	Active

Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
5	PMA4	Z	0.097	%20.520833	Active
6	PMA4	Z	0.097	%79.479167	Active
7	PMA2	Z	0.049	%50	Active
8	PMA2	Z	0.049	%50	Active
9	PMA2	Z	0.007	%50	Active
10	PMA2	Z	0.045	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.036	%32.760417	Active
2	PMA1	Z	0.063	%32.760417	Active
3	PMA1	X	-0.036	%67.239583	Active
4	PMA1	Z	0.063	%67.239583	Active
5	PMA2	X	-0.092	%052083	Active
6	PMA2	Z	0.159	%052083	Active
7	PMA2	X	-0.092	%99.947917	Active
8	PMA2	Z	0.159	%99.947917	Active
9	PMA4	X	-0.045	%20.520833	Active
10	PMA4	Z	0.078	%20.520833	Active
11	PMA4	X	-0.045	%79.479167	Active
12	PMA4	Z	0.078	%79.479167	Active
13	PMA2	X	-0.023	%50	Active
14	PMA2	Z	0.04	%50	Active
15	PMA2	X	-0.021	%50	Active
16	PMA2	Z	0.036	%50	Active
17	PMA2	X	-0.003	%50	Active
18	PMA2	Z	0.005	%50	Active
19	PMA2	X	-0.019	%50	Active
20	PMA2	Z	0.032	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.042	%32.760417	Active
2	PMA1	Z	0.025	%32.760417	Active
3	PMA1	X	-0.042	%67.239583	Active
4	PMA1	Z	0.025	%67.239583	Active
5	PMA2	X	-0.098	%052083	Active
6	PMA2	Z	0.057	%052083	Active
7	PMA2	X	-0.098	%99.947917	Active
8	PMA2	Z	0.057	%99.947917	Active
9	PMA4	X	-0.067	%20.520833	Active
10	PMA4	Z	0.038	%20.520833	Active
11	PMA4	X	-0.067	%79.479167	Active
12	PMA4	Z	0.038	%79.479167	Active
13	PMA2	X	-0.036	%50	Active
14	PMA2	Z	0.021	%50	Active
15	PMA2	X	-0.024	%50	Active
16	PMA2	Z	0.014	%50	Active
17	PMA2	X	-0.004	%50	Active
18	PMA2	Z	0.002	%50	Active
19	PMA2	X	-0.019	%50	Active
20	PMA2	Z	0.011	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.037	%32.760417	Active
2	PMA1	X	-0.037	%67.239583	Active

Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
3	PMA2	X	-0.078	%052083	Active
4	PMA2	X	-0.078	%99.947917	Active
5	PMA4	X	-0.07	%20.520833	Active
6	PMA4	X	-0.07	%79.479167	Active
7	PMA2	X	-0.039	%50	Active
8	PMA2	X	-0.02	%50	Active
9	PMA2	X	-0.003	%50	Active
10	PMA2	X	-0.015	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.042	%32.760417	Active
2	PMA1	Z	-0.025	%32.760417	Active
3	PMA1	X	-0.042	%67.239583	Active
4	PMA1	Z	-0.025	%67.239583	Active
5	PMA2	X	-0.098	%052083	Active
6	PMA2	Z	-0.057	%052083	Active
7	PMA2	X	-0.098	%99.947917	Active
8	PMA2	Z	-0.057	%99.947917	Active
9	PMA4	X	-0.067	%20.520833	Active
10	PMA4	Z	-0.038	%20.520833	Active
11	PMA4	X	-0.067	%79.479167	Active
12	PMA4	Z	-0.038	%79.479167	Active
13	PMA2	X	-0.036	%50	Active
14	PMA2	Z	-0.021	%50	Active
15	PMA2	X	-0.024	%50	Active
16	PMA2	Z	-0.014	%50	Active
17	PMA2	X	-0.004	%50	Active
18	PMA2	Z	-0.002	%50	Active
19	PMA2	X	-0.019	%50	Active
20	PMA2	Z	-0.011	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.036	%32.760417	Active
2	PMA1	Z	-0.063	%32.760417	Active
3	PMA1	X	-0.036	%67.239583	Active
4	PMA1	Z	-0.063	%67.239583	Active
5	PMA2	X	-0.092	%052083	Active
6	PMA2	Z	-0.159	%052083	Active
7	PMA2	X	-0.092	%99.947917	Active
8	PMA2	Z	-0.159	%99.947917	Active
9	PMA4	X	-0.045	%20.520833	Active
10	PMA4	Z	-0.078	%20.520833	Active
11	PMA4	X	-0.045	%79.479167	Active
12	PMA4	Z	-0.078	%79.479167	Active
13	PMA2	X	-0.023	%50	Active
14	PMA2	Z	-0.04	%50	Active
15	PMA2	X	-0.021	%50	Active
16	PMA2	Z	-0.036	%50	Active
17	PMA2	X	-0.003	%50	Active
18	PMA2	Z	-0.005	%50	Active
19	PMA2	X	-0.019	%50	Active
20	PMA2	Z	-0.032	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	-0.019	%32.760417	Active
2	PMA1	Z	-0.019	%67.239583	Active
3	PMA2	Z	-0.045	%052083	Active
4	PMA2	Z	-0.045	%99.947917	Active
5	PMA4	Z	-0.022	%20.520833	Active
6	PMA4	Z	-0.022	%79.479167	Active
7	PMA2	Z	-0.012	%50	Active
8	PMA2	Z	-0.012	%50	Active
9	PMA2	Z	-0.003	%50	Active
10	PMA2	Z	-0.01	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.008	%32.760417	Active
2	PMA1	Z	-0.014	%32.760417	Active
3	PMA1	X	0.008	%67.239583	Active
4	PMA1	Z	-0.014	%67.239583	Active
5	PMA2	X	0.019	%052083	Active
6	PMA2	Z	-0.033	%052083	Active
7	PMA2	X	0.019	%99.947917	Active
8	PMA2	Z	-0.033	%99.947917	Active
9	PMA4	X	0.01	%20.520833	Active
10	PMA4	Z	-0.018	%20.520833	Active
11	PMA4	X	0.01	%79.479167	Active
12	PMA4	Z	-0.018	%79.479167	Active
13	PMA2	X	0.006	%50	Active
14	PMA2	Z	-0.01	%50	Active
15	PMA2	X	0.005	%50	Active
16	PMA2	Z	-0.009	%50	Active
17	PMA2	X	0.001	%50	Active
18	PMA2	Z	-0.002	%50	Active
19	PMA2	X	0.004	%50	Active
20	PMA2	Z	-0.008	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.01	%32.760417	Active
2	PMA1	Z	-0.006	%32.760417	Active
3	PMA1	X	0.01	%67.239583	Active
4	PMA1	Z	-0.006	%67.239583	Active
5	PMA2	X	0.021	%052083	Active
6	PMA2	Z	-0.012	%052083	Active
7	PMA2	X	0.021	%99.947917	Active
8	PMA2	Z	-0.012	%99.947917	Active
9	PMA4	X	0.015	%20.520833	Active
10	PMA4	Z	-0.009	%20.520833	Active
11	PMA4	X	0.015	%79.479167	Active
12	PMA4	Z	-0.009	%79.479167	Active
13	PMA2	X	0.009	%50	Active
14	PMA2	Z	-0.005	%50	Active
15	PMA2	X	0.007	%50	Active
16	PMA2	Z	-0.004	%50	Active
17	PMA2	X	0.002	%50	Active
18	PMA2	Z	-0.000921	%50	Active
19	PMA2	X	0.005	%50	Active
20	PMA2	Z	-0.003	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.009	%32.760417	Active
2	PMA1	X	0.009	%67.239583	Active
3	PMA2	X	0.018	%052083	Active
4	PMA2	X	0.018	%99.947917	Active
5	PMA4	X	0.016	%20.520833	Active
6	PMA4	X	0.016	%79.479167	Active
7	PMA2	X	0.01	%50	Active
8	PMA2	X	0.006	%50	Active
9	PMA2	X	0.002	%50	Active
10	PMA2	X	0.004	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.01	%32.760417	Active
2	PMA1	Z	0.006	%32.760417	Active
3	PMA1	X	0.01	%67.239583	Active
4	PMA1	Z	0.006	%67.239583	Active
5	PMA2	X	0.021	%052083	Active
6	PMA2	Z	0.012	%052083	Active
7	PMA2	X	0.021	%99.947917	Active
8	PMA2	Z	0.012	%99.947917	Active
9	PMA4	X	0.015	%20.520833	Active
10	PMA4	Z	0.009	%20.520833	Active
11	PMA4	X	0.015	%79.479167	Active
12	PMA4	Z	0.009	%79.479167	Active
13	PMA2	X	0.009	%50	Active
14	PMA2	Z	0.005	%50	Active
15	PMA2	X	0.007	%50	Active
16	PMA2	Z	0.004	%50	Active
17	PMA2	X	0.002	%50	Active
18	PMA2	Z	0.000921	%50	Active
19	PMA2	X	0.005	%50	Active
20	PMA2	Z	0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.008	%32.760417	Active
2	PMA1	Z	0.014	%32.760417	Active
3	PMA1	X	0.008	%67.239583	Active
4	PMA1	Z	0.014	%67.239583	Active
5	PMA2	X	0.019	%052083	Active
6	PMA2	Z	0.033	%052083	Active
7	PMA2	X	0.019	%99.947917	Active
8	PMA2	Z	0.033	%99.947917	Active
9	PMA4	X	0.01	%20.520833	Active
10	PMA4	Z	0.018	%20.520833	Active
11	PMA4	X	0.01	%79.479167	Active
12	PMA4	Z	0.018	%79.479167	Active
13	PMA2	X	0.006	%50	Active
14	PMA2	Z	0.01	%50	Active
15	PMA2	X	0.005	%50	Active
16	PMA2	Z	0.009	%50	Active
17	PMA2	X	0.001	%50	Active
18	PMA2	Z	0.002	%50	Active
19	PMA2	X	0.004	%50	Active
20	PMA2	Z	0.008	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	0.019	%32.760417	Active
2	PMA1	Z	0.019	%67.239583	Active
3	PMA2	Z	0.045	%052083	Active
4	PMA2	Z	0.045	%99.947917	Active
5	PMA4	Z	0.022	%20.520833	Active
6	PMA4	Z	0.022	%79.479167	Active
7	PMA2	Z	0.012	%50	Active
8	PMA2	Z	0.012	%50	Active
9	PMA2	Z	0.003	%50	Active
10	PMA2	Z	0.01	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.008	%32.760417	Active
2	PMA1	Z	0.014	%32.760417	Active
3	PMA1	X	-0.008	%67.239583	Active
4	PMA1	Z	0.014	%67.239583	Active
5	PMA2	X	-0.019	%052083	Active
6	PMA2	Z	0.033	%052083	Active
7	PMA2	X	-0.019	%99.947917	Active
8	PMA2	Z	0.033	%99.947917	Active
9	PMA4	X	-0.01	%20.520833	Active
10	PMA4	Z	0.018	%20.520833	Active
11	PMA4	X	-0.01	%79.479167	Active
12	PMA4	Z	0.018	%79.479167	Active
13	PMA2	X	-0.006	%50	Active
14	PMA2	Z	0.01	%50	Active
15	PMA2	X	-0.005	%50	Active
16	PMA2	Z	0.009	%50	Active
17	PMA2	X	-0.001	%50	Active
18	PMA2	Z	0.002	%50	Active
19	PMA2	X	-0.004	%50	Active
20	PMA2	Z	0.008	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.01	%32.760417	Active
2	PMA1	Z	0.006	%32.760417	Active
3	PMA1	X	-0.01	%67.239583	Active
4	PMA1	Z	0.006	%67.239583	Active
5	PMA2	X	-0.021	%052083	Active
6	PMA2	Z	0.012	%052083	Active
7	PMA2	X	-0.021	%99.947917	Active
8	PMA2	Z	0.012	%99.947917	Active
9	PMA4	X	-0.015	%20.520833	Active
10	PMA4	Z	0.009	%20.520833	Active
11	PMA4	X	-0.015	%79.479167	Active
12	PMA4	Z	0.009	%79.479167	Active
13	PMA2	X	-0.009	%50	Active
14	PMA2	Z	0.005	%50	Active
15	PMA2	X	-0.007	%50	Active
16	PMA2	Z	0.004	%50	Active
17	PMA2	X	-0.002	%50	Active
18	PMA2	Z	0.000921	%50	Active
19	PMA2	X	-0.005	%50	Active
20	PMA2	Z	0.003	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.009	%32.760417	Active
2	PMA1	X	-0.009	%67.239583	Active
3	PMA2	X	-0.018	%052083	Active
4	PMA2	X	-0.018	%99.947917	Active
5	PMA4	X	-0.016	%20.520833	Active
6	PMA4	X	-0.016	%79.479167	Active
7	PMA2	X	-0.01	%50	Active
8	PMA2	X	-0.006	%50	Active
9	PMA2	X	-0.002	%50	Active
10	PMA2	X	-0.004	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.01	%32.760417	Active
2	PMA1	Z	-0.006	%32.760417	Active
3	PMA1	X	-0.01	%67.239583	Active
4	PMA1	Z	-0.006	%67.239583	Active
5	PMA2	X	-0.021	%052083	Active
6	PMA2	Z	-0.012	%052083	Active
7	PMA2	X	-0.021	%99.947917	Active
8	PMA2	Z	-0.012	%99.947917	Active
9	PMA4	X	-0.015	%20.520833	Active
10	PMA4	Z	-0.009	%20.520833	Active
11	PMA4	X	-0.015	%79.479167	Active
12	PMA4	Z	-0.009	%79.479167	Active
13	PMA2	X	-0.009	%50	Active
14	PMA2	Z	-0.005	%50	Active
15	PMA2	X	-0.007	%50	Active
16	PMA2	Z	-0.004	%50	Active
17	PMA2	X	-0.002	%50	Active
18	PMA2	Z	-0.000921	%50	Active
19	PMA2	X	-0.005	%50	Active
20	PMA2	Z	-0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.008	%32.760417	Active
2	PMA1	Z	-0.014	%32.760417	Active
3	PMA1	X	-0.008	%67.239583	Active
4	PMA1	Z	-0.014	%67.239583	Active
5	PMA2	X	-0.019	%052083	Active
6	PMA2	Z	-0.033	%052083	Active
7	PMA2	X	-0.019	%99.947917	Active
8	PMA2	Z	-0.033	%99.947917	Active
9	PMA4	X	-0.01	%20.520833	Active
10	PMA4	Z	-0.018	%20.520833	Active
11	PMA4	X	-0.01	%79.479167	Active
12	PMA4	Z	-0.018	%79.479167	Active
13	PMA2	X	-0.006	%50	Active
14	PMA2	Z	-0.01	%50	Active
15	PMA2	X	-0.005	%50	Active
16	PMA2	Z	-0.009	%50	Active
17	PMA2	X	-0.001	%50	Active
18	PMA2	Z	-0.002	%50	Active
19	PMA2	X	-0.004	%50	Active
20	PMA2	Z	-0.008	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	-0.006	%32.760417	Active
2	PMA1	Z	-0.006	%67.239583	Active
3	PMA2	Z	-0.015	%052083	Active
4	PMA2	Z	-0.015	%99.947917	Active
5	PMA4	Z	-0.006	%20.520833	Active
6	PMA4	Z	-0.006	%79.479167	Active
7	PMA2	Z	-0.003	%50	Active
8	PMA2	Z	-0.003	%50	Active
9	PMA2	Z	-0.000481	%50	Active
10	PMA2	Z	-0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.002	%32.760417	Active
2	PMA1	Z	-0.004	%32.760417	Active
3	PMA1	X	0.002	%67.239583	Active
4	PMA1	Z	-0.004	%67.239583	Active
5	PMA2	X	0.006	%052083	Active
6	PMA2	Z	-0.011	%052083	Active
7	PMA2	X	0.006	%99.947917	Active
8	PMA2	Z	-0.011	%99.947917	Active
9	PMA4	X	0.003	%20.520833	Active
10	PMA4	Z	-0.005	%20.520833	Active
11	PMA4	X	0.003	%79.479167	Active
12	PMA4	Z	-0.005	%79.479167	Active
13	PMA2	X	0.002	%50	Active
14	PMA2	Z	-0.003	%50	Active
15	PMA2	X	0.001	%50	Active
16	PMA2	Z	-0.002	%50	Active
17	PMA2	X	0.000206	%50	Active
18	PMA2	Z	-0.000356	%50	Active
19	PMA2	X	0.001	%50	Active
20	PMA2	Z	-0.002	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.003	%32.760417	Active
2	PMA1	Z	-0.002	%32.760417	Active
3	PMA1	X	0.003	%67.239583	Active
4	PMA1	Z	-0.002	%67.239583	Active
5	PMA2	X	0.007	%052083	Active
6	PMA2	Z	-0.004	%052083	Active
7	PMA2	X	0.007	%99.947917	Active
8	PMA2	Z	-0.004	%99.947917	Active
9	PMA4	X	0.004	%20.520833	Active
10	PMA4	Z	-0.003	%20.520833	Active
11	PMA4	X	0.004	%79.479167	Active
12	PMA4	Z	-0.003	%79.479167	Active
13	PMA2	X	0.002	%50	Active
14	PMA2	Z	-0.001	%50	Active
15	PMA2	X	0.002	%50	Active
16	PMA2	Z	-0.000918	%50	Active
17	PMA2	X	0.000235	%50	Active
18	PMA2	Z	-0.000136	%50	Active
19	PMA2	X	0.001	%50	Active
20	PMA2	Z	-0.000749	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.002	%32.760417	Active
2	PMA1	X	0.002	%67.239583	Active
3	PMA2	X	0.005	%052083	Active
4	PMA2	X	0.005	%99.947917	Active
5	PMA4	X	0.005	%20.520833	Active
6	PMA4	X	0.005	%79.479167	Active
7	PMA2	X	0.003	%50	Active
8	PMA2	X	0.001	%50	Active
9	PMA2	X	0.000202	%50	Active
10	PMA2	X	0.000998	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.003	%32.760417	Active
2	PMA1	Z	0.002	%32.760417	Active
3	PMA1	X	0.003	%67.239583	Active
4	PMA1	Z	0.002	%67.239583	Active
5	PMA2	X	0.007	%052083	Active
6	PMA2	Z	0.004	%052083	Active
7	PMA2	X	0.007	%99.947917	Active
8	PMA2	Z	0.004	%99.947917	Active
9	PMA4	X	0.004	%20.520833	Active
10	PMA4	Z	0.003	%20.520833	Active
11	PMA4	X	0.004	%79.479167	Active
12	PMA4	Z	0.003	%79.479167	Active
13	PMA2	X	0.002	%50	Active
14	PMA2	Z	0.001	%50	Active
15	PMA2	X	0.002	%50	Active
16	PMA2	Z	0.000918	%50	Active
17	PMA2	X	0.000235	%50	Active
18	PMA2	Z	0.000136	%50	Active
19	PMA2	X	0.001	%50	Active
20	PMA2	Z	0.000749	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.002	%32.760417	Active
2	PMA1	Z	0.004	%32.760417	Active
3	PMA1	X	0.002	%67.239583	Active
4	PMA1	Z	0.004	%67.239583	Active
5	PMA2	X	0.006	%052083	Active
6	PMA2	Z	0.011	%052083	Active
7	PMA2	X	0.006	%99.947917	Active
8	PMA2	Z	0.011	%99.947917	Active
9	PMA4	X	0.003	%20.520833	Active
10	PMA4	Z	0.005	%20.520833	Active
11	PMA4	X	0.003	%79.479167	Active
12	PMA4	Z	0.005	%79.479167	Active
13	PMA2	X	0.002	%50	Active
14	PMA2	Z	0.003	%50	Active
15	PMA2	X	0.001	%50	Active
16	PMA2	Z	0.002	%50	Active
17	PMA2	X	0.000206	%50	Active
18	PMA2	Z	0.000356	%50	Active
19	PMA2	X	0.001	%50	Active
20	PMA2	Z	0.002	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	0.006	%32.760417	Active
2	PMA1	Z	0.006	%67.239583	Active
3	PMA2	Z	0.015	%052083	Active
4	PMA2	Z	0.015	%99.947917	Active
5	PMA4	Z	0.006	%20.520833	Active
6	PMA4	Z	0.006	%79.479167	Active
7	PMA2	Z	0.003	%50	Active
8	PMA2	Z	0.003	%50	Active
9	PMA2	Z	0.000481	%50	Active
10	PMA2	Z	0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.002	%32.760417	Active
2	PMA1	Z	0.004	%32.760417	Active
3	PMA1	X	-0.002	%67.239583	Active
4	PMA1	Z	0.004	%67.239583	Active
5	PMA2	X	-0.006	%052083	Active
6	PMA2	Z	0.011	%052083	Active
7	PMA2	X	-0.006	%99.947917	Active
8	PMA2	Z	0.011	%99.947917	Active
9	PMA4	X	-0.003	%20.520833	Active
10	PMA4	Z	0.005	%20.520833	Active
11	PMA4	X	-0.003	%79.479167	Active
12	PMA4	Z	0.005	%79.479167	Active
13	PMA2	X	-0.002	%50	Active
14	PMA2	Z	0.003	%50	Active
15	PMA2	X	-0.001	%50	Active
16	PMA2	Z	0.002	%50	Active
17	PMA2	X	-0.000206	%50	Active
18	PMA2	Z	0.000356	%50	Active
19	PMA2	X	-0.001	%50	Active
20	PMA2	Z	0.002	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.003	%32.760417	Active
2	PMA1	Z	0.002	%32.760417	Active
3	PMA1	X	-0.003	%67.239583	Active
4	PMA1	Z	0.002	%67.239583	Active
5	PMA2	X	-0.007	%052083	Active
6	PMA2	Z	0.004	%052083	Active
7	PMA2	X	-0.007	%99.947917	Active
8	PMA2	Z	0.004	%99.947917	Active
9	PMA4	X	-0.004	%20.520833	Active
10	PMA4	Z	0.003	%20.520833	Active
11	PMA4	X	-0.004	%79.479167	Active
12	PMA4	Z	0.003	%79.479167	Active
13	PMA2	X	-0.002	%50	Active
14	PMA2	Z	0.001	%50	Active
15	PMA2	X	-0.002	%50	Active
16	PMA2	Z	0.000918	%50	Active
17	PMA2	X	-0.000235	%50	Active
18	PMA2	Z	0.000136	%50	Active
19	PMA2	X	-0.001	%50	Active
20	PMA2	Z	0.000749	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.002	%32.760417	Active
2	PMA1	X	-0.002	%67.239583	Active
3	PMA2	X	-0.005	%052083	Active
4	PMA2	X	-0.005	%99.947917	Active
5	PMA4	X	-0.005	%20.520833	Active
6	PMA4	X	-0.005	%79.479167	Active
7	PMA2	X	-0.003	%50	Active
8	PMA2	X	-0.001	%50	Active
9	PMA2	X	-0.000202	%50	Active
10	PMA2	X	-0.000998	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.003	%32.760417	Active
2	PMA1	Z	-0.002	%32.760417	Active
3	PMA1	X	-0.003	%67.239583	Active
4	PMA1	Z	-0.002	%67.239583	Active
5	PMA2	X	-0.007	%052083	Active
6	PMA2	Z	-0.004	%052083	Active
7	PMA2	X	-0.007	%99.947917	Active
8	PMA2	Z	-0.004	%99.947917	Active
9	PMA4	X	-0.004	%20.520833	Active
10	PMA4	Z	-0.003	%20.520833	Active
11	PMA4	X	-0.004	%79.479167	Active
12	PMA4	Z	-0.003	%79.479167	Active
13	PMA2	X	-0.002	%50	Active
14	PMA2	Z	-0.001	%50	Active
15	PMA2	X	-0.002	%50	Active
16	PMA2	Z	-0.000918	%50	Active
17	PMA2	X	-0.000235	%50	Active
18	PMA2	Z	-0.000136	%50	Active
19	PMA2	X	-0.001	%50	Active
20	PMA2	Z	-0.000749	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.002	%32.760417	Active
2	PMA1	Z	-0.004	%32.760417	Active
3	PMA1	X	-0.002	%67.239583	Active
4	PMA1	Z	-0.004	%67.239583	Active
5	PMA2	X	-0.006	%052083	Active
6	PMA2	Z	-0.011	%052083	Active
7	PMA2	X	-0.006	%99.947917	Active
8	PMA2	Z	-0.011	%99.947917	Active
9	PMA4	X	-0.003	%20.520833	Active
10	PMA4	Z	-0.005	%20.520833	Active
11	PMA4	X	-0.003	%79.479167	Active
12	PMA4	Z	-0.005	%79.479167	Active
13	PMA2	X	-0.002	%50	Active
14	PMA2	Z	-0.003	%50	Active
15	PMA2	X	-0.001	%50	Active
16	PMA2	Z	-0.002	%50	Active
17	PMA2	X	-0.000206	%50	Active
18	PMA2	Z	-0.000356	%50	Active
19	PMA2	X	-0.001	%50	Active
20	PMA2	Z	-0.002	%50	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Y	-0.052	%32.760417	Active
2	PMA1	Y	-0.052	%67.239583	Active
3	PMA2	Y	-0.061	%052083	Active
4	PMA2	Y	-0.061	%99.947917	Active
5	PMA4	Y	-0.066	%20.520833	Active
6	PMA4	Y	-0.066	%79.479167	Active
7	PMA2	Y	-0.075	%50	Active
8	PMA2	Y	-0.044	%50	Active
9	PMA2	Y	-0.006	%50	Active
10	PMA2	Y	-0.02	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Y	-0.045	%32.760417	Active
2	PMA1	Y	-0.045	%67.239583	Active
3	PMA2	Y	-0.147	%052083	Active
4	PMA2	Y	-0.147	%99.947917	Active
5	PMA4	Y	-0.055	%20.520833	Active
6	PMA4	Y	-0.055	%79.479167	Active
7	PMA2	Y	-0.031	%50	Active
8	PMA2	Y	-0.027	%50	Active
9	PMA2	Y	-0.004	%50	Active
10	PMA2	Y	-0.027	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA4	Y	-0.5	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA3	Y	-0.5	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA2	Y	-0.5	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Y	-0.5	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	Y	-0.25	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	Y	-0.25	0	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	Y	-0.25	%100	Active



Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M6	Y	-0.25	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M6	Y	-0.25	0	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M6	Y	-0.25	%100	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M14	Y	-0.25	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M14	Y	-0.25	0	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M14	Y	-0.25	%100	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M15	Y	-0.25	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M15	Y	-0.25	0	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M15	Y	-0.25	%100	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M16	Y	-0.25	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M16	Y	-0.25	0	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M16	Y	-0.25	%100	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M17	Y	-0.25	%50	Active



Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M17	Y	-0.25	0	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M17	Y	-0.25	%100	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M18	Y	-0.25	%50	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M18	Y	-0.25	0	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M18	Y	-0.25	%100	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M19	Y	-0.25	%50	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M19	Y	-0.25	0	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M19	Y	-0.25	%100	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M37	Y	-0.25	%50	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M37	Y	-0.25	0	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M37	Y	-0.25	%100	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M39	Y	-0.25	%50	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M39	Y	-0.25	0	Active



Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 M39	Y	-0.25	%100	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 PMA1	Z	-0.007	%32.760417	Active
2 PMA1	Z	-0.007	%67.239583	Active
3 PMA2	Z	-0.008	%0.052083	Active
4 PMA2	Z	-0.008	%99.947917	Active
5 PMA4	Z	-0.009	%20.520833	Active
6 PMA4	Z	-0.009	%79.479167	Active
7 PMA2	Z	-0.01	%50	Active
8 PMA2	Z	-0.006	%50	Active
9 PMA2	Z	-0.0008	%50	Active
10 PMA2	Z	-0.003	%50	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 PMA1	X	0.003	%32.760417	Active
2 PMA1	Z	-0.006	%32.760417	Active
3 PMA1	X	0.003	%67.239583	Active
4 PMA1	Z	-0.006	%67.239583	Active
5 PMA2	X	0.004	%0.052083	Active
6 PMA2	Z	-0.007	%0.052083	Active
7 PMA2	X	0.004	%99.947917	Active
8 PMA2	Z	-0.007	%99.947917	Active
9 PMA4	X	0.004	%20.520833	Active
10 PMA4	Z	-0.007	%20.520833	Active
11 PMA4	X	0.004	%79.479167	Active
12 PMA4	Z	-0.007	%79.479167	Active
13 PMA2	X	0.005	%50	Active
14 PMA2	Z	-0.008	%50	Active
15 PMA2	X	0.003	%50	Active
16 PMA2	Z	-0.005	%50	Active
17 PMA2	X	0.0004	%50	Active
18 PMA2	Z	-0.000693	%50	Active
19 PMA2	X	0.001	%50	Active
20 PMA2	Z	-0.002	%50	Active

Member Point Loads

Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1 PMA1	X	0.006	%32.760417	Active
2 PMA1	Z	-0.003	%32.760417	Active
3 PMA1	X	0.006	%67.239583	Active
4 PMA1	Z	-0.003	%67.239583	Active
5 PMA2	X	0.007	%0.052083	Active
6 PMA2	Z	-0.004	%0.052083	Active
7 PMA2	X	0.007	%99.947917	Active
8 PMA2	Z	-0.004	%99.947917	Active
9 PMA4	X	0.007	%20.520833	Active
10 PMA4	Z	-0.004	%20.520833	Active
11 PMA4	X	0.007	%79.479167	Active
12 PMA4	Z	-0.004	%79.479167	Active
13 PMA2	X	0.008	%50	Active
14 PMA2	Z	-0.005	%50	Active
15 PMA2	X	0.005	%50	Active
16 PMA2	Z	-0.003	%50	Active
17 PMA2	X	0.000693	%50	Active

Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
18	PMA2	Z	-0.0004	%50	Active
19	PMA2	X	0.002	%50	Active
20	PMA2	Z	-0.001	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.007	%32.760417	Active
2	PMA1	X	0.007	%67.239583	Active
3	PMA2	X	0.008	%0.052083	Active
4	PMA2	X	0.008	%99.947917	Active
5	PMA4	X	0.009	%20.520833	Active
6	PMA4	X	0.009	%79.479167	Active
7	PMA2	X	0.01	%50	Active
8	PMA2	X	0.006	%50	Active
9	PMA2	X	0.0008	%50	Active
10	PMA2	X	0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.006	%32.760417	Active
2	PMA1	Z	0.003	%32.760417	Active
3	PMA1	X	0.006	%67.239583	Active
4	PMA1	Z	0.003	%67.239583	Active
5	PMA2	X	0.007	%0.052083	Active
6	PMA2	Z	0.004	%0.052083	Active
7	PMA2	X	0.007	%99.947917	Active
8	PMA2	Z	0.004	%99.947917	Active
9	PMA4	X	0.007	%20.520833	Active
10	PMA4	Z	0.004	%20.520833	Active
11	PMA4	X	0.007	%79.479167	Active
12	PMA4	Z	0.004	%79.479167	Active
13	PMA2	X	0.008	%50	Active
14	PMA2	Z	0.005	%50	Active
15	PMA2	X	0.005	%50	Active
16	PMA2	Z	0.003	%50	Active
17	PMA2	X	0.000693	%50	Active
18	PMA2	Z	0.0004	%50	Active
19	PMA2	X	0.002	%50	Active
20	PMA2	Z	0.001	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.003	%32.760417	Active
2	PMA1	Z	0.006	%32.760417	Active
3	PMA1	X	0.003	%67.239583	Active
4	PMA1	Z	0.006	%67.239583	Active
5	PMA2	X	0.004	%0.052083	Active
6	PMA2	Z	0.007	%0.052083	Active
7	PMA2	X	0.004	%99.947917	Active
8	PMA2	Z	0.007	%99.947917	Active
9	PMA4	X	0.004	%20.520833	Active
10	PMA4	Z	0.007	%20.520833	Active
11	PMA4	X	0.004	%79.479167	Active
12	PMA4	Z	0.007	%79.479167	Active
13	PMA2	X	0.005	%50	Active
14	PMA2	Z	0.008	%50	Active
15	PMA2	X	0.003	%50	Active



Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
16	PMA2	Z	0.005	%50	Active
17	PMA2	X	0.0004	%50	Active
18	PMA2	Z	0.000693	%50	Active
19	PMA2	X	0.001	%50	Active
20	PMA2	Z	0.002	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	0.007	%32.760417	Active
2	PMA1	Z	0.007	%67.239583	Active
3	PMA2	Z	0.008	%.052083	Active
4	PMA2	Z	0.008	%99.947917	Active
5	PMA4	Z	0.009	%20.520833	Active
6	PMA4	Z	0.009	%79.479167	Active
7	PMA2	Z	0.01	%50	Active
8	PMA2	Z	0.006	%50	Active
9	PMA2	Z	0.0008	%50	Active
10	PMA2	Z	0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.003	%32.760417	Active
2	PMA1	Z	0.006	%32.760417	Active
3	PMA1	X	-0.003	%67.239583	Active
4	PMA1	Z	0.006	%67.239583	Active
5	PMA2	X	-0.004	%.052083	Active
6	PMA2	Z	0.007	%.052083	Active
7	PMA2	X	-0.004	%99.947917	Active
8	PMA2	Z	0.007	%99.947917	Active
9	PMA4	X	-0.004	%20.520833	Active
10	PMA4	Z	0.007	%20.520833	Active
11	PMA4	X	-0.004	%79.479167	Active
12	PMA4	Z	0.007	%79.479167	Active
13	PMA2	X	-0.005	%50	Active
14	PMA2	Z	0.008	%50	Active
15	PMA2	X	-0.003	%50	Active
16	PMA2	Z	0.005	%50	Active
17	PMA2	X	-0.0004	%50	Active
18	PMA2	Z	0.000693	%50	Active
19	PMA2	X	-0.001	%50	Active
20	PMA2	Z	0.002	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.006	%32.760417	Active
2	PMA1	Z	0.003	%32.760417	Active
3	PMA1	X	-0.006	%67.239583	Active
4	PMA1	Z	0.003	%67.239583	Active
5	PMA2	X	-0.007	%.052083	Active
6	PMA2	Z	0.004	%.052083	Active
7	PMA2	X	-0.007	%99.947917	Active
8	PMA2	Z	0.004	%99.947917	Active
9	PMA4	X	-0.007	%20.520833	Active
10	PMA4	Z	0.004	%20.520833	Active
11	PMA4	X	-0.007	%79.479167	Active
12	PMA4	Z	0.004	%79.479167	Active
13	PMA2	X	-0.008	%50	Active

Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
14	PMA2	Z	0.005	%50	Active
15	PMA2	X	-0.005	%50	Active
16	PMA2	Z	0.003	%50	Active
17	PMA2	X	-0.000693	%50	Active
18	PMA2	Z	0.0004	%50	Active
19	PMA2	X	-0.002	%50	Active
20	PMA2	Z	0.001	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.007	%32.760417	Active
2	PMA1	X	-0.007	%67.239583	Active
3	PMA2	X	-0.008	%0.052083	Active
4	PMA2	X	-0.008	%99.947917	Active
5	PMA4	X	-0.009	%20.520833	Active
6	PMA4	X	-0.009	%79.479167	Active
7	PMA2	X	-0.01	%50	Active
8	PMA2	X	-0.006	%50	Active
9	PMA2	X	-0.0008	%50	Active
10	PMA2	X	-0.003	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.006	%32.760417	Active
2	PMA1	Z	-0.003	%32.760417	Active
3	PMA1	X	-0.006	%67.239583	Active
4	PMA1	Z	-0.003	%67.239583	Active
5	PMA2	X	-0.007	%0.052083	Active
6	PMA2	Z	-0.004	%0.052083	Active
7	PMA2	X	-0.007	%99.947917	Active
8	PMA2	Z	-0.004	%99.947917	Active
9	PMA4	X	-0.007	%20.520833	Active
10	PMA4	Z	-0.004	%20.520833	Active
11	PMA4	X	-0.007	%79.479167	Active
12	PMA4	Z	-0.004	%79.479167	Active
13	PMA2	X	-0.008	%50	Active
14	PMA2	Z	-0.005	%50	Active
15	PMA2	X	-0.005	%50	Active
16	PMA2	Z	-0.003	%50	Active
17	PMA2	X	-0.000693	%50	Active
18	PMA2	Z	-0.0004	%50	Active
19	PMA2	X	-0.002	%50	Active
20	PMA2	Z	-0.001	%50	Active

Member Point Loads

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.003	%32.760417	Active
2	PMA1	Z	-0.006	%32.760417	Active
3	PMA1	X	-0.003	%67.239583	Active
4	PMA1	Z	-0.006	%67.239583	Active
5	PMA2	X	-0.004	%0.052083	Active
6	PMA2	Z	-0.007	%0.052083	Active
7	PMA2	X	-0.004	%99.947917	Active
8	PMA2	Z	-0.007	%99.947917	Active
9	PMA4	X	-0.004	%20.520833	Active
10	PMA4	Z	-0.007	%20.520833	Active
11	PMA4	X	-0.004	%79.479167	Active

Member Point Loads (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
12	PMA4	Z	-0.007	%79.479167	Active
13	PMA2	X	-0.005	%50	Active
14	PMA2	Z	-0.008	%50	Active
15	PMA2	X	-0.003	%50	Active
16	PMA2	Z	-0.005	%50	Active
17	PMA2	X	-0.0004	%50	Active
18	PMA2	Z	-0.000693	%50	Active
19	PMA2	X	-0.001	%50	Active
20	PMA2	Z	-0.002	%50	Active

Member Distributed Loads

	Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	Z	-0.006	-0.006	0	%32.760417	Active
2	PMA1	Z	-0.006	-0.006	%67.239583	%100	Active
3	PMA2	Z	-0.006	-0.006	0	%052083	Active
4	PMA2	Z	-0.006	-0.006	%99.947917	%100	Active
5	PMA4	Z	-0.006	-0.006	0	%20.520833	Active
6	PMA4	Z	-0.006	-0.006	%79.479167	%100	Active
7	PMA3	Z	-0.007	-0.007	0	%100	Active
8	M4	PZ	-0.01	-0.01	0	%100	Active
9	M6	PZ	-0.01	-0.01	0	%100	Active
10	TB A1	PZ	-0.007	-0.007	0	%100	Active
11	M14	PZ	-0.009	-0.009	0	%100	Active
12	M15	PZ	-0.009	-0.009	0	%100	Active
13	M16	PZ	-0.005	-0.005	0	%100	Active
14	M17	PZ	-0.005	-0.005	0	%100	Active
15	M18	PZ	-0.005	-0.005	0	%100	Active
16	M19	PZ	-0.005	-0.005	0	%100	Active
17	M24	PZ	-0.002	-0.002	0	%100	Active
18	M25	PZ	-0.002	-0.002	0	%100	Active
19	M26	PZ	-0.002	-0.002	0	%100	Active
20	M27	PZ	-0.002	-0.002	0	%100	Active
21	M28	PZ	-0.002	-0.002	0	%100	Active
22	M29	PZ	-0.002	-0.002	0	%100	Active
23	M30	PZ	-0.002	-0.002	0	%100	Active
24	M31	PZ	-0.002	-0.002	0	%100	Active
25	TB A2	PZ	-0.005	-0.005	0	%100	Active
26	M37	PZ	-0.01	-0.01	0	%100	Active
27	M39	PZ	-0.01	-0.01	0	%100	Active

Member Distributed Loads

	Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.004	0.004	0	%100	Active
2	PMA1	Z	-0.006	-0.006	0	%100	Active
3	PMA2	X	0.004	0.004	0	%100	Active
4	PMA2	Z	-0.006	-0.006	0	%100	Active
5	PMA4	X	0.004	0.004	0	%100	Active
6	PMA4	Z	-0.006	-0.006	0	%100	Active
7	PMA3	X	0.004	0.004	0	%100	Active
8	PMA3	Z	-0.006	-0.006	0	%100	Active
9	M4	PX	0.005	0.005	0	%100	Active
10	M4	PZ	-0.009	-0.009	0	%100	Active
11	M6	PX	0.005	0.005	0	%100	Active
12	M6	PZ	-0.009	-0.009	0	%100	Active
13	TB A1	PX	0.004	0.004	0	%100	Active
14	TB A1	PZ	-0.006	-0.006	0	%100	Active
15	M14	PX	0.004	0.004	0	%100	Active
16	M14	PZ	-0.007	-0.007	0	%100	Active

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
16	M14	PZ	-0.007	-0.007	0	%100	Active
17	M15	PX	0.004	0.004	0	%100	Active
18	M15	PZ	-0.007	-0.007	0	%100	Active
19	M16	PX	0.002	0.002	0	%100	Active
20	M16	PZ	-0.004	-0.004	0	%100	Active
21	M17	PX	0.002	0.002	0	%100	Active
22	M17	PZ	-0.004	-0.004	0	%100	Active
23	M18	PX	0.003	0.003	0	%100	Active
24	M18	PZ	-0.005	-0.005	0	%100	Active
25	M19	PX	0.003	0.003	0	%100	Active
26	M19	PZ	-0.005	-0.005	0	%100	Active
27	M24	PX	0.000932	0.000932	0	%100	Active
28	M24	PZ	-0.002	-0.002	0	%100	Active
29	M25	PX	0.000932	0.000932	0	%100	Active
30	M25	PZ	-0.002	-0.002	0	%100	Active
31	M26	PX	0.000932	0.000932	0	%100	Active
32	M26	PZ	-0.002	-0.002	0	%100	Active
33	M27	PX	0.000932	0.000932	0	%100	Active
34	M27	PZ	-0.002	-0.002	0	%100	Active
35	M28	PX	0.001	0.001	0	%100	Active
36	M28	PZ	-0.002	-0.002	0	%100	Active
37	M29	PX	0.001	0.001	0	%100	Active
38	M29	PZ	-0.002	-0.002	0	%100	Active
39	M30	PX	0.000787	0.000787	0	%100	Active
40	M30	PZ	-0.001	-0.001	0	%100	Active
41	M31	PX	0.000787	0.000787	0	%100	Active
42	M31	PZ	-0.001	-0.001	0	%100	Active
43	TB A2	PX	0.003	0.003	0	%100	Active
44	TB A2	PZ	-0.005	-0.005	0	%100	Active
45	M37	PX	0.005	0.005	0	%100	Active
46	M37	PZ	-0.009	-0.009	0	%100	Active
47	M39	PX	0.005	0.005	0	%100	Active
48	M39	PZ	-0.009	-0.009	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.006	0.006	0	%100	Active
2	PMA1	Z	-0.004	-0.004	0	%100	Active
3	PMA2	X	0.006	0.006	0	%100	Active
4	PMA2	Z	-0.004	-0.004	0	%100	Active
5	PMA4	X	0.006	0.006	0	%100	Active
6	PMA4	Z	-0.004	-0.004	0	%100	Active
7	PMA3	X	0.006	0.006	0	%100	Active
8	PMA3	Z	-0.004	-0.004	0	%100	Active
9	M4	PX	0.009	0.009	0	%100	Active
10	M4	PZ	-0.005	-0.005	0	%100	Active
11	M6	PX	0.009	0.009	0	%100	Active
12	M6	PZ	-0.005	-0.005	0	%100	Active
13	TB A1	PX	0.006	0.006	0	%100	Active
14	TB A1	PZ	-0.004	-0.004	0	%100	Active
15	M14	PX	0.007	0.007	0	%100	Active
16	M14	PZ	-0.004	-0.004	0	%100	Active
17	M15	PX	0.007	0.007	0	%100	Active
18	M15	PZ	-0.004	-0.004	0	%100	Active
19	M16	PX	0.004	0.004	0	%100	Active
20	M16	PZ	-0.002	-0.002	0	%100	Active
21	M17	PX	0.004	0.004	0	%100	Active
22	M17	PZ	-0.002	-0.002	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
23	M18	PX	0.005	0.005	0	%100	Active
24	M18	PZ	-0.003	-0.003	0	%100	Active
25	M19	PX	0.005	0.005	0	%100	Active
26	M19	PZ	-0.003	-0.003	0	%100	Active
27	M24	PX	0.002	0.002	0	%100	Active
28	M24	PZ	-0.000932	-0.000932	0	%100	Active
29	M25	PX	0.002	0.002	0	%100	Active
30	M25	PZ	-0.000932	-0.000932	0	%100	Active
31	M26	PX	0.002	0.002	0	%100	Active
32	M26	PZ	-0.000932	-0.000932	0	%100	Active
33	M27	PX	0.002	0.002	0	%100	Active
34	M27	PZ	-0.000932	-0.000932	0	%100	Active
35	M28	PX	0.002	0.002	0	%100	Active
36	M28	PZ	-0.001	-0.001	0	%100	Active
37	M29	PX	0.002	0.002	0	%100	Active
38	M29	PZ	-0.001	-0.001	0	%100	Active
39	M30	PX	0.001	0.001	0	%100	Active
40	M30	PZ	-0.000781	-0.000781	0	%100	Active
41	M31	PX	0.001	0.001	0	%100	Active
42	M31	PZ	-0.000781	-0.000781	0	%100	Active
43	TB A2	PX	0.004	0.004	0	%100	Active
44	TB A2	PZ	-0.003	-0.003	0	%100	Active
45	M37	PX	0.009	0.009	0	%100	Active
46	M37	PZ	-0.005	-0.005	0	%100	Active
47	M39	PX	0.009	0.009	0	%100	Active
48	M39	PZ	-0.005	-0.005	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.007	0.007	0	%100	Active
2	PMA2	X	0.007	0.007	0	%100	Active
3	PMA4	X	0.007	0.007	0	%100	Active
4	PMA3	X	0.007	0.007	0	%100	Active
5	M4	PX	0.01	0.01	0	%100	Active
6	M6	PX	0.01	0.01	0	%100	Active
7	TB A1	PX	0.007	0.007	0	%100	Active
8	M14	PX	0.005	0.005	0	%100	Active
9	M15	PX	0.005	0.005	0	%100	Active
10	M16	PX	0.005	0.005	0	%100	Active
11	M17	PX	0.005	0.005	0	%100	Active
12	M18	PX	0.005	0.005	0	%100	Active
13	M19	PX	0.005	0.005	0	%100	Active
14	M24	PX	0.002	0.002	0	%100	Active
15	M25	PX	0.002	0.002	0	%100	Active
16	M26	PX	0.002	0.002	0	%100	Active
17	M27	PX	0.002	0.002	0	%100	Active
18	M28	PX	0.002	0.002	0	%100	Active
19	M29	PX	0.002	0.002	0	%100	Active
20	M30	PX	0.002	0.002	0	%100	Active
21	M31	PX	0.002	0.002	0	%100	Active
22	TB A2	PX	0.004	0.004	0	%100	Active
23	M37	PX	0.01	0.01	0	%100	Active
24	M39	PX	0.01	0.01	0	%100	Active



Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.006	0.006	0	%100	Active
2	PMA1	Z	0.004	0.004	0	%100	Active
3	PMA2	X	0.006	0.006	0	%100	Active
4	PMA2	Z	0.004	0.004	0	%100	Active
5	PMA4	X	0.006	0.006	0	%100	Active
6	PMA4	Z	0.004	0.004	0	%100	Active
7	PMA3	X	0.006	0.006	0	%100	Active
8	PMA3	Z	0.004	0.004	0	%100	Active
9	M4	PX	0.009	0.009	0	%100	Active
10	M4	PZ	0.005	0.005	0	%100	Active
11	M6	PX	0.009	0.009	0	%100	Active
12	M6	PZ	0.005	0.005	0	%100	Active
13	TB A1	PX	0.004	0.004	0	%100	Active
14	TB A1	PZ	0.003	0.003	0	%100	Active
15	M14	PX	0.007	0.007	0	%100	Active
16	M14	PZ	0.004	0.004	0	%100	Active
17	M15	PX	0.007	0.007	0	%100	Active
18	M15	PZ	0.004	0.004	0	%100	Active
19	M16	PX	0.005	0.005	0	%100	Active
20	M16	PZ	0.003	0.003	0	%100	Active
21	M17	PX	0.005	0.005	0	%100	Active
22	M17	PZ	0.003	0.003	0	%100	Active
23	M18	PX	0.004	0.004	0	%100	Active
24	M18	PZ	0.002	0.002	0	%100	Active
25	M19	PX	0.004	0.004	0	%100	Active
26	M19	PZ	0.002	0.002	0	%100	Active
27	M24	PX	0.002	0.002	0	%100	Active
28	M24	PZ	0.000932	0.000932	0	%100	Active
29	M25	PX	0.002	0.002	0	%100	Active
30	M25	PZ	0.000932	0.000932	0	%100	Active
31	M26	PX	0.002	0.002	0	%100	Active
32	M26	PZ	0.000932	0.000932	0	%100	Active
33	M27	PX	0.002	0.002	0	%100	Active
34	M27	PZ	0.000932	0.000932	0	%100	Active
35	M28	PX	0.001	0.001	0	%100	Active
36	M28	PZ	0.000781	0.000781	0	%100	Active
37	M29	PX	0.001	0.001	0	%100	Active
38	M29	PZ	0.000781	0.000781	0	%100	Active
39	M30	PX	0.002	0.002	0	%100	Active
40	M30	PZ	0.001	0.001	0	%100	Active
41	M31	PX	0.002	0.002	0	%100	Active
42	M31	PZ	0.001	0.001	0	%100	Active
43	TB A2	PX	0.004	0.004	0	%100	Active
44	TB A2	PZ	0.002	0.002	0	%100	Active
45	M37	PX	0.009	0.009	0	%100	Active
46	M37	PZ	0.005	0.005	0	%100	Active
47	M39	PX	0.009	0.009	0	%100	Active
48	M39	PZ	0.005	0.005	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.004	0.004	0	%100	Active
2	PMA1	Z	0.006	0.006	0	%100	Active
3	PMA2	X	0.004	0.004	0	%100	Active
4	PMA2	Z	0.006	0.006	0	%100	Active
5	PMA4	X	0.004	0.004	0	%100	Active
6	PMA4	Z	0.006	0.006	0	%100	Active
7	PMA3	X	0.004	0.004	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
8	PMA3	Z	0.006	0.006	0	%100	Active
9	M4	PX	0.005	0.005	0	%100	Active
10	M4	PZ	0.009	0.009	0	%100	Active
11	M6	PX	0.005	0.005	0	%100	Active
12	M6	PZ	0.009	0.009	0	%100	Active
13	TB A1	PX	0.003	0.003	0	%100	Active
14	TB A1	PZ	0.005	0.005	0	%100	Active
15	M14	PX	0.004	0.004	0	%100	Active
16	M14	PZ	0.007	0.007	0	%100	Active
17	M15	PX	0.004	0.004	0	%100	Active
18	M15	PZ	0.007	0.007	0	%100	Active
19	M16	PX	0.003	0.003	0	%100	Active
20	M16	PZ	0.005	0.005	0	%100	Active
21	M17	PX	0.003	0.003	0	%100	Active
22	M17	PZ	0.005	0.005	0	%100	Active
23	M18	PX	0.002	0.002	0	%100	Active
24	M18	PZ	0.004	0.004	0	%100	Active
25	M19	PX	0.002	0.002	0	%100	Active
26	M19	PZ	0.004	0.004	0	%100	Active
27	M24	PX	0.000932	0.000932	0	%100	Active
28	M24	PZ	0.002	0.002	0	%100	Active
29	M25	PX	0.000932	0.000932	0	%100	Active
30	M25	PZ	0.002	0.002	0	%100	Active
31	M26	PX	0.000932	0.000932	0	%100	Active
32	M26	PZ	0.002	0.002	0	%100	Active
33	M27	PX	0.000932	0.000932	0	%100	Active
34	M27	PZ	0.002	0.002	0	%100	Active
35	M28	PX	0.000787	0.000787	0	%100	Active
36	M28	PZ	0.001	0.001	0	%100	Active
37	M29	PX	0.000787	0.000787	0	%100	Active
38	M29	PZ	0.001	0.001	0	%100	Active
39	M30	PX	0.001	0.001	0	%100	Active
40	M30	PZ	0.002	0.002	0	%100	Active
41	M31	PX	0.001	0.001	0	%100	Active
42	M31	PZ	0.002	0.002	0	%100	Active
43	TB A2	PX	0.002	0.002	0	%100	Active
44	TB A2	PZ	0.004	0.004	0	%100	Active
45	M37	PX	0.005	0.005	0	%100	Active
46	M37	PZ	0.009	0.009	0	%100	Active
47	M39	PX	0.005	0.005	0	%100	Active
48	M39	PZ	0.009	0.009	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	Z	0.006	0.006	0	%32.760417	Active
2	PMA1	Z	0.006	0.006	%67.239583	%100	Active
3	PMA2	Z	0.006	0.006	0	%0.052083	Active
4	PMA2	Z	0.006	0.006	%99.947917	%100	Active
5	PMA4	Z	0.006	0.006	0	%20.520833	Active
6	PMA4	Z	0.006	0.006	%79.479167	%100	Active
7	PMA3	Z	0.007	0.007	0	%100	Active
8	M4	PZ	0.01	0.01	0	%100	Active
9	M6	PZ	0.01	0.01	0	%100	Active
10	TB A1	PZ	0.007	0.007	0	%100	Active
11	M14	PZ	0.009	0.009	0	%100	Active
12	M15	PZ	0.009	0.009	0	%100	Active
13	M16	PZ	0.005	0.005	0	%100	Active
14	M17	PZ	0.005	0.005	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
15	M18	PZ	0.005	0.005	0	%100	Active
16	M19	PZ	0.005	0.005	0	%100	Active
17	M24	PZ	0.002	0.002	0	%100	Active
18	M25	PZ	0.002	0.002	0	%100	Active
19	M26	PZ	0.002	0.002	0	%100	Active
20	M27	PZ	0.002	0.002	0	%100	Active
21	M28	PZ	0.002	0.002	0	%100	Active
22	M29	PZ	0.002	0.002	0	%100	Active
23	M30	PZ	0.002	0.002	0	%100	Active
24	M31	PZ	0.002	0.002	0	%100	Active
25	TB A2	PZ	0.005	0.005	0	%100	Active
26	M37	PZ	0.01	0.01	0	%100	Active
27	M39	PZ	0.01	0.01	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.004	-0.004	0	%100	Active
2	PMA1	Z	0.006	0.006	0	%100	Active
3	PMA2	X	-0.004	-0.004	0	%100	Active
4	PMA2	Z	0.006	0.006	0	%100	Active
5	PMA4	X	-0.004	-0.004	0	%100	Active
6	PMA4	Z	0.006	0.006	0	%100	Active
7	PMA3	X	-0.004	-0.004	0	%100	Active
8	PMA3	Z	0.006	0.006	0	%100	Active
9	M4	PX	-0.005	-0.005	0	%100	Active
10	M4	PZ	0.009	0.009	0	%100	Active
11	M6	PX	-0.005	-0.005	0	%100	Active
12	M6	PZ	0.009	0.009	0	%100	Active
13	TB A1	PX	-0.004	-0.004	0	%100	Active
14	TB A1	PZ	0.006	0.006	0	%100	Active
15	M14	PX	-0.004	-0.004	0	%100	Active
16	M14	PZ	0.007	0.007	0	%100	Active
17	M15	PX	-0.004	-0.004	0	%100	Active
18	M15	PZ	0.007	0.007	0	%100	Active
19	M16	PX	-0.002	-0.002	0	%100	Active
20	M16	PZ	0.004	0.004	0	%100	Active
21	M17	PX	-0.002	-0.002	0	%100	Active
22	M17	PZ	0.004	0.004	0	%100	Active
23	M18	PX	-0.003	-0.003	0	%100	Active
24	M18	PZ	0.005	0.005	0	%100	Active
25	M19	PX	-0.003	-0.003	0	%100	Active
26	M19	PZ	0.005	0.005	0	%100	Active
27	M24	PX	-0.000932	-0.000932	0	%100	Active
28	M24	PZ	0.002	0.002	0	%100	Active
29	M25	PX	-0.000932	-0.000932	0	%100	Active
30	M25	PZ	0.002	0.002	0	%100	Active
31	M26	PX	-0.000932	-0.000932	0	%100	Active
32	M26	PZ	0.002	0.002	0	%100	Active
33	M27	PX	-0.000932	-0.000932	0	%100	Active
34	M27	PZ	0.002	0.002	0	%100	Active
35	M28	PX	-0.001	-0.001	0	%100	Active
36	M28	PZ	0.002	0.002	0	%100	Active
37	M29	PX	-0.001	-0.001	0	%100	Active
38	M29	PZ	0.002	0.002	0	%100	Active
39	M30	PX	-0.000787	-0.000787	0	%100	Active
40	M30	PZ	0.001	0.001	0	%100	Active
41	M31	PX	-0.000787	-0.000787	0	%100	Active
42	M31	PZ	0.001	0.001	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
43	TB A2	PX	-0.003	-0.003	0	%100	Active
44	TB A2	PZ	0.005	0.005	0	%100	Active
45	M37	PX	-0.005	-0.005	0	%100	Active
46	M37	PZ	0.009	0.009	0	%100	Active
47	M39	PX	-0.005	-0.005	0	%100	Active
48	M39	PZ	0.009	0.009	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.006	-0.006	0	%100	Active
2	PMA1	Z	0.004	0.004	0	%100	Active
3	PMA2	X	-0.006	-0.006	0	%100	Active
4	PMA2	Z	0.004	0.004	0	%100	Active
5	PMA4	X	-0.006	-0.006	0	%100	Active
6	PMA4	Z	0.004	0.004	0	%100	Active
7	PMA3	X	-0.006	-0.006	0	%100	Active
8	PMA3	Z	0.004	0.004	0	%100	Active
9	M4	PX	-0.009	-0.009	0	%100	Active
10	M4	PZ	0.005	0.005	0	%100	Active
11	M6	PX	-0.009	-0.009	0	%100	Active
12	M6	PZ	0.005	0.005	0	%100	Active
13	TB A1	PX	-0.006	-0.006	0	%100	Active
14	TB A1	PZ	0.004	0.004	0	%100	Active
15	M14	PX	-0.007	-0.007	0	%100	Active
16	M14	PZ	0.004	0.004	0	%100	Active
17	M15	PX	-0.007	-0.007	0	%100	Active
18	M15	PZ	0.004	0.004	0	%100	Active
19	M16	PX	-0.004	-0.004	0	%100	Active
20	M16	PZ	0.002	0.002	0	%100	Active
21	M17	PX	-0.004	-0.004	0	%100	Active
22	M17	PZ	0.002	0.002	0	%100	Active
23	M18	PX	-0.005	-0.005	0	%100	Active
24	M18	PZ	0.003	0.003	0	%100	Active
25	M19	PX	-0.005	-0.005	0	%100	Active
26	M19	PZ	0.003	0.003	0	%100	Active
27	M24	PX	-0.002	-0.002	0	%100	Active
28	M24	PZ	0.000932	0.000932	0	%100	Active
29	M25	PX	-0.002	-0.002	0	%100	Active
30	M25	PZ	0.000932	0.000932	0	%100	Active
31	M26	PX	-0.002	-0.002	0	%100	Active
32	M26	PZ	0.000932	0.000932	0	%100	Active
33	M27	PX	-0.002	-0.002	0	%100	Active
34	M27	PZ	0.000932	0.000932	0	%100	Active
35	M28	PX	-0.002	-0.002	0	%100	Active
36	M28	PZ	0.001	0.001	0	%100	Active
37	M29	PX	-0.002	-0.002	0	%100	Active
38	M29	PZ	0.001	0.001	0	%100	Active
39	M30	PX	-0.001	-0.001	0	%100	Active
40	M30	PZ	0.000781	0.000781	0	%100	Active
41	M31	PX	-0.001	-0.001	0	%100	Active
42	M31	PZ	0.000781	0.000781	0	%100	Active
43	TB A2	PX	-0.004	-0.004	0	%100	Active
44	TB A2	PZ	0.003	0.003	0	%100	Active
45	M37	PX	-0.009	-0.009	0	%100	Active
46	M37	PZ	0.005	0.005	0	%100	Active
47	M39	PX	-0.009	-0.009	0	%100	Active
48	M39	PZ	0.005	0.005	0	%100	Active



Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.007	-0.007	0	%100	Active
2	PMA2	X	-0.007	-0.007	0	%100	Active
3	PMA4	X	-0.007	-0.007	0	%100	Active
4	PMA3	X	-0.007	-0.007	0	%100	Active
5	M4	PX	-0.01	-0.01	0	%100	Active
6	M6	PX	-0.01	-0.01	0	%100	Active
7	TB A1	PX	-0.007	-0.007	0	%100	Active
8	M14	PX	-0.005	-0.005	0	%100	Active
9	M15	PX	-0.005	-0.005	0	%100	Active
10	M16	PX	-0.005	-0.005	0	%100	Active
11	M17	PX	-0.005	-0.005	0	%100	Active
12	M18	PX	-0.005	-0.005	0	%100	Active
13	M19	PX	-0.005	-0.005	0	%100	Active
14	M24	PX	-0.002	-0.002	0	%100	Active
15	M25	PX	-0.002	-0.002	0	%100	Active
16	M26	PX	-0.002	-0.002	0	%100	Active
17	M27	PX	-0.002	-0.002	0	%100	Active
18	M28	PX	-0.002	-0.002	0	%100	Active
19	M29	PX	-0.002	-0.002	0	%100	Active
20	M30	PX	-0.002	-0.002	0	%100	Active
21	M31	PX	-0.002	-0.002	0	%100	Active
22	TB A2	PX	-0.004	-0.004	0	%100	Active
23	M37	PX	-0.01	-0.01	0	%100	Active
24	M39	PX	-0.01	-0.01	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.006	-0.006	0	%100	Active
2	PMA1	Z	-0.004	-0.004	0	%100	Active
3	PMA2	X	-0.006	-0.006	0	%100	Active
4	PMA2	Z	-0.004	-0.004	0	%100	Active
5	PMA4	X	-0.006	-0.006	0	%100	Active
6	PMA4	Z	-0.004	-0.004	0	%100	Active
7	PMA3	X	-0.006	-0.006	0	%100	Active
8	PMA3	Z	-0.004	-0.004	0	%100	Active
9	M4	PX	-0.009	-0.009	0	%100	Active
10	M4	PZ	-0.005	-0.005	0	%100	Active
11	M6	PX	-0.009	-0.009	0	%100	Active
12	M6	PZ	-0.005	-0.005	0	%100	Active
13	TB A1	PX	-0.004	-0.004	0	%100	Active
14	TB A1	PZ	-0.003	-0.003	0	%100	Active
15	M14	PX	-0.007	-0.007	0	%100	Active
16	M14	PZ	-0.004	-0.004	0	%100	Active
17	M15	PX	-0.007	-0.007	0	%100	Active
18	M15	PZ	-0.004	-0.004	0	%100	Active
19	M16	PX	-0.005	-0.005	0	%100	Active
20	M16	PZ	-0.003	-0.003	0	%100	Active
21	M17	PX	-0.005	-0.005	0	%100	Active
22	M17	PZ	-0.003	-0.003	0	%100	Active
23	M18	PX	-0.004	-0.004	0	%100	Active
24	M18	PZ	-0.002	-0.002	0	%100	Active
25	M19	PX	-0.004	-0.004	0	%100	Active
26	M19	PZ	-0.002	-0.002	0	%100	Active
27	M24	PX	-0.002	-0.002	0	%100	Active
28	M24	PZ	-0.000932	-0.000932	0	%100	Active
29	M25	PX	-0.002	-0.002	0	%100	Active
30	M25	PZ	-0.000932	-0.000932	0	%100	Active
31	M26	PX	-0.002	-0.002	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
32	M26	PZ	-0.000932	-0.000932	0	%100	Active
33	M27	PX	-0.002	-0.002	0	%100	Active
34	M27	PZ	-0.000932	-0.000932	0	%100	Active
35	M28	PX	-0.001	-0.001	0	%100	Active
36	M28	PZ	-0.000781	-0.000781	0	%100	Active
37	M29	PX	-0.001	-0.001	0	%100	Active
38	M29	PZ	-0.000781	-0.000781	0	%100	Active
39	M30	PX	-0.002	-0.002	0	%100	Active
40	M30	PZ	-0.001	-0.001	0	%100	Active
41	M31	PX	-0.002	-0.002	0	%100	Active
42	M31	PZ	-0.001	-0.001	0	%100	Active
43	TB A2	PX	-0.004	-0.004	0	%100	Active
44	TB A2	PZ	-0.002	-0.002	0	%100	Active
45	M37	PX	-0.009	-0.009	0	%100	Active
46	M37	PZ	-0.005	-0.005	0	%100	Active
47	M39	PX	-0.009	-0.009	0	%100	Active
48	M39	PZ	-0.005	-0.005	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.004	-0.004	0	%100	Active
2	PMA1	Z	-0.006	-0.006	0	%100	Active
3	PMA2	X	-0.004	-0.004	0	%100	Active
4	PMA2	Z	-0.006	-0.006	0	%100	Active
5	PMA4	X	-0.004	-0.004	0	%100	Active
6	PMA4	Z	-0.006	-0.006	0	%100	Active
7	PMA3	X	-0.004	-0.004	0	%100	Active
8	PMA3	Z	-0.006	-0.006	0	%100	Active
9	M4	PX	-0.005	-0.005	0	%100	Active
10	M4	PZ	-0.009	-0.009	0	%100	Active
11	M6	PX	-0.005	-0.005	0	%100	Active
12	M6	PZ	-0.009	-0.009	0	%100	Active
13	TB A1	PX	-0.003	-0.003	0	%100	Active
14	TB A1	PZ	-0.005	-0.005	0	%100	Active
15	M14	PX	-0.004	-0.004	0	%100	Active
16	M14	PZ	-0.007	-0.007	0	%100	Active
17	M15	PX	-0.004	-0.004	0	%100	Active
18	M15	PZ	-0.007	-0.007	0	%100	Active
19	M16	PX	-0.003	-0.003	0	%100	Active
20	M16	PZ	-0.005	-0.005	0	%100	Active
21	M17	PX	-0.003	-0.003	0	%100	Active
22	M17	PZ	-0.005	-0.005	0	%100	Active
23	M18	PX	-0.002	-0.002	0	%100	Active
24	M18	PZ	-0.004	-0.004	0	%100	Active
25	M19	PX	-0.002	-0.002	0	%100	Active
26	M19	PZ	-0.004	-0.004	0	%100	Active
27	M24	PX	-0.000932	-0.000932	0	%100	Active
28	M24	PZ	-0.002	-0.002	0	%100	Active
29	M25	PX	-0.000932	-0.000932	0	%100	Active
30	M25	PZ	-0.002	-0.002	0	%100	Active
31	M26	PX	-0.000932	-0.000932	0	%100	Active
32	M26	PZ	-0.002	-0.002	0	%100	Active
33	M27	PX	-0.000932	-0.000932	0	%100	Active
34	M27	PZ	-0.002	-0.002	0	%100	Active
35	M28	PX	-0.000787	-0.000787	0	%100	Active
36	M28	PZ	-0.001	-0.001	0	%100	Active
37	M29	PX	-0.000787	-0.000787	0	%100	Active
38	M29	PZ	-0.001	-0.001	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
39	M30	PX	-0.001	-0.001	0	%100	Active
40	M30	PZ	-0.002	-0.002	0	%100	Active
41	M31	PX	-0.001	-0.001	0	%100	Active
42	M31	PZ	-0.002	-0.002	0	%100	Active
43	TB A2	PX	-0.002	-0.002	0	%100	Active
44	TB A2	PZ	-0.004	-0.004	0	%100	Active
45	M37	PX	-0.005	-0.005	0	%100	Active
46	M37	PZ	-0.009	-0.009	0	%100	Active
47	M39	PX	-0.005	-0.005	0	%100	Active
48	M39	PZ	-0.009	-0.009	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	Z	-0.002	-0.002	0	%32.760417	Active
2	PMA1	Z	-0.002	-0.002	%67.239583	%100	Active
3	PMA2	Z	-0.002	-0.002	0	%0.052083	Active
4	PMA2	Z	-0.002	-0.002	%99.947917	%100	Active
5	PMA4	Z	-0.002	-0.002	0	%20.520833	Active
6	PMA4	Z	-0.002	-0.002	%79.479167	%100	Active
7	PMA3	Z	-0.003	-0.003	0	%100	Active
8	M4	PZ	-0.003	-0.003	0	%100	Active
9	M6	PZ	-0.003	-0.003	0	%100	Active
10	TB A1	PZ	-0.003	-0.003	0	%100	Active
11	M14	PZ	-0.003	-0.003	0	%100	Active
12	M15	PZ	-0.003	-0.003	0	%100	Active
13	M16	PZ	-0.002	-0.002	0	%100	Active
14	M17	PZ	-0.002	-0.002	0	%100	Active
15	M18	PZ	-0.002	-0.002	0	%100	Active
16	M19	PZ	-0.002	-0.002	0	%100	Active
17	M24	PZ	-0.002	-0.002	0	%100	Active
18	M25	PZ	-0.002	-0.002	0	%100	Active
19	M26	PZ	-0.002	-0.002	0	%100	Active
20	M27	PZ	-0.002	-0.002	0	%100	Active
21	M28	PZ	-0.002	-0.002	0	%100	Active
22	M29	PZ	-0.002	-0.002	0	%100	Active
23	M30	PZ	-0.002	-0.002	0	%100	Active
24	M31	PZ	-0.002	-0.002	0	%100	Active
25	TB A2	PZ	-0.002	-0.002	0	%100	Active
26	M37	PZ	-0.003	-0.003	0	%100	Active
27	M39	PZ	-0.003	-0.003	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.001	0.001	0	%100	Active
2	PMA1	Z	-0.002	-0.002	0	%100	Active
3	PMA2	X	0.001	0.001	0	%100	Active
4	PMA2	Z	-0.002	-0.002	0	%100	Active
5	PMA4	X	0.001	0.001	0	%100	Active
6	PMA4	Z	-0.002	-0.002	0	%100	Active
7	PMA3	X	0.001	0.001	0	%100	Active
8	PMA3	Z	-0.002	-0.002	0	%100	Active
9	M4	PX	0.002	0.002	0	%100	Active
10	M4	PZ	-0.003	-0.003	0	%100	Active
11	M6	PX	0.002	0.002	0	%100	Active
12	M6	PZ	-0.003	-0.003	0	%100	Active
13	TB A1	PX	0.001	0.001	0	%100	Active
14	TB A1	PZ	-0.002	-0.002	0	%100	Active
15	M14	PX	0.001	0.001	0	%100	Active

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
15	M14	PX	0.001	0.001	0	%100 Active
16	M14	PZ	-0.002	-0.002	0	%100 Active
17	M15	PX	0.001	0.001	0	%100 Active
18	M15	PZ	-0.002	-0.002	0	%100 Active
19	M16	PX	0.000771	0.000771	0	%100 Active
20	M16	PZ	-0.001	-0.001	0	%100 Active
21	M17	PX	0.000771	0.000771	0	%100 Active
22	M17	PZ	-0.001	-0.001	0	%100 Active
23	M18	PX	0.000983	0.000983	0	%100 Active
24	M18	PZ	-0.002	-0.002	0	%100 Active
25	M19	PX	0.000983	0.000983	0	%100 Active
26	M19	PZ	-0.002	-0.002	0	%100 Active
27	M24	PX	0.000803	0.000803	0	%100 Active
28	M24	PZ	-0.001	-0.001	0	%100 Active
29	M25	PX	0.000803	0.000803	0	%100 Active
30	M25	PZ	-0.001	-0.001	0	%100 Active
31	M26	PX	0.000803	0.000803	0	%100 Active
32	M26	PZ	-0.001	-0.001	0	%100 Active
33	M27	PX	0.000803	0.000803	0	%100 Active
34	M27	PZ	-0.001	-0.001	0	%100 Active
35	M28	PX	0.000837	0.000837	0	%100 Active
36	M28	PZ	-0.001	-0.001	0	%100 Active
37	M29	PX	0.000837	0.000837	0	%100 Active
38	M29	PZ	-0.001	-0.001	0	%100 Active
39	M30	PX	0.000589	0.000589	0	%100 Active
40	M30	PZ	-0.001	-0.001	0	%100 Active
41	M31	PX	0.000589	0.000589	0	%100 Active
42	M31	PZ	-0.001	-0.001	0	%100 Active
43	TB A2	PX	0.000989	0.000989	0	%100 Active
44	TB A2	PZ	-0.002	-0.002	0	%100 Active
45	M37	PX	0.002	0.002	0	%100 Active
46	M37	PZ	-0.003	-0.003	0	%100 Active
47	M39	PX	0.002	0.002	0	%100 Active
48	M39	PZ	-0.003	-0.003	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.002	0.002	0	%100 Active
2	PMA1	Z	-0.001	-0.001	0	%100 Active
3	PMA2	X	0.002	0.002	0	%100 Active
4	PMA2	Z	-0.001	-0.001	0	%100 Active
5	PMA4	X	0.002	0.002	0	%100 Active
6	PMA4	Z	-0.001	-0.001	0	%100 Active
7	PMA3	X	0.002	0.002	0	%100 Active
8	PMA3	Z	-0.001	-0.001	0	%100 Active
9	M4	PX	0.003	0.003	0	%100 Active
10	M4	PZ	-0.002	-0.002	0	%100 Active
11	M6	PX	0.003	0.003	0	%100 Active
12	M6	PZ	-0.002	-0.002	0	%100 Active
13	TB A1	PX	0.002	0.002	0	%100 Active
14	TB A1	PZ	-0.001	-0.001	0	%100 Active
15	M14	PX	0.002	0.002	0	%100 Active
16	M14	PZ	-0.001	-0.001	0	%100 Active
17	M15	PX	0.002	0.002	0	%100 Active
18	M15	PZ	-0.001	-0.001	0	%100 Active
19	M16	PX	0.001	0.001	0	%100 Active
20	M16	PZ	-0.000768	-0.000768	0	%100 Active
21	M17	PX	0.001	0.001	0	%100 Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
22	M17	PZ	-0.000768	-0.000768	0	%100	Active
23	M18	PX	0.002	0.002	0	%100	Active
24	M18	PZ	-0.000982	-0.000982	0	%100	Active
25	M19	PX	0.002	0.002	0	%100	Active
26	M19	PZ	-0.000982	-0.000982	0	%100	Active
27	M24	PX	0.001	0.001	0	%100	Active
28	M24	PZ	-0.000803	-0.000803	0	%100	Active
29	M25	PX	0.001	0.001	0	%100	Active
30	M25	PZ	-0.000803	-0.000803	0	%100	Active
31	M26	PX	0.001	0.001	0	%100	Active
32	M26	PZ	-0.000803	-0.000803	0	%100	Active
33	M27	PX	0.001	0.001	0	%100	Active
34	M27	PZ	-0.000803	-0.000803	0	%100	Active
35	M28	PX	0.001	0.001	0	%100	Active
36	M28	PZ	-0.000837	-0.000837	0	%100	Active
37	M29	PX	0.001	0.001	0	%100	Active
38	M29	PZ	-0.000837	-0.000837	0	%100	Active
39	M30	PX	0.001	0.001	0	%100	Active
40	M30	PZ	-0.000584	-0.000584	0	%100	Active
41	M31	PX	0.001	0.001	0	%100	Active
42	M31	PZ	-0.000584	-0.000584	0	%100	Active
43	TB A2	PX	0.002	0.002	0	%100	Active
44	TB A2	PZ	-0.000933	-0.000933	0	%100	Active
45	M37	PX	0.003	0.003	0	%100	Active
46	M37	PZ	-0.002	-0.002	0	%100	Active
47	M39	PX	0.003	0.003	0	%100	Active
48	M39	PZ	-0.002	-0.002	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.003	0.003	0	%100	Active
2	PMA2	X	0.003	0.003	0	%100	Active
3	PMA4	X	0.003	0.003	0	%100	Active
4	PMA3	X	0.003	0.003	0	%100	Active
5	M4	PX	0.003	0.003	0	%100	Active
6	M6	PX	0.003	0.003	0	%100	Active
7	TB A1	PX	0.003	0.003	0	%100	Active
8	M14	PX	0.002	0.002	0	%100	Active
9	M15	PX	0.002	0.002	0	%100	Active
10	M16	PX	0.002	0.002	0	%100	Active
11	M17	PX	0.002	0.002	0	%100	Active
12	M18	PX	0.002	0.002	0	%100	Active
13	M19	PX	0.002	0.002	0	%100	Active
14	M24	PX	0.002	0.002	0	%100	Active
15	M25	PX	0.002	0.002	0	%100	Active
16	M26	PX	0.002	0.002	0	%100	Active
17	M27	PX	0.002	0.002	0	%100	Active
18	M28	PX	0.002	0.002	0	%100	Active
19	M29	PX	0.002	0.002	0	%100	Active
20	M30	PX	0.002	0.002	0	%100	Active
21	M31	PX	0.002	0.002	0	%100	Active
22	TB A2	PX	0.002	0.002	0	%100	Active
23	M37	PX	0.003	0.003	0	%100	Active
24	M39	PX	0.003	0.003	0	%100	Active



Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.002	0.002	0	%100 Active
2	PMA1	Z	0.001	0.001	0	%100 Active
3	PMA2	X	0.002	0.002	0	%100 Active
4	PMA2	Z	0.001	0.001	0	%100 Active
5	PMA4	X	0.002	0.002	0	%100 Active
6	PMA4	Z	0.001	0.001	0	%100 Active
7	PMA3	X	0.002	0.002	0	%100 Active
8	PMA3	Z	0.001	0.001	0	%100 Active
9	M4	PX	0.003	0.003	0	%100 Active
10	M4	PZ	0.002	0.002	0	%100 Active
11	M6	PX	0.003	0.003	0	%100 Active
12	M6	PZ	0.002	0.002	0	%100 Active
13	TB A1	PX	0.002	0.002	0	%100 Active
14	TB A1	PZ	0.000933	0.000933	0	%100 Active
15	M14	PX	0.002	0.002	0	%100 Active
16	M14	PZ	0.001	0.001	0	%100 Active
17	M15	PX	0.002	0.002	0	%100 Active
18	M15	PZ	0.001	0.001	0	%100 Active
19	M16	PX	0.002	0.002	0	%100 Active
20	M16	PZ	0.000982	0.000982	0	%100 Active
21	M17	PX	0.002	0.002	0	%100 Active
22	M17	PZ	0.000982	0.000982	0	%100 Active
23	M18	PX	0.001	0.001	0	%100 Active
24	M18	PZ	0.000768	0.000768	0	%100 Active
25	M19	PX	0.001	0.001	0	%100 Active
26	M19	PZ	0.000768	0.000768	0	%100 Active
27	M24	PX	0.001	0.001	0	%100 Active
28	M24	PZ	0.000803	0.000803	0	%100 Active
29	M25	PX	0.001	0.001	0	%100 Active
30	M25	PZ	0.000803	0.000803	0	%100 Active
31	M26	PX	0.001	0.001	0	%100 Active
32	M26	PZ	0.000803	0.000803	0	%100 Active
33	M27	PX	0.001	0.001	0	%100 Active
34	M27	PZ	0.000803	0.000803	0	%100 Active
35	M28	PX	0.001	0.001	0	%100 Active
36	M28	PZ	0.000584	0.000584	0	%100 Active
37	M29	PX	0.001	0.001	0	%100 Active
38	M29	PZ	0.000584	0.000584	0	%100 Active
39	M30	PX	0.001	0.001	0	%100 Active
40	M30	PZ	0.000837	0.000837	0	%100 Active
41	M31	PX	0.001	0.001	0	%100 Active
42	M31	PZ	0.000837	0.000837	0	%100 Active
43	TB A2	PX	0.001	0.001	0	%100 Active
44	TB A2	PZ	0.000751	0.000751	0	%100 Active
45	M37	PX	0.003	0.003	0	%100 Active
46	M37	PZ	0.002	0.002	0	%100 Active
47	M39	PX	0.003	0.003	0	%100 Active
48	M39	PZ	0.002	0.002	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	0.001	0.001	0	%100 Active
2	PMA1	Z	0.002	0.002	0	%100 Active
3	PMA2	X	0.001	0.001	0	%100 Active
4	PMA2	Z	0.002	0.002	0	%100 Active
5	PMA4	X	0.001	0.001	0	%100 Active
6	PMA4	Z	0.002	0.002	0	%100 Active
7	PMA3	X	0.001	0.001	0	%100 Active

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
8	PMA3	Z	0.002	0.002	0	%100	Active
9	M4	PX	0.002	0.002	0	%100	Active
10	M4	PZ	0.003	0.003	0	%100	Active
11	M6	PX	0.002	0.002	0	%100	Active
12	M6	PZ	0.003	0.003	0	%100	Active
13	TB A1	PX	0.001	0.001	0	%100	Active
14	TB A1	PZ	0.002	0.002	0	%100	Active
15	M14	PX	0.001	0.001	0	%100	Active
16	M14	PZ	0.002	0.002	0	%100	Active
17	M15	PX	0.001	0.001	0	%100	Active
18	M15	PZ	0.002	0.002	0	%100	Active
19	M16	PX	0.000983	0.000983	0	%100	Active
20	M16	PZ	0.002	0.002	0	%100	Active
21	M17	PX	0.000983	0.000983	0	%100	Active
22	M17	PZ	0.002	0.002	0	%100	Active
23	M18	PX	0.000771	0.000771	0	%100	Active
24	M18	PZ	0.001	0.001	0	%100	Active
25	M19	PX	0.000771	0.000771	0	%100	Active
26	M19	PZ	0.001	0.001	0	%100	Active
27	M24	PX	0.000803	0.000803	0	%100	Active
28	M24	PZ	0.001	0.001	0	%100	Active
29	M25	PX	0.000803	0.000803	0	%100	Active
30	M25	PZ	0.001	0.001	0	%100	Active
31	M26	PX	0.000803	0.000803	0	%100	Active
32	M26	PZ	0.001	0.001	0	%100	Active
33	M27	PX	0.000803	0.000803	0	%100	Active
34	M27	PZ	0.001	0.001	0	%100	Active
35	M28	PX	0.000589	0.000589	0	%100	Active
36	M28	PZ	0.001	0.001	0	%100	Active
37	M29	PX	0.000589	0.000589	0	%100	Active
38	M29	PZ	0.001	0.001	0	%100	Active
39	M30	PX	0.000837	0.000837	0	%100	Active
40	M30	PZ	0.001	0.001	0	%100	Active
41	M31	PX	0.000837	0.000837	0	%100	Active
42	M31	PZ	0.001	0.001	0	%100	Active
43	TB A2	PX	0.000868	0.000868	0	%100	Active
44	TB A2	PZ	0.002	0.002	0	%100	Active
45	M37	PX	0.002	0.002	0	%100	Active
46	M37	PZ	0.003	0.003	0	%100	Active
47	M39	PX	0.002	0.002	0	%100	Active
48	M39	PZ	0.003	0.003	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	Z	0.002	0.002	0	%32.760417	Active
2	PMA1	Z	0.002	0.002	%67.239583	%100	Active
3	PMA2	Z	0.002	0.002	0	%0.052083	Active
4	PMA2	Z	0.002	0.002	%99.947917	%100	Active
5	PMA4	Z	0.002	0.002	0	%20.520833	Active
6	PMA4	Z	0.002	0.002	%79.479167	%100	Active
7	PMA3	Z	0.003	0.003	0	%100	Active
8	M4	PZ	0.003	0.003	0	%100	Active
9	M6	PZ	0.003	0.003	0	%100	Active
10	TB A1	PZ	0.003	0.003	0	%100	Active
11	M14	PZ	0.003	0.003	0	%100	Active
12	M15	PZ	0.003	0.003	0	%100	Active
13	M16	PZ	0.002	0.002	0	%100	Active
14	M17	PZ	0.002	0.002	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
15	M18	PZ	0.002	0.002	0	%100	Active
16	M19	PZ	0.002	0.002	0	%100	Active
17	M24	PZ	0.002	0.002	0	%100	Active
18	M25	PZ	0.002	0.002	0	%100	Active
19	M26	PZ	0.002	0.002	0	%100	Active
20	M27	PZ	0.002	0.002	0	%100	Active
21	M28	PZ	0.002	0.002	0	%100	Active
22	M29	PZ	0.002	0.002	0	%100	Active
23	M30	PZ	0.002	0.002	0	%100	Active
24	M31	PZ	0.002	0.002	0	%100	Active
25	TB A2	PZ	0.002	0.002	0	%100	Active
26	M37	PZ	0.003	0.003	0	%100	Active
27	M39	PZ	0.003	0.003	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.001	-0.001	0	%100	Active
2	PMA1	Z	0.002	0.002	0	%100	Active
3	PMA2	X	-0.001	-0.001	0	%100	Active
4	PMA2	Z	0.002	0.002	0	%100	Active
5	PMA4	X	-0.001	-0.001	0	%100	Active
6	PMA4	Z	0.002	0.002	0	%100	Active
7	PMA3	X	-0.001	-0.001	0	%100	Active
8	PMA3	Z	0.002	0.002	0	%100	Active
9	M4	PX	-0.002	-0.002	0	%100	Active
10	M4	PZ	0.003	0.003	0	%100	Active
11	M6	PX	-0.002	-0.002	0	%100	Active
12	M6	PZ	0.003	0.003	0	%100	Active
13	TB A1	PX	-0.001	-0.001	0	%100	Active
14	TB A1	PZ	0.002	0.002	0	%100	Active
15	M14	PX	-0.001	-0.001	0	%100	Active
16	M14	PZ	0.002	0.002	0	%100	Active
17	M15	PX	-0.001	-0.001	0	%100	Active
18	M15	PZ	0.002	0.002	0	%100	Active
19	M16	PX	-0.000771	-0.000771	0	%100	Active
20	M16	PZ	0.001	0.001	0	%100	Active
21	M17	PX	-0.000771	-0.000771	0	%100	Active
22	M17	PZ	0.001	0.001	0	%100	Active
23	M18	PX	-0.000983	-0.000983	0	%100	Active
24	M18	PZ	0.002	0.002	0	%100	Active
25	M19	PX	-0.000983	-0.000983	0	%100	Active
26	M19	PZ	0.002	0.002	0	%100	Active
27	M24	PX	-0.000803	-0.000803	0	%100	Active
28	M24	PZ	0.001	0.001	0	%100	Active
29	M25	PX	-0.000803	-0.000803	0	%100	Active
30	M25	PZ	0.001	0.001	0	%100	Active
31	M26	PX	-0.000803	-0.000803	0	%100	Active
32	M26	PZ	0.001	0.001	0	%100	Active
33	M27	PX	-0.000803	-0.000803	0	%100	Active
34	M27	PZ	0.001	0.001	0	%100	Active
35	M28	PX	-0.000837	-0.000837	0	%100	Active
36	M28	PZ	0.001	0.001	0	%100	Active
37	M29	PX	-0.000837	-0.000837	0	%100	Active
38	M29	PZ	0.001	0.001	0	%100	Active
39	M30	PX	-0.000589	-0.000589	0	%100	Active
40	M30	PZ	0.001	0.001	0	%100	Active
41	M31	PX	-0.000589	-0.000589	0	%100	Active
42	M31	PZ	0.001	0.001	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
43	TB A2 PX	-0.000989	-0.000989	0	%100	Active
44	TB A2 PZ	0.002	0.002	0	%100	Active
45	M37 PX	-0.002	-0.002	0	%100	Active
46	M37 PZ	0.003	0.003	0	%100	Active
47	M39 PX	-0.002	-0.002	0	%100	Active
48	M39 PZ	0.003	0.003	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1 X	-0.002	-0.002	0	%100	Active
2	PMA1 Z	0.001	0.001	0	%100	Active
3	PMA2 X	-0.002	-0.002	0	%100	Active
4	PMA2 Z	0.001	0.001	0	%100	Active
5	PMA4 X	-0.002	-0.002	0	%100	Active
6	PMA4 Z	0.001	0.001	0	%100	Active
7	PMA3 X	-0.002	-0.002	0	%100	Active
8	PMA3 Z	0.001	0.001	0	%100	Active
9	M4 PX	-0.003	-0.003	0	%100	Active
10	M4 PZ	0.002	0.002	0	%100	Active
11	M6 PX	-0.003	-0.003	0	%100	Active
12	M6 PZ	0.002	0.002	0	%100	Active
13	TB A1 PX	-0.002	-0.002	0	%100	Active
14	TB A1 PZ	0.001	0.001	0	%100	Active
15	M14 PX	-0.002	-0.002	0	%100	Active
16	M14 PZ	0.001	0.001	0	%100	Active
17	M15 PX	-0.002	-0.002	0	%100	Active
18	M15 PZ	0.001	0.001	0	%100	Active
19	M16 PX	-0.001	-0.001	0	%100	Active
20	M16 PZ	0.000768	0.000768	0	%100	Active
21	M17 PX	-0.001	-0.001	0	%100	Active
22	M17 PZ	0.000768	0.000768	0	%100	Active
23	M18 PX	-0.002	-0.002	0	%100	Active
24	M18 PZ	0.000982	0.000982	0	%100	Active
25	M19 PX	-0.002	-0.002	0	%100	Active
26	M19 PZ	0.000982	0.000982	0	%100	Active
27	M24 PX	-0.001	-0.001	0	%100	Active
28	M24 PZ	0.000803	0.000803	0	%100	Active
29	M25 PX	-0.001	-0.001	0	%100	Active
30	M25 PZ	0.000803	0.000803	0	%100	Active
31	M26 PX	-0.001	-0.001	0	%100	Active
32	M26 PZ	0.000803	0.000803	0	%100	Active
33	M27 PX	-0.001	-0.001	0	%100	Active
34	M27 PZ	0.000803	0.000803	0	%100	Active
35	M28 PX	-0.001	-0.001	0	%100	Active
36	M28 PZ	0.000837	0.000837	0	%100	Active
37	M29 PX	-0.001	-0.001	0	%100	Active
38	M29 PZ	0.000837	0.000837	0	%100	Active
39	M30 PX	-0.001	-0.001	0	%100	Active
40	M30 PZ	0.000584	0.000584	0	%100	Active
41	M31 PX	-0.001	-0.001	0	%100	Active
42	M31 PZ	0.000584	0.000584	0	%100	Active
43	TB A2 PX	-0.002	-0.002	0	%100	Active
44	TB A2 PZ	0.000933	0.000933	0	%100	Active
45	M37 PX	-0.003	-0.003	0	%100	Active
46	M37 PZ	0.002	0.002	0	%100	Active
47	M39 PX	-0.003	-0.003	0	%100	Active
48	M39 PZ	0.002	0.002	0	%100	Active



Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.003	-0.003	0	%100	Active
2	PMA2	X	-0.003	-0.003	0	%100	Active
3	PMA4	X	-0.003	-0.003	0	%100	Active
4	PMA3	X	-0.003	-0.003	0	%100	Active
5	M4	PX	-0.003	-0.003	0	%100	Active
6	M6	PX	-0.003	-0.003	0	%100	Active
7	TB A1	PX	-0.003	-0.003	0	%100	Active
8	M14	PX	-0.002	-0.002	0	%100	Active
9	M15	PX	-0.002	-0.002	0	%100	Active
10	M16	PX	-0.002	-0.002	0	%100	Active
11	M17	PX	-0.002	-0.002	0	%100	Active
12	M18	PX	-0.002	-0.002	0	%100	Active
13	M19	PX	-0.002	-0.002	0	%100	Active
14	M24	PX	-0.002	-0.002	0	%100	Active
15	M25	PX	-0.002	-0.002	0	%100	Active
16	M26	PX	-0.002	-0.002	0	%100	Active
17	M27	PX	-0.002	-0.002	0	%100	Active
18	M28	PX	-0.002	-0.002	0	%100	Active
19	M29	PX	-0.002	-0.002	0	%100	Active
20	M30	PX	-0.002	-0.002	0	%100	Active
21	M31	PX	-0.002	-0.002	0	%100	Active
22	TB A2	PX	-0.002	-0.002	0	%100	Active
23	M37	PX	-0.003	-0.003	0	%100	Active
24	M39	PX	-0.003	-0.003	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.002	-0.002	0	%100	Active
2	PMA1	Z	-0.001	-0.001	0	%100	Active
3	PMA2	X	-0.002	-0.002	0	%100	Active
4	PMA2	Z	-0.001	-0.001	0	%100	Active
5	PMA4	X	-0.002	-0.002	0	%100	Active
6	PMA4	Z	-0.001	-0.001	0	%100	Active
7	PMA3	X	-0.002	-0.002	0	%100	Active
8	PMA3	Z	-0.001	-0.001	0	%100	Active
9	M4	PX	-0.003	-0.003	0	%100	Active
10	M4	PZ	-0.002	-0.002	0	%100	Active
11	M6	PX	-0.003	-0.003	0	%100	Active
12	M6	PZ	-0.002	-0.002	0	%100	Active
13	TB A1	PX	-0.002	-0.002	0	%100	Active
14	TB A1	PZ	-0.000933	-0.000933	0	%100	Active
15	M14	PX	-0.002	-0.002	0	%100	Active
16	M14	PZ	-0.001	-0.001	0	%100	Active
17	M15	PX	-0.002	-0.002	0	%100	Active
18	M15	PZ	-0.001	-0.001	0	%100	Active
19	M16	PX	-0.002	-0.002	0	%100	Active
20	M16	PZ	-0.000982	-0.000982	0	%100	Active
21	M17	PX	-0.002	-0.002	0	%100	Active
22	M17	PZ	-0.000982	-0.000982	0	%100	Active
23	M18	PX	-0.001	-0.001	0	%100	Active
24	M18	PZ	-0.000768	-0.000768	0	%100	Active
25	M19	PX	-0.001	-0.001	0	%100	Active
26	M19	PZ	-0.000768	-0.000768	0	%100	Active
27	M24	PX	-0.001	-0.001	0	%100	Active
28	M24	PZ	-0.000803	-0.000803	0	%100	Active
29	M25	PX	-0.001	-0.001	0	%100	Active
30	M25	PZ	-0.000803	-0.000803	0	%100	Active
31	M26	PX	-0.001	-0.001	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
32	M26	PZ	-0.000803	-0.000803	0	%100	Active
33	M27	PX	-0.001	-0.001	0	%100	Active
34	M27	PZ	-0.000803	-0.000803	0	%100	Active
35	M28	PX	-0.001	-0.001	0	%100	Active
36	M28	PZ	-0.000584	-0.000584	0	%100	Active
37	M29	PX	-0.001	-0.001	0	%100	Active
38	M29	PZ	-0.000584	-0.000584	0	%100	Active
39	M30	PX	-0.001	-0.001	0	%100	Active
40	M30	PZ	-0.000837	-0.000837	0	%100	Active
41	M31	PX	-0.001	-0.001	0	%100	Active
42	M31	PZ	-0.000837	-0.000837	0	%100	Active
43	TB A2	PX	-0.001	-0.001	0	%100	Active
44	TB A2	PZ	-0.000751	-0.000751	0	%100	Active
45	M37	PX	-0.003	-0.003	0	%100	Active
46	M37	PZ	-0.002	-0.002	0	%100	Active
47	M39	PX	-0.003	-0.003	0	%100	Active
48	M39	PZ	-0.002	-0.002	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.001	-0.001	0	%100	Active
2	PMA1	Z	-0.002	-0.002	0	%100	Active
3	PMA2	X	-0.001	-0.001	0	%100	Active
4	PMA2	Z	-0.002	-0.002	0	%100	Active
5	PMA4	X	-0.001	-0.001	0	%100	Active
6	PMA4	Z	-0.002	-0.002	0	%100	Active
7	PMA3	X	-0.001	-0.001	0	%100	Active
8	PMA3	Z	-0.002	-0.002	0	%100	Active
9	M4	PX	-0.002	-0.002	0	%100	Active
10	M4	PZ	-0.003	-0.003	0	%100	Active
11	M6	PX	-0.002	-0.002	0	%100	Active
12	M6	PZ	-0.003	-0.003	0	%100	Active
13	TB A1	PX	-0.001	-0.001	0	%100	Active
14	TB A1	PZ	-0.002	-0.002	0	%100	Active
15	M14	PX	-0.001	-0.001	0	%100	Active
16	M14	PZ	-0.002	-0.002	0	%100	Active
17	M15	PX	-0.001	-0.001	0	%100	Active
18	M15	PZ	-0.002	-0.002	0	%100	Active
19	M16	PX	-0.000983	-0.000983	0	%100	Active
20	M16	PZ	-0.002	-0.002	0	%100	Active
21	M17	PX	-0.000983	-0.000983	0	%100	Active
22	M17	PZ	-0.002	-0.002	0	%100	Active
23	M18	PX	-0.000771	-0.000771	0	%100	Active
24	M18	PZ	-0.001	-0.001	0	%100	Active
25	M19	PX	-0.000771	-0.000771	0	%100	Active
26	M19	PZ	-0.001	-0.001	0	%100	Active
27	M24	PX	-0.000803	-0.000803	0	%100	Active
28	M24	PZ	-0.001	-0.001	0	%100	Active
29	M25	PX	-0.000803	-0.000803	0	%100	Active
30	M25	PZ	-0.001	-0.001	0	%100	Active
31	M26	PX	-0.000803	-0.000803	0	%100	Active
32	M26	PZ	-0.001	-0.001	0	%100	Active
33	M27	PX	-0.000803	-0.000803	0	%100	Active
34	M27	PZ	-0.001	-0.001	0	%100	Active
35	M28	PX	-0.000589	-0.000589	0	%100	Active
36	M28	PZ	-0.001	-0.001	0	%100	Active
37	M29	PX	-0.000589	-0.000589	0	%100	Active
38	M29	PZ	-0.001	-0.001	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

2/10/2021
 6:36:54 PM
 Checked By : _____

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
39	M30	PX	-0.000837	-0.000837	0	%100	Active
40	M30	PZ	-0.001	-0.001	0	%100	Active
41	M31	PX	-0.000837	-0.000837	0	%100	Active
42	M31	PZ	-0.001	-0.001	0	%100	Active
43	TB A2	PX	-0.000868	-0.000868	0	%100	Active
44	TB A2	PZ	-0.002	-0.002	0	%100	Active
45	M37	PX	-0.002	-0.002	0	%100	Active
46	M37	PZ	-0.003	-0.003	0	%100	Active
47	M39	PX	-0.002	-0.002	0	%100	Active
48	M39	PZ	-0.003	-0.003	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	Z	-0.000395	-0.000395	0	%32.760417	Active
2	PMA1	Z	-0.000395	-0.000395	%67.239583	%100	Active
3	PMA2	Z	-0.000395	-0.000395	0	%0.052083	Active
4	PMA2	Z	-0.000395	-0.000395	%99.947917	%100	Active
5	PMA4	Z	-0.000395	-0.000395	0	%20.520833	Active
6	PMA4	Z	-0.000395	-0.000395	%79.479167	%100	Active
7	PMA3	Z	-0.000474	-0.000474	0	%100	Active
8	M4	PZ	-0.000698	-0.000698	0	%100	Active
9	M6	PZ	-0.000698	-0.000698	0	%100	Active
10	TB A1	PZ	-0.000474	-0.000474	0	%100	Active
11	M14	PZ	-0.000574	-0.000574	0	%100	Active
12	M15	PZ	-0.000574	-0.000574	0	%100	Active
13	M16	PZ	-0.000333	-0.000333	0	%100	Active
14	M17	PZ	-0.000333	-0.000333	0	%100	Active
15	M18	PZ	-0.000333	-0.000333	0	%100	Active
16	M19	PZ	-0.000333	-0.000333	0	%100	Active
17	M24	PZ	-0.000125	-0.000125	0	%100	Active
18	M25	PZ	-0.000125	-0.000125	0	%100	Active
19	M26	PZ	-0.000125	-0.000125	0	%100	Active
20	M27	PZ	-0.000125	-0.000125	0	%100	Active
21	M28	PZ	-0.000148	-0.000148	0	%100	Active
22	M29	PZ	-0.000148	-0.000148	0	%100	Active
23	M30	PZ	-0.000148	-0.000148	0	%100	Active
24	M31	PZ	-0.000148	-0.000148	0	%100	Active
25	TB A2	PZ	-0.000355	-0.000355	0	%100	Active
26	M37	PZ	-0.000698	-0.000698	0	%100	Active
27	M39	PZ	-0.000698	-0.000698	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.000237	0.000237	0	%100	Active
2	PMA1	Z	-0.00041	-0.00041	0	%100	Active
3	PMA2	X	0.000237	0.000237	0	%100	Active
4	PMA2	Z	-0.00041	-0.00041	0	%100	Active
5	PMA4	X	0.000237	0.000237	0	%100	Active
6	PMA4	Z	-0.00041	-0.00041	0	%100	Active
7	PMA3	X	0.000237	0.000237	0	%100	Active
8	PMA3	Z	-0.00041	-0.00041	0	%100	Active
9	M4	PX	0.000349	0.000349	0	%100	Active
10	M4	PZ	-0.000605	-0.000605	0	%100	Active
11	M6	PX	0.000349	0.000349	0	%100	Active
12	M6	PZ	-0.000605	-0.000605	0	%100	Active
13	TB A1	PX	0.000237	0.000237	0	%100	Active
14	TB A1	PZ	-0.00041	-0.00041	0	%100	Active
15	M14	PX	0.000287	0.000287	0	%100	Active

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
15	M14	PX	0.000287	0.000287	0	%100	Active
16	M14	PZ	-0.000497	-0.000497	0	%100	Active
17	M15	PX	0.000287	0.000287	0	%100	Active
18	M15	PZ	-0.000497	-0.000497	0	%100	Active
19	M16	PX	0.000142	0.000142	0	%100	Active
20	M16	PZ	-0.000246	-0.000246	0	%100	Active
21	M17	PX	0.000142	0.000142	0	%100	Active
22	M17	PZ	-0.000246	-0.000246	0	%100	Active
23	M18	PX	0.000181	0.000181	0	%100	Active
24	M18	PZ	-0.000313	-0.000313	0	%100	Active
25	M19	PX	0.000181	0.000181	0	%100	Active
26	M19	PZ	-0.000313	-0.000313	0	%100	Active
27	M24	PX	6.2e-05	6.2e-05	0	%100	Active
28	M24	PZ	-0.000108	-0.000108	0	%100	Active
29	M25	PX	6.2e-05	6.2e-05	0	%100	Active
30	M25	PZ	-0.000108	-0.000108	0	%100	Active
31	M26	PX	6.2e-05	6.2e-05	0	%100	Active
32	M26	PZ	-0.000108	-0.000108	0	%100	Active
33	M27	PX	6.2e-05	6.2e-05	0	%100	Active
34	M27	PZ	-0.000108	-0.000108	0	%100	Active
35	M28	PX	7.5e-05	7.5e-05	0	%100	Active
36	M28	PZ	-0.00013	-0.00013	0	%100	Active
37	M29	PX	7.5e-05	7.5e-05	0	%100	Active
38	M29	PZ	-0.00013	-0.00013	0	%100	Active
39	M30	PX	5.3e-05	5.3e-05	0	%100	Active
40	M30	PZ	-9.1e-05	-9.1e-05	0	%100	Active
41	M31	PX	5.3e-05	5.3e-05	0	%100	Active
42	M31	PZ	-9.1e-05	-9.1e-05	0	%100	Active
43	TB A2	PX	0.000182	0.000182	0	%100	Active
44	TB A2	PZ	-0.000315	-0.000315	0	%100	Active
45	M37	PX	0.000349	0.000349	0	%100	Active
46	M37	PZ	-0.000605	-0.000605	0	%100	Active
47	M39	PX	0.000349	0.000349	0	%100	Active
48	M39	PZ	-0.000605	-0.000605	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.00041	0.00041	0	%100	Active
2	PMA1	Z	-0.000237	-0.000237	0	%100	Active
3	PMA2	X	0.00041	0.00041	0	%100	Active
4	PMA2	Z	-0.000237	-0.000237	0	%100	Active
5	PMA4	X	0.00041	0.00041	0	%100	Active
6	PMA4	Z	-0.000237	-0.000237	0	%100	Active
7	PMA3	X	0.00041	0.00041	0	%100	Active
8	PMA3	Z	-0.000237	-0.000237	0	%100	Active
9	M4	PX	0.000605	0.000605	0	%100	Active
10	M4	PZ	-0.000349	-0.000349	0	%100	Active
11	M6	PX	0.000605	0.000605	0	%100	Active
12	M6	PZ	-0.000349	-0.000349	0	%100	Active
13	TB A1	PX	0.00041	0.00041	0	%100	Active
14	TB A1	PZ	-0.000237	-0.000237	0	%100	Active
15	M14	PX	0.000497	0.000497	0	%100	Active
16	M14	PZ	-0.000287	-0.000287	0	%100	Active
17	M15	PX	0.000497	0.000497	0	%100	Active
18	M15	PZ	-0.000287	-0.000287	0	%100	Active
19	M16	PX	0.000245	0.000245	0	%100	Active
20	M16	PZ	-0.000141	-0.000141	0	%100	Active
21	M17	PX	0.000245	0.000245	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
22	M17	PZ	-0.000141	-0.000141	0	%100	Active
23	M18	PX	0.000313	0.000313	0	%100	Active
24	M18	PZ	-0.000181	-0.000181	0	%100	Active
25	M19	PX	0.000313	0.000313	0	%100	Active
26	M19	PZ	-0.000181	-0.000181	0	%100	Active
27	M24	PX	0.000108	0.000108	0	%100	Active
28	M24	PZ	-6.2e-05	-6.2e-05	0	%100	Active
29	M25	PX	0.000108	0.000108	0	%100	Active
30	M25	PZ	-6.2e-05	-6.2e-05	0	%100	Active
31	M26	PX	0.000108	0.000108	0	%100	Active
32	M26	PZ	-6.2e-05	-6.2e-05	0	%100	Active
33	M27	PX	0.000108	0.000108	0	%100	Active
34	M27	PZ	-6.2e-05	-6.2e-05	0	%100	Active
35	M28	PX	0.00013	0.00013	0	%100	Active
36	M28	PZ	-7.5e-05	-7.5e-05	0	%100	Active
37	M29	PX	0.00013	0.00013	0	%100	Active
38	M29	PZ	-7.5e-05	-7.5e-05	0	%100	Active
39	M30	PX	9e-05	9e-05	0	%100	Active
40	M30	PZ	-5.2e-05	-5.2e-05	0	%100	Active
41	M31	PX	9e-05	9e-05	0	%100	Active
42	M31	PZ	-5.2e-05	-5.2e-05	0	%100	Active
43	TB A2	PX	0.000297	0.000297	0	%100	Active
44	TB A2	PZ	-0.000172	-0.000172	0	%100	Active
45	M37	PX	0.000605	0.000605	0	%100	Active
46	M37	PZ	-0.000349	-0.000349	0	%100	Active
47	M39	PX	0.000605	0.000605	0	%100	Active
48	M39	PZ	-0.000349	-0.000349	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.000474	0.000474	0	%100	Active
2	PMA2	X	0.000474	0.000474	0	%100	Active
3	PMA4	X	0.000474	0.000474	0	%100	Active
4	PMA3	X	0.000474	0.000474	0	%100	Active
5	M4	PX	0.000698	0.000698	0	%100	Active
6	M6	PX	0.000698	0.000698	0	%100	Active
7	TB A1	PX	0.000474	0.000474	0	%100	Active
8	M14	PX	0.000335	0.000335	0	%100	Active
9	M15	PX	0.000335	0.000335	0	%100	Active
10	M16	PX	0.000332	0.000332	0	%100	Active
11	M17	PX	0.000332	0.000332	0	%100	Active
12	M18	PX	0.000332	0.000332	0	%100	Active
13	M19	PX	0.000332	0.000332	0	%100	Active
14	M24	PX	0.000125	0.000125	0	%100	Active
15	M25	PX	0.000125	0.000125	0	%100	Active
16	M26	PX	0.000125	0.000125	0	%100	Active
17	M27	PX	0.000125	0.000125	0	%100	Active
18	M28	PX	0.000147	0.000147	0	%100	Active
19	M29	PX	0.000147	0.000147	0	%100	Active
20	M30	PX	0.000147	0.000147	0	%100	Active
21	M31	PX	0.000147	0.000147	0	%100	Active
22	TB A2	PX	0.000299	0.000299	0	%100	Active
23	M37	PX	0.000698	0.000698	0	%100	Active
24	M39	PX	0.000698	0.000698	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

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Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.00041	0.00041	0	%100	Active
2	PMA1	Z	0.000237	0.000237	0	%100	Active
3	PMA2	X	0.00041	0.00041	0	%100	Active
4	PMA2	Z	0.000237	0.000237	0	%100	Active
5	PMA4	X	0.00041	0.00041	0	%100	Active
6	PMA4	Z	0.000237	0.000237	0	%100	Active
7	PMA3	X	0.00041	0.00041	0	%100	Active
8	PMA3	Z	0.000237	0.000237	0	%100	Active
9	M4	PX	0.000605	0.000605	0	%100	Active
10	M4	PZ	0.000349	0.000349	0	%100	Active
11	M6	PX	0.000605	0.000605	0	%100	Active
12	M6	PZ	0.000349	0.000349	0	%100	Active
13	TB A1	PX	0.000297	0.000297	0	%100	Active
14	TB A1	PZ	0.000172	0.000172	0	%100	Active
15	M14	PX	0.000497	0.000497	0	%100	Active
16	M14	PZ	0.000287	0.000287	0	%100	Active
17	M15	PX	0.000497	0.000497	0	%100	Active
18	M15	PZ	0.000287	0.000287	0	%100	Active
19	M16	PX	0.000313	0.000313	0	%100	Active
20	M16	PZ	0.000181	0.000181	0	%100	Active
21	M17	PX	0.000313	0.000313	0	%100	Active
22	M17	PZ	0.000181	0.000181	0	%100	Active
23	M18	PX	0.000245	0.000245	0	%100	Active
24	M18	PZ	0.000141	0.000141	0	%100	Active
25	M19	PX	0.000245	0.000245	0	%100	Active
26	M19	PZ	0.000141	0.000141	0	%100	Active
27	M24	PX	0.000108	0.000108	0	%100	Active
28	M24	PZ	6.2e-05	6.2e-05	0	%100	Active
29	M25	PX	0.000108	0.000108	0	%100	Active
30	M25	PZ	6.2e-05	6.2e-05	0	%100	Active
31	M26	PX	0.000108	0.000108	0	%100	Active
32	M26	PZ	6.2e-05	6.2e-05	0	%100	Active
33	M27	PX	0.000108	0.000108	0	%100	Active
34	M27	PZ	6.2e-05	6.2e-05	0	%100	Active
35	M28	PX	9e-05	9e-05	0	%100	Active
36	M28	PZ	5.2e-05	5.2e-05	0	%100	Active
37	M29	PX	9e-05	9e-05	0	%100	Active
38	M29	PZ	5.2e-05	5.2e-05	0	%100	Active
39	M30	PX	0.00013	0.00013	0	%100	Active
40	M30	PZ	7.5e-05	7.5e-05	0	%100	Active
41	M31	PX	0.00013	0.00013	0	%100	Active
42	M31	PZ	7.5e-05	7.5e-05	0	%100	Active
43	TB A2	PX	0.000239	0.000239	0	%100	Active
44	TB A2	PZ	0.000138	0.000138	0	%100	Active
45	M37	PX	0.000605	0.000605	0	%100	Active
46	M37	PZ	0.000349	0.000349	0	%100	Active
47	M39	PX	0.000605	0.000605	0	%100	Active
48	M39	PZ	0.000349	0.000349	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	0.000237	0.000237	0	%100	Active
2	PMA1	Z	0.00041	0.00041	0	%100	Active
3	PMA2	X	0.000237	0.000237	0	%100	Active
4	PMA2	Z	0.00041	0.00041	0	%100	Active
5	PMA4	X	0.000237	0.000237	0	%100	Active
6	PMA4	Z	0.00041	0.00041	0	%100	Active
7	PMA3	X	0.000237	0.000237	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
8	PMA3	Z	0.00041	0.00041	0	%100	Active
9	M4	PX	0.000349	0.000349	0	%100	Active
10	M4	PZ	0.000605	0.000605	0	%100	Active
11	M6	PX	0.000349	0.000349	0	%100	Active
12	M6	PZ	0.000605	0.000605	0	%100	Active
13	TB A1	PX	0.000193	0.000193	0	%100	Active
14	TB A1	PZ	0.000334	0.000334	0	%100	Active
15	M14	PX	0.000287	0.000287	0	%100	Active
16	M14	PZ	0.000497	0.000497	0	%100	Active
17	M15	PX	0.000287	0.000287	0	%100	Active
18	M15	PZ	0.000497	0.000497	0	%100	Active
19	M16	PX	0.000181	0.000181	0	%100	Active
20	M16	PZ	0.000313	0.000313	0	%100	Active
21	M17	PX	0.000181	0.000181	0	%100	Active
22	M17	PZ	0.000313	0.000313	0	%100	Active
23	M18	PX	0.000142	0.000142	0	%100	Active
24	M18	PZ	0.000246	0.000246	0	%100	Active
25	M19	PX	0.000142	0.000142	0	%100	Active
26	M19	PZ	0.000246	0.000246	0	%100	Active
27	M24	PX	6.2e-05	6.2e-05	0	%100	Active
28	M24	PZ	0.000108	0.000108	0	%100	Active
29	M25	PX	6.2e-05	6.2e-05	0	%100	Active
30	M25	PZ	0.000108	0.000108	0	%100	Active
31	M26	PX	6.2e-05	6.2e-05	0	%100	Active
32	M26	PZ	0.000108	0.000108	0	%100	Active
33	M27	PX	6.2e-05	6.2e-05	0	%100	Active
34	M27	PZ	0.000108	0.000108	0	%100	Active
35	M28	PX	5.3e-05	5.3e-05	0	%100	Active
36	M28	PZ	9.1e-05	9.1e-05	0	%100	Active
37	M29	PX	5.3e-05	5.3e-05	0	%100	Active
38	M29	PZ	9.1e-05	9.1e-05	0	%100	Active
39	M30	PX	7.5e-05	7.5e-05	0	%100	Active
40	M30	PZ	0.00013	0.00013	0	%100	Active
41	M31	PX	7.5e-05	7.5e-05	0	%100	Active
42	M31	PZ	0.00013	0.00013	0	%100	Active
43	TB A2	PX	0.00016	0.00016	0	%100	Active
44	TB A2	PZ	0.000277	0.000277	0	%100	Active
45	M37	PX	0.000349	0.000349	0	%100	Active
46	M37	PZ	0.000605	0.000605	0	%100	Active
47	M39	PX	0.000349	0.000349	0	%100	Active
48	M39	PZ	0.000605	0.000605	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	Z	0.000395	0.000395	0	%32.760417	Active
2	PMA1	Z	0.000395	0.000395	%67.239583	%100	Active
3	PMA2	Z	0.000395	0.000395	0	%0.052083	Active
4	PMA2	Z	0.000395	0.000395	%99.947917	%100	Active
5	PMA4	Z	0.000395	0.000395	0	%20.520833	Active
6	PMA4	Z	0.000395	0.000395	%79.479167	%100	Active
7	PMA3	Z	0.000474	0.000474	0	%100	Active
8	M4	PZ	0.000698	0.000698	0	%100	Active
9	M6	PZ	0.000698	0.000698	0	%100	Active
10	TB A1	PZ	0.000474	0.000474	0	%100	Active
11	M14	PZ	0.000574	0.000574	0	%100	Active
12	M15	PZ	0.000574	0.000574	0	%100	Active
13	M16	PZ	0.000333	0.000333	0	%100	Active
14	M17	PZ	0.000333	0.000333	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

2/10/2021
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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
15	M18	PZ	0.000333	0.000333	0	%100	Active
16	M19	PZ	0.000333	0.000333	0	%100	Active
17	M24	PZ	0.000125	0.000125	0	%100	Active
18	M25	PZ	0.000125	0.000125	0	%100	Active
19	M26	PZ	0.000125	0.000125	0	%100	Active
20	M27	PZ	0.000125	0.000125	0	%100	Active
21	M28	PZ	0.000148	0.000148	0	%100	Active
22	M29	PZ	0.000148	0.000148	0	%100	Active
23	M30	PZ	0.000148	0.000148	0	%100	Active
24	M31	PZ	0.000148	0.000148	0	%100	Active
25	TB A2	PZ	0.000355	0.000355	0	%100	Active
26	M37	PZ	0.000698	0.000698	0	%100	Active
27	M39	PZ	0.000698	0.000698	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.000237	-0.000237	0	%100	Active
2	PMA1	Z	0.00041	0.00041	0	%100	Active
3	PMA2	X	-0.000237	-0.000237	0	%100	Active
4	PMA2	Z	0.00041	0.00041	0	%100	Active
5	PMA4	X	-0.000237	-0.000237	0	%100	Active
6	PMA4	Z	0.00041	0.00041	0	%100	Active
7	PMA3	X	-0.000237	-0.000237	0	%100	Active
8	PMA3	Z	0.00041	0.00041	0	%100	Active
9	M4	PX	-0.000349	-0.000349	0	%100	Active
10	M4	PZ	0.000605	0.000605	0	%100	Active
11	M6	PX	-0.000349	-0.000349	0	%100	Active
12	M6	PZ	0.000605	0.000605	0	%100	Active
13	TB A1	PX	-0.000237	-0.000237	0	%100	Active
14	TB A1	PZ	0.00041	0.00041	0	%100	Active
15	M14	PX	-0.000287	-0.000287	0	%100	Active
16	M14	PZ	0.000497	0.000497	0	%100	Active
17	M15	PX	-0.000287	-0.000287	0	%100	Active
18	M15	PZ	0.000497	0.000497	0	%100	Active
19	M16	PX	-0.000142	-0.000142	0	%100	Active
20	M16	PZ	0.000246	0.000246	0	%100	Active
21	M17	PX	-0.000142	-0.000142	0	%100	Active
22	M17	PZ	0.000246	0.000246	0	%100	Active
23	M18	PX	-0.000181	-0.000181	0	%100	Active
24	M18	PZ	0.000313	0.000313	0	%100	Active
25	M19	PX	-0.000181	-0.000181	0	%100	Active
26	M19	PZ	0.000313	0.000313	0	%100	Active
27	M24	PX	-6.2e-05	-6.2e-05	0	%100	Active
28	M24	PZ	0.000108	0.000108	0	%100	Active
29	M25	PX	-6.2e-05	-6.2e-05	0	%100	Active
30	M25	PZ	0.000108	0.000108	0	%100	Active
31	M26	PX	-6.2e-05	-6.2e-05	0	%100	Active
32	M26	PZ	0.000108	0.000108	0	%100	Active
33	M27	PX	-6.2e-05	-6.2e-05	0	%100	Active
34	M27	PZ	0.000108	0.000108	0	%100	Active
35	M28	PX	-7.5e-05	-7.5e-05	0	%100	Active
36	M28	PZ	0.00013	0.00013	0	%100	Active
37	M29	PX	-7.5e-05	-7.5e-05	0	%100	Active
38	M29	PZ	0.00013	0.00013	0	%100	Active
39	M30	PX	-5.3e-05	-5.3e-05	0	%100	Active
40	M30	PZ	9.1e-05	9.1e-05	0	%100	Active
41	M31	PX	-5.3e-05	-5.3e-05	0	%100	Active
42	M31	PZ	9.1e-05	9.1e-05	0	%100	Active



Company : FDH-IS
 Designer : DRD
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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
43	TB A2	PX	-0.000182	-0.000182	0	%100	Active
44	TB A2	PZ	0.000315	0.000315	0	%100	Active
45	M37	PX	-0.000349	-0.000349	0	%100	Active
46	M37	PZ	0.000605	0.000605	0	%100	Active
47	M39	PX	-0.000349	-0.000349	0	%100	Active
48	M39	PZ	0.000605	0.000605	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.00041	-0.00041	0	%100	Active
2	PMA1	Z	0.000237	0.000237	0	%100	Active
3	PMA2	X	-0.00041	-0.00041	0	%100	Active
4	PMA2	Z	0.000237	0.000237	0	%100	Active
5	PMA4	X	-0.00041	-0.00041	0	%100	Active
6	PMA4	Z	0.000237	0.000237	0	%100	Active
7	PMA3	X	-0.00041	-0.00041	0	%100	Active
8	PMA3	Z	0.000237	0.000237	0	%100	Active
9	M4	PX	-0.000605	-0.000605	0	%100	Active
10	M4	PZ	0.000349	0.000349	0	%100	Active
11	M6	PX	-0.000605	-0.000605	0	%100	Active
12	M6	PZ	0.000349	0.000349	0	%100	Active
13	TB A1	PX	-0.00041	-0.00041	0	%100	Active
14	TB A1	PZ	0.000237	0.000237	0	%100	Active
15	M14	PX	-0.000497	-0.000497	0	%100	Active
16	M14	PZ	0.000287	0.000287	0	%100	Active
17	M15	PX	-0.000497	-0.000497	0	%100	Active
18	M15	PZ	0.000287	0.000287	0	%100	Active
19	M16	PX	-0.000245	-0.000245	0	%100	Active
20	M16	PZ	0.000141	0.000141	0	%100	Active
21	M17	PX	-0.000245	-0.000245	0	%100	Active
22	M17	PZ	0.000141	0.000141	0	%100	Active
23	M18	PX	-0.000313	-0.000313	0	%100	Active
24	M18	PZ	0.000181	0.000181	0	%100	Active
25	M19	PX	-0.000313	-0.000313	0	%100	Active
26	M19	PZ	0.000181	0.000181	0	%100	Active
27	M24	PX	-0.000108	-0.000108	0	%100	Active
28	M24	PZ	6.2e-05	6.2e-05	0	%100	Active
29	M25	PX	-0.000108	-0.000108	0	%100	Active
30	M25	PZ	6.2e-05	6.2e-05	0	%100	Active
31	M26	PX	-0.000108	-0.000108	0	%100	Active
32	M26	PZ	6.2e-05	6.2e-05	0	%100	Active
33	M27	PX	-0.000108	-0.000108	0	%100	Active
34	M27	PZ	6.2e-05	6.2e-05	0	%100	Active
35	M28	PX	-0.00013	-0.00013	0	%100	Active
36	M28	PZ	7.5e-05	7.5e-05	0	%100	Active
37	M29	PX	-0.00013	-0.00013	0	%100	Active
38	M29	PZ	7.5e-05	7.5e-05	0	%100	Active
39	M30	PX	-9e-05	-9e-05	0	%100	Active
40	M30	PZ	5.2e-05	5.2e-05	0	%100	Active
41	M31	PX	-9e-05	-9e-05	0	%100	Active
42	M31	PZ	5.2e-05	5.2e-05	0	%100	Active
43	TB A2	PX	-0.000297	-0.000297	0	%100	Active
44	TB A2	PZ	0.000172	0.000172	0	%100	Active
45	M37	PX	-0.000605	-0.000605	0	%100	Active
46	M37	PZ	0.000349	0.000349	0	%100	Active
47	M39	PX	-0.000605	-0.000605	0	%100	Active
48	M39	PZ	0.000349	0.000349	0	%100	Active



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Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.000474	-0.000474	0	%100 Active
2	PMA2	X	-0.000474	-0.000474	0	%100 Active
3	PMA4	X	-0.000474	-0.000474	0	%100 Active
4	PMA3	X	-0.000474	-0.000474	0	%100 Active
5	M4	PX	-0.000698	-0.000698	0	%100 Active
6	M6	PX	-0.000698	-0.000698	0	%100 Active
7	TB A1	PX	-0.000474	-0.000474	0	%100 Active
8	M14	PX	-0.000335	-0.000335	0	%100 Active
9	M15	PX	-0.000335	-0.000335	0	%100 Active
10	M16	PX	-0.000332	-0.000332	0	%100 Active
11	M17	PX	-0.000332	-0.000332	0	%100 Active
12	M18	PX	-0.000332	-0.000332	0	%100 Active
13	M19	PX	-0.000332	-0.000332	0	%100 Active
14	M24	PX	-0.000125	-0.000125	0	%100 Active
15	M25	PX	-0.000125	-0.000125	0	%100 Active
16	M26	PX	-0.000125	-0.000125	0	%100 Active
17	M27	PX	-0.000125	-0.000125	0	%100 Active
18	M28	PX	-0.000147	-0.000147	0	%100 Active
19	M29	PX	-0.000147	-0.000147	0	%100 Active
20	M30	PX	-0.000147	-0.000147	0	%100 Active
21	M31	PX	-0.000147	-0.000147	0	%100 Active
22	TB A2	PX	-0.000299	-0.000299	0	%100 Active
23	M37	PX	-0.000698	-0.000698	0	%100 Active
24	M39	PX	-0.000698	-0.000698	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	PMA1	X	-0.00041	-0.00041	0	%100 Active
2	PMA1	Z	-0.000237	-0.000237	0	%100 Active
3	PMA2	X	-0.00041	-0.00041	0	%100 Active
4	PMA2	Z	-0.000237	-0.000237	0	%100 Active
5	PMA4	X	-0.00041	-0.00041	0	%100 Active
6	PMA4	Z	-0.000237	-0.000237	0	%100 Active
7	PMA3	X	-0.00041	-0.00041	0	%100 Active
8	PMA3	Z	-0.000237	-0.000237	0	%100 Active
9	M4	PX	-0.000605	-0.000605	0	%100 Active
10	M4	PZ	-0.000349	-0.000349	0	%100 Active
11	M6	PX	-0.000605	-0.000605	0	%100 Active
12	M6	PZ	-0.000349	-0.000349	0	%100 Active
13	TB A1	PX	-0.000297	-0.000297	0	%100 Active
14	TB A1	PZ	-0.000172	-0.000172	0	%100 Active
15	M14	PX	-0.000497	-0.000497	0	%100 Active
16	M14	PZ	-0.000287	-0.000287	0	%100 Active
17	M15	PX	-0.000497	-0.000497	0	%100 Active
18	M15	PZ	-0.000287	-0.000287	0	%100 Active
19	M16	PX	-0.000313	-0.000313	0	%100 Active
20	M16	PZ	-0.000181	-0.000181	0	%100 Active
21	M17	PX	-0.000313	-0.000313	0	%100 Active
22	M17	PZ	-0.000181	-0.000181	0	%100 Active
23	M18	PX	-0.000245	-0.000245	0	%100 Active
24	M18	PZ	-0.000141	-0.000141	0	%100 Active
25	M19	PX	-0.000245	-0.000245	0	%100 Active
26	M19	PZ	-0.000141	-0.000141	0	%100 Active
27	M24	PX	-0.000108	-0.000108	0	%100 Active
28	M24	PZ	-6.2e-05	-6.2e-05	0	%100 Active
29	M25	PX	-0.000108	-0.000108	0	%100 Active
30	M25	PZ	-6.2e-05	-6.2e-05	0	%100 Active
31	M26	PX	-0.000108	-0.000108	0	%100 Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
32	M26	PZ	-6.2e-05	-6.2e-05	0	%100	Active
33	M27	PX	-0.000108	-0.000108	0	%100	Active
34	M27	PZ	-6.2e-05	-6.2e-05	0	%100	Active
35	M28	PX	-9e-05	-9e-05	0	%100	Active
36	M28	PZ	-5.2e-05	-5.2e-05	0	%100	Active
37	M29	PX	-9e-05	-9e-05	0	%100	Active
38	M29	PZ	-5.2e-05	-5.2e-05	0	%100	Active
39	M30	PX	-0.00013	-0.00013	0	%100	Active
40	M30	PZ	-7.5e-05	-7.5e-05	0	%100	Active
41	M31	PX	-0.00013	-0.00013	0	%100	Active
42	M31	PZ	-7.5e-05	-7.5e-05	0	%100	Active
43	TB A2	PX	-0.000239	-0.000239	0	%100	Active
44	TB A2	PZ	-0.000138	-0.000138	0	%100	Active
45	M37	PX	-0.000605	-0.000605	0	%100	Active
46	M37	PZ	-0.000349	-0.000349	0	%100	Active
47	M39	PX	-0.000605	-0.000605	0	%100	Active
48	M39	PZ	-0.000349	-0.000349	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	PMA1	X	-0.000237	-0.000237	0	%100	Active
2	PMA1	Z	-0.00041	-0.00041	0	%100	Active
3	PMA2	X	-0.000237	-0.000237	0	%100	Active
4	PMA2	Z	-0.00041	-0.00041	0	%100	Active
5	PMA4	X	-0.000237	-0.000237	0	%100	Active
6	PMA4	Z	-0.00041	-0.00041	0	%100	Active
7	PMA3	X	-0.000237	-0.000237	0	%100	Active
8	PMA3	Z	-0.00041	-0.00041	0	%100	Active
9	M4	PX	-0.000349	-0.000349	0	%100	Active
10	M4	PZ	-0.000605	-0.000605	0	%100	Active
11	M6	PX	-0.000349	-0.000349	0	%100	Active
12	M6	PZ	-0.000605	-0.000605	0	%100	Active
13	TB A1	PX	-0.000193	-0.000193	0	%100	Active
14	TB A1	PZ	-0.000334	-0.000334	0	%100	Active
15	M14	PX	-0.000287	-0.000287	0	%100	Active
16	M14	PZ	-0.000497	-0.000497	0	%100	Active
17	M15	PX	-0.000287	-0.000287	0	%100	Active
18	M15	PZ	-0.000497	-0.000497	0	%100	Active
19	M16	PX	-0.000181	-0.000181	0	%100	Active
20	M16	PZ	-0.000313	-0.000313	0	%100	Active
21	M17	PX	-0.000181	-0.000181	0	%100	Active
22	M17	PZ	-0.000313	-0.000313	0	%100	Active
23	M18	PX	-0.000142	-0.000142	0	%100	Active
24	M18	PZ	-0.000246	-0.000246	0	%100	Active
25	M19	PX	-0.000142	-0.000142	0	%100	Active
26	M19	PZ	-0.000246	-0.000246	0	%100	Active
27	M24	PX	-6.2e-05	-6.2e-05	0	%100	Active
28	M24	PZ	-0.000108	-0.000108	0	%100	Active
29	M25	PX	-6.2e-05	-6.2e-05	0	%100	Active
30	M25	PZ	-0.000108	-0.000108	0	%100	Active
31	M26	PX	-6.2e-05	-6.2e-05	0	%100	Active
32	M26	PZ	-0.000108	-0.000108	0	%100	Active
33	M27	PX	-6.2e-05	-6.2e-05	0	%100	Active
34	M27	PZ	-0.000108	-0.000108	0	%100	Active
35	M28	PX	-5.3e-05	-5.3e-05	0	%100	Active
36	M28	PZ	-9.1e-05	-9.1e-05	0	%100	Active
37	M29	PX	-5.3e-05	-5.3e-05	0	%100	Active
38	M29	PZ	-9.1e-05	-9.1e-05	0	%100	Active

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
39	M30	PX	-7.5e-05	-7.5e-05	0	%100 Active
40	M30	PZ	-0.00013	-0.00013	0	%100 Active
41	M31	PX	-7.5e-05	-7.5e-05	0	%100 Active
42	M31	PZ	-0.00013	-0.00013	0	%100 Active
43	TB A2	PX	-0.00016	-0.00016	0	%100 Active
44	TB A2	PZ	-0.000277	-0.000277	0	%100 Active
45	M37	PX	-0.000349	-0.000349	0	%100 Active
46	M37	PZ	-0.000605	-0.000605	0	%100 Active
47	M39	PX	-0.000349	-0.000349	0	%100 Active
48	M39	PZ	-0.000605	-0.000605	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	Y	-0.007	-0.007	0	%100 Active
2	M6	Y	-0.007	-0.007	0	%100 Active
3	TB A1	Y	-0.005	-0.005	0	%100 Active
4	M14	Y	-0.006	-0.006	0	%100 Active
5	M15	Y	-0.006	-0.006	0	%100 Active
6	M16	Y	-0.005	-0.005	0	%100 Active
7	M17	Y	-0.005	-0.005	0	%100 Active
8	M18	Y	-0.005	-0.005	0	%100 Active
9	M19	Y	-0.005	-0.005	0	%100 Active
10	M24	Y	-0.002	-0.002	0	%100 Active
11	M25	Y	-0.002	-0.002	0	%100 Active
12	M26	Y	-0.002	-0.002	0	%100 Active
13	M27	Y	-0.002	-0.002	0	%100 Active
14	M28	Y	-0.003	-0.003	0	%100 Active
15	M29	Y	-0.003	-0.003	0	%100 Active
16	M30	Y	-0.003	-0.003	0	%100 Active
17	M31	Y	-0.003	-0.003	0	%100 Active
18	TB A2	Y	-0.005	-0.005	0	%100 Active
19	M37	Y	-0.007	-0.007	0	%100 Active
20	M39	Y	-0.007	-0.007	0	%100 Active
21	PMA4	Y	-0.005	-0.005	0	%100 Active
22	PMA3	Y	-0.005	-0.005	0	%100 Active
23	PMA2	Y	-0.005	-0.005	0	%100 Active
24	PMA1	Y	-0.005	-0.005	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	Z	-0.000965	-0.000965	0	%100 Active
2	M6	Z	-0.000965	-0.000965	0	%100 Active
3	TB A1	Z	-0.00045	-0.00045	0	%100 Active
4	M14	Z	-0.00071	-0.00071	0	%100 Active
5	M15	Z	-0.00071	-0.00071	0	%100 Active
6	M16	Z	-0.00045	-0.00045	0	%100 Active
7	M17	Z	-0.00045	-0.00045	0	%100 Active
8	M18	Z	-0.00045	-0.00045	0	%100 Active
9	M19	Z	-0.00045	-0.00045	0	%100 Active
10	M24	Z	-0.000135	-0.000135	0	%100 Active
11	M25	Z	-0.000135	-0.000135	0	%100 Active
12	M26	Z	-0.000135	-0.000135	0	%100 Active
13	M27	Z	-0.000135	-0.000135	0	%100 Active
14	M28	Z	-0.000195	-0.000195	0	%100 Active
15	M29	Z	-0.000195	-0.000195	0	%100 Active
16	M30	Z	-0.000195	-0.000195	0	%100 Active
17	M31	Z	-0.000195	-0.000195	0	%100 Active
18	TB A2	Z	-0.00045	-0.00045	0	%100 Active

Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
18	TB A2	Z	-0.00045	-0.00045	0	%100	Active
19	M37	Z	-0.000965	-0.000965	0	%100	Active
20	M39	Z	-0.000965	-0.000965	0	%100	Active
21	PMA4	Z	-0.00045	-0.00045	0	%100	Active
22	PMA3	Z	-0.00045	-0.00045	0	%100	Active
23	PMA2	Z	-0.00045	-0.00045	0	%100	Active
24	PMA1	Z	-0.00045	-0.00045	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	0.000482	0.000482	0	%100	Active
2	M4	Z	-0.000835	-0.000835	0	%100	Active
3	M6	X	0.000482	0.000482	0	%100	Active
4	M6	Z	-0.000835	-0.000835	0	%100	Active
5	TB A1	X	0.000225	0.000225	0	%100	Active
6	TB A1	Z	-0.00039	-0.00039	0	%100	Active
7	M14	X	0.000355	0.000355	0	%100	Active
8	M14	Z	-0.000615	-0.000615	0	%100	Active
9	M15	X	0.000355	0.000355	0	%100	Active
10	M15	Z	-0.000615	-0.000615	0	%100	Active
11	M16	X	0.000225	0.000225	0	%100	Active
12	M16	Z	-0.00039	-0.00039	0	%100	Active
13	M17	X	0.000225	0.000225	0	%100	Active
14	M17	Z	-0.00039	-0.00039	0	%100	Active
15	M18	X	0.000225	0.000225	0	%100	Active
16	M18	Z	-0.00039	-0.00039	0	%100	Active
17	M19	X	0.000225	0.000225	0	%100	Active
18	M19	Z	-0.00039	-0.00039	0	%100	Active
19	M24	X	6.8e-05	6.8e-05	0	%100	Active
20	M24	Z	-0.000117	-0.000117	0	%100	Active
21	M25	X	6.8e-05	6.8e-05	0	%100	Active
22	M25	Z	-0.000117	-0.000117	0	%100	Active
23	M26	X	6.8e-05	6.8e-05	0	%100	Active
24	M26	Z	-0.000117	-0.000117	0	%100	Active
25	M27	X	6.8e-05	6.8e-05	0	%100	Active
26	M27	Z	-0.000117	-0.000117	0	%100	Active
27	M28	X	9.7e-05	9.7e-05	0	%100	Active
28	M28	Z	-0.000169	-0.000169	0	%100	Active
29	M29	X	9.7e-05	9.7e-05	0	%100	Active
30	M29	Z	-0.000169	-0.000169	0	%100	Active
31	M30	X	9.7e-05	9.7e-05	0	%100	Active
32	M30	Z	-0.000169	-0.000169	0	%100	Active
33	M31	X	9.7e-05	9.7e-05	0	%100	Active
34	M31	Z	-0.000169	-0.000169	0	%100	Active
35	TB A2	X	0.000225	0.000225	0	%100	Active
36	TB A2	Z	-0.00039	-0.00039	0	%100	Active
37	M37	X	0.000482	0.000482	0	%100	Active
38	M37	Z	-0.000835	-0.000835	0	%100	Active
39	M39	X	0.000482	0.000482	0	%100	Active
40	M39	Z	-0.000835	-0.000835	0	%100	Active
41	PMA4	X	0.000225	0.000225	0	%100	Active
42	PMA4	Z	-0.00039	-0.00039	0	%100	Active
43	PMA3	X	0.000225	0.000225	0	%100	Active
44	PMA3	Z	-0.00039	-0.00039	0	%100	Active
45	PMA2	X	0.000225	0.000225	0	%100	Active
46	PMA2	Z	-0.00039	-0.00039	0	%100	Active
47	PMA1	X	0.000225	0.000225	0	%100	Active
48	PMA1	Z	-0.00039	-0.00039	0	%100	Active



Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	0.000835	0.000835	0	%100	Active
2	M4	Z	-0.000482	-0.000482	0	%100	Active
3	M6	X	0.000835	0.000835	0	%100	Active
4	M6	Z	-0.000482	-0.000482	0	%100	Active
5	TB A1	X	0.00039	0.00039	0	%100	Active
6	TB A1	Z	-0.000225	-0.000225	0	%100	Active
7	M14	X	0.000615	0.000615	0	%100	Active
8	M14	Z	-0.000355	-0.000355	0	%100	Active
9	M15	X	0.000615	0.000615	0	%100	Active
10	M15	Z	-0.000355	-0.000355	0	%100	Active
11	M16	X	0.00039	0.00039	0	%100	Active
12	M16	Z	-0.000225	-0.000225	0	%100	Active
13	M17	X	0.00039	0.00039	0	%100	Active
14	M17	Z	-0.000225	-0.000225	0	%100	Active
15	M18	X	0.00039	0.00039	0	%100	Active
16	M18	Z	-0.000225	-0.000225	0	%100	Active
17	M19	X	0.00039	0.00039	0	%100	Active
18	M19	Z	-0.000225	-0.000225	0	%100	Active
19	M24	X	0.000117	0.000117	0	%100	Active
20	M24	Z	-6.8e-05	-6.8e-05	0	%100	Active
21	M25	X	0.000117	0.000117	0	%100	Active
22	M25	Z	-6.8e-05	-6.8e-05	0	%100	Active
23	M26	X	0.000117	0.000117	0	%100	Active
24	M26	Z	-6.8e-05	-6.8e-05	0	%100	Active
25	M27	X	0.000117	0.000117	0	%100	Active
26	M27	Z	-6.8e-05	-6.8e-05	0	%100	Active
27	M28	X	0.000169	0.000169	0	%100	Active
28	M28	Z	-9.7e-05	-9.7e-05	0	%100	Active
29	M29	X	0.000169	0.000169	0	%100	Active
30	M29	Z	-9.7e-05	-9.7e-05	0	%100	Active
31	M30	X	0.000169	0.000169	0	%100	Active
32	M30	Z	-9.7e-05	-9.7e-05	0	%100	Active
33	M31	X	0.000169	0.000169	0	%100	Active
34	M31	Z	-9.7e-05	-9.7e-05	0	%100	Active
35	TB A2	X	0.00039	0.00039	0	%100	Active
36	TB A2	Z	-0.000225	-0.000225	0	%100	Active
37	M37	X	0.000835	0.000835	0	%100	Active
38	M37	Z	-0.000482	-0.000482	0	%100	Active
39	M39	X	0.000835	0.000835	0	%100	Active
40	M39	Z	-0.000482	-0.000482	0	%100	Active
41	PMA4	X	0.00039	0.00039	0	%100	Active
42	PMA4	Z	-0.000225	-0.000225	0	%100	Active
43	PMA3	X	0.00039	0.00039	0	%100	Active
44	PMA3	Z	-0.000225	-0.000225	0	%100	Active
45	PMA2	X	0.00039	0.00039	0	%100	Active
46	PMA2	Z	-0.000225	-0.000225	0	%100	Active
47	PMA1	X	0.00039	0.00039	0	%100	Active
48	PMA1	Z	-0.000225	-0.000225	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	0.000965	0.000965	0	%100	Active
2	M6	X	0.000965	0.000965	0	%100	Active
3	TB A1	X	0.00045	0.00045	0	%100	Active
4	M14	X	0.00071	0.00071	0	%100	Active
5	M15	X	0.00071	0.00071	0	%100	Active
6	M16	X	0.00045	0.00045	0	%100	Active
7	M17	X	0.00045	0.00045	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
8	M18	X	0.00045	0.00045	0	%100	Active
9	M19	X	0.00045	0.00045	0	%100	Active
10	M24	X	0.000135	0.000135	0	%100	Active
11	M25	X	0.000135	0.000135	0	%100	Active
12	M26	X	0.000135	0.000135	0	%100	Active
13	M27	X	0.000135	0.000135	0	%100	Active
14	M28	X	0.000195	0.000195	0	%100	Active
15	M29	X	0.000195	0.000195	0	%100	Active
16	M30	X	0.000195	0.000195	0	%100	Active
17	M31	X	0.000195	0.000195	0	%100	Active
18	TB A2	X	0.00045	0.00045	0	%100	Active
19	M37	X	0.000965	0.000965	0	%100	Active
20	M39	X	0.000965	0.000965	0	%100	Active
21	PMA4	X	0.00045	0.00045	0	%100	Active
22	PMA3	X	0.00045	0.00045	0	%100	Active
23	PMA2	X	0.00045	0.00045	0	%100	Active
24	PMA1	X	0.00045	0.00045	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	0.000835	0.000835	0	%100	Active
2	M4	Z	0.000482	0.000482	0	%100	Active
3	M6	X	0.000835	0.000835	0	%100	Active
4	M6	Z	0.000482	0.000482	0	%100	Active
5	TB A1	X	0.00039	0.00039	0	%100	Active
6	TB A1	Z	0.000225	0.000225	0	%100	Active
7	M14	X	0.000615	0.000615	0	%100	Active
8	M14	Z	0.000355	0.000355	0	%100	Active
9	M15	X	0.000615	0.000615	0	%100	Active
10	M15	Z	0.000355	0.000355	0	%100	Active
11	M16	X	0.00039	0.00039	0	%100	Active
12	M16	Z	0.000225	0.000225	0	%100	Active
13	M17	X	0.00039	0.00039	0	%100	Active
14	M17	Z	0.000225	0.000225	0	%100	Active
15	M18	X	0.00039	0.00039	0	%100	Active
16	M18	Z	0.000225	0.000225	0	%100	Active
17	M19	X	0.00039	0.00039	0	%100	Active
18	M19	Z	0.000225	0.000225	0	%100	Active
19	M24	X	0.000117	0.000117	0	%100	Active
20	M24	Z	6.8e-05	6.8e-05	0	%100	Active
21	M25	X	0.000117	0.000117	0	%100	Active
22	M25	Z	6.8e-05	6.8e-05	0	%100	Active
23	M26	X	0.000117	0.000117	0	%100	Active
24	M26	Z	6.8e-05	6.8e-05	0	%100	Active
25	M27	X	0.000117	0.000117	0	%100	Active
26	M27	Z	6.8e-05	6.8e-05	0	%100	Active
27	M28	X	0.000169	0.000169	0	%100	Active
28	M28	Z	9.7e-05	9.7e-05	0	%100	Active
29	M29	X	0.000169	0.000169	0	%100	Active
30	M29	Z	9.7e-05	9.7e-05	0	%100	Active
31	M30	X	0.000169	0.000169	0	%100	Active
32	M30	Z	9.7e-05	9.7e-05	0	%100	Active
33	M31	X	0.000169	0.000169	0	%100	Active
34	M31	Z	9.7e-05	9.7e-05	0	%100	Active
35	TB A2	X	0.00039	0.00039	0	%100	Active
36	TB A2	Z	0.000225	0.000225	0	%100	Active
37	M37	X	0.000835	0.000835	0	%100	Active
38	M37	Z	0.000482	0.000482	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
39	M39	X	0.000835	0.000835	0	%100	Active
40	M39	Z	0.000482	0.000482	0	%100	Active
41	PMA4	X	0.00039	0.00039	0	%100	Active
42	PMA4	Z	0.000225	0.000225	0	%100	Active
43	PMA3	X	0.00039	0.00039	0	%100	Active
44	PMA3	Z	0.000225	0.000225	0	%100	Active
45	PMA2	X	0.00039	0.00039	0	%100	Active
46	PMA2	Z	0.000225	0.000225	0	%100	Active
47	PMA1	X	0.00039	0.00039	0	%100	Active
48	PMA1	Z	0.000225	0.000225	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	0.000482	0.000482	0	%100	Active
2	M4	Z	0.000835	0.000835	0	%100	Active
3	M6	X	0.000482	0.000482	0	%100	Active
4	M6	Z	0.000835	0.000835	0	%100	Active
5	TB A1	X	0.000225	0.000225	0	%100	Active
6	TB A1	Z	0.00039	0.00039	0	%100	Active
7	M14	X	0.000355	0.000355	0	%100	Active
8	M14	Z	0.000615	0.000615	0	%100	Active
9	M15	X	0.000355	0.000355	0	%100	Active
10	M15	Z	0.000615	0.000615	0	%100	Active
11	M16	X	0.000225	0.000225	0	%100	Active
12	M16	Z	0.00039	0.00039	0	%100	Active
13	M17	X	0.000225	0.000225	0	%100	Active
14	M17	Z	0.00039	0.00039	0	%100	Active
15	M18	X	0.000225	0.000225	0	%100	Active
16	M18	Z	0.00039	0.00039	0	%100	Active
17	M19	X	0.000225	0.000225	0	%100	Active
18	M19	Z	0.00039	0.00039	0	%100	Active
19	M24	X	6.8e-05	6.8e-05	0	%100	Active
20	M24	Z	0.000117	0.000117	0	%100	Active
21	M25	X	6.8e-05	6.8e-05	0	%100	Active
22	M25	Z	0.000117	0.000117	0	%100	Active
23	M26	X	6.8e-05	6.8e-05	0	%100	Active
24	M26	Z	0.000117	0.000117	0	%100	Active
25	M27	X	6.8e-05	6.8e-05	0	%100	Active
26	M27	Z	0.000117	0.000117	0	%100	Active
27	M28	X	9.7e-05	9.7e-05	0	%100	Active
28	M28	Z	0.000169	0.000169	0	%100	Active
29	M29	X	9.7e-05	9.7e-05	0	%100	Active
30	M29	Z	0.000169	0.000169	0	%100	Active
31	M30	X	9.7e-05	9.7e-05	0	%100	Active
32	M30	Z	0.000169	0.000169	0	%100	Active
33	M31	X	9.7e-05	9.7e-05	0	%100	Active
34	M31	Z	0.000169	0.000169	0	%100	Active
35	TB A2	X	0.000225	0.000225	0	%100	Active
36	TB A2	Z	0.00039	0.00039	0	%100	Active
37	M37	X	0.000482	0.000482	0	%100	Active
38	M37	Z	0.000835	0.000835	0	%100	Active
39	M39	X	0.000482	0.000482	0	%100	Active
40	M39	Z	0.000835	0.000835	0	%100	Active
41	PMA4	X	0.000225	0.000225	0	%100	Active
42	PMA4	Z	0.00039	0.00039	0	%100	Active
43	PMA3	X	0.000225	0.000225	0	%100	Active
44	PMA3	Z	0.00039	0.00039	0	%100	Active
45	PMA2	X	0.000225	0.000225	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
46	PMA2	Z	0.00039	0.00039	0	%100	Active
47	PMA1	X	0.000225	0.000225	0	%100	Active
48	PMA1	Z	0.00039	0.00039	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	Z	0.000965	0.000965	0	%100	Active
2	M6	Z	0.000965	0.000965	0	%100	Active
3	TB A1	Z	0.00045	0.00045	0	%100	Active
4	M14	Z	0.00071	0.00071	0	%100	Active
5	M15	Z	0.00071	0.00071	0	%100	Active
6	M16	Z	0.00045	0.00045	0	%100	Active
7	M17	Z	0.00045	0.00045	0	%100	Active
8	M18	Z	0.00045	0.00045	0	%100	Active
9	M19	Z	0.00045	0.00045	0	%100	Active
10	M24	Z	0.000135	0.000135	0	%100	Active
11	M25	Z	0.000135	0.000135	0	%100	Active
12	M26	Z	0.000135	0.000135	0	%100	Active
13	M27	Z	0.000135	0.000135	0	%100	Active
14	M28	Z	0.000195	0.000195	0	%100	Active
15	M29	Z	0.000195	0.000195	0	%100	Active
16	M30	Z	0.000195	0.000195	0	%100	Active
17	M31	Z	0.000195	0.000195	0	%100	Active
18	TB A2	Z	0.00045	0.00045	0	%100	Active
19	M37	Z	0.000965	0.000965	0	%100	Active
20	M39	Z	0.000965	0.000965	0	%100	Active
21	PMA4	Z	0.00045	0.00045	0	%100	Active
22	PMA3	Z	0.00045	0.00045	0	%100	Active
23	PMA2	Z	0.00045	0.00045	0	%100	Active
24	PMA1	Z	0.00045	0.00045	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	-0.000482	-0.000482	0	%100	Active
2	M4	Z	0.000835	0.000835	0	%100	Active
3	M6	X	-0.000482	-0.000482	0	%100	Active
4	M6	Z	0.000835	0.000835	0	%100	Active
5	TB A1	X	-0.000225	-0.000225	0	%100	Active
6	TB A1	Z	0.00039	0.00039	0	%100	Active
7	M14	X	-0.000355	-0.000355	0	%100	Active
8	M14	Z	0.000615	0.000615	0	%100	Active
9	M15	X	-0.000355	-0.000355	0	%100	Active
10	M15	Z	0.000615	0.000615	0	%100	Active
11	M16	X	-0.000225	-0.000225	0	%100	Active
12	M16	Z	0.00039	0.00039	0	%100	Active
13	M17	X	-0.000225	-0.000225	0	%100	Active
14	M17	Z	0.00039	0.00039	0	%100	Active
15	M18	X	-0.000225	-0.000225	0	%100	Active
16	M18	Z	0.00039	0.00039	0	%100	Active
17	M19	X	-0.000225	-0.000225	0	%100	Active
18	M19	Z	0.00039	0.00039	0	%100	Active
19	M24	X	-6.8e-05	-6.8e-05	0	%100	Active
20	M24	Z	0.000117	0.000117	0	%100	Active
21	M25	X	-6.8e-05	-6.8e-05	0	%100	Active
22	M25	Z	0.000117	0.000117	0	%100	Active
23	M26	X	-6.8e-05	-6.8e-05	0	%100	Active
24	M26	Z	0.000117	0.000117	0	%100	Active
25	M27	X	-6.8e-05	-6.8e-05	0	%100	Active



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
25	M27	X	-6.8e-05	-6.8e-05	0	%100	Active
26	M27	Z	0.000117	0.000117	0	%100	Active
27	M28	X	-9.7e-05	-9.7e-05	0	%100	Active
28	M28	Z	0.000169	0.000169	0	%100	Active
29	M29	X	-9.7e-05	-9.7e-05	0	%100	Active
30	M29	Z	0.000169	0.000169	0	%100	Active
31	M30	X	-9.7e-05	-9.7e-05	0	%100	Active
32	M30	Z	0.000169	0.000169	0	%100	Active
33	M31	X	-9.7e-05	-9.7e-05	0	%100	Active
34	M31	Z	0.000169	0.000169	0	%100	Active
35	TB A2	X	-0.000225	-0.000225	0	%100	Active
36	TB A2	Z	0.00039	0.00039	0	%100	Active
37	M37	X	-0.000482	-0.000482	0	%100	Active
38	M37	Z	0.000835	0.000835	0	%100	Active
39	M39	X	-0.000482	-0.000482	0	%100	Active
40	M39	Z	0.000835	0.000835	0	%100	Active
41	PMA4	X	-0.000225	-0.000225	0	%100	Active
42	PMA4	Z	0.00039	0.00039	0	%100	Active
43	PMA3	X	-0.000225	-0.000225	0	%100	Active
44	PMA3	Z	0.00039	0.00039	0	%100	Active
45	PMA2	X	-0.000225	-0.000225	0	%100	Active
46	PMA2	Z	0.00039	0.00039	0	%100	Active
47	PMA1	X	-0.000225	-0.000225	0	%100	Active
48	PMA1	Z	0.00039	0.00039	0	%100	Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
1	M4	X	-0.000835	-0.000835	0	%100	Active
2	M4	Z	0.000482	0.000482	0	%100	Active
3	M6	X	-0.000835	-0.000835	0	%100	Active
4	M6	Z	0.000482	0.000482	0	%100	Active
5	TB A1	X	-0.00039	-0.00039	0	%100	Active
6	TB A1	Z	0.000225	0.000225	0	%100	Active
7	M14	X	-0.000615	-0.000615	0	%100	Active
8	M14	Z	0.000355	0.000355	0	%100	Active
9	M15	X	-0.000615	-0.000615	0	%100	Active
10	M15	Z	0.000355	0.000355	0	%100	Active
11	M16	X	-0.00039	-0.00039	0	%100	Active
12	M16	Z	0.000225	0.000225	0	%100	Active
13	M17	X	-0.00039	-0.00039	0	%100	Active
14	M17	Z	0.000225	0.000225	0	%100	Active
15	M18	X	-0.00039	-0.00039	0	%100	Active
16	M18	Z	0.000225	0.000225	0	%100	Active
17	M19	X	-0.00039	-0.00039	0	%100	Active
18	M19	Z	0.000225	0.000225	0	%100	Active
19	M24	X	-0.000117	-0.000117	0	%100	Active
20	M24	Z	6.8e-05	6.8e-05	0	%100	Active
21	M25	X	-0.000117	-0.000117	0	%100	Active
22	M25	Z	6.8e-05	6.8e-05	0	%100	Active
23	M26	X	-0.000117	-0.000117	0	%100	Active
24	M26	Z	6.8e-05	6.8e-05	0	%100	Active
25	M27	X	-0.000117	-0.000117	0	%100	Active
26	M27	Z	6.8e-05	6.8e-05	0	%100	Active
27	M28	X	-0.000169	-0.000169	0	%100	Active
28	M28	Z	9.7e-05	9.7e-05	0	%100	Active
29	M29	X	-0.000169	-0.000169	0	%100	Active
30	M29	Z	9.7e-05	9.7e-05	0	%100	Active
31	M30	X	-0.000169	-0.000169	0	%100	Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
32	M30	Z	9.7e-05	9.7e-05	0	%100 Active
33	M31	X	-0.000169	-0.000169	0	%100 Active
34	M31	Z	9.7e-05	9.7e-05	0	%100 Active
35	TB A2	X	-0.00039	-0.00039	0	%100 Active
36	TB A2	Z	0.000225	0.000225	0	%100 Active
37	M37	X	-0.000835	-0.000835	0	%100 Active
38	M37	Z	0.000482	0.000482	0	%100 Active
39	M39	X	-0.000835	-0.000835	0	%100 Active
40	M39	Z	0.000482	0.000482	0	%100 Active
41	PMA4	X	-0.00039	-0.00039	0	%100 Active
42	PMA4	Z	0.000225	0.000225	0	%100 Active
43	PMA3	X	-0.00039	-0.00039	0	%100 Active
44	PMA3	Z	0.000225	0.000225	0	%100 Active
45	PMA2	X	-0.00039	-0.00039	0	%100 Active
46	PMA2	Z	0.000225	0.000225	0	%100 Active
47	PMA1	X	-0.00039	-0.00039	0	%100 Active
48	PMA1	Z	0.000225	0.000225	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	X	-0.000965	-0.000965	0	%100 Active
2	M6	X	-0.000965	-0.000965	0	%100 Active
3	TB A1	X	-0.00045	-0.00045	0	%100 Active
4	M14	X	-0.00071	-0.00071	0	%100 Active
5	M15	X	-0.00071	-0.00071	0	%100 Active
6	M16	X	-0.00045	-0.00045	0	%100 Active
7	M17	X	-0.00045	-0.00045	0	%100 Active
8	M18	X	-0.00045	-0.00045	0	%100 Active
9	M19	X	-0.00045	-0.00045	0	%100 Active
10	M24	X	-0.000135	-0.000135	0	%100 Active
11	M25	X	-0.000135	-0.000135	0	%100 Active
12	M26	X	-0.000135	-0.000135	0	%100 Active
13	M27	X	-0.000135	-0.000135	0	%100 Active
14	M28	X	-0.000195	-0.000195	0	%100 Active
15	M29	X	-0.000195	-0.000195	0	%100 Active
16	M30	X	-0.000195	-0.000195	0	%100 Active
17	M31	X	-0.000195	-0.000195	0	%100 Active
18	TB A2	X	-0.00045	-0.00045	0	%100 Active
19	M37	X	-0.000965	-0.000965	0	%100 Active
20	M39	X	-0.000965	-0.000965	0	%100 Active
21	PMA4	X	-0.00045	-0.00045	0	%100 Active
22	PMA3	X	-0.00045	-0.00045	0	%100 Active
23	PMA2	X	-0.00045	-0.00045	0	%100 Active
24	PMA1	X	-0.00045	-0.00045	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	X	-0.000835	-0.000835	0	%100 Active
2	M4	Z	-0.000482	-0.000482	0	%100 Active
3	M6	X	-0.000835	-0.000835	0	%100 Active
4	M6	Z	-0.000482	-0.000482	0	%100 Active
5	TB A1	X	-0.00039	-0.00039	0	%100 Active
6	TB A1	Z	-0.000225	-0.000225	0	%100 Active
7	M14	X	-0.000615	-0.000615	0	%100 Active
8	M14	Z	-0.000355	-0.000355	0	%100 Active
9	M15	X	-0.000615	-0.000615	0	%100 Active
10	M15	Z	-0.000355	-0.000355	0	%100 Active
11	M16	X	-0.00039	-0.00039	0	%100 Active



Company : FDH-IS
 Designer : DRD
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Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
11	M16	X	-0.00039	-0.00039	0	%100 Active
12	M16	Z	-0.000225	-0.000225	0	%100 Active
13	M17	X	-0.00039	-0.00039	0	%100 Active
14	M17	Z	-0.000225	-0.000225	0	%100 Active
15	M18	X	-0.00039	-0.00039	0	%100 Active
16	M18	Z	-0.000225	-0.000225	0	%100 Active
17	M19	X	-0.00039	-0.00039	0	%100 Active
18	M19	Z	-0.000225	-0.000225	0	%100 Active
19	M24	X	-0.000117	-0.000117	0	%100 Active
20	M24	Z	-6.8e-05	-6.8e-05	0	%100 Active
21	M25	X	-0.000117	-0.000117	0	%100 Active
22	M25	Z	-6.8e-05	-6.8e-05	0	%100 Active
23	M26	X	-0.000117	-0.000117	0	%100 Active
24	M26	Z	-6.8e-05	-6.8e-05	0	%100 Active
25	M27	X	-0.000117	-0.000117	0	%100 Active
26	M27	Z	-6.8e-05	-6.8e-05	0	%100 Active
27	M28	X	-0.000169	-0.000169	0	%100 Active
28	M28	Z	-9.7e-05	-9.7e-05	0	%100 Active
29	M29	X	-0.000169	-0.000169	0	%100 Active
30	M29	Z	-9.7e-05	-9.7e-05	0	%100 Active
31	M30	X	-0.000169	-0.000169	0	%100 Active
32	M30	Z	-9.7e-05	-9.7e-05	0	%100 Active
33	M31	X	-0.000169	-0.000169	0	%100 Active
34	M31	Z	-9.7e-05	-9.7e-05	0	%100 Active
35	TB A2	X	-0.00039	-0.00039	0	%100 Active
36	TB A2	Z	-0.000225	-0.000225	0	%100 Active
37	M37	X	-0.000835	-0.000835	0	%100 Active
38	M37	Z	-0.000482	-0.000482	0	%100 Active
39	M39	X	-0.000835	-0.000835	0	%100 Active
40	M39	Z	-0.000482	-0.000482	0	%100 Active
41	PMA4	X	-0.00039	-0.00039	0	%100 Active
42	PMA4	Z	-0.000225	-0.000225	0	%100 Active
43	PMA3	X	-0.00039	-0.00039	0	%100 Active
44	PMA3	Z	-0.000225	-0.000225	0	%100 Active
45	PMA2	X	-0.00039	-0.00039	0	%100 Active
46	PMA2	Z	-0.000225	-0.000225	0	%100 Active
47	PMA1	X	-0.00039	-0.00039	0	%100 Active
48	PMA1	Z	-0.000225	-0.000225	0	%100 Active

Member Distributed Loads

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]
1	M4	X	-0.000482	-0.000482	0	%100 Active
2	M4	Z	-0.000835	-0.000835	0	%100 Active
3	M6	X	-0.000482	-0.000482	0	%100 Active
4	M6	Z	-0.000835	-0.000835	0	%100 Active
5	TB A1	X	-0.000225	-0.000225	0	%100 Active
6	TB A1	Z	-0.00039	-0.00039	0	%100 Active
7	M14	X	-0.000355	-0.000355	0	%100 Active
8	M14	Z	-0.000615	-0.000615	0	%100 Active
9	M15	X	-0.000355	-0.000355	0	%100 Active
10	M15	Z	-0.000615	-0.000615	0	%100 Active
11	M16	X	-0.000225	-0.000225	0	%100 Active
12	M16	Z	-0.00039	-0.00039	0	%100 Active
13	M17	X	-0.000225	-0.000225	0	%100 Active
14	M17	Z	-0.00039	-0.00039	0	%100 Active
15	M18	X	-0.000225	-0.000225	0	%100 Active
16	M18	Z	-0.00039	-0.00039	0	%100 Active
17	M19	X	-0.000225	-0.000225	0	%100 Active



Member Distributed Loads (Continued)

Member Label	Direction	Start Magnitude [k/ft, F, ksf]	End Magnitude [k/ft, F, ksf]	Start Location [(in, %)]	End Location [(in, %)]	Inactive [(k, k-ft), (in, rad), (k*s ² /in, k*s ² *in)]	
18	M19	Z	-0.00039	-0.00039	0	%100	Active
19	M24	X	-6.8e-05	-6.8e-05	0	%100	Active
20	M24	Z	-0.000117	-0.000117	0	%100	Active
21	M25	X	-6.8e-05	-6.8e-05	0	%100	Active
22	M25	Z	-0.000117	-0.000117	0	%100	Active
23	M26	X	-6.8e-05	-6.8e-05	0	%100	Active
24	M26	Z	-0.000117	-0.000117	0	%100	Active
25	M27	X	-6.8e-05	-6.8e-05	0	%100	Active
26	M27	Z	-0.000117	-0.000117	0	%100	Active
27	M28	X	-9.7e-05	-9.7e-05	0	%100	Active
28	M28	Z	-0.000169	-0.000169	0	%100	Active
29	M29	X	-9.7e-05	-9.7e-05	0	%100	Active
30	M29	Z	-0.000169	-0.000169	0	%100	Active
31	M30	X	-9.7e-05	-9.7e-05	0	%100	Active
32	M30	Z	-0.000169	-0.000169	0	%100	Active
33	M31	X	-9.7e-05	-9.7e-05	0	%100	Active
34	M31	Z	-0.000169	-0.000169	0	%100	Active
35	TB A2	X	-0.000225	-0.000225	0	%100	Active
36	TB A2	Z	-0.00039	-0.00039	0	%100	Active
37	M37	X	-0.000482	-0.000482	0	%100	Active
38	M37	Z	-0.000835	-0.000835	0	%100	Active
39	M39	X	-0.000482	-0.000482	0	%100	Active
40	M39	Z	-0.000835	-0.000835	0	%100	Active
41	PMA4	X	-0.000225	-0.000225	0	%100	Active
42	PMA4	Z	-0.00039	-0.00039	0	%100	Active
43	PMA3	X	-0.000225	-0.000225	0	%100	Active
44	PMA3	Z	-0.00039	-0.00039	0	%100	Active
45	PMA2	X	-0.000225	-0.000225	0	%100	Active
46	PMA2	Z	-0.00039	-0.00039	0	%100	Active
47	PMA1	X	-0.000225	-0.000225	0	%100	Active
48	PMA1	Z	-0.00039	-0.00039	0	%100	Active

Basic Load Cases

	BLC Description	Category	Y Gravity	Point	Distributed
1	Wind 0 Deg - No Ice	None		10	27
2	Wind 30 Deg - No Ice	None		20	48
3	Wind 60 Deg - No Ice	None		20	48
4	Wind 90 Deg - No Ice	None		10	24
5	Wind 120 Deg - No Ice	None		20	48
6	Wind 150 Deg - No Ice	None		20	48
7	Wind 180 Deg - No Ice	None		10	27
8	Wind 210 Deg - No Ice	None		20	48
9	Wind 240 Deg - No Ice	None		20	48
10	Wind 270 Deg - No Ice	None		10	24
11	Wind 300 Deg - No Ice	None		20	48
12	Wind 330 Deg - No Ice	None		20	48
13	Wind 0 Deg - Ice	None		10	27
14	Wind 30 Deg - Ice	None		20	48
15	Wind 60 Deg - Ice	None		20	48
16	Wind 90 Deg - Ice	None		10	24
17	Wind 120 Deg - Ice	None		20	48
18	Wind 150 Deg - Ice	None		20	48
19	Wind 180 Deg - Ice	None		10	27
20	Wind 210 Deg - Ice	None		20	48
21	Wind 240 Deg - Ice	None		20	48
22	Wind 270 Deg - Ice	None		10	24
23	Wind 300 Deg - Ice	None		20	48
24	Wind 330 Deg - Ice	None		20	48



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

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Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Point	Distributed
25	Wind 0 Deg - Maintenance	None		10	27
26	Wind 30 Deg - Maintenance	None		20	48
27	Wind 60 Deg - Maintenance	None		20	48
28	Wind 90 Deg - Maintenance	None		10	24
29	Wind 120 Deg - Maintenance	None		20	48
30	Wind 150 Deg - Maintenance	None		20	48
31	Wind 180 Deg - Maintenance	None		10	27
32	Wind 210 Deg - Maintenance	None		20	48
33	Wind 240 Deg - Maintenance	None		20	48
34	Wind 270 Deg - Maintenance	None		10	24
35	Wind 300 Deg - Maintenance	None		20	48
36	Wind 330 Deg - Maintenance	None		20	48
37	Dead	None	-1	10	
38	Dead - Ice	None		10	24
39	Maint. Pipe Load 1	None		1	
40	Maint. Pipe Load 2	None		1	
41	Maint. Pipe Load 3	None		1	
42	Maint. Pipe Load 4	None		1	
43	Maint. Horz. Load 1	None		1	
44	Maint. Horz. Load 2	None		1	
45	Maint. Horz. Load 3	None		1	
46	Maint. Horz. Load 4	None		1	
47	Maint. Horz. Load 5	None		1	
48	Maint. Horz. Load 6	None		1	
49	Maint. Horz. Load 7	None		1	
50	Maint. Horz. Load 8	None		1	
51	Maint. Horz. Load 9	None		1	
52	Maint. Horz. Load 10	None		1	
53	Maint. Horz. Load 11	None		1	
54	Maint. Horz. Load 12	None		1	
55	Maint. Horz. Load 13	None		1	
56	Maint. Horz. Load 14	None		1	
57	Maint. Horz. Load 15	None		1	
58	Maint. Horz. Load 16	None		1	
59	Maint. Horz. Load 17	None		1	
60	Maint. Horz. Load 18	None		1	
61	Maint. Horz. Load 19	None		1	
62	Maint. Horz. Load 20	None		1	
63	Maint. Horz. Load 21	None		1	
64	Maint. Horz. Load 22	None		1	
65	Maint. Horz. Load 23	None		1	
66	Maint. Horz. Load 24	None		1	
67	Maint. Horz. Load 25	None		1	
68	Maint. Horz. Load 26	None		1	
69	Maint. Horz. Load 27	None		1	
70	Maint. Horz. Load 28	None		1	
71	Maint. Horz. Load 29	None		1	
72	Maint. Horz. Load 30	None		1	
73	Earthquake 0 Deg	None		10	24
74	Earthquake 30 Deg	None		20	48
75	Earthquake 60 Deg	None		20	48
76	Earthquake 90 Deg	None		10	24
77	Earthquake 120 Deg	None		20	48
78	Earthquake 150 Deg	None		20	48
79	Earthquake 180 Deg	None		10	24
80	Earthquake 210 Deg	None		20	48
81	Earthquake 240 Deg	None		20	48
82	Earthquake 270 Deg	None		10	24



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

2/10/2021
 6:36:54 PM
 Checked By : _____

Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Point	Distributed
83	Earthquake 300 Deg	None		20	48
84	Earthquake 330 Deg	None		20	48

Load Combinations

	Description	Solve	PDelta	BLC	Factor	BLC	Factor	BLC	Factor
1	1.2 Dead + 1.0 Wind 0 deg	Yes	Y	37	1.2	1	1		
2	1.2 Dead + 1.0 Wind 30 deg	Yes	Y	37	1.2	2	1		
3	1.2 Dead + 1.0 Wind 60 deg	Yes	Y	37	1.2	3	1		
4	1.2 Dead + 1.0 Wind 90 deg	Yes	Y	37	1.2	4	1		
5	1.2 Dead + 1.0 Wind 120 deg	Yes	Y	37	1.2	5	1		
6	1.2 Dead + 1.0 Wind 150 deg	Yes	Y	37	1.2	6	1		
7	1.2 Dead + 1.0 Wind 180 deg	Yes	Y	37	1.2	7	1		
8	1.2 Dead + 1.0 Wind 210 deg	Yes	Y	37	1.2	8	1		
9	1.2 Dead + 1.0 Wind 240 deg	Yes	Y	37	1.2	9	1		
10	1.2 Dead + 1.0 Wind 270 deg	Yes	Y	37	1.2	10	1		
11	1.2 Dead + 1.0 Wind 300 deg	Yes	Y	37	1.2	11	1		
12	1.2 Dead + 1.0 Wind 330 deg	Yes	Y	37	1.2	12	1		
13	0.9 Dead + 1.0 Wind 0 deg	Yes	Y	37	0.9	1	1		
14	0.9 Dead + 1.0 Wind 30 deg	Yes	Y	37	0.9	2	1		
15	0.9 Dead + 1.0 Wind 60 deg	Yes	Y	37	0.9	3	1		
16	0.9 Dead + 1.0 Wind 90 deg	Yes	Y	37	0.9	4	1		
17	0.9 Dead + 1.0 Wind 120 deg	Yes	Y	37	0.9	5	1		
18	0.9 Dead + 1.0 Wind 150 deg	Yes	Y	37	0.9	6	1		
19	0.9 Dead + 1.0 Wind 180 deg	Yes	Y	37	0.9	7	1		
20	0.9 Dead + 1.0 Wind 210 deg	Yes	Y	37	0.9	8	1		
21	0.9 Dead + 1.0 Wind 240 deg	Yes	Y	37	0.9	9	1		
22	0.9 Dead + 1.0 Wind 270 deg	Yes	Y	37	0.9	10	1		
23	0.9 Dead + 1.0 Wind 300 deg	Yes	Y	37	0.9	11	1		
24	0.9 Dead + 1.0 Wind 330 deg	Yes	Y	37	0.9	12	1		
25	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 0 deg	Yes	Y	37	1.2	38	1	13	1
26	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 30 deg	Yes	Y	37	1.2	38	1	14	1
27	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 60 deg	Yes	Y	37	1.2	38	1	15	1
28	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 90 deg	Yes	Y	37	1.2	38	1	16	1
29	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 120 deg	Yes	Y	37	1.2	38	1	17	1
30	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 150 deg	Yes	Y	37	1.2	38	1	18	1
31	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 180 deg	Yes	Y	37	1.2	38	1	19	1
32	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 210 deg	Yes	Y	37	1.2	38	1	20	1
33	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 240 deg	Yes	Y	37	1.2	38	1	21	1
34	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 270 deg	Yes	Y	37	1.2	38	1	22	1
35	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 300 deg	Yes	Y	37	1.2	38	1	23	1
36	1.2 Dead + 1.0 Ice + 1.0 Ice Wind 330 deg	Yes	Y	37	1.2	38	1	24	1
37	1.4 Dead Only	Yes	Y	37	1.4				
38	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 0 deg	Yes	Y	37	1.2	39	1.5	25	1
39	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 30 deg	Yes	Y	37	1.2	39	1.5	26	1
40	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 60 deg	Yes	Y	37	1.2	39	1.5	27	1
41	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 90 deg	Yes	Y	37	1.2	39	1.5	28	1
42	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 120 deg	Yes	Y	37	1.2	39	1.5	29	1
43	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 150 deg	Yes	Y	37	1.2	39	1.5	30	1
44	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 180 deg	Yes	Y	37	1.2	39	1.5	31	1
45	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 210 deg	Yes	Y	37	1.2	39	1.5	32	1
46	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 240 deg	Yes	Y	37	1.2	39	1.5	33	1
47	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 270 deg	Yes	Y	37	1.2	39	1.5	34	1
48	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 300 deg	Yes	Y	37	1.2	39	1.5	35	1
49	1.2 Dead + 1.5 Maint. Pipe Load 1 + 1.0 Maint. Wind 330 deg	Yes	Y	37	1.2	39	1.5	36	1
50	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 0 deg	Yes	Y	37	1.2	40	1.5	25	1
51	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 30 deg	Yes	Y	37	1.2	40	1.5	26	1
52	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 60 deg	Yes	Y	37	1.2	40	1.5	27	1
53	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 90 deg	Yes	Y	37	1.2	40	1.5	28	1



Load Combinations (Continued)

	Description	Solve	PDelta	BLC	Factor	BLC	Factor	BLC	Factor
54	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 120 deg	Yes	Y	37	1.2	40	1.5	29	1
55	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 150 deg	Yes	Y	37	1.2	40	1.5	30	1
56	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 180 deg	Yes	Y	37	1.2	40	1.5	31	1
57	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 210 deg	Yes	Y	37	1.2	40	1.5	32	1
58	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 240 deg	Yes	Y	37	1.2	40	1.5	33	1
59	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 270 deg	Yes	Y	37	1.2	40	1.5	34	1
60	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 300 deg	Yes	Y	37	1.2	40	1.5	35	1
61	1.2 Dead + 1.5 Maint. Pipe Load 2 + 1.0 Maint. Wind 330 deg	Yes	Y	37	1.2	40	1.5	36	1
62	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 0 deg	Yes	Y	37	1.2	41	1.5	25	1
63	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 30 deg	Yes	Y	37	1.2	41	1.5	26	1
64	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 60 deg	Yes	Y	37	1.2	41	1.5	27	1
65	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 90 deg	Yes	Y	37	1.2	41	1.5	28	1
66	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 120 deg	Yes	Y	37	1.2	41	1.5	29	1
67	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 150 deg	Yes	Y	37	1.2	41	1.5	30	1
68	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 180 deg	Yes	Y	37	1.2	41	1.5	31	1
69	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 210 deg	Yes	Y	37	1.2	41	1.5	32	1
70	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 240 deg	Yes	Y	37	1.2	41	1.5	33	1
71	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 270 deg	Yes	Y	37	1.2	41	1.5	34	1
72	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 300 deg	Yes	Y	37	1.2	41	1.5	35	1
73	1.2 Dead + 1.5 Maint. Pipe Load 3 + 1.0 Maint. Wind 330 deg	Yes	Y	37	1.2	41	1.5	36	1
74	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 0 deg	Yes	Y	37	1.2	42	1.5	25	1
75	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 30 deg	Yes	Y	37	1.2	42	1.5	26	1
76	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 60 deg	Yes	Y	37	1.2	42	1.5	27	1
77	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 90 deg	Yes	Y	37	1.2	42	1.5	28	1
78	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 120 deg	Yes	Y	37	1.2	42	1.5	29	1
79	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 150 deg	Yes	Y	37	1.2	42	1.5	30	1
80	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 180 deg	Yes	Y	37	1.2	42	1.5	31	1
81	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 210 deg	Yes	Y	37	1.2	42	1.5	32	1
82	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 240 deg	Yes	Y	37	1.2	42	1.5	33	1
83	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 270 deg	Yes	Y	37	1.2	42	1.5	34	1
84	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 300 deg	Yes	Y	37	1.2	42	1.5	35	1
85	1.2 Dead + 1.5 Maint. Pipe Load 4 + 1.0 Maint. Wind 330 deg	Yes	Y	37	1.2	42	1.5	36	1
86	1.2 Dead + 1.5 Maint. Horz. Load 1	Yes	Y	37	1.2	43	1.5		
87	1.2 Dead + 1.5 Maint. Horz. Load 2	Yes	Y	37	1.2	44	1.5		
88	1.2 Dead + 1.5 Maint. Horz. Load 3	Yes	Y	37	1.2	45	1.5		
89	1.2 Dead + 1.5 Maint. Horz. Load 4	Yes	Y	37	1.2	46	1.5		
90	1.2 Dead + 1.5 Maint. Horz. Load 5	Yes	Y	37	1.2	47	1.5		
91	1.2 Dead + 1.5 Maint. Horz. Load 6	Yes	Y	37	1.2	48	1.5		
92	1.2 Dead + 1.5 Maint. Horz. Load 7	Yes	Y	37	1.2	49	1.5		
93	1.2 Dead + 1.5 Maint. Horz. Load 8	Yes	Y	37	1.2	50	1.5		
94	1.2 Dead + 1.5 Maint. Horz. Load 9	Yes	Y	37	1.2	51	1.5		
95	1.2 Dead + 1.5 Maint. Horz. Load 10	Yes	Y	37	1.2	52	1.5		
96	1.2 Dead + 1.5 Maint. Horz. Load 11	Yes	Y	37	1.2	53	1.5		
97	1.2 Dead + 1.5 Maint. Horz. Load 12	Yes	Y	37	1.2	54	1.5		
98	1.2 Dead + 1.5 Maint. Horz. Load 13	Yes	Y	37	1.2	55	1.5		
99	1.2 Dead + 1.5 Maint. Horz. Load 14	Yes	Y	37	1.2	56	1.5		
100	1.2 Dead + 1.5 Maint. Horz. Load 15	Yes	Y	37	1.2	57	1.5		
101	1.2 Dead + 1.5 Maint. Horz. Load 16	Yes	Y	37	1.2	58	1.5		
102	1.2 Dead + 1.5 Maint. Horz. Load 17	Yes	Y	37	1.2	59	1.5		
103	1.2 Dead + 1.5 Maint. Horz. Load 18	Yes	Y	37	1.2	60	1.5		
104	1.2 Dead + 1.5 Maint. Horz. Load 19	Yes	Y	37	1.2	61	1.5		
105	1.2 Dead + 1.5 Maint. Horz. Load 20	Yes	Y	37	1.2	62	1.5		
106	1.2 Dead + 1.5 Maint. Horz. Load 21	Yes	Y	37	1.2	63	1.5		
107	1.2 Dead + 1.5 Maint. Horz. Load 22	Yes	Y	37	1.2	64	1.5		
108	1.2 Dead + 1.5 Maint. Horz. Load 23	Yes	Y	37	1.2	65	1.5		
109	1.2 Dead + 1.5 Maint. Horz. Load 24	Yes	Y	37	1.2	66	1.5		
110	1.2 Dead + 1.5 Maint. Horz. Load 25	Yes	Y	37	1.2	67	1.5		
111	1.2 Dead + 1.5 Maint. Horz. Load 26	Yes	Y	37	1.2	68	1.5		

Load Combinations (Continued)

	Description	Solve	PDelta	BLC	Factor	BLC	Factor	BLC	Factor
112	1.2 Dead + 1.5 Maint. Horz. Load 27	Yes	Y	37	1.2	69	1.5		
113	1.2 Dead + 1.5 Maint. Horz. Load 28	Yes	Y	37	1.2	70	1.5		
114	1.2 Dead + 1.5 Maint. Horz. Load 29	Yes	Y	37	1.2	71	1.5		
115	1.2 Dead + 1.5 Maint. Horz. Load 30	Yes	Y	37	1.2	72	1.5		
116	1.2 Dead + 1.0 Earthquake 0 deg	Yes	Y	37	1.2	73	1		
117	1.2 Dead + 1.0 Earthquake 30 deg	Yes	Y	37	1.2	74	1		
118	1.2 Dead + 1.0 Earthquake 60 deg	Yes	Y	37	1.2	75	1		
119	1.2 Dead + 1.0 Earthquake 90 deg	Yes	Y	37	1.2	76	1		
120	1.2 Dead + 1.0 Earthquake 120 deg	Yes	Y	37	1.2	77	1		
121	1.2 Dead + 1.0 Earthquake 150 deg	Yes	Y	37	1.2	78	1		
122	1.2 Dead + 1.0 Earthquake 180 deg	Yes	Y	37	1.2	79	1		
123	1.2 Dead + 1.0 Earthquake 210 deg	Yes	Y	37	1.2	80	1		
124	1.2 Dead + 1.0 Earthquake 240 deg	Yes	Y	37	1.2	81	1		
125	1.2 Dead + 1.0 Earthquake 270 deg	Yes	Y	37	1.2	82	1		
126	1.2 Dead + 1.0 Earthquake 300 deg	Yes	Y	37	1.2	83	1		
127	1.2 Dead + 1.0 Earthquake 330 deg	Yes	Y	37	1.2	84	1		

Envelope Node Reactions

Node Label	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1 N31	max	1.432	80	1.889	31	0.177	14	-0.597	13	0	127	0.926	49
2	min	-0.238	13	0.671	13	-0.945	32	-1.651	35	0	1	-1.202	79
3 N32	max	0.873	48	0.465	103	1.418	25	-0.041	19	0	127	0.243	106
4	min	-1.133	78	0.035	19	-0.243	19	-0.376	103	0	1	-0.235	103
5 N72	max	0	127	0	127	0	127	0	127	0	127	0	127
6	min	0	1	0	1	0	1	0	1	0	1	0	1
7 N133	max	0.619	11	0.011	28	0.274	11	0	127	0	127	0	127
8	min	-0.588	17	0.004	24	-0.26	17	0	1	0	1	0	1
9 N197	max	0.104	13	0.043	32	0.119	13	0	127	0	127	0	127
10	min	-1.157	44	0.015	13	-1.045	44	0	1	0	1	0	1
11 N198	max	0	127	0	127	0	127	0	127	0	127	0	127
12	min	0	1	0	1	0	1	0	1	0	1	0	1
13 Totals:	max	0.833	10	2.123	29	1.43	1						
14	min	-0.833	16	0.79	24	-1.43	19						

Envelope Node Displacements

Node Label	X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC	
1 TF6	max	0.001	14	-0.009	21	0.014	80	1.953e-3	8	2.339e-3	6	5.06e-3	79
2	min	-0.006	81	-0.064	76	-0.003	13	-8.038e-4	14	-2.34e-3	24	-2.127e-4	24
3 TF5	max	0.013	39	-0.002	18	0.005	20	6.654e-4	54	2.742e-3	2	9.083e-6	18
4	min	0	20	-0.054	49	-0.01	75	-9.136e-4	48	-2.458e-3	20	-4.433e-3	49
5 N57A	max	0.001	15	0	78	0.001	9	1.921e-4	107	1.165e-4	17	2.098e-5	15
6	min	-0.002	9	0	48	-0.001	15	1.939e-5	80	-1.373e-4	11	-1.789e-4	107
7 N56A	max	0.019	78	0	18	0.015	48	1.553e-4	104	1.775e-3	78	4.343e-5	55
8	min	-0.017	48	0	104	-0.017	78	5.066e-6	91	-1.654e-3	48	-1.363e-4	104
9 N55A	max	0.019	78	0	19	0.017	78	1.735e-4	101	1.756e-3	78	1.167e-4	101
10	min	-0.017	48	0	101	-0.016	48	1.033e-5	18	-1.652e-3	48	-6.598e-5	69
11 N54A	max	0.001	14	0	24	0.001	15	2.239e-4	98	1.781e-4	14	1.788e-4	98
12	min	-0.002	8	0	79	-0.001	9	4.416e-5	17	-1.825e-4	8	-5.218e-5	24
13 N53	max	0.009	6	0	79	0.008	24	1.296e-3	50	7.412e-4	6	2.302e-4	17
14	min	-0.008	24	-0.015	49	-0.01	6	1.751e-5	107	-6.162e-4	24	-1.043e-3	48
15 N52	max	0.048	79	0	79	0.046	12	1.277e-3	56	1.827e-3	18	2.826e-4	104
16	min	-0.049	12	-0.011	49	-0.046	79	-1.784e-5	104	-1.936e-3	12	-8.289e-4	48
17 N51	max	0.047	76	0	48	0.043	76	1.675e-3	68	1.401e-3	76	6.835e-4	79
18	min	-0.044	46	-0.012	78	-0.043	46	1.049e-4	13	-1.54e-3	9	-4.105e-4	12
19 N50	max	0.009	2	-0.001	21	0.009	2	1.604e-3	62	6.374e-4	12	8.664e-4	77
20	min	-0.007	20	-0.016	76	-0.006	20	-7.78e-5	19	-4.097e-4	18	-4.065e-4	22
21 N18	max	0.057	78	0	23	0.209	18	2.043e-3	12	4.452e-3	18	4.611e-3	78

Envelope Node Displacements (Continued)

Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC	
22		min	-0.052	48	-0.307	78	-0.226	12	-1.095e-3	18	-4.677e-3	12	-5.348e-4	23
23	N17	max	0.056	78	-0.006	24	0.046	76	2.177e-3	1	2.792e-3	18	3.934e-3	76
24		min	-0.052	48	-0.04	79	-0.046	46	-7.25e-4	19	-2.833e-3	12	-3.151e-4	21
25	N16	max	0.056	78	-0.003	79	0.048	12	1.432e-3	52	2.443e-3	14	-1.114e-4	18
26		min	-0.053	48	-0.032	49	-0.049	79	-3.374e-4	21	-2.558e-3	8	-3.834e-3	49
27	N15	max	0.056	78	-0.008	18	0.199	20	1.529e-3	3	4.915e-3	2	5.123e-4	17
28		min	-0.053	48	-0.293	49	-0.202	2	-1.242e-3	21	-4.807e-3	20	-4.552e-3	48
29	N14	max	0.01	76	-0.007	18	0.168	20	1.44e-3	18	4.869e-3	2	1.783e-4	18
30		min	-0.004	21	-0.296	49	-0.176	2	-1.488e-3	94	-4.713e-3	20	-4.838e-3	49
31	N13	max	0.01	76	-0.002	18	0.008	24	8.656e-4	55	2.189e-3	2	3.641e-5	18
32		min	-0.004	21	-0.034	49	-0.01	6	-4.428e-4	24	-1.926e-3	20	-3.467e-3	49
33	N12	max	0.009	76	-0.008	19	0.009	75	1.956e-3	8	1.76e-3	18	3.939e-3	79
34		min	-0.003	21	-0.041	74	-0.006	20	-7.701e-4	14	-1.871e-3	12	-1.478e-4	24
35	N11	max	0.009	76	0	23	0.163	6	1.877e-3	9	4.525e-3	6	4.59e-3	78
36		min	-0.003	21	-0.307	78	-0.155	24	-1.049e-3	15	-4.439e-3	24	-6.325e-4	23
37	N10	max	0.01	6	0	79	0.009	24	4.006e-3	49	2.154e-3	2	-8.928e-5	18
38		min	-0.009	24	-0.018	49	-0.011	6	4.802e-4	18	-1.938e-3	20	-4.209e-3	49
39	N9	max	0.001	15	0	79	0.001	9	0	49	1.205e-4	15	0	78
40		min	-0.001	9	0	49	0	15	0	18	-1.64e-4	9	0	48
41	N8	max	0.016	78	0	103	0.013	48	0	104	1.822e-3	78	0	103
42		min	-0.015	48	0	104	-0.014	78	0	20	-1.697e-3	48	0	104
43	N7	max	0.05	79	0	79	0.049	12	4.39e-3	49	2.399e-3	14	-3.009e-4	18
44		min	-0.052	12	-0.014	49	-0.048	79	7.798e-4	79	-2.529e-3	8	-4.513e-3	49
45	N6	max	0	15	0	13	0	32	0	35	1.205e-4	15	0	79
46		min	0	9	0	32	0	14	0	13	-1.64e-4	9	0	49
47	N5	max	0.005	78	0	19	0	19	0	101	1.822e-3	78	0	103
48		min	-0.005	48	0	103	0	25	0	19	-1.697e-3	48	0	106
49	N4	max	0.049	76	0	24	0.045	76	5.706e-3	79	2.752e-3	18	5.105e-3	79
50		min	-0.046	46	-0.016	79	-0.045	46	7.228e-4	24	-2.775e-3	12	1.037e-5	24
51	N3	max	0.016	78	0	106	0.014	78	0	101	1.822e-3	78	0	101
52		min	-0.015	48	0	101	-0.013	48	0	18	-1.697e-3	48	0	106
53	N2	max	0.001	15	0	49	0	15	0	79	1.205e-4	15	0	79
54		min	-0.001	9	0	79	-0.001	9	0	24	-1.64e-4	9	0	49
55	N1	max	0.01	2	-0.001	20	0.01	2	5.138e-3	85	1.717e-3	18	4.837e-3	77
56		min	-0.008	20	-0.02	75	-0.007	20	6.63e-4	18	-1.848e-3	12	4.114e-4	22
57	N31	max	0	13	0	13	0	32	0	35	1.205e-4	15	0	79
58		min	0	80	0	31	0	14	0	13	-1.64e-4	9	0	49
59	N32	max	0	78	0	19	0	19	0	103	1.822e-3	78	0	103
60		min	0	48	0	103	0	25	0	19	-1.697e-3	48	0	106
61	N33	max	0.009	76	-0.009	21	0.011	79	1.953e-3	8	2.339e-3	6	5.06e-3	79
62		min	-0.003	21	-0.064	76	-0.004	24	-8.038e-4	14	-2.34e-3	24	-2.127e-4	24
63	N34	max	0.01	76	-0.002	18	0.006	20	6.654e-4	54	2.742e-3	2	9.083e-6	18
64		min	-0.004	21	-0.054	49	-0.012	75	-9.136e-4	48	-2.458e-3	20	-4.433e-3	49
65	N35	max	0.056	78	-0.01	18	0.184	20	1.529e-3	3	4.915e-3	2	5.123e-4	17
66		min	-0.053	48	-0.279	49	-0.187	2	-1.242e-3	21	-4.807e-3	20	-4.551e-3	48
67	N36	max	0.01	76	-0.007	18	0.154	20	1.44e-3	18	4.869e-3	2	1.784e-4	18
68		min	-0.004	21	-0.281	49	-0.162	2	-1.488e-3	94	-4.713e-3	20	-4.838e-3	49
69	N37	max	0.059	76	-0.011	18	0.184	20	1.529e-3	3	4.915e-3	2	5.123e-4	17
70		min	-0.056	9	-0.278	49	-0.187	2	-1.242e-3	21	-4.807e-3	20	-4.551e-3	48
71	N38	max	0.02	2	-0.011	18	0.154	20	1.44e-3	18	4.869e-3	2	1.784e-4	18
72		min	-0.017	20	-0.278	49	-0.162	2	-1.488e-3	94	-4.713e-3	20	-4.838e-3	49
73	N39	max	0.056	78	-0.001	78	0.051	12	1.179e-3	52	1.933e-3	14	1.061e-4	95
74		min	-0.053	48	-0.021	60	-0.049	18	-4.141e-4	21	-2.096e-3	8	-2.421e-3	49
75	N40	max	0.06	78	-0.003	20	0.051	12	1.179e-3	52	1.933e-3	14	1.061e-4	95
76		min	-0.057	48	-0.025	51	-0.049	18	-4.141e-4	21	-2.096e-3	8	-2.421e-3	49
77	N43	max	0.056	78	-0.005	14	0.038	76	2.393e-3	1	2.557e-3	18	2.508e-3	76
78		min	-0.053	48	-0.027	69	-0.04	9	-1.235e-3	19	-2.573e-3	12	-5.567e-4	21
79	N44	max	0.061	78	-0.006	18	0.038	76	2.393e-3	1	2.557e-3	18	2.508e-3	76

Envelope Node Displacements (Continued)

Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC	
80		min	-0.057	11	-0.031	73	-0.04	9	-1.235e-3	19	-2.573e-3	12	-5.567e-4	21
81	N45	max	0.057	78	-0.001	23	0.196	18	2.043e-3	12	4.452e-3	18	4.611e-3	78
82		min	-0.052	48	-0.293	78	-0.212	12	-1.095e-3	18	-4.676e-3	12	-5.349e-4	23
83	N46	max	0.06	79	-0.007	23	0.196	18	2.043e-3	12	4.452e-3	18	4.611e-3	78
84		min	-0.063	12	-0.294	78	-0.212	12	-1.095e-3	18	-4.676e-3	12	-5.349e-4	23
85	N47	max	0.009	76	-0.003	19	0.016	12	2.011e-3	8	1.417e-3	18	2.503e-3	80
86		min	-0.003	21	-0.028	62	-0.013	18	-1.126e-3	14	-1.553e-3	12	-1.281e-4	92
87	N48	max	0.012	75	-0.003	20	0.017	24	7.387e-4	79	1.676e-3	2	1.94e-4	17
88		min	-0.007	20	-0.025	51	-0.017	6	-5.751e-4	24	-1.419e-3	20	-2.182e-3	48
89	N49	max	0.01	76	-0.002	80	0.017	24	7.387e-4	79	1.676e-3	2	1.94e-4	17
90		min	-0.003	21	-0.023	50	-0.017	6	-5.751e-4	24	-1.419e-3	20	-2.182e-3	48
91	N56	max	0.01	79	-0.006	18	0.016	12	2.011e-3	8	1.417e-3	18	2.503e-3	80
92		min	-0.005	24	-0.031	73	-0.013	18	-1.126e-3	14	-1.553e-3	12	-1.281e-4	92
93	N57	max	0.009	76	-0.002	23	0.15	6	1.877e-3	9	4.525e-3	6	4.59e-3	78
94		min	-0.003	21	-0.293	78	-0.141	24	-1.049e-3	15	-4.439e-3	24	-6.326e-4	23
95	N58	max	0.016	6	-0.007	23	0.15	6	1.877e-3	9	4.525e-3	6	4.59e-3	78
96		min	-0.014	24	-0.294	78	-0.141	24	-1.049e-3	15	-4.439e-3	24	-6.326e-4	23
97	N59	max	0.055	78	-0.003	20	0.048	23	1.185e-3	51	1.933e-3	14	1.512e-4	18
98		min	-0.125	48	-0.025	51	-0.069	78	-4.982e-4	20	-2.096e-3	8	-2.424e-3	49
99	N60	max	0.068	15	-0.011	18	0.221	20	1.66e-3	3	4.915e-3	2	7.41e-4	17
100		min	-0.182	46	-0.278	49	-0.232	2	-1.373e-3	21	-4.807e-3	20	-4.562e-3	48
101	N62	max	0.134	78	-0.006	18	0.121	19	7.084e-3	1	2.557e-3	18	3.437e-3	3
102		min	-0.112	23	-0.031	73	-0.158	1	-5.928e-3	19	-2.573e-3	12	-2.762e-3	21
103	N63	max	0.189	79	-0.007	23	0.229	18	2.145e-3	12	4.452e-3	18	4.618e-3	78
104		min	-0.078	24	-0.294	78	-0.271	12	-1.198e-3	18	-4.676e-3	12	-6.377e-4	23
105	N64	max	0.062	49	-0.003	20	0.021	52	8.311e-4	6	1.676e-3	2	1.254e-4	92
106		min	-0.004	18	-0.025	51	-0.015	46	-6.78e-4	24	-1.419e-3	20	-2.175e-3	49
107	N65	max	0.037	14	-0.006	18	0.124	7	6.4e-3	7	1.417e-3	18	2.633e-3	8
108		min	-0.063	81	-0.031	73	-0.096	13	-5.512e-3	13	-1.553e-3	12	-1.968e-3	14
109	N66	max	0.136	49	-0.011	18	0.167	19	1.693e-3	18	4.869e-3	2	7.023e-5	79
110		min	-0.009	18	-0.278	49	-0.176	1	-1.717e-3	12	-4.713e-3	20	-4.832e-3	49
111	N68	max	0.013	21	-0.007	23	0.152	7	1.936e-3	9	4.525e-3	6	4.583e-3	78
112		min	-0.117	76	-0.294	78	-0.121	13	-1.109e-3	15	-4.439e-3	24	-5.297e-4	23
113	N72	max	0	127	0	127	0	127	0	127	0	127	0	127
114		min	0	1	0	1	0	1	0	1	0	1	0	1
115	N133	max	0	17	0	24	0	17	3.577e-3	81	1.265e-4	13	4.007e-4	20
116		min	0	11	0	28	0	11	-1.416e-4	14	-5.273e-4	80	-8.581e-4	75
117	N197	max	0	44	0	13	0	44	1.329e-3	29	1.537e-3	2	-4.051e-4	18
118		min	0	13	0	32	0	13	-1.586e-3	49	-1.477e-3	20	-3.688e-3	49
119	N198	max	0	127	0	127	0	127	0	127	0	127	0	127
120		min	0	1	0	1	0	1	0	1	0	1	0	1

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

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
1	M39	PL 3 1/2" x 5/8"	0.407	4.778	49	0.059	4.778	y	52	68.306	70.875	0.923	5.168	1.684	H1-1b
2	M4	PL 3 1/2" x 5/8"	0.389	0	79	0.085	0	y	72	68.306	70.875	0.923	5.168	1.649	H1-1b
3	PMA1	PIPE 2.0	0.379	65.684	85	0.055	30.316		82	28.122	32.13	1.872	1.872	3	H1-1b
4	PMA4	PIPE 2.0	0.372	30.316	41	0.051	30.316		43	28.122	32.13	1.872	1.872	3	H1-1b
5	M37	PL 3 1/2" x 5/8"	0.36	4.778	74	0.074	0	y	70	68.306	70.875	0.923	5.168	1.684	H1-1b
6	M6	PL 3 1/2" x 5/8"	0.303	0	48	0.064	0	y	51	68.306	70.875	0.923	5.168	1.649	H1-1b
7	PMA2	PIPE 2.0	0.272	27.789	7	0.051	65.684		76	28.122	32.13	1.872	1.872	1	H1-1b
8	M15	PIPE 2.5	0.253	47.368	81	0.12	47.368		7	41.472	50.715	3.596	3.596	2.363	H1-1b
9	M14	PIPE 2.5	0.253	47.368	78	0.155	106.579		45	41.472	50.715	3.596	3.596	2.313	H1-1b
10	M24	SR 5/8	0.252	40	75	0.008	0		11	4.378	9.94	0.104	0.104	1	H1-1a
11	M27	SR 5/8	0.247	40	49	0.007	40		11	4.378	9.94	0.104	0.104	1.991	H1-1a
12	M16	PIPE 2.0	0.185	30	79	0.167	30		76	29.81	32.13	1.872	1.872	2.56	H1-1b
13	PMA3	PIPE 2.0	0.152	65.684	40	0.045	65.684		49	28.122	32.13	1.872	1.872	1	H1-1b
14	M19	PIPE 2.0	0.137	30	48	0.152	30		46	29.81	32.13	1.872	1.872	2.373	H1-1b



Company : FDH-IS
 Designer : DRD
 Job Number : PR-004677
 Model Name : 10066258: Valley Store

2/10/2021
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Envelope AISC 15th (360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
15	M30	SR 3/4	0.115	0	76	0.007	0	76	3.679	14.314	0.179	0.179	2.848	H1-1b
16	M17	PIPE 2.0	0.108	2.368	79	0.109	1.579	80	29.81	32.13	1.872	1.872	1.612	H1-1b
17	M28	SR 3/4	0.098	47.512	49	0.008	47.512	12	3.679	14.314	0.179	0.179	3	H1-1b
18	M18	PIPE 2.0	0.096	30	104	0.082	1.579	58	29.81	32.13	1.872	1.872	1.997	H1-1b
19	TB A1	PIPE 2.0	0.068	57.455	32	0.005	114.909	26	10.727	32.13	1.872	1.872	1.137	H1-1b
20	M25	SR 5/8	0.041	40	79	0.008	0	78	4.378	9.94	0.104	0.104	1	H1-1b*
21	M26	SR 5/8	0.035	40	48	0.008	0	78	4.378	9.94	0.104	0.104	2.164	H1-1b*
22	TB A2	PIPE 2.0	0.023	29.788	11	0.001	29.788	31	29.842	32.13	1.872	1.872	1.137	H1-1b*
23	M29	SR 3/4	0	47.512	127	0	47.512	127	3.679	14.314	0.179	0.179	1	H1-1a
24	M31	SR 3/4	0	47.512	127	0	47.512	127	3.679	14.314	0.179	0.179	1	H1-1a

EXHIBIT 9

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11346C

CT346/ OptasiteWiltonFT
160 Deer Run Road
Wilton, Connecticut 06897

February 25, 2021

EBI Project Number: 6221000677

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	58.31%

February 25, 2021

T-Mobile

Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11346C - CT346/ OptasiteWiltonFT

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **160 Deer Run Road in Wilton, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 160 Deer Run Road in Wilton, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 6) 2 UMTS channels (AWS Band - 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

- 7) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 8) 1 LTE channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.
- 9) 1 NR channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.
- 10) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 11) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 12) The antennas used in this modeling are the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 13) The antenna mounting height centerline of the proposed antennas is 118 feet above ground level (AGL).
- 14) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 15) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	17.3 dBd / 17.3 dBd	Gain:	17.3 dBd / 17.3 dBd	Gain:	17.3 dBd / 17.3 dBd
Height (AGL):	118 feet	Height (AGL):	118 feet	Height (AGL):	118 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	12,888.76	ERP (W):	12,888.76	ERP (W):	12,888.76
Antenna AI MPE %:	3.69%	Antenna BI MPE %:	3.69%	Antenna CI MPE %:	3.69%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVAALL24_43-U-NA20	Make / Model:	RFS APXVAALL24_43-U-NA20	Make / Model:	RFS APXVAALL24_43-U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 2100 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd / 15.45 dBd / 16.45 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd / 15.45 dBd / 16.45 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd / 15.45 dBd / 16.45 dBd
Height (AGL):	118 feet	Height (AGL):	118 feet	Height (AGL):	118 feet
Channel Count:	9	Channel Count:	9	Channel Count:	9
Total TX Power (W):	380 Watts	Total TX Power (W):	380 Watts	Total TX Power (W):	380 Watts
ERP (W):	11,010.27	ERP (W):	11,010.27	ERP (W):	11,010.27
Antenna A2 MPE %:	4.80%	Antenna B2 MPE %:	4.80%	Antenna C2 MPE %:	4.80%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32
Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd
Height (AGL):	118 feet	Height (AGL):	118 feet	Height (AGL):	118 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	360 Watts	Total TX Power (W):	360 Watts	Total TX Power (W):	360 Watts
ERP (W):	12,841.53	ERP (W):	12,841.53	ERP (W):	12,841.53
Antenna A3 MPE %:	3.68%	Antenna B3 MPE %:	3.68%	Antenna C3 MPE %:	3.68%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	12.17%
AT&T	34.76%
Verizon	6.95%
Sprint	1.13%
Existing various antennas	3.3%
Site Total MPE % :	58.31%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	12.17%
T-Mobile Sector B Total:	12.17%
T-Mobile Sector C Total:	12.17%
Site Total MPE % :	58.31%

T-Mobile Maximum MPE Power Values (Sector A)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 2500 MHz LTE	1	6444.38	118.0	18.47	2500 MHz LTE	1000	1.85%
T-Mobile 2500 MHz NR	1	6444.38	118.0	18.47	2500 MHz NR	1000	1.85%
T-Mobile 600 MHz LTE	2	591.73	118.0	3.39	600 MHz LTE	400	0.85%
T-Mobile 600 MHz NR	1	1577.94	118.0	4.52	600 MHz NR	400	1.13%
T-Mobile 700 MHz LTE	2	695.22	118.0	3.99	700 MHz LTE	467	0.85%
T-Mobile 1900 MHz LTE	2	2104.51	118.0	12.06	1900 MHz LTE	1000	1.21%
T-Mobile 2100 MHz UMTS	2	1324.71	118.0	7.59	2100 MHz UMTS	1000	0.76%
T-Mobile 1900 MHz GSM	4	1028.30	118.0	11.79	1900 MHz GSM	1000	1.18%
T-Mobile 1900 MHz LTE	2	2056.61	118.0	11.79	1900 MHz LTE	1000	1.18%
T-Mobile 2100 MHz LTE	2	2307.55	118.0	13.23	2100 MHz LTE	1000	1.32%
						Total:	12.17%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	12.17%
Sector B:	12.17%
Sector C:	12.17%
T-Mobile Maximum MPE % (Sector A):	12.17%
Site Total:	58.31%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **58.31%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.