

August 4, 2020

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

Regarding: Notice of Exempt Modification – T-Mobile Site #: CT11661A_Anchor
Address: 99 Meadow Street, Hartford, CT

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 123-foot level of the existing 147-foot monopole at the above-referenced address, latitude 41.74319722, longitude -72.6675. The tower is operated by American Tower Corporation.

T-Mobile now intends to modify its existing telecommunications facility by swapping three (3) antennae, adding three (3) antennae, adding six (6) remote radio units (RRU), adding two (2) cables and a new platform mount as more particularly detailed and described on the enclosed Construction Drawings prepared by A.T. Engineering Service, PLLC, last revised July 29, 2020. The centerline height of the existing and proposed antennas is and will remain at 123 feet.

Planned Modifications:

Remove:

- (3) Smart Bias Tees

Remove and Replace:

- (3) LNX-6515DS-VTM Antennae (**Remove**) – (3) APXVAARR24_43U-NA20 Antennae (**Replace**)

Add:

- (3) AIR 6449 B41 Antennae
- (3) 4449 B71 B85A RRU
- (3) 4415 B25 RRU
- (2) 1-1/4" Hybrid Line

Existing to Remain:

- (6) Antennae
- (6) TTA
- (12) 1-5/8" Coax Cables
- (1) 1-5/8" Hybrid Cables

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to American Tower Corporation as tower operator, The Honorable Luke Bronin, Mayor of the City of Hartford as chief elected official and Aimee Chambers, Director of Planning for the City of Hartford.

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an 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 modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the RF emissions calculation for T-Mobile's modified facility dated July 21, 2020 and prepared by EBI Consulting enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated July 9, 2020 and prepared by American Tower Corporation enclosed herewith.*

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

Respectfully submitted,



Jennifer Iliades
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
jiliades@clinellc.com

Enclosures: Exhibit A – Original Facility Approval
Exhibit B – Property Card and GIS
Exhibit C – Construction Drawings
Exhibit D – Structural Analysis Report
Exhibit E – Mount Analysis
Exhibit F – Power Density/RF Emissions Report

cc: American Tower Corporation, tower operator
The Honorable Luke Bronin, Mayor of the City of Hartford
Aimee Chambers, Director of Planning for the City of Hartford

Exhibit A

Original Facility Approval

CT0004

CT-11-001A

BUILDING PERMIT

DEPARTMENT OF LICENSES & INSPECTIONS
CITY OF HARTFORD

Appl. Nbr. 20004768

Permit Nbr. 20005057 GC

THE APPLICANT NAMED BELOW IS HEREBY GRANTED PERMISSION TO
PERFORM WORK AS DESCRIBED HEREIN AT:

0000 0099 MEADOW ST

FLOOR: CONDO:

IN ACCORDANCE WITH THE APPLICATION AND PLANS APPROVED BY
THE DEPARTMENT OF LICENSES AND INSPECTIONS.

Joseph Hewes
Building Official

Date 11/24/00

OWNER: SPECTRASITE COMMUNICATION
ADDRESS: 100 REGENCY FOREST DRIVE
CARY, NC 27511

APPLICANT: JOSEPH F RUSSO
VOICESTREAM WIRELESS
100 FILLEY STREET
BLOOMFIELD, CT 06002

860-692-7100

ESTIMATED COST: \$ 55000.00

Application Date: 11/20/00 Fee: 888.60

DESCRIPTION OF JOB:
INSTALLATION OF TELECOMMUNICATION ANTENNAS AND
ASSOCIATED EQUIPMENT ON EXISTING TELE-COMM. FACILITY AS
APPROVED BY THE CT. SITING COUNCIL 11/16/00. MONPOLE ALREADY
EXISTS.

PARCEL ID.: 229001015

Exhibit B

Property Card

Unofficial Property Record Card - Hartford, CT

General Property Data

| | |
|---|---|
| Parcel ID 275-690-115 Prior Parcel ID Property Owner MEADOW STREET REALTY LLC Mailing Address 99 MEADOW ST City HARTFORD Mailing State CT Zip 06114-1506 ParcelZoning ID-1 | Account Number Property Location 99 MEADOW ST Property Use AUTO REPAIR Most Recent Sale Date 4/7/2000 Legal Reference 04225-0189 Grantor MEADOW STREET REALTY, LLC Sale Price 0 Land Area 124,146.000 acres |
|---|---|

Current Property Assessment

| | | | | |
|--------------|-------------------------|------------------------------|---------------------|----------------------|
| Card 1 Value | Building Value 0 | Xtra Features Value 0 | Land Value 0 | Total Value 0 |
|--------------|-------------------------|------------------------------|---------------------|----------------------|

Building Description

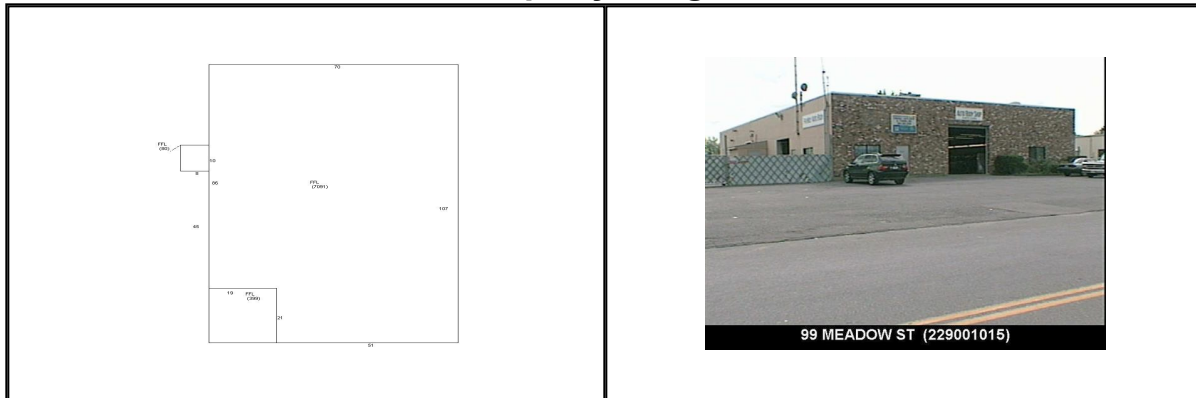
| | | |
|---|--|--|
| Building Style AUTO SERVICE # of Living Units 0 Year Built 1979 Building Grade Average Building Condition N/A Finished Area (SF) N/A Number Rooms 0 # of 3/4 Baths 0 | Foundation Type Concrete Frame Type Wood Frame Roof Structure FLAT Roof Cover Asphalt Siding Conc Block Interior Walls AVERAGE # of Bedrooms 0 # of 1/2 Baths 0 | Flooring Type CONCRETE Basement Floor N/A Heating Type Steam Heating Fuel Gas Air Conditioning 0% # of Bsmt Garages 0 # of Full Baths 0 # of Other Fixtures 0 |
|---|--|--|

Legal Description

Narrative Description of Property

This property contains 124,146.000 acres of land mainly classified as AUTO REPAIR with a(n) AUTO SERVICE style building, built about 1979 , having Conc Block exterior and Asphalt roof cover, with 0 commercial unit(s) and 0 residential unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

Property Images



Disclaimer: This information is believed to be correct but is subject to change and is not warranted.



99 meadow

Tool Tool Labels ✕

Navigation icons: +, -, Hand, Info, Erase, Print, Measure, Rotate, Zoom In, Zoom Out

I want to...

☆ 275690115

99 MEADOW ST
MEADOW STREET REALTY LLC

[Remove from Results](#) [View Additional Details](#)

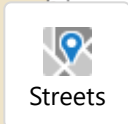
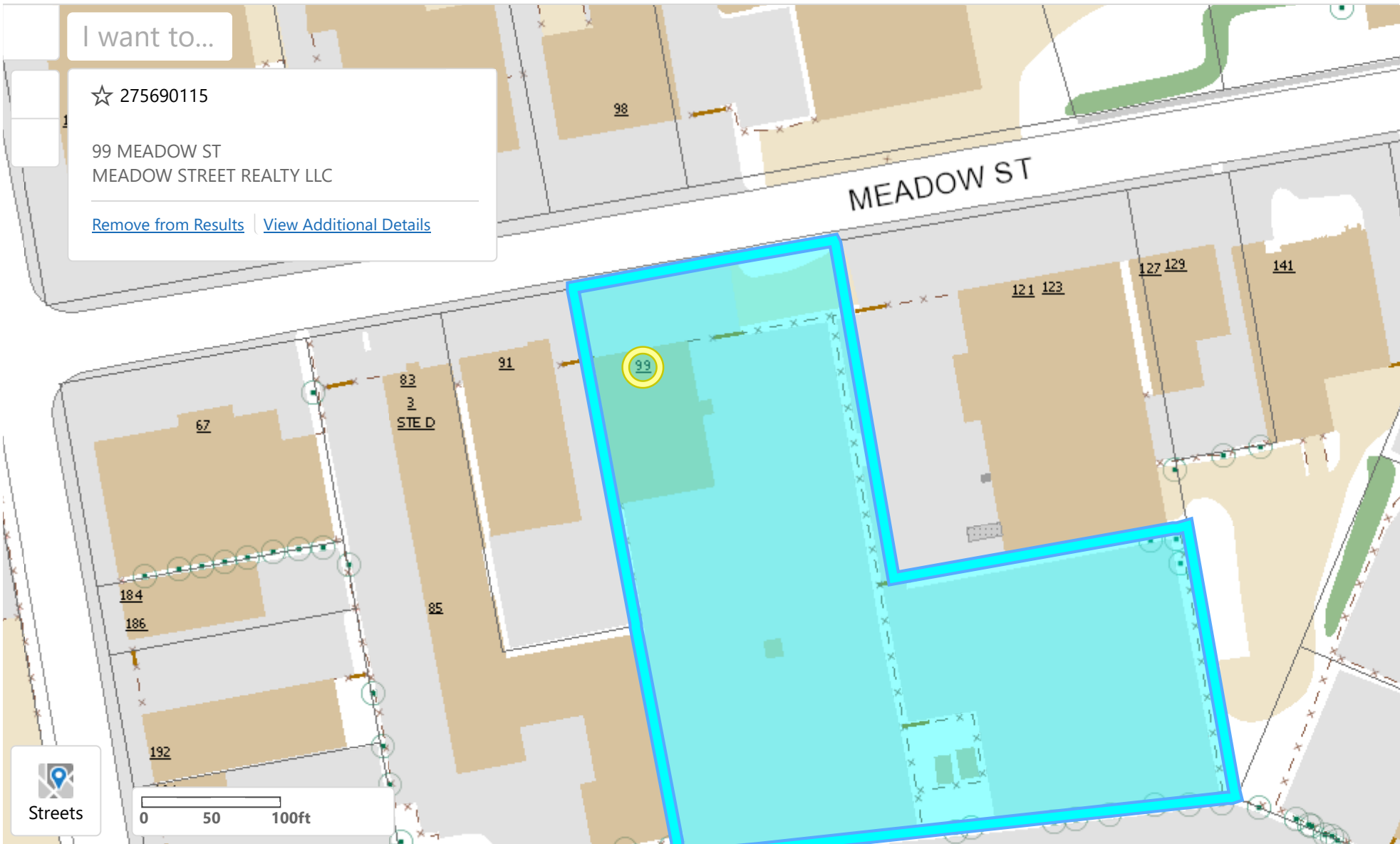


Exhibit C

Construction Drawings



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: PETRO LOCK
 ATC SITE NUMBER: 302468
 T-MOBILE SITE NAME: HARTFORD SOUTH2/FRNKLN AV
 T-MOBILE SITE NUMBER: CT11661A
 SITE ADDRESS: 99 MEADOW ST
 HARTFORD, CT 06114



LOCATION MAP

**T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
 67D5A994DB MUAC+6160 CONFIGURATION**

| COMPLIANCE CODE | PROJECT SUMMARY | PROJECT DESCRIPTION | SHEET INDEX | | | | |
|--|---|---|-------------|--------------|------|-------|-----|
| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES | <u>SITE ADDRESS:</u> 99 MEADOW ST HARTFORD, CT 06114 COUNTY: HARTFORD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.74319722 LONGITUDE: -72.6675 GROUND ELEVATION: 18' AMSL | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (3) ANTENNA(S) AND (3) RRH(S) INSTALL (6) ANTENNA(S), (6) RRH(S), (2) 1-1/4" HYBRID CABLE(S) AND PROPOSED PLATFORM MOUNT EXISTING (6) ANTENNA(S), (6) TTA(S), (12) 1-5/8" COAX CABLE(S) AND (1) 1-5/8" HYBRID CABLE(S) TO REMAIN <u>GROUND WORK:</u> INSTALL (4) BB6630, (1) BB6648, (1) 6160 CABINET ENCLOSURE, (1) B160 BATTERY CABINET, (1) IXRE ROUTER, REMOVE EXISTING NORTEL CABINET EXISTING (1) 6102 CABINET ENCLOSURE TO REMAIN | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
| | <u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> MEADOW ST REALTY LLC 99 MEADOW ST HARTFORD, CT 06114 | <u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. | | | | | |
| <u>UTILITY COMPANIES</u> POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843 | | <u>PROJECT LOCATION DIRECTIONS</u> FROM HARTFORD TAKE I-91 SOUTH TO EXIT 27. TURN RIGHT OFF EXIT AND TAKE 1ST RIGHT ONTO LOCUST. FOLLOW TO MEADOW ST AND TURN LEFT. TOWER IS ON LEFT BEHIND LINEN CO BUSINESS. | | | | | |



Know what's below.
 Call before you dig.

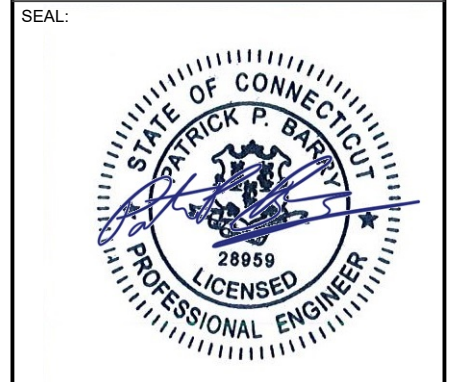
AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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| REV. | DESCRIPTION | BY | DATE |
|------|------------------|----|----------|
| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
| | | | |
| | | | |
| | | | |
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ATC SITE NUMBER:
302468
 ATC SITE NAME:
PETRO LOCK
 T-MOBILE SITE NAME:
HARTFORD SOUTH2/FRNKLN AV

 SITE ADDRESS:
 99 MEADOW ST
 HARTFORD, CT 06114



DATE DRAWN: 07/29/20
 ATC JOB NO: 13252312
 CUSTOMER ID: HARTFORD SOUTH2/FRNKLN AV
 CUSTOMER #: CT11661A

TITLE SHEET

SHEET NUMBER: **G-001** REVISION: **0**

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GENERAL CONSTRUCTION NOTES:

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

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

COAXIAL CABLE (NOT WITHIN BENDS)

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

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

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



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|----|----------|
| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
| | | | |
| | | | |
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ATC SITE NUMBER:
302468
 ATC SITE NAME:
PETRO LOCK
 T-MOBILE SITE NAME:
HARTFORD SOUTH2/FRNKLN AV
 SITE ADDRESS:
 99 MEADOW ST
 HARTFORD, CT 06114

SEAL:



| | |
|--------------|---------------------------|
| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

GENERAL NOTES

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: G-002 | REVISION: 0 |
|-------------------------------|-----------------------|

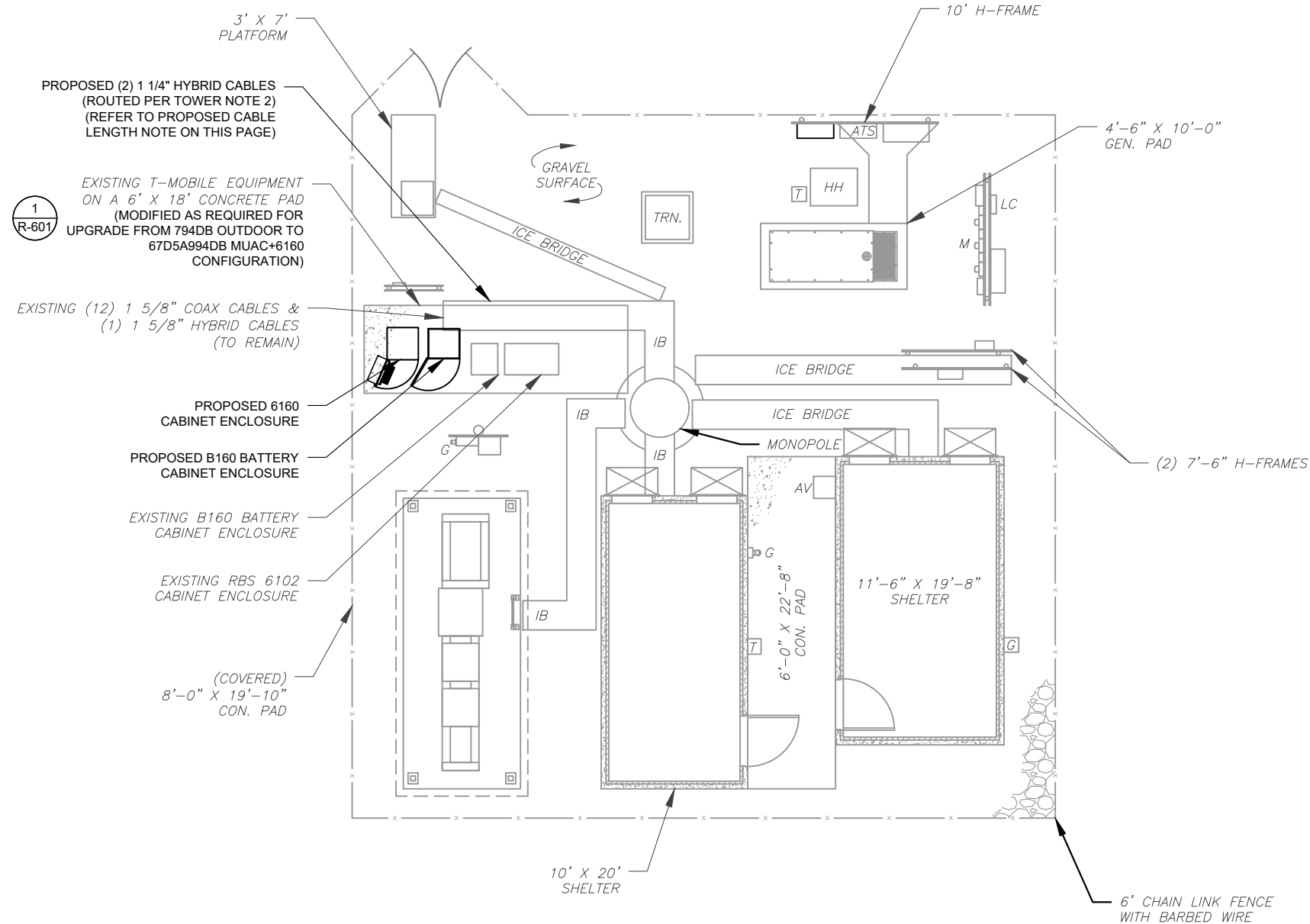
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SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

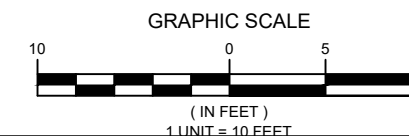
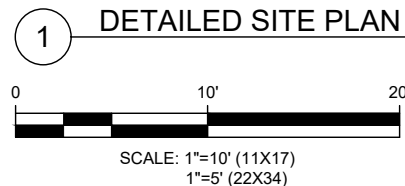


| LEGEND | |
|--------|---------------------------|
| ⊗ | GROUNDING TEST WELL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| B | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACAL |
| HH, V | HAND HOLE, VAULT |
| IB | ICE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



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **170'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

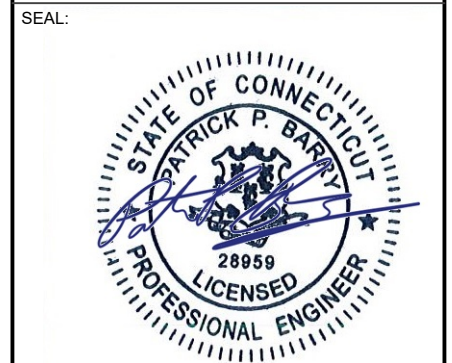


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| REV. | DESCRIPTION | BY | DATE |
|------|------------------|----|----------|
| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
| | | | |
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| | | | |

ATC SITE NUMBER:
302468
 ATC SITE NAME:
PETRO LOCK
 T-MOBILE SITE NAME:
HARTFORD SOUTH2/FRNKLN AV
 SITE ADDRESS:
 99 MEADOW ST
 HARTFORD, CT 06114



| | |
|--------------|---------------------------|
| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

DETAILED SITE PLAN

SHEET NUMBER:
C-101

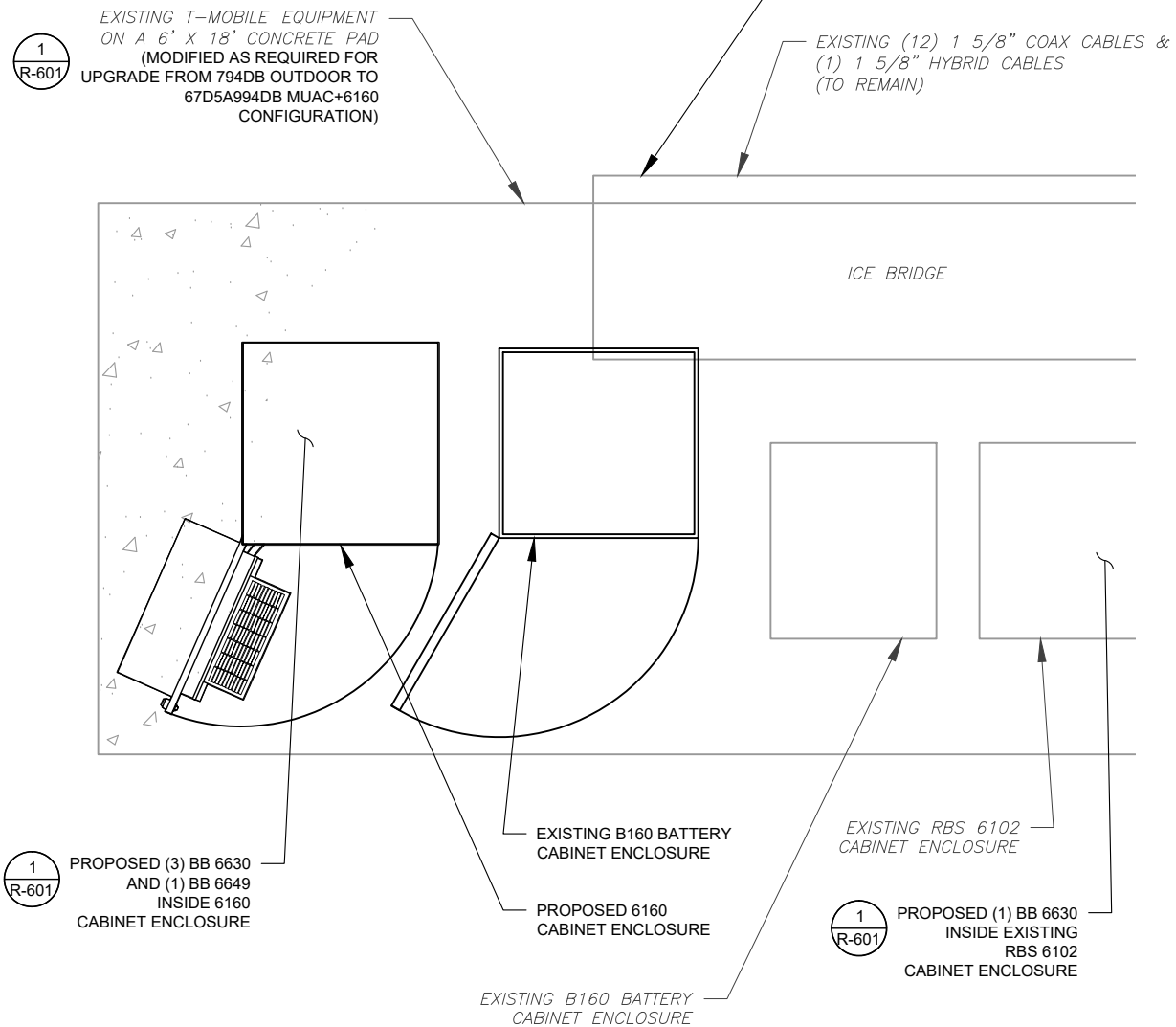
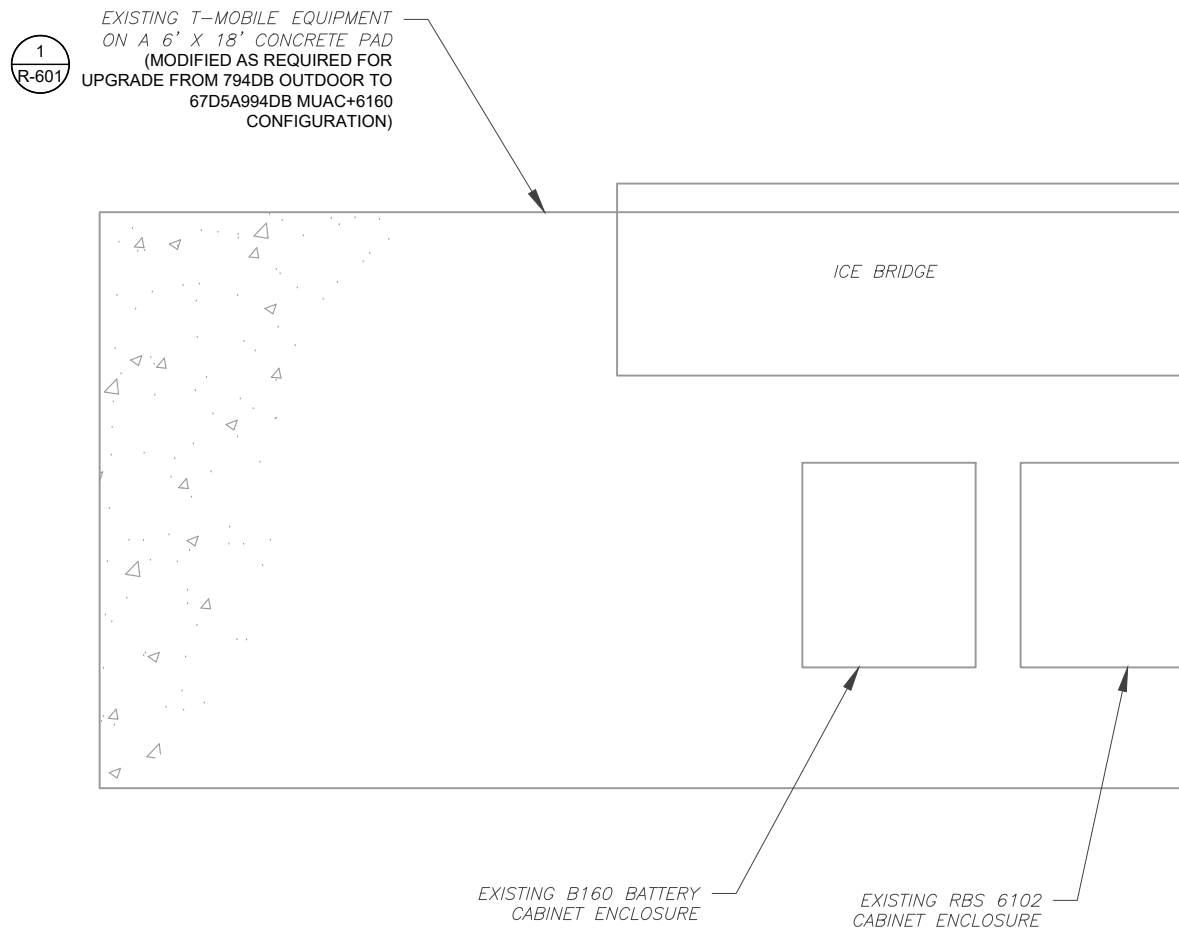
REVISION:
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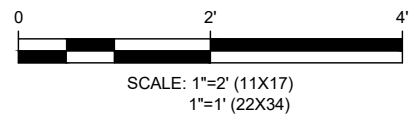
SITE PLAN NOTES:

1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.

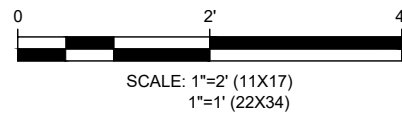
T-MOBILE CM APPROVAL REQUIRED BEFORE INSTALLING CABINETS



1 EXISTING GROUND EQUIPMENT LAYOUT



2 PROPOSED GROUND EQUIPMENT LAYOUT



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ATC SITE NUMBER:
302468
 ATC SITE NAME:
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 T-MOBILE SITE NAME:
HARTFORD SOUTH2/FRNKLN AV
 SITE ADDRESS:
 99 MEADOW ST
 HARTFORD, CT 06114



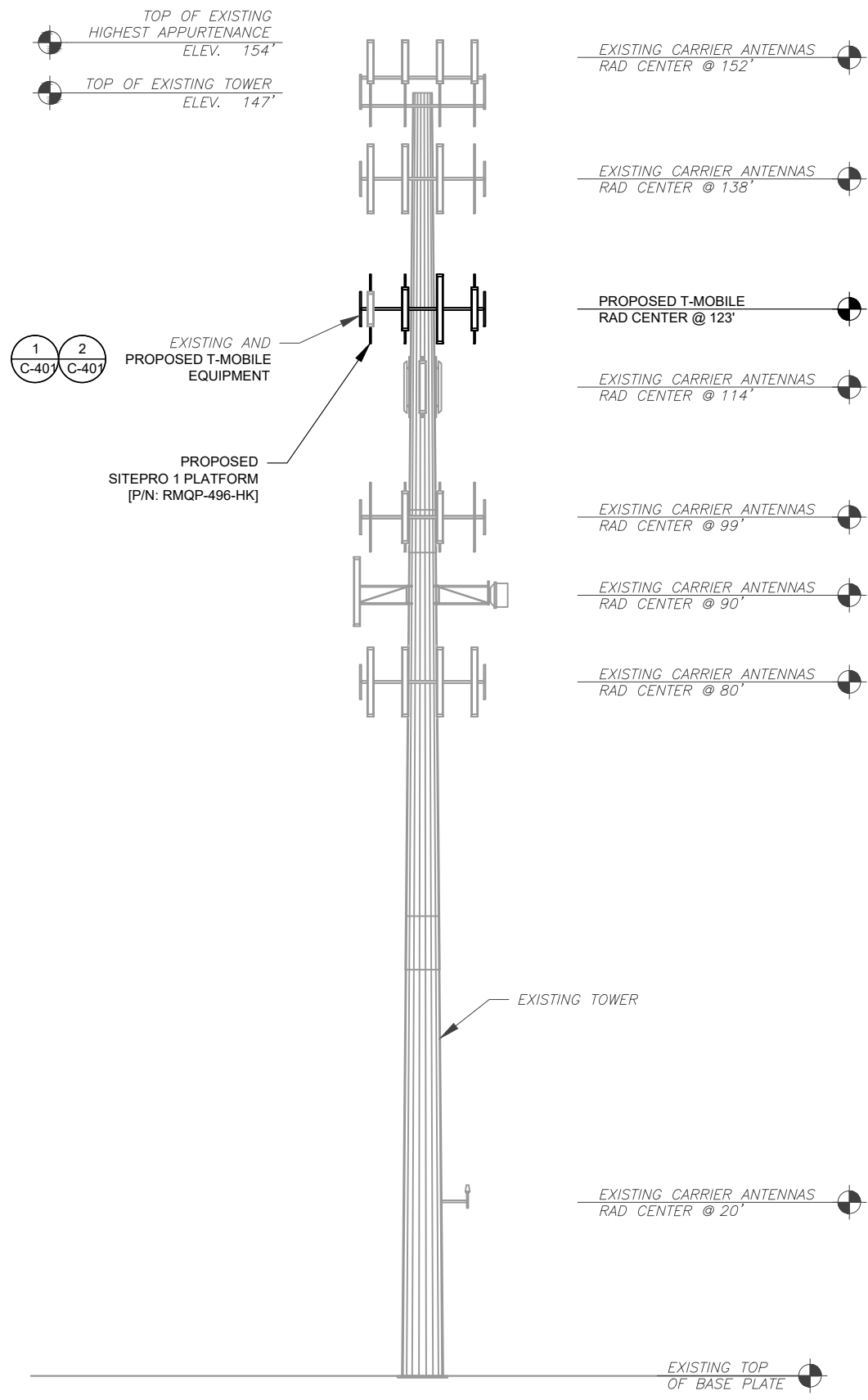
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|--------------|---------------------------|
| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

DETAILED GROUND PLAN

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-102 | 0 |

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PER MOUNT ANALYSIS COMPLETED BY TEP, DATED 06/19/20, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



TOWER NOTE:

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

1 TOWER ELEVATION
SCALE: N.T.S.

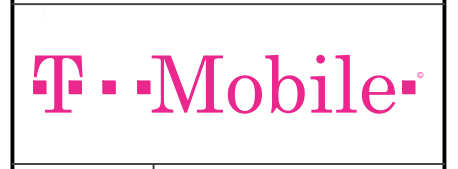
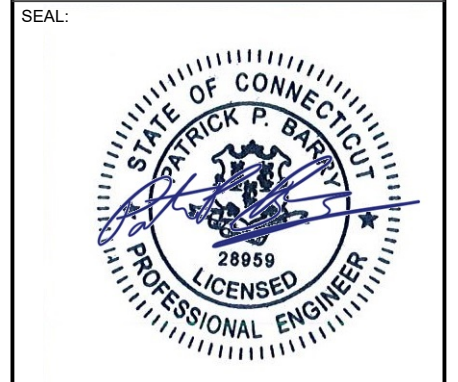


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| REV. | DESCRIPTION | BY | DATE |
|------|------------------|----|----------|
| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
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ATC SITE NUMBER:
302468
 ATC SITE NAME:
PETRO LOCK
 T-MOBILE SITE NAME:
HARTFORD SOUTH2/FRNKLN AV
 SITE ADDRESS:
 99 MEADOW ST
 HARTFORD, CT 06114



| | |
|--------------|---------------------------|
| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

TOWER ELEVATION

| | |
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| SHEET NUMBER: | REVISION: |
| C-201 | 0 |

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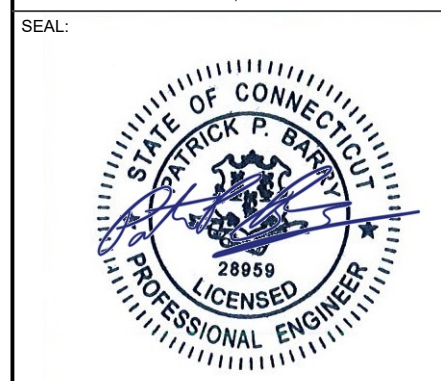


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| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
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ATC SITE NUMBER:
302468
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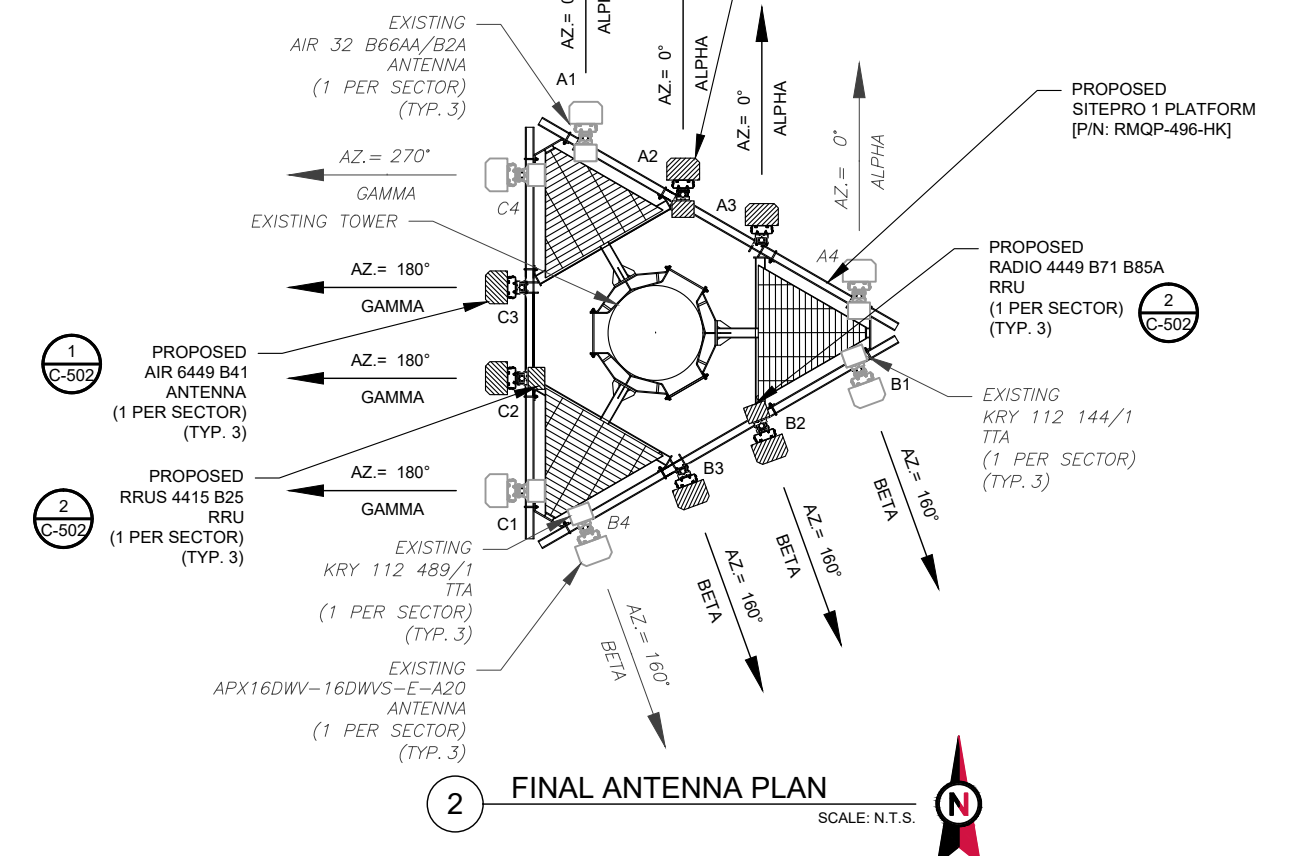


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| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

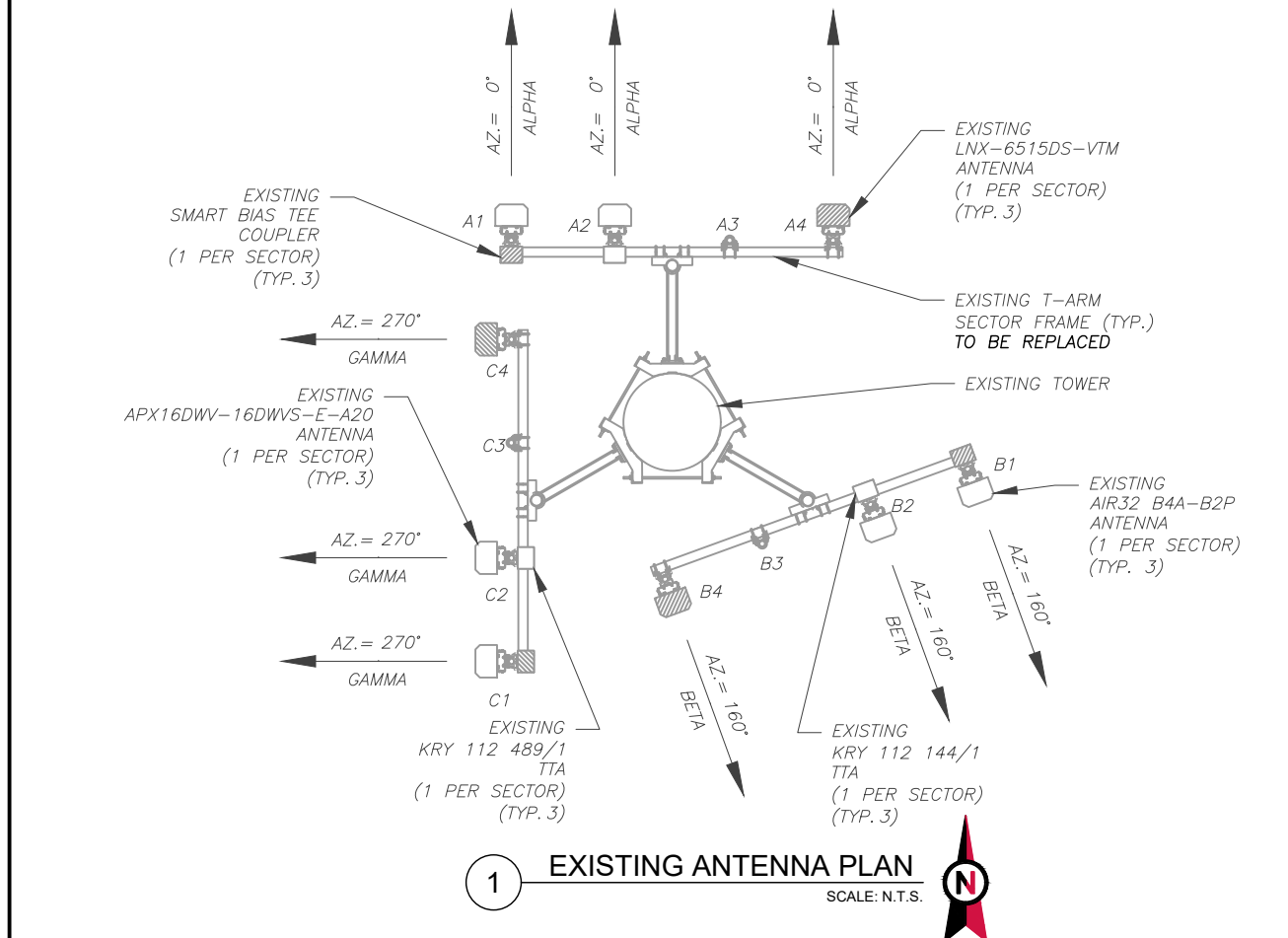
ANTENNA INFORMATION & SCHEDULE

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-401 | 0 |

PER MOUNT ANALYSIS COMPLETED BY TEP, DATED 06/19/20, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



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



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

| EXISTING ANTENNA SCHEDULE | | | | | | | | | |
|---------------------------|------|-----------------|-----|-----------------------|-------------|------------------|---------------------|------------------------------------|--------|
| LOCATION | | ANTENNA SUMMARY | | | | | NON ANTENNA SUMMARY | | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 123' | 0° | A1 | AIR 32 B66AA/B2A | L2100/L1900 | 0°/7° | REL | SMART BIAS TEE | RMV |
| | | | A2 | APX16DWV-16DWVS-E-A20 | G1900/U2100 | 0°/7°/6° | REL | KRY 112 489/1 KRY 112 144/1 | REL |
| | | | A3 | - | - | - | - | - | - |
| | | | A4 | LNx-6515DS-VTM | L700 | 0°/2° | RMV | - | - |
| BETA | 123' | 160° | B1 | AIR 32 B66AA/B2A | L2100/L1900 | 0°/7° | REL | SMART BIAS TEE | RMV |
| | | | B2 | APX16DWV-16DWVS-E-A20 | G1900/U2100 | 0°/7°/6° | REL | KRY 112 489/1 KRY 112 144/1 | REL |
| | | | B3 | - | - | - | - | - | - |
| | | | B4 | LNx-6515DS-VTM | L700 | 0°/2° | RMV | - | - |
| GAMMA | 123' | 270° | C1 | AIR 32 B66AA/B2A | L2100/L1900 | 0°/7° | REL | SMART BIAS TEE | RMV |
| | | | C2 | APX16DWV-16DWVS-E-A20 | G1900/U2100 | 0°/7°/6° | REL | KRY 112 489/1 KRY 112 144/1 | REL |
| | | | C3 | - | - | - | - | - | - |
| | | | C4 | LNx-6515DS-VTM | L700 | 0°/2° | RMV | - | - |

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

| FINAL ANTENNA SCHEDULE | | | | | | | | | |
|------------------------|------|-----------------|-----|-----------------------|-------------|------------------|---------------------|--------------------------------------|--------|
| LOCATION | | ANTENNA SUMMARY | | | | | NON ANTENNA SUMMARY | | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 123' | 0° | A1 | AIR 32 B66AA/B2A | L2100/L1900 | 0°/7° | REL | KRY 112 489/1 KRY 112 144/1 | REL |
| | | | A2 | APXVAARR24_43-U-NA20 | L600/L190 | 0°/2°/7° | ADD | RADIO 4449 B71 B85A RRUS 4415 B25 | ADD |
| | | | A3 | AIR 6449 B41 | L2500/N2500 | 0°/7° | ADD | - | - |
| | | | A4 | APX16DWV-16DWVS-E-A20 | G1900/U2100 | 0°/7°/6° | RMN | - | - |
| BETA | 123' | 160° | B1 | AIR 32 B66AA/B2A | L2100/L1900 | 0°/7° | REL | KRY 112 489/1 KRY 112 144/1 | REL |
| | | | B2 | APXVAARR24_43-U-NA20 | L600/L190 | 0°/2°/7° | ADD | RADIO 4449 B71 B85A RRUS 4415 B25 | ADD |
| | | | B3 | AIR 6449 B41 | L2500/N2500 | 0°/7° | ADD | - | - |
| | | | B4 | APX16DWV-16DWVS-E-A20 | G1900/U2100 | 0°/7°/6° | RMN | - | - |
| GAMMA | 123' | 270° | C1 | AIR 32 B66AA/B2A | L2100/L1900 | 0°/7° | REL | KRY 112 489/1 KRY 112 144/1 | REL |
| | | | C2 | APXVAARR24_43-U-NA20 | L600/L190 | 0°/2°/7° | ADD | RADIO 4449 B71 B85A RRUS 4415 B25 | ADD |
| | | | C3 | AIR 6449 B41 | L2500/N2500 | 0°/7° | ADD | - | - |
| | | | C4 | APX16DWV-16DWVS-E-A20 | G1900/U2100 | 0°/7°/6° | RMN | - | - |

| EXISTING FIBER DISTRIBUTION/OVP BOX | | EXISTING CABLING SUMMARY | | |
|-------------------------------------|--------|--------------------------|------------|--------|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| - | - | (12) 1-5/8" | (1) 1-5/8" | RMN |
| - | - | - | - | - |

3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION / OVP BOX | | FINAL CABLING SUMMARY | | |
|------------------------------------|--------|-----------------------|------------|--------|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| - | - | (12) 1-5/8" | (1) 1-5/8" | RMN |
| - | - | - | (2) 1-1/4" | ADD |

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| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
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ATC SITE NUMBER:
302468
 ATC SITE NAME:
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 T-MOBILE SITE NAME:
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 SITE ADDRESS:
 99 MEADOW ST
 HARTFORD, CT 06114

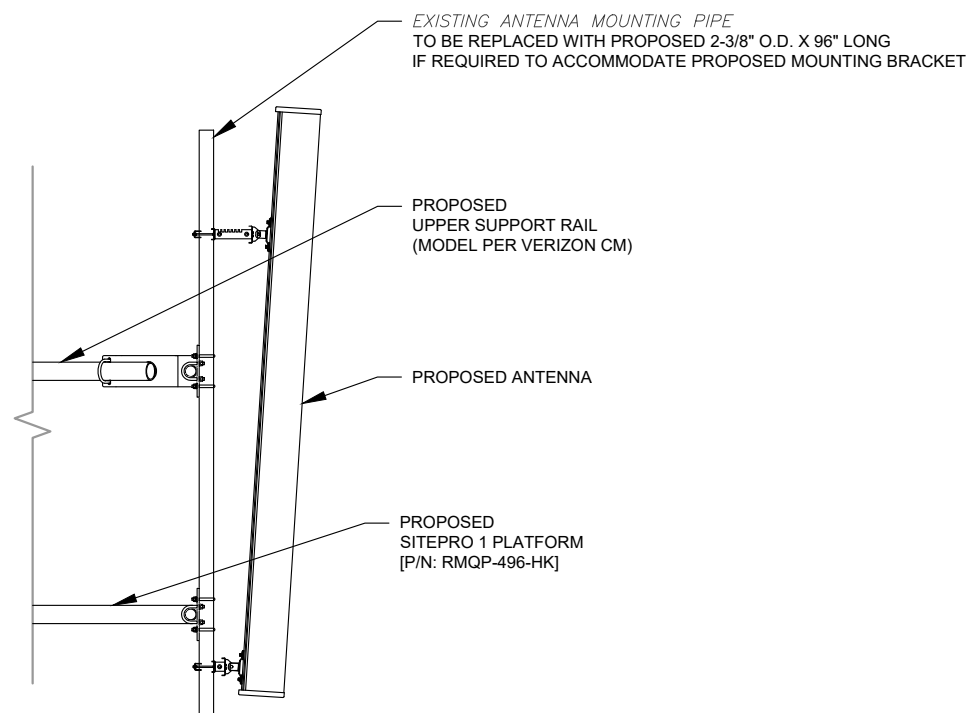
SEAL:



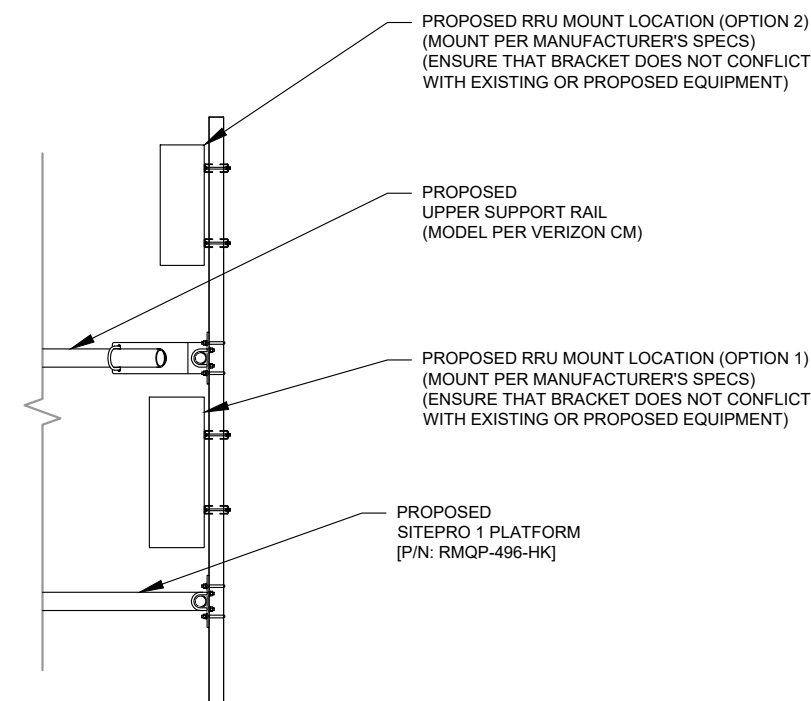
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|--------------|---------------------------|
| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

**CONSTRUCTION
 DETAILS**

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-501 | 0 |

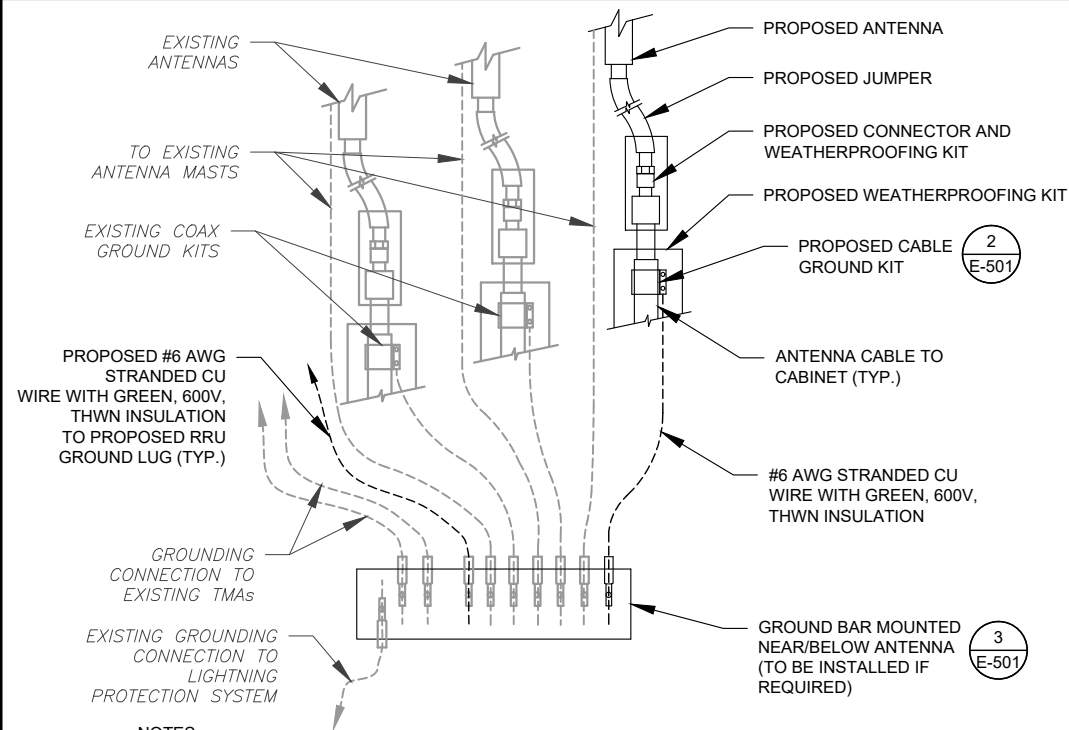


1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.



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

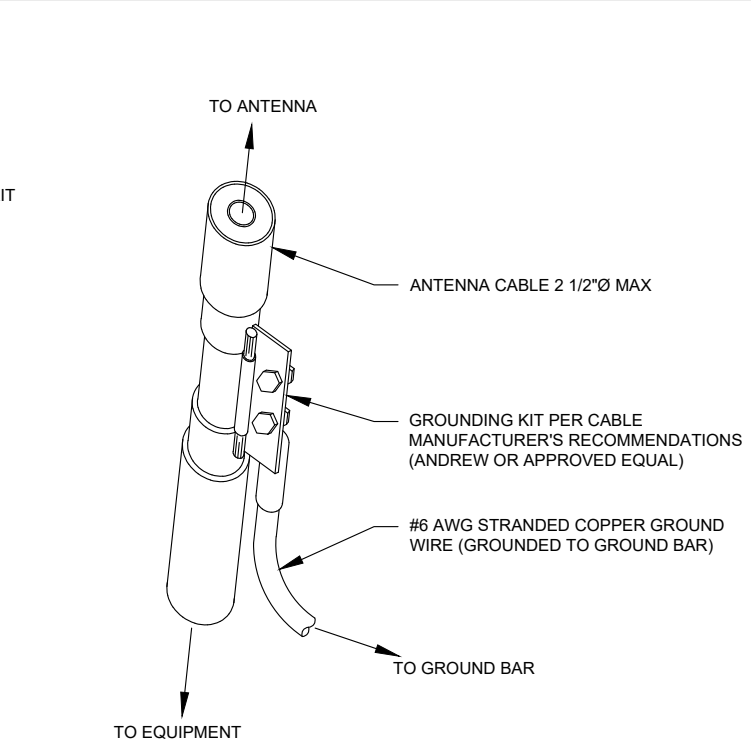
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NOTES:

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

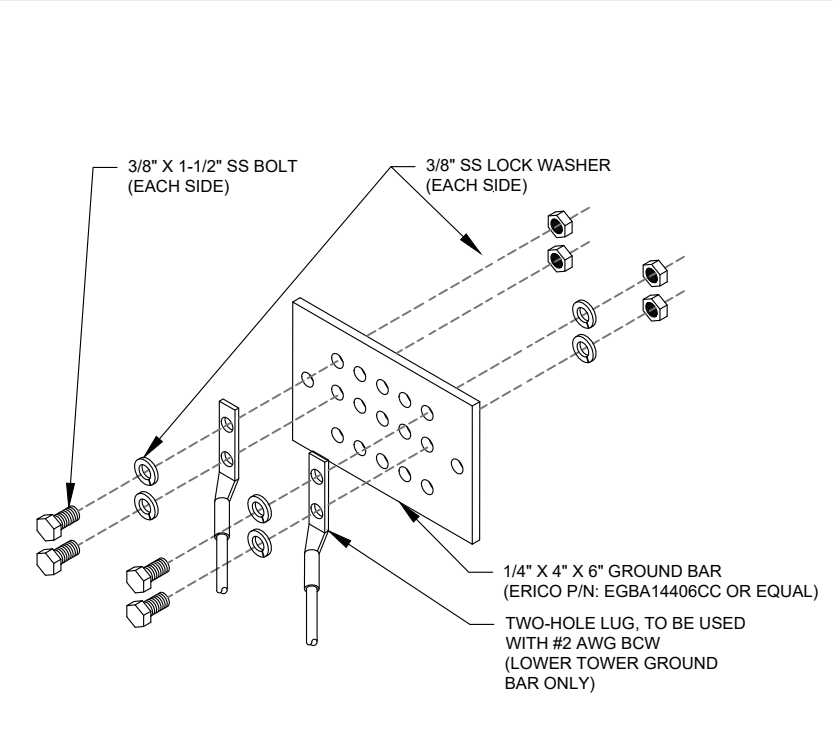
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

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

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

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

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

ELECTRICAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
2. ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW:

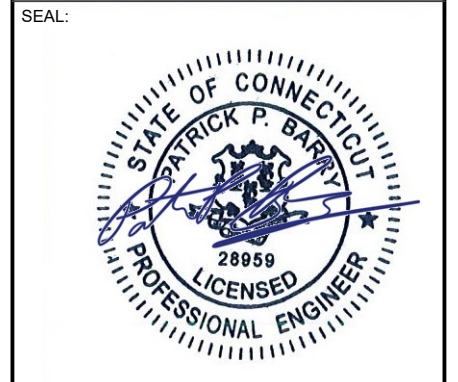
| OCPD SIZE | WIRE SIZE | GROUND SIZE | CONDUIT SIZE |
|-----------|-----------|-------------|--------------|
| 80A/2P | 2#3 AWG | #8 AWG | 1-1/4" |
| 100/2P | 2#2 AWG | #8 AWG | 1-1/4" |
| 125A/2P | 2#1 AWG | #8 AWG | 1-1/2" |
| 150A/2P | 2#1/0 AWG | #8 AWG | 1-1/2" |

AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: PEC.0001553

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| REV. | DESCRIPTION | BY | DATE |
|------|------------------|----|----------|
| 0 | FOR CONSTRUCTION | NG | 07/29/20 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302468
ATC SITE NAME:
PETRO LOCK
T-MOBILE SITE NAME:
HARTFORD SOUTH2/FRNKLN AV
SITE ADDRESS:
99 MEADOW ST
HARTFORD, CT 06114



| | |
|--------------|---------------------------|
| DATE DRAWN: | 07/29/20 |
| ATC JOB NO: | 13252312 |
| CUSTOMER ID: | HARTFORD SOUTH2/FRNKLN AV |
| CUSTOMER #: | CT11661A |

GROUNDING DETAILS

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: E-501 | REVISION: 0 |
|-------------------------------|-----------------------|

5/21/2020

CT11661A_Anchor_10_draft_2020-05-21

CT11661A_Anchor_10_draft

Print Name: Standard
PORs: Anchor_Phase 3

| | |
|---------------------------------------|--|
| RAN Template: 67D5A994DB MUAC+6160 | A&L Template: 67D5994DB_2xAIR+TQP+1OP |
|---------------------------------------|--|

Section 5 - RAN Equipment

Existing RAN Equipment

Template: 794DB Outdoor (evolved from 4B)

| Enclosure | 1 | 2 |
|---------------------|--|-----------------------------------|
| Enclosure Type | RBS 6102 | Ancillary Equipment (Ericsson) |
| Baseband | DUW30 (U2100) DUW30 (G1900) DUG20 (G1900) BB 6630 (L2100, L1900, L700) | |
| Hybrid Cable System | | Ericsson 9x18 HCS *Select Length* |
| Radio | RUS01 B2 (x 3) (G1900) RUS01 B2 (x 3) RUS01 B4 (x 6) (U2100) | |

Proposed RAN Equipment

Template: 67D5A994DB MUAC+6160

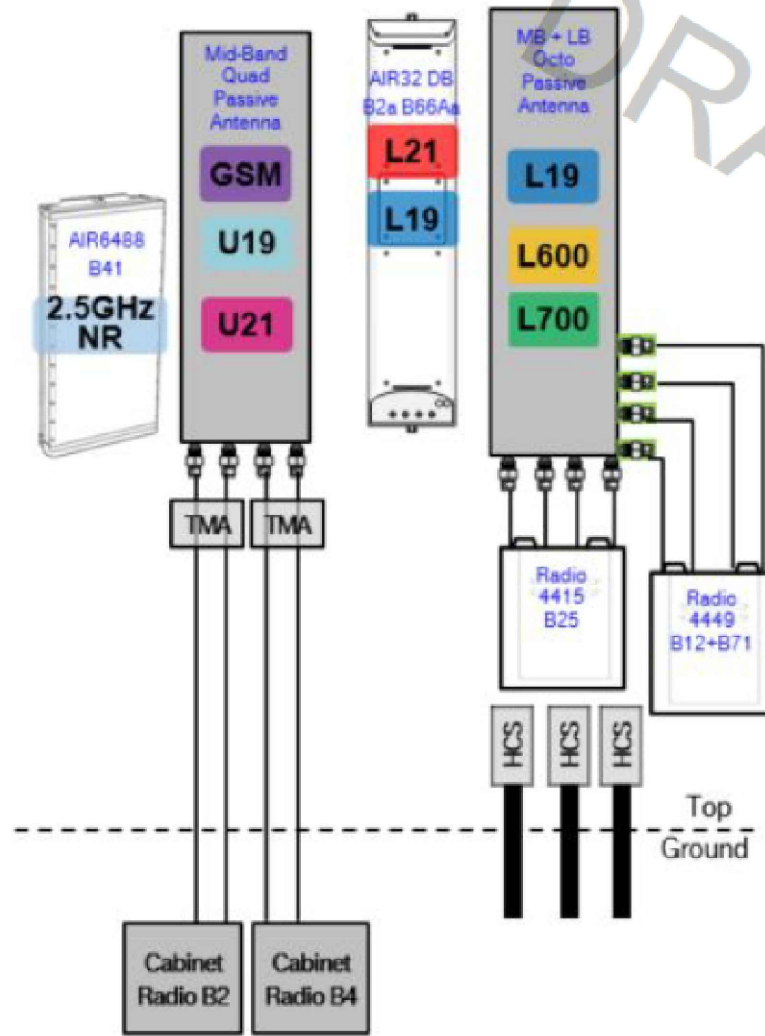
| Enclosure | 1 | 2 | 3 | 4 |
|---------------------|---|-----------------------------------|---|------|
| Enclosure Type | RBS 6102 | Ancillary Equipment (Ericsson) | Enclosure 6160 | B160 |
| Baseband | DUW30 (U2100) DUW30 (G1900) DUG20 (G1900) BB 6630 (L600, L2100, L1900, L700) BB 6630 (N600) | | BB 6630 (x 3) (L2500) BB 6648 (N2500) | |
| Hybrid Cable System | | Ericsson 9x18 HCS *Select Length* | Ericsson 6x12 HCS *Select AWG & Length* (x 2) | |
| Radio | RUS01 B2 (x 3) (G1900) RUS01 B2 (x 3) RUS01 B4 (x 6) (U2100) | | | |

RAN Scope of Work:

Existing Nortel Cabinet can be removed.
 Add (1) BB6630 for N600 to existing RBS6102 Cabinet.
 Add (1) Enclosure 6160.
 Add (1) Battery Cabinet B160.
 Add (1) iXRe Router to new Enclosure 6160.
 Add (3) BB6630 for L2500 to new Enclosure 6160.
 Add (1) BB6648 for N2500 to new Enclosure 6160.
 Existing: (12) 1-5/8" ([7] inside pole, [5] outside pole); (1) 9x18 HCS outside pole
 Add (2) 6x12 HCS, to be used as follows: (1) HCS for the all of the new Radio 4449 B71+B85; (1) HCS for all of the new Anchor A&L Equipment (AIR6449 B41 and Radio 4415 B25).

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

67D5994DB.JPG



Notes:

2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER:
R-601

REVISION:
0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

Dimension Comparison: RRUS01, RRUS11 and RRUS32

| Mechanical | AIR21 B4a B2p | AIR32 Single Band (SB) B4a B2p | AIR32 Dual Band (DB) B66Aa B2a |
|---|--|--|--|
| Weight (without mounting brackets) | 41 Kg (=90.4 lbs) | 48 Kg (=105.8 lbs) | 60 Kg (=132.2 lbs) |
| Dimensions (H x W x D) | 1427 x 307 x 200 mm (=56.2" x 12.1" x 7.9") | 1439 x 327 x 220 mm (=56.6" x 12.9" x 8.7") | 1439 x 327 x 220 mm (=56.6" x 12.9" x 8.7") |
| Frontal Wind load @ 150 km/h (=42 m/s) wind speed | 580 N | 650 N | 650 N |

17% (SB) and 46% (DB) heavier than AIR21
Just 6.5% thicker but almost the same height

SUPPLEMENTAL



Dual Slant Polarized Quad Band (8 Port) Antenna, 617-746/617-746/1695-2200/1695-2200MHz, 65deg, 15/15/18/18dBi, 2.4m (8ft), VET, RET, 0-12°/0-12°/2-12°/2-12°

FEATURES / BENEFITS

This antenna provides a 8 Port multi-band flexible platform for advanced use for flexible use in deployment scenarios for encompassing 600MHz, 700MHz, AWS & PCS applications.



- ➔ 24 Inch Width For Easier Zoning
- ➔ Field Replaceable (Integrated) AISG RET platform for reduced environmental exposure and long lasting quality
- ➔ Superior elevation pattern performance across the entire electrical down tilt range
- ➔ Includes three AISG RET motors - Includes 0.5m AISG jumper for optional diasy chain of two high band RET motors for one single AISG point of high band tilt control.
- ➔ Low band arrays driven by a single RET motor

Technical Features

LOW BAND LEFT ARRAY (617-746 MHZ) [R1]

| Frequency Band | MHz | 617-698 | 698-746 |
|--|------|---------|---------|
| Gain | dBi | 15.1 | 15.5 |
| Horizontal Beamwidth @3dB | Deg | 65 | 62 |
| Vertical Beamwidth @3dB | Deg | 11.4 | 10.4 |
| Electrical Downtilt Range | Deg | 0-12 | 0-12 |
| Upper Side Lobe Suppression 0 to +20 | dB | 19 | 20 |
| Front-to-Back, at +/-30°, Copolar | dB | 25 | 24 |
| Cross Polar Discrimination (XPD) @ Boresight | dB | 19 | 19 |
| Cross Polar Discrimination (XPD) @ +/-60 | dB | 5 | 3 |
| 3rd Order PIM 2 x 43dBm | dBc | | -153 |
| VSWR | - | 1.5:1 | 1.5:1 |
| Cross Polar Isolation | dB | 25 | 25 |
| Maximum Effective Power per Port | Watt | 250 | 250 |

LOW BAND RIGHT ARRAY (617-746 MHZ) [R2]

| Frequency Band | MHz | 617-698 | 698-746 |
|--|------|---------|---------|
| Gain | dBi | 14.8 | 15.1 |
| Horizontal Beamwidth @3dB | Deg | 65 | 62 |
| Vertical Beamwidth @3dB | Deg | 11.4 | 10.3 |
| Electrical Downtilt Range | Deg | 0-12 | 0-12 |
| Upper Side Lobe Suppression 0 to +20 | dB | 19 | 20 |
| Front-to-Back, at +/-30°, Copolar | dB | 25 | 23 |
| Cross Polar Discrimination (XPD) @ Boresight | dB | 19 | 19 |
| Cross Polar Discrimination (XPD) @ +/-60 | dB | 5 | 3 |
| 3rd Order PIM 2 x 43dBm | dBc | | -153 |
| VSWR | - | 1.5:1 | 1.5:1 |
| Cross Polar Isolation | dB | 25 | 25 |
| Maximum Effective Power per Port | Watt | 250 | 250 |

APXVAARR24_43-U-NA20

REV: C

REV DATE: Dec 1, 2017

www.rfsworld.com

All information contained in the present datasheet is subject to confirmation at time of ordering

Page 1 of 4

PRODUCT DESCRIPTION

| | |
|------------------------|---|
| Frequency Range | LTE TDD B41: 2496 – 2690 MHz |
| Instantaneous BW | DL 194 MHz |
| Antenna Ports | 64T64R |
| Technology | NR, LTE and NR+LTE MSMM |
| Antenna Elements | 192 |
| Output RF Power | 300 W (=64 TRX x 4.6875W) |
| Data Ports | 4 x 25Gb/s CPRI |
| 5G NR Support | YES |
| DC Feed | -48V DC power connector |
| Cooling | Passive cooling (vs. active cooling on AIR32 DB) |
| Dimensions (H x W x D) | 33.1" x 20.6" x 8.6" inches (=841 x 524 x 217 mm) |
| Weight | 104 lbs (=47 kg) |
| Electrical downtilt | -3 to 11 degrees |
| Horizontal beamwidth | +/- 65 degrees |
| HW/SW Availability | July 2020 |
| Material SAP # | 34105 – AIR 6449 B41 |



WARRANTY: 1 Year

SPARES: 2% of install base. Additional units can be requested as per need.

Baseband Requirements

For a typical 3-sector site,

- LTE: one dedicated BB6630 per site
- NR: one dedicated BB6648 (see [its NPI](#)) per site

Supplementary/Ancillary Materials

| SKU | Description | Qty |
|-------|-------------------------------|---------------|
| 34106 | AIR6449 Mandatory Install KIT | 1 per AIR6449 |
| 34110 | AIR6449 25G SFP | 8 per AIR6449 |

LINKS

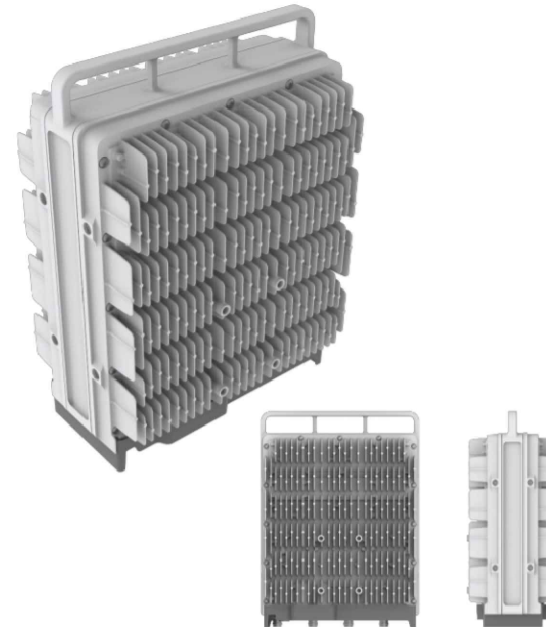
- [Ericsson New T-Mobile Anchor Network Playbook](#)
- [AIR 6488 vs. AIR 6449 Comparison](#)

CONTACTS

| | |
|--------------|-----------------------------------|
| Jacob Madian | Assoc. Engineer, RAN Architecture |
| Weston Berry | Engineer, RAN Architecture |

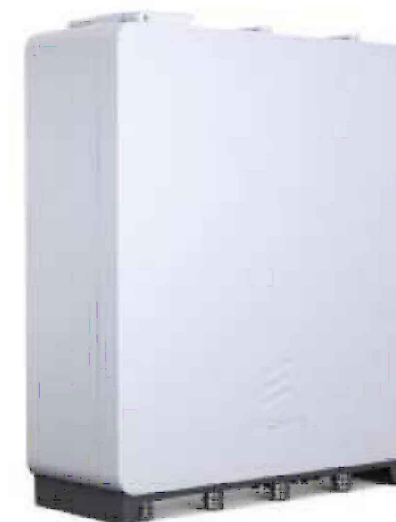
Radio 4449 B71 B85A

- › 4TX/4RX – 320W FDD
 - 4x40W B71 + 4x40W B85A
- › IBW:
 - Full band support in each of the bands
- › 4 Antenna ports, each port shared by two bands
 - 4.3-10 plus (f) or equivalent
- › LTE, NR, NB-IoT
- › Carrier per port per band:
 - Up to 4 carriers (DL/UL) in each band
 - › Up to 4 LTE carriers
 - › NB-IoT
 - Up to 2 Standalone carrier
 - In-Band & Guard Band as per legacy requirements
 - › NR carrier up to 35 MHz (B71)
- › 2.5; 4.9; 9.8; 10.1 Gbit/s CPRI
- › 380mm x 335mm x 267mm (< 34 liter, < 75 lb (34 kg))
- › -48 VDC (Two DC feeds, 2x 20A Breakers)
- › AISG TMA & RET support
- › Convection cooling
- › 2 external alarms supported
- › IP 65, -40 to +55°C



RRUS 4415 B25

- › B25
 - TX = 1930 – 1995 MHz
 - RX = 1850 – 1915 MHz
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during initial install.
- › Only use Ericsson supplied and approved SFPs RDH10265/25
 - Exception: SFP7 RDH 10265/3 for CPRI 1.4km to 10km
 - Exception: SFP7 (pair): RDH 102 70/1 and RDH 102 70/2 for CPRI > 10km
- › 2 external alarm inputs
- › Max wind load @ 50m/sec = 260N
- › Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
- › 200mm horizontal separation required for side by side mounting
- › 200mm separation required from antenna backplane to radio
- › 400mm vertical outdoor/indoor separation required between 2 radios
- › 500mm vertical separation below antenna
- › Min, Max DC cable size from squid to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
- › Ground cable size = 2AWG
- › Dimensions (incl. handles, feet and sunshield, w/o fan unit)
 - Height: 16.5" (420 mm)
 - Width: 13.4" (342 mm)
 - Depth: 5.9" (149 mm)
- › Weight, excl. mounting hardware = 46 lbs (21 kg)





Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.



Preliminary technical specification for Enclosure 6160 AC

CAPACITY

| | |
|---------------------------|--|
| Rack space user equipment | 19U (19" rack) |
| Hardware capabilities | Power and CPRI support for multi-standard remote radios (RRU or AIR) ERS Baseband and Transport units Li-Ion batteries 3PP equipment Additional power feed available as option |

MECHANICAL SPECIFICATION

| | |
|-----------------------|---|
| Weight | 145 kg (excluding active equipment) 320 lbs (excluding active equipment) |
| Dimension (H x W x D) | 1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame) |
| Base frame height | 150 mm 6 in. |
| Mounting position | Ground |
| Enclosure material | Aluminum |
| Color | Power paint NCS 2002-B |
| Door | Front access |
| Rack type | 19" (IEC 60297-3-100) |
| Locking type | Pad lock or Cylinder |

POWER SYSTEM

| | |
|--------------------------------|--|
| Input voltage | 3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC |
| Input power | <33kW |
| Output load (-48VDC) | 24kW |
| Total capacity (-48VDC) | 31.5kW |
| AC SPD | Class 2/Type 2 |
| DC SPD | Class 2/Type 2 |
| PSU Slots | 9x |
| Service outlet | Optional |
| Priority load | 8x Circuit Breaker |
| LLVD 1 | 6x Circuit Breaker |
| LLVD 2 | 6x Circuit Breaker |
| CB ratings | 3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A |
| Battery Interface | 2x Circuit Breaker |
| Battery Circuit Breaker rating | 125A 2pol (200A) |
| PSU capacity | 3500W |

SUPPLEMENTAL

SHEET NUMBER:

R-606

REVISION:

0

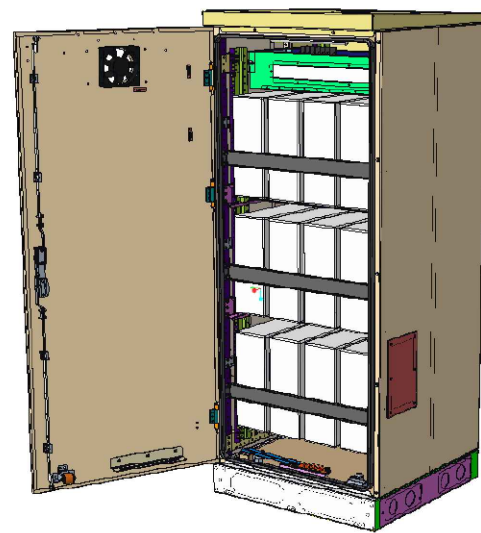
1

EQUIPMENT SPECIFICATIONS

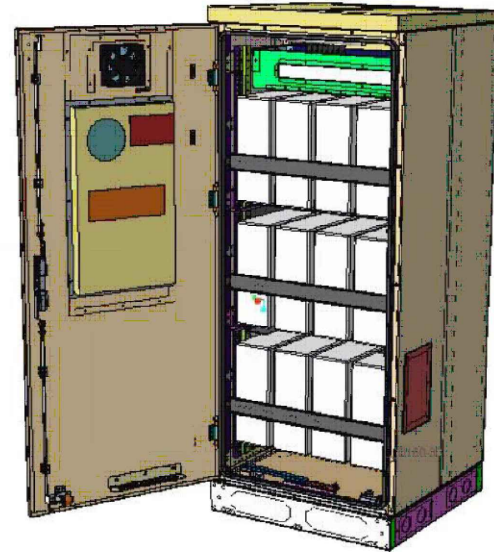
SCALE: N.T.S.

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

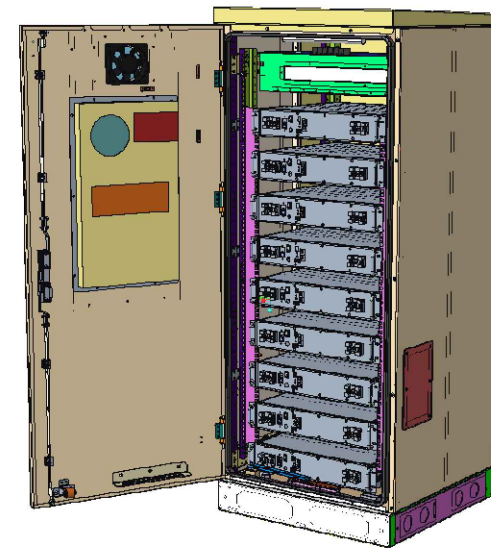
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

Enclosure B160

Capacity

- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
- Li-Ion: 24U 19" / 23"
- Sodium-Nickel: 3x FIAMM

Electrical specification

- DC Output: -48VDC/200A
- Battery breakers: 2x 125/2p
- Alarms: Door open, Climate failure, MCB Connection

Mechanical specification

- Weight: 134kg
- Dimensions: 63 x 26 x 26 in. (incl. Base frame)
- Base frame height: 6 in.
- Material: Galvanized steel (180g/m²)
- Color: Powder paint NCS 2002-B
- Door: Front access
- Locking type: Pad lock / cylinder

Environmental specification

- Ingress protection: VRLA/Sodium IP44
Li-Ion IP55
- Relative humidity: 15-100%

Climate system

- Air Conditioner
 - Fan type: DC
 - Cooling capacity: 500W @L35/L35
- Convection cooling
 - Emergency fan

June 19, 2020

Geoff Middlebrooks
American Tower Corporation
3500 Regency Pkwy, Suite 100
Cary, NC 27518
(919) 466-5149

Subject: Appurtenance Mount Analysis Report

Carrier Designation:

T-Mobile Reconfiguration

Site Number: CT11661A
Site Name: Hartford South2/Frnkln Av

ATC Designation:

ATC Site Number: 302468
ATC Site Name: Petro Lock

Engineering Firm Designation:

TEP Project Number: 68495.424417

Site Data:

99 Meadow St., Hartford, Hartford County, CT 06114
Latitude 41° 44' 35.51", Longitude -72° 40' 03.00"
149 Foot - Monopole Tower

Table 1 - Mount Analysis Specification

| Ultimate Wind Speed (MPH) | Radial Ice (in.) | Ice Wind Speed (MPH) | Exposure Category | Risk Category | Topo Procedure | K _{zt} |
|---------------------------|------------------|----------------------|-------------------|---------------|----------------|-----------------|
| 125 | 1 1/2 | 50 | C | II | Method 2 | 1.0 |

Based on our analysis we have determined the stress level for the mount structure to be:

LC1: Existing + Proposed + Reserved Loading
Note: See Table 2 for the existing, proposed, and reserved loading

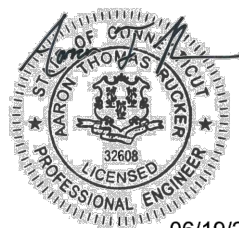
Sufficient Capacity – 70.5%

The analysis has been performed in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures.

Structural analysis prepared by: Austin E. Wilson, E.I.T.

Respectfully submitted by:

Aaron T. Rucker, P.E..



06/19/2020

Platform w/Handrail Mount Structural Analysis
TEP Project Number 68495.424417

June 19, 2020
302468 Petro Lock
Page 2

Table 2 - Existing, Proposed, and Reserved Antenna Loading Configuration

| Existing/Proposed/Reserved | Mount Level (ft) | Ant CL (ft) | Qty | Antenna Model | Mount Type | Owner/Tenant |
|----------------------------|------------------|-------------|-----|------------------------------|-------------------------|--------------|
| | | | 3 | RFS APX16DWV16DWVS-E-A20 | SitePro1 RMQP-496-HK | T-Mobile |
| | | | 3 | Ericsson Air6449 B41 | | |
| | | | 3 | Ericsson AIR32 B66Aa/B2a | | |
| | | | 3 | RFS APXVAARR24_43-UNA20 | | |
| | | | 3 | Ericsson RRUS 4415 B25 | | |
| | | | 3 | Ericsson Radio 4449 B71 B85A | | |
| | | | 5 | Ericsson KRY 112 489/1 | | |
| | | | 3 | Ericsson KRY 112 144/1 | | |

Table 3 - Mount Component Stresses vs. Capacity

| Notes | Component | % Capacity | Pass / Fail |
|-------|------------------|------------|-------------|
| - | Face Horizontal | 18.0 | Pass |
| - | Handrail | 53.2 | Pass |
| - | Internal | 19.5 | Pass |
| - | Mount Pipe | 70.5 | Pass |
| - | Connection Bolts | 38.1 | Pass |
| - | Connection Plate | 42.8 | Pass |

| | |
|---|--------------|
| Structure Rating (max from all components) = | 70.5% |
|---|--------------|

Table 4 - Documents Provided

| Document | Remarks | Source |
|-----------------------------|--|--------|
| Mount Manufacturer Drawings | SitePro1, dated July 14, 2014 Dwg No. RMQP-496-HK | TEP |

RECOMMENDATIONS

- 1) If the load differs from that described in Table 2 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required at this time.

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

SUPPLEMENTAL

SHEET NUMBER: **R-608** REVISION: **0**

Exhibit D

Structural Analysis Report



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 147.9 ft Monopole
ATC Site Name : Petro Lock, CT
ATC Asset Number : 302468
Engineering Number : 13252312_C3_04
Proposed Carrier : T-MOBILE
Carrier Site Name : Hartford South2/Frnklin Av
Carrier Site Number : CT11661A
Site Location : 99 Meadow St
Hartford, CT 06114-1598
41.743200,-72.667500
County : Hartford
Date : July 9, 2020
Max Usage : 73%
Result : Pass

Prepared By:
Cole Melody Koffi
Structural Engineer I

Reviewed By:



COA: PEC.0001553



Table of Contents

| | |
|--------------------------------------|----------|
| Introduction | 1 |
| Supporting Documents | 1 |
| Analysis | 1 |
| Conclusion..... | 1 |
| Existing and Reserved Equipment..... | 2 |
| Equipment to be Removed..... | 3 |
| Proposed Equipment | 3 |
| Structure Usages | 4 |
| Foundations | 4 |
| Deflection and Sway | 4 |
| Standard Conditions | 5 |
| Calculations | Attached |



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 147.9 ft monopole to reflect the change in loading by T-MOBILE.

Supporting Documents

| | |
|----------------------------|---|
| Tower Drawings | FWT Job #21719000 Rev. 1, dated July 18, 2000 |
| Foundation Drawing | FWT Job #21719000 Rev. 1, dated July 18, 2000 |
| Geotechnical Report | Osprey Environmental Engineering Job #98083-01, dated August 28, 1998 |
| Mount Analysis | TEP Project #68495.424417, dated June 19, 2020 |

Analysis

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

| | |
|--------------------------------------|--|
| Basic Wind Speed: | 118 mph (3-Second Gust) |
| Basic Wind Speed w/ Ice: | 50 mph (3-Second Gust) w/ 1-1/2" radial ice concurrent |
| Code: | ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code |
| Exposure Category: | B |
| Risk Category: | II |
| Topographic Factor Procedure: | Method 1 |
| Topographic Category: | 1 |
| Crest Height (H): | 0 ft |
| Spectral Response: | $S_s = 0.19, S_1 = 0.05$ |
| Site Class: | D - Stiff Soil |

Conclusion

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

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



Existing and Reserved Equipment

| Elev. ¹ (ft) | Qty | Antenna | Mount Type | Lines | Carrier |
|-------------------------|---------------------------|--|-------------------------|--|-----------------------|
| 152.0 | 8 | Andrew 844G65VTZASX | Platform with Handrails | - | SPRINT NEXTEL |
| | 4 | Decibel DB844H90E-XY | | | |
| 137.0 | 7 | Powerwave Allgon LGP21401 | Platform with Handrails | (2) 0.39" Fiber Trunk (2) 0.39" Cable (8) 0.78" 8 AWG 6 (6) 1 5/8" Coax (3) 3" conduit | AT&T MOBILITY |
| | 2 | Raycap DC6-48-60-18-8F (23.5" Height) | | | |
| | 1 | Raycap DC6-48-60-18-8F ("Squid") | | | |
| | 3 | Ericsson RRUS 4478 B14 (15") | | | |
| | 3 | Ericsson RRUS 4449 B5, B12 | | | |
| | 1 | Raycap DC6-48-60-18-8C | | | |
| | 1 | CCI DMP65R-BU8D | | | |
| | 6 | Ericsson RRUS 32 B2 | | | |
| | 3 | Ericsson RRUS E2 B29 | | | |
| | 3 | Ericsson RRUS-32 B30 (77 lbs) | | | |
| | 3 | Powerwave Allgon 7750.00 | | | |
| | 2 | Quintel QS66512-3 (112 lbs.) | | | |
| | 2 | CCI DMP65R-BU6DA | | | |
| | 1 | CCI TPA-65R-LCUUUU-H8 | | | |
| | 2 | Kathrein Scala 80010965 | | | |
| | 1 | Kathrein Scala 80010966 | | | |
| | 6 | Powerwave Allgon 7020.00 Dual Band RET | | | |
| 6 | Powerwave Allgon LGP21901 | | | | |
| 3 | Ericsson RRUS 32 B66A | | | | |
| 123.0 | 3 | Ericsson KRY 112 144/1 | - | (1) 1 5/8" Fiber (12) 1 5/8" Coax | T-MOBILE |
| | 3 | RFS APX16DWV-16DWVS-E-A20 | | | |
| | 3 | Ericsson KRY 112 489/1 | | | |
| 113.0 | 3 | RFS APXV18-206517 | Flush | (6) 1 5/8" Coax | METRO PCS INC |
| 98.0 | 3 | Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter | Low Profile Platform | (3) 1 1/4" Hybriflex Cable (1) 1.7" Hybrid | SPRINT NEXTEL |
| | 3 | RFS IBC1900HG-2A | | | |
| | 3 | RFS IBC1900BB-1 | | | |
| | 3 | Alcatel-Lucent 4x40W RRH (88 lb) | | | |
| | 3 | Nokia 2.5G MAA - AAHC(64T64R) | | | |
| | 3 | RFS APXVSP18-C-A20 | | | |
| 89.0 | 1 | DragonWave A-ANT-11G-2.5-C | Side Arms | (1) 2" conduit (3) 1/2" Coax (6) 5/16" Coax | CLEARWIRE CORPORATION |
| | 2 | DragonWave A-ANT-18G-2-C | | | |
| | 3 | NextNet BTS-2500 | | | |
| | 3 | DragonWave Horizon Compact | | | |
| | 3 | Argus LLPX310R | | | |
| 79.0 | 3 | Alcatel-Lucent RRH2x60 700 | Low Profile Platform | (2) 1 5/8" Hybriflex | VERIZON WIRELESS |
| | 3 | Alcatel-Lucent RRH2x60 | | | |
| | 2 | RFS DB-T1-6Z-8AB-OZ | | | |
| | 12 | Commscope SBNHH-1D65B | | | |
| | 3 | Alcatel-Lucent RRH2X60-AWS | | | |
| 20.0 | 1 | Lucent KS-24019 | Stand-Off | (1) 1/2" Coax | SPRINT NEXTEL |



Equipment to be Removed

| Elev. ¹ (ft) | Qty | Antenna | Mount Type | Lines | Carrier |
|-------------------------|-----|-------------------------------|------------|-------|----------|
| 123.0 | 3 | Kathrein Scala Smart Bias Tee | T-Arms | - | T-MOBILE |
| | 3 | Andrew LNX-6515DS-VTM | | | |
| | 3 | Ericsson AIR 32 B4A-B2P | | | |

Proposed Equipment

| Elev. ¹ (ft) | Qty | Antenna | Mount Type | Lines | Carrier |
|-------------------------|-----|------------------------------|---|------------------|----------|
| 123.0 | 2 | Ericsson KRY 112 489/1 | Site Pro 1 RMQP-496-HK Platform with Handrails | (2) 1 1/4" Fiber | T-MOBILE |
| | 3 | Ericsson Radio 4449 B71 B85A | | | |
| | 3 | Ericsson RRUS 4415 B25 | | | |
| | 3 | Ericsson Air6449 B41 | | | |
| | 3 | Ericsson AIR32 B66Aa/B2a | | | |
| | 3 | RFS APXVAARR24_43-U-NA20 | | | |

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

Install proposed lines inside the pole shaft.

Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|----------------------|-------------------|-----------|
| Anchor Bolts | 73% | Pass |
| Shaft | 71% | Pass |
| Base Plate | 20% | Pass |

Foundations

| Reaction Component | Analysis Reactions | % of Usage |
|--------------------|--------------------|------------|
| Moment (Kips-Ft) | 3,477.1 | 70% |
| Axial (Kips) | 60.2 | 3% |
| Shear (Kips) | 32.5 | 43% |

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

Deflection and Sway*

| Antenna Elevation (ft) | Antenna | Carrier | Deflection (ft) | Sway (Rotation) (°) |
|------------------------|------------------------------|-----------------------|-----------------|---------------------|
| 123.0 | Ericsson KRY 112 489/1 | T-MOBILE | 1.068 | 0.906 |
| | Ericsson Radio 4449 B71 B85A | | | |
| | Ericsson RRUS 4415 B25 | | | |
| | Ericsson Air6449 B41 | | | |
| | Ericsson AIR32 B66Aa/B2a | | | |
| | RFS APXVAARR24_43-U-NA20 | | | |
| 89.0 | DragonWave A-ANT-18G-2-C | CLEARWIRE CORPORATION | 0.581 | 0.721 |
| | DragonWave A-ANT-11G-2.5-C | | | |

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



Standard Conditions

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

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

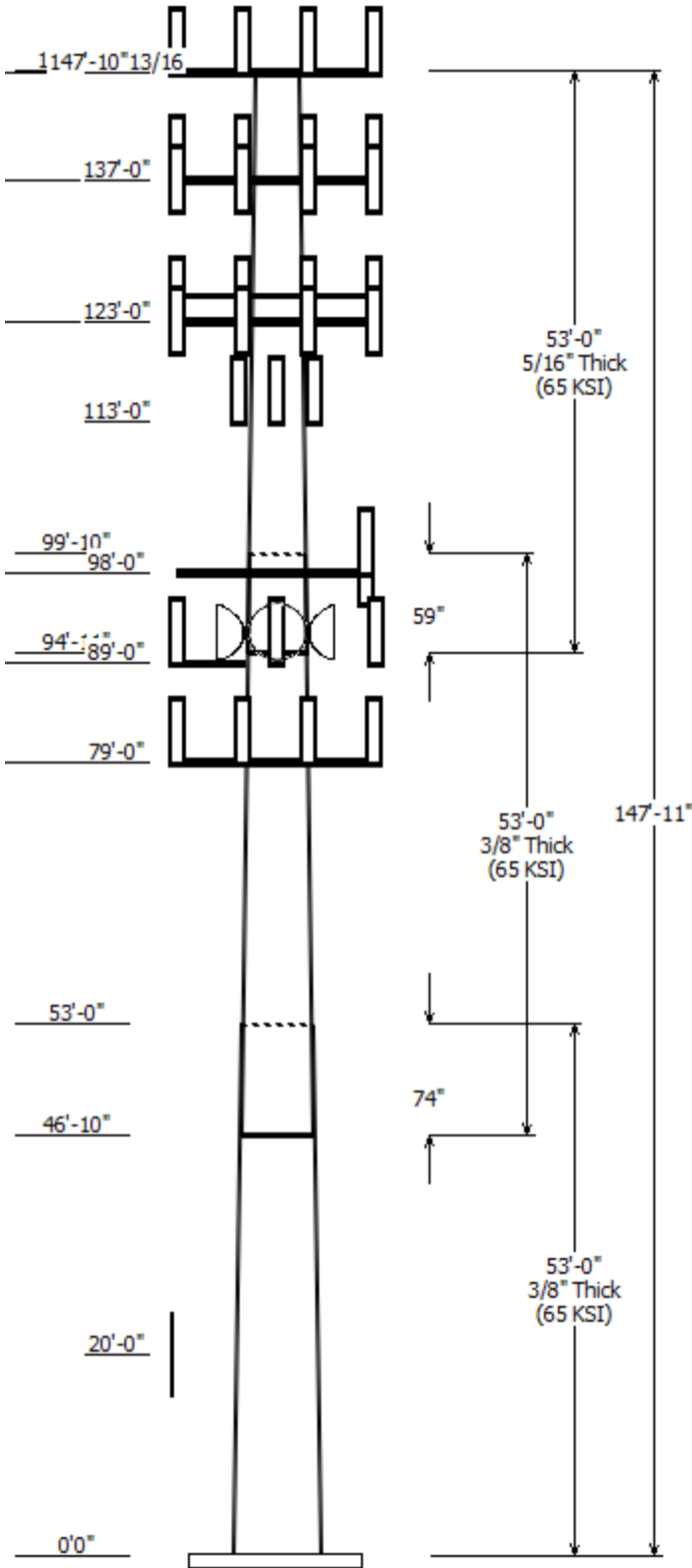
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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

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

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

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| Job Information | |
|---------------------------------|--------------------------|
| Client : T-MOBILE | Code: ANSI/TIA-222-H |
| Pole : 302468 | |
| Location : Petro Lock, CT | |
| Description : 148' FWT Monopole | Risk Category : II |
| Shape : 18 Sides | Exposure : B |
| Height : 147.92 (ft) | Topo Method : Method 1 |
| Base Elev (ft): 0.00 | Topographic Category : 1 |
| Taper: 0.214564in/ft) | |

| Sections Properties | | | | | | |
|---------------------|-------------|---------------|--------------|------------------|---------------------|-------------|
| Shaft Section | Length (ft) | Diameter (in) | | Thick Joint (in) | Overlap Length (in) | Steel Grade |
| | | Accross Top | Flats Bottom | | | |
| 1 | 53.000 | 45.20 | 56.58 | 0.375 | 0.000 | 18 Sides 65 |
| 2 | 53.000 | 35.90 | 47.28 | 0.375 Slip Joint | 74.000 | 18 Sides 65 |
| 3 | 53.000 | 26.21 | 37.58 | 0.313 Slip Joint | 59.000 | 18 Sides 65 |

| Discrete Appurtenance | | | |
|-----------------------|-----------------|-----|--------------------------------|
| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
| 147.900 | 152.000 | 8 | Andrew 844G65VTZASX |
| 147.900 | 152.000 | 4 | Decibel DB844H90E-XY |
| 147.900 | 147.900 | 1 | Flat Platform w/ Handrails |
| 137.000 | 137.000 | 1 | Flat Platform w/ Handrails |
| 137.000 | 137.000 | 1 | CCI DMP65R-BU8D |
| 137.000 | 137.000 | 1 | Kathrein Scala 80010966 |
| 137.000 | 138.000 | 2 | Kathrein Scala 80010965 |
| 137.000 | 138.000 | 1 | CCI TPA-65R-LCUUUU-H8 |
| 137.000 | 137.000 | 2 | CCI DMP65R-BU6DA |
| 137.000 | 138.000 | 2 | Quintel QS66512-3 (112 lbs.) |
| 137.000 | 138.000 | 3 | Powerwave Allgon 7750.00 |
| 137.000 | 137.000 | 3 | Ericsson RRUS-32 B30 (77 lbs) |
| 137.000 | 137.000 | 3 | Ericsson RRUS E2 B29 |
| 137.000 | 138.000 | 6 | Ericsson RRUS 32 B2 |
| 137.000 | 137.000 | 3 | Ericsson RRUS 32 B66A |
| 137.000 | 138.000 | 1 | Raycap DC6-48-60-18-8C |
| 137.000 | 137.000 | 3 | Ericsson RRUS 4449 B5, B12 |
| 137.000 | 138.000 | 3 | Ericsson RRUS 4478 B14 (15") |
| 137.000 | 137.000 | 1 | Raycap DC6-48-60-18-8F |
| 137.000 | 138.000 | 2 | Raycap DC6-48-60-18-8F (23.5" |
| 137.000 | 138.000 | 7 | Powerwave Allgon LGP21401 |
| 137.000 | 137.000 | 6 | Powerwave Allgon 7020.00 |
| 137.000 | 138.000 | 6 | Powerwave Allgon LGP21901 |
| 123.000 | 123.000 | 1 | Generic Flat Platform with Han |
| 123.000 | 123.000 | 3 | RFS APXVAARR24_43-U-NA20 |
| 123.000 | 124.000 | 3 | RFS APX16DWV-16DWVS-E-A20 |
| 123.000 | 123.000 | 3 | Ericsson AIR32 B66Aa/B2a |
| 123.000 | 123.000 | 3 | Ericsson Air6449 B41 |
| 123.000 | 123.000 | 3 | Ericsson RRUS 4415 B25 |
| 123.000 | 123.000 | 3 | Ericsson Radio 4449 B71 B85A |
| 123.000 | 124.000 | 2 | Ericsson KRY 112 489/1 |
| 123.000 | 124.000 | 3 | Ericsson KRY 112 489/1 |
| 123.000 | 123.000 | 3 | Ericsson KRY 112 144/1 |
| 113.000 | 114.000 | 3 | RFS APXV18-206517 |
| 98.000 | 98.000 | 1 | Round Low Profile Platform |
| 98.000 | 99.000 | 3 | RFS APXVSP18-C-A20 |
| 98.000 | 98.000 | 3 | Nokia 2.5G MAA - |
| 98.000 | 99.000 | 3 | Alcatel-Lucent 4x40W RRH (88 l |
| 98.000 | 99.000 | 3 | Alcatel-Lucent 800 MHz 2X50W |
| 98.000 | 99.000 | 3 | RFS IBC1900HG-2A |
| 98.000 | 99.000 | 3 | RFS IBC1900BB-1 |
| 89.000 | 89.000 | 1 | Side Arms |
| 89.000 | 90.000 | 1 | DragonWave A-ANT-11G-2.5-C |
| 89.000 | 90.000 | 2 | DragonWave A-ANT-18G-2-C |
| 89.000 | 90.000 | 3 | Argus LLPX310R |

| | | | |
|--------|--------|----|----------------------------|
| 89.000 | 90.000 | 3 | NextNet BTS-2500 |
| 89.000 | 90.000 | 3 | DragonWave Horizon Compact |
| 79.000 | 79.000 | 1 | Generic Round Low Profile |
| 79.000 | 80.000 | 12 | Commscope SBNHH-1D65B |
| 79.000 | 80.000 | 2 | RFS DB-T1-6Z-8AB-0Z |
| 79.000 | 80.000 | 3 | Alcatel-Lucent RRH2x60 |
| 79.000 | 80.000 | 3 | Alcatel-Lucent RRH2x60 700 |
| 79.000 | 80.000 | 3 | Alcatel-Lucent RRH2X60-AWS |
| 20.000 | 20.000 | 1 | Lucent KS-24019 |

Linear Appurtenance

| Elev (ft) | | Description | Exposed To Wind |
|-----------|--------|------------------|-----------------|
| From | To | | |
| 5.000 | 20.000 | 1/2" Coax | Yes |
| 5.000 | 79.000 | 1 5/8" Hybriflex | Yes |
| 5.000 | 89.000 | 1/2" Coax | Yes |
| 5.000 | 89.000 | 5/16" (0.31") | No |
| 5.000 | 90.000 | 2" conduit | Yes |
| 5.000 | 98.000 | 1 1/4" Hybriflex | No |
| 5.000 | 98.000 | 1.7" (43.2mm) | No |
| 5.000 | 113.0 | 1 5/8" Coax | No |
| 5.000 | 123.0 | 1 1/4" (1.25") | Yes |
| 5.000 | 123.0 | 1 5/8" (1.63") | No |
| 5.000 | 123.0 | 1 5/8" Coax | Yes |
| 5.000 | 123.0 | 1 5/8" Coax | No |
| 5.000 | 137.0 | 0.39" (10mm) | No |
| 5.000 | 137.0 | 0.39" (9.8mm) | No |
| 5.000 | 137.0 | 0.78" (19.7mm) 8 | No |
| 5.000 | 137.0 | 1 5/8" Coax | No |
| 5.000 | 137.0 | 3" conduit | No |

Load Cases

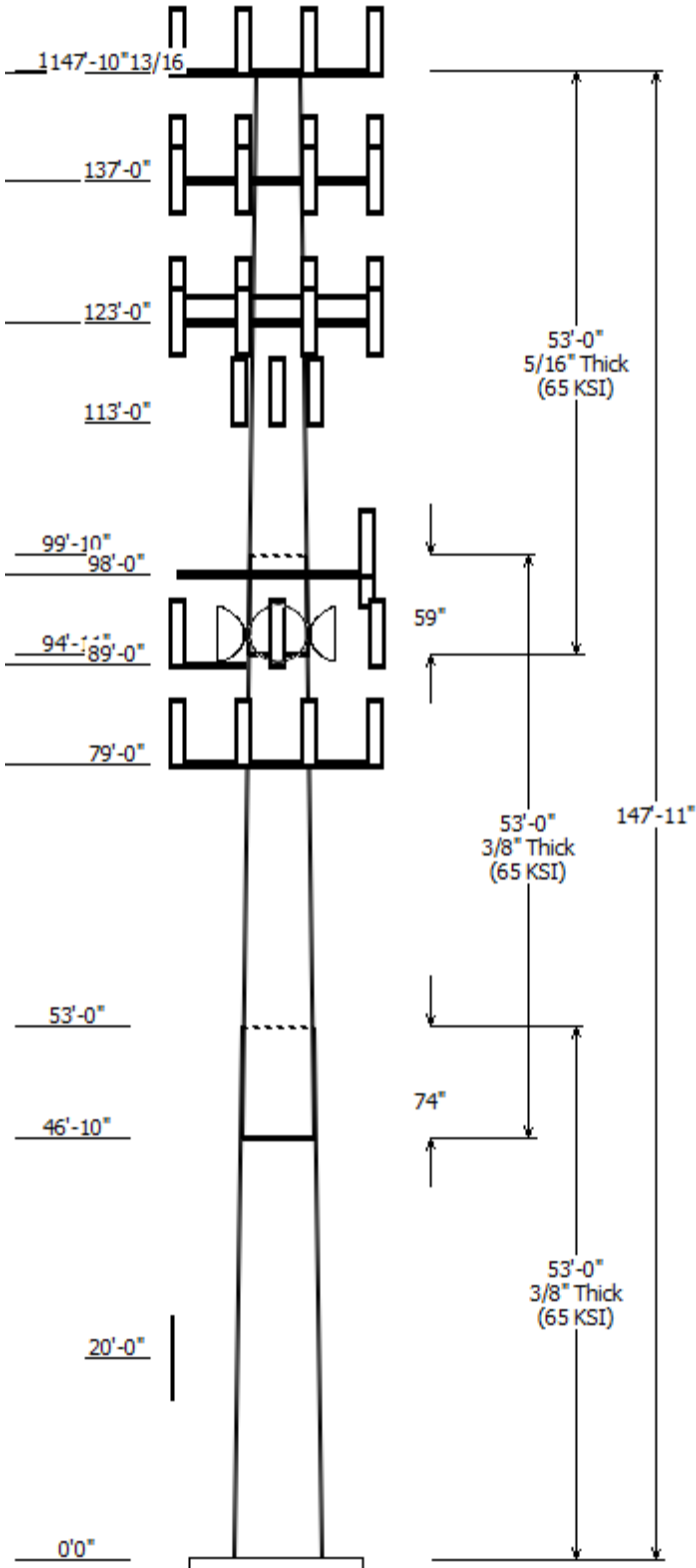
| | |
|----------------------|----------------------------------|
| 1.2D + 1.0W | 118 mph with No Ice |
| 0.9D + 1.0W | 118 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 50 mph with 1.50 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | Serviceability 60 mph |

Reactions

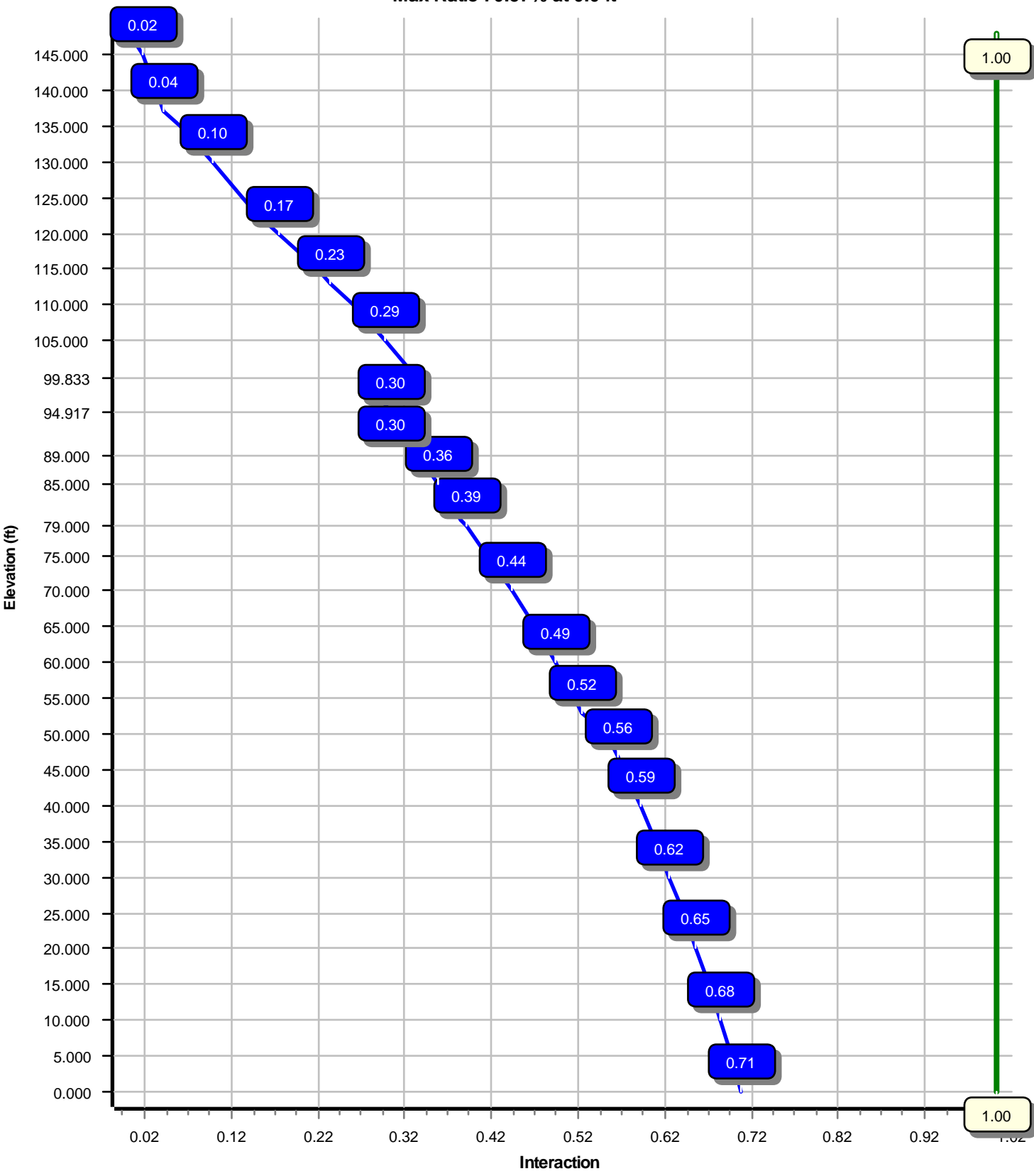
| Load Case | Moment (kip-ft) | Shear (kip) | Axial (kip) |
|----------------------|-----------------|-------------|-------------|
| 1.2D + 1.0W | 3477.12 | 32.45 | 60.20 |
| 0.9D + 1.0W | 3434.97 | 32.42 | 45.14 |
| 1.2D + 1.0Di + 1.0Wi | 968.90 | 8.98 | 95.24 |
| 1.2D + 1.0Ev + 1.0Eh | 179.80 | 1.51 | 60.90 |
| 0.9D - 1.0Ev + 1.0Eh | 177.07 | 1.51 | 42.18 |
| 1.0D + 1.0W | 798.41 | 7.50 | 50.21 |

Dish Deflections

| Load Case | Attach Elev (ft) | Deflection (in) | Rotation (deg) |
|-------------|------------------|-----------------|----------------|
| 1.0D + 1.0W | 89.00 | 6.967 | 0.721 |
| 1.0D + 1.0W | 89.00 | 6.967 | 0.721 |



Load Case : 1.2D + 1.0W
Max Ratio 70.57% at 0.0 ft



Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:31:55 PM

Customer: T-MOBILE

Analysis Parameters

| | | | |
|---------------------|---------------------|----------------------|---------|
| Location : | Hartford County, CT | Height (ft) : | 147.917 |
| Code : | ANSI/TIA-222-H | Base Diameter (in) : | 56.58 |
| Shape : | 18 Sides | Top Diameter (in) : | 26.22 |
| Pole Type : | Taper | Taper (in/ft) : | 0.215 |
| Pole Manufacturer : | FWT Inc | Rotation (deg) : | 0.00 |
| Kd (non-service) : | 0.95 | Ke : | 1.00 |

Ice & Wind Parameters

| | | | |
|-------------------------------|----------|--------------------------------|----------|
| Exposure Category: | B | Design Wind Speed Without Ice: | 118 mph |
| Risk Category: | II | Design Wind Speed With Ice: | 50 mph |
| Topographic Factor Procedure: | Method 1 | Operational Wind Speed: | 60 mph |
| Topographic Category: | 1 | Design Ice Thickness: | 1.50 in |
| Crest Height: | 0 ft | HMSL: | 19.00 ft |

Seismic Parameters

| | | | |
|--|---------------------------------|---------------------|-------|
| Analysis Method: | Equivalent Lateral Force Method | | |
| Site Class: | D - Stiff Soil | | |
| Period Based on Rayleigh Method (sec): | 2.35 | | |
| T _L (sec): | 6 | p: | 1 |
| S _s : | 0.191 | S ₁ : | 0.055 |
| F _a : | 1.600 | F _v : | 2.400 |
| S _{ds} : | 0.204 | S _{d1} : | 0.088 |
| | | C _s : | 0.030 |
| | | C _s Max: | 0.030 |
| | | C _s Min: | 0.030 |

Load Cases

| | |
|----------------------|----------------------------------|
| 1.2D + 1.0W | 118 mph with No Ice |
| 0.9D + 1.0W | 118 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 50 mph with 1.50 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | Serviceability 60 mph |

Shaft Section Properties

| Sect Info | Length (ft) | Thick (in) | Fy (ksi) | Joint Type | Slip Joint Len (in) | Weight (lb) | Bottom | | | | | | Top | | | | | | |
|--------------|-------------|------------|----------|------------|---------------------|-------------|----------|-----------|-------------------------|-----------------------|-----------|-----------|----------|-----------|-------------------------|-----------------------|-----------|-----------|---------------|
| | | | | | | | Dia (in) | Elev (ft) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | Taper (in/ft) |
| 1-18 | 53.000 | 0.3750 | 65 | | 0.00 | 10,844 | 56.58 | 0.00 | 66.90 | 26698.9 | 24.84 | 150.88 | 45.20 | 53.00 | 53.36 | 13550.6 | 19.49 | 120.55 | 0.214568 |
| 2-18 | 53.000 | 0.3750 | 65 | Slip | 74.00 | 8,848 | 47.28 | 46.83 | 55.83 | 15518.7 | 20.47 | 126.08 | 35.90 | 99.83 | 42.29 | 6746.8 | 15.12 | 95.76 | 0.214568 |
| 3-18 | 53.000 | 0.3125 | 65 | Slip | 59.00 | 5,651 | 37.58 | 94.92 | 36.97 | 6490.6 | 19.45 | 120.28 | 26.21 | 147.92 | 25.69 | 2178.2 | 13.03 | 83.89 | 0.214568 |
| Shaft Weight | | | | | | 25,342 | | | | | | | | | | | | | |

Discrete Appurtenance Properties

| Attach Elev (ft) | Description | Qty | Ka | Vert Ecc (ft) | No Ice | | | Ice | | |
|------------------|--------------------------------|-----|------|---------------|-------------|-----------|--------------------|-------------|-----------|--------------------|
| | | | | | Weight (lb) | EPAa (sf) | Orientation Factor | Weight (lb) | EPAa (sf) | Orientation Factor |
| 147.90 | Decibel DB844H90E-XY | 4 | 0.75 | 4.100 | 14.00 | 3.615 | 0.73 | 124.33 | 3.920 | 0.73 |
| 147.90 | Andrew 844G65VTZASX | 8 | 0.75 | 4.100 | 16.00 | 5.310 | 0.71 | 171.60 | 6.310 | 0.71 |
| 147.90 | Flat Platform w/ Handrails | 1 | 1.00 | 0.000 | 2,000.00 | 42.400 | 1.00 | 3,420.69 | 63.365 | 1.00 |
| 137.00 | Powerwave Allgon LGP21901 | 6 | 0.75 | 1.000 | 5.50 | 0.200 | 0.50 | 13.12 | 0.517 | 0.50 |
| 137.00 | Powerwave Allgon 7020.00 Dual | 6 | 0.75 | 0.000 | 2.20 | 0.339 | 0.50 | 12.34 | 0.745 | 0.50 |
| 137.00 | Powerwave Allgon LGP21401 | 7 | 0.75 | 1.000 | 14.10 | 1.104 | 0.50 | 38.86 | 1.812 | 0.50 |
| 137.00 | Raycap DC6-48-60-18-8F (23.5") | 2 | 0.75 | 1.000 | 20.00 | 1.260 | 1.00 | 72.25 | 1.913 | 1.00 |
| 137.00 | Raycap DC6-48-60-18-8F | 1 | 0.75 | 0.000 | 31.80 | 1.470 | 1.00 | 93.02 | 2.163 | 1.00 |
| 137.00 | Ericsson RRUS 4478 B14 (15") | 3 | 0.75 | 1.000 | 59.40 | 1.650 | 0.50 | 108.72 | 2.491 | 0.50 |
| 137.00 | Ericsson RRUS 4449 B5, B12 | 3 | 0.75 | 0.000 | 71.00 | 1.969 | 0.50 | 134.95 | 2.895 | 0.50 |
| 137.00 | Raycap DC6-48-60-18-8C | 1 | 0.75 | 1.000 | 16.00 | 2.030 | 1.00 | 73.77 | 2.784 | 1.00 |
| 137.00 | Ericsson RRUS 32 B66A | 3 | 0.75 | 0.000 | 50.70 | 2.720 | 0.67 | 123.42 | 3.874 | 0.67 |
| 137.00 | Ericsson RRUS 32 B2 | 6 | 0.75 | 1.000 | 53.00 | 2.743 | 0.67 | 125.98 | 3.903 | 0.67 |
| 137.00 | Ericsson RRUS E2 B29 | 3 | 0.75 | 0.000 | 60.00 | 3.145 | 0.62 | 140.26 | 4.295 | 0.62 |
| 137.00 | Ericsson RRUS-32 B30 (77 lbs) | 3 | 0.75 | 0.000 | 77.00 | 3.314 | 0.71 | 173.50 | 4.588 | 0.71 |
| 137.00 | Powerwave Allgon 7750.00 | 3 | 0.75 | 1.000 | 27.00 | 5.555 | 0.65 | 139.81 | 7.679 | 0.65 |
| 137.00 | Quintel QS66512-3 (112 lbs.) | 2 | 0.75 | 1.000 | 112.00 | 8.133 | 0.80 | 309.74 | 10.899 | 0.80 |
| 137.00 | CCI DMP65R-BU6DA | 2 | 0.75 | 0.000 | 79.40 | 12.709 | 0.72 | 335.01 | 15.476 | 0.72 |
| 137.00 | CCI TPA-65R-LCUUUU-H8 | 1 | 0.75 | 1.000 | 81.60 | 13.298 | 1.00 | 356.25 | 17.003 | 1.00 |
| 137.00 | Kathrein Scala 80010965 | 2 | 0.75 | 1.000 | 97.60 | 13.814 | 0.62 | 362.15 | 16.841 | 0.62 |
| 137.00 | Kathrein Scala 80010966 | 1 | 0.75 | 0.000 | 114.60 | 17.363 | 1.00 | 433.23 | 21.024 | 1.00 |
| 137.00 | CCI DMP65R-BU8D | 1 | 0.75 | 0.000 | 95.70 | 17.871 | 1.00 | 432.96 | 21.528 | 1.00 |
| 137.00 | Flat Platform w/ Handrails | 1 | 1.00 | 0.000 | 2,000.00 | 42.400 | 1.00 | 3,410.21 | 63.210 | 1.00 |
| 123.00 | Ericsson KRY 112 144/1 | 3 | 0.80 | 0.000 | 11.00 | 0.351 | 0.50 | 21.56 | 0.749 | 0.50 |
| 123.00 | Ericsson KRY 112 489/1 | 3 | 0.80 | 1.000 | 15.40 | 0.559 | 0.50 | 32.65 | 1.074 | 0.50 |
| 123.00 | Ericsson KRY 112 489/1 | 2 | 0.80 | 1.000 | 15.40 | 0.559 | 0.50 | 32.65 | 1.074 | 0.50 |
| 123.00 | Ericsson Radio 4449 B71 B85A | 3 | 0.80 | 0.000 | 75.00 | 1.650 | 0.50 | 134.01 | 2.483 | 0.50 |
| 123.00 | Ericsson RRUS 4415 B25 | 3 | 0.80 | 0.000 | 46.00 | 1.842 | 0.50 | 94.11 | 2.722 | 0.50 |
| 123.00 | Ericsson Air6449 B41 | 3 | 0.80 | 0.000 | 104.00 | 5.682 | 0.63 | 237.71 | 7.239 | 0.63 |
| 123.00 | Ericsson AIR32 B66Aa/B2a | 3 | 0.80 | 0.000 | 132.20 | 6.510 | 0.71 | 288.80 | 8.659 | 0.71 |
| 123.00 | RFS APX16DWV-16DWVS-E-A20 | 3 | 0.80 | 1.000 | 40.70 | 6.586 | 0.60 | 155.32 | 8.711 | 0.60 |
| 123.00 | RFS APXVAARR24_43-U-NA20 | 3 | 0.80 | 0.000 | 127.90 | 20.243 | 0.63 | 513.09 | 23.882 | 0.63 |
| 123.00 | Generic Flat Platform with | 1 | 1.00 | 0.000 | 2,500.00 | 42.400 | 1.00 | 4,243.00 | 62.977 | 1.00 |
| 113.00 | RFS APXV18-206517 | 3 | 1.00 | 1.000 | 26.40 | 5.050 | 0.68 | 115.30 | 7.350 | 0.68 |
| 98.00 | RFS IBC1900BB-1 | 3 | 0.80 | 1.000 | 22.00 | 0.966 | 0.50 | 47.88 | 1.600 | 0.50 |
| 98.00 | RFS IBC1900HG-2A | 3 | 0.80 | 1.000 | 22.00 | 0.966 | 0.50 | 47.88 | 1.600 | 0.50 |
| 98.00 | Alcatel-Lucent 800 MHz 2X50W | 3 | 0.80 | 1.000 | 64.00 | 2.058 | 1.00 | 137.87 | 2.976 | 1.00 |
| 98.00 | Alcatel-Lucent 4x40W RRH (88 | 3 | 0.80 | 1.000 | 88.00 | 3.258 | 1.00 | 192.45 | 4.398 | 1.00 |
| 98.00 | Nokia 2.5G MAA - AAHC(64T64R) | 3 | 0.80 | 0.000 | 103.60 | 4.203 | 0.64 | 211.69 | 5.489 | 0.64 |
| 98.00 | RFS APXVSP18-C-A20 | 3 | 0.80 | 1.000 | 57.00 | 8.024 | 0.69 | 222.39 | 10.699 | 0.69 |
| 98.00 | Round Low Profile Platform | 1 | 1.00 | 0.000 | 1,500.00 | 21.700 | 1.00 | 2,121.21 | 40.108 | 1.00 |
| 89.00 | DragonWave Horizon Compact | 3 | 0.80 | 1.000 | 10.60 | 0.721 | 0.50 | 31.94 | 1.261 | 0.50 |
| 89.00 | NextNet BTS-2500 | 3 | 0.80 | 1.000 | 35.00 | 1.817 | 0.50 | 79.01 | 2.687 | 0.50 |
| 89.00 | Argus LLPX310R | 3 | 0.80 | 1.000 | 28.60 | 4.292 | 0.63 | 114.12 | 5.861 | 0.63 |
| 89.00 | DragonWave A-ANT-18G-2-C | 2 | 1.00 | 1.000 | 27.10 | 4.688 | 1.00 | 119.70 | 5.897 | 1.00 |
| 89.00 | Side Arms | 1 | 1.00 | 0.000 | 560.00 | 8.500 | 1.00 | 1,004.24 | 15.243 | 1.00 |
| 89.00 | DragonWave A-ANT-11G-2.5-C | 1 | 1.00 | 1.000 | 47.60 | 8.670 | 1.00 | 215.73 | 10.309 | 1.00 |
| 79.00 | Alcatel-Lucent RRH2X60-AWS | 3 | 0.80 | 1.000 | 44.00 | 1.876 | 0.50 | 97.22 | 2.754 | 0.50 |

Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:31:56 PM

Customer: T-MOBILE

| | | | | | | | | | | |
|--------|----------------------------|----|------|-------|----------|--------|------|-----------|--------|-----------|
| 79.00 | Alcatel-Lucent RRH2x60 700 | 3 | 0.80 | 1.000 | 56.70 | 2.150 | 0.67 | 120.50 | 3.089 | 0.67 |
| 79.00 | Alcatel-Lucent RRH2x60 | 3 | 0.80 | 1.000 | 60.00 | 3.500 | 0.65 | 134.17 | 4.876 | 0.65 |
| 79.00 | RFS DB-T1-6Z-8AB-0Z | 2 | 0.80 | 1.000 | 44.00 | 4.800 | 0.72 | 161.98 | 6.132 | 0.72 |
| 79.00 | Commscope SBNHH-1D65B | 12 | 0.80 | 1.000 | 50.70 | 8.173 | 0.69 | 215.22 | 10.826 | 0.69 |
| 79.00 | Generic Round Low Profile | 1 | 1.00 | 0.000 | 1,875.00 | 21.700 | 1.00 | 2,634.18 | 39.698 | 1.00 |
| 20.00 | Lucent KS-24019 | 1 | 1.00 | 0.000 | 4.00 | 0.910 | 1.00 | 24.34 | 1.721 | 1.00 |
| Totals | Num Loadings:54 | | | | 157 | | | 17,418.20 | | 38,434.15 |

Linear Appurtenance Properties Load Case Azimuth (deg) : 90

| Elev From (ft) | Elev To (ft) | Qty | Description | Coax Dia (in) | Coax Wt (lb/ft) | Max Coax / Flat | Dist Between Rows | Dist Between Cols (in) | Azimuth (deg) | Dist From Face (in) | Exposed To Wind | Carrier |
|----------------|--------------|-----|------------------------|---------------|-----------------|-----------------|-------------------|------------------------|---------------|---------------------|-----------------|------------------|
| 5.00 | 137.00 | 2 | 0.39" (10mm) Fiber | 0.39 | 0.06 | N | 0 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 5.00 | 137.00 | 2 | 0.39" (9.8mm) Cable | 0.39 | 0.07 | N | 0 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 5.00 | 137.00 | 8 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 5.00 | 137.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 5.00 | 137.00 | 3 | 3" conduit | 3.50 | 7.58 | N | 0 | 0.00 | 0 | 0.00 | N | AT&T MOBILITY |
| 5.00 | 123.00 | 2 | 1 1/4" (1.25"- 31.8mm) | 1.25 | 1.05 | N | 2 | 1.00 | 60 | 1.00 | Y | T-MOBILE |
| 5.00 | 123.00 | 1 | 1 5/8" (1.63"-41.3mm) | 1.63 | 1.61 | N | 0 | 0.00 | 0 | 0.00 | N | T-MOBILE |
| 5.00 | 123.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 6 | 1.00 | 35 | 1.00 | Y | T-MOBILE |
| 5.00 | 123.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0 | 0.00 | N | T-MOBILE |
| 5.00 | 113.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0.00 | 0 | 0.00 | N | METRO PCS INC |
| 5.00 | 98.00 | 3 | 1 1/4" Hybriflex Cable | 1.54 | 1.00 | N | 0 | 0.00 | 0 | 0.00 | N | SPRINT NEXTEL |
| 5.00 | 98.00 | 1 | 1.7" (43.2mm) Hybrid | 1.70 | 1.78 | N | 0 | 0.00 | 0 | 0.00 | N | SPRINT NEXTEL |
| 5.00 | 90.00 | 1 | 2" conduit | 2.38 | 3.65 | N | 1 | 1.00 | 315 | 1.00 | Y | CLEARWIRE |
| 5.00 | 89.00 | 3 | 1/2" Coax | 0.63 | 0.15 | N | 3 | 1.00 | 325 | 1.00 | Y | CLEARWIRE |
| 5.00 | 89.00 | 6 | 5/16" (0.31"-7.9mm) | 0.31 | 0.05 | N | 0 | 0.00 | 0 | 0.00 | N | CLEARWIRE |
| 5.00 | 79.00 | 2 | 1 5/8" Hybriflex | 1.98 | 1.30 | N | 2 | 1.00 | 180 | 1.00 | Y | VERIZON WIRELESS |
| 5.00 | 20.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 1 | 1.00 | 270 | 1.00 | Y | SPRINT NEXTEL |

Segment Properties (Max Len : 5. ft)

| Seg Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | F'y (ksi) | S (in ³) | Z (in ³) | Weight (lb) |
|-------------------|-----------------|------------|---------------|-------------------------|-----------------------|-----------|-----------|-----------|----------------------|----------------------|-------------|
| 0.00 | | 0.3750 | 56.580 | 66.895 | 26,698.9 | 24.84 | 150.88 | 72.2 | 929.4 | 0.0 | 0.0 |
| 5.00 | | 0.3750 | 55.507 | 65.618 | 25,199.0 | 24.34 | 148.02 | 72.8 | 894.2 | 0.0 | 1,127.3 |
| 10.00 | | 0.3750 | 54.434 | 64.341 | 23,756.4 | 23.83 | 145.16 | 73.4 | 859.6 | 0.0 | 1,105.6 |
| 15.00 | | 0.3750 | 53.361 | 63.065 | 22,369.9 | 23.33 | 142.30 | 74.0 | 825.7 | 0.0 | 1,083.8 |
| 20.00 | | 0.3750 | 52.288 | 61.788 | 21,038.4 | 22.82 | 139.44 | 74.6 | 792.5 | 0.0 | 1,062.1 |
| 25.00 | | 0.3750 | 51.216 | 60.511 | 19,760.8 | 22.32 | 136.57 | 75.2 | 760.0 | 0.0 | 1,040.4 |
| 30.00 | | 0.3750 | 50.143 | 59.234 | 18,536.1 | 21.81 | 133.71 | 75.7 | 728.1 | 0.0 | 1,018.7 |
| 35.00 | | 0.3750 | 49.070 | 57.957 | 17,363.0 | 21.31 | 130.85 | 76.3 | 696.9 | 0.0 | 996.9 |
| 40.00 | | 0.3750 | 47.997 | 56.680 | 16,240.5 | 20.81 | 127.99 | 76.9 | 666.4 | 0.0 | 975.2 |
| 45.00 | | 0.3750 | 46.924 | 55.403 | 15,167.4 | 20.30 | 125.13 | 77.5 | 636.6 | 0.0 | 953.5 |
| 46.83 | Bot - Section 2 | 0.3750 | 46.531 | 54.935 | 14,786.1 | 20.12 | 124.08 | 77.7 | 625.9 | 0.0 | 344.2 |
| 50.00 | | 0.3750 | 45.851 | 54.126 | 14,142.7 | 19.80 | 122.27 | 78.1 | 607.5 | 0.0 | 1,184.8 |
| 53.00 | Top - Section 1 | 0.3750 | 45.958 | 54.253 | 14,242.1 | 19.85 | 122.55 | 78.1 | 610.4 | 0.0 | 1,106.4 |
| 55.00 | | 0.3750 | 45.528 | 53.742 | 13,843.6 | 19.64 | 121.41 | 78.3 | 598.9 | 0.0 | 367.5 |
| 60.00 | | 0.3750 | 44.456 | 52.465 | 12,880.1 | 19.14 | 118.55 | 78.9 | 570.7 | 0.0 | 903.5 |
| 65.00 | | 0.3750 | 43.383 | 51.188 | 11,962.4 | 18.64 | 115.69 | 79.5 | 543.1 | 0.0 | 881.8 |
| 70.00 | | 0.3750 | 42.310 | 49.911 | 11,089.3 | 18.13 | 112.83 | 80.1 | 516.2 | 0.0 | 860.0 |
| 75.00 | | 0.3750 | 41.237 | 48.634 | 10,259.8 | 17.63 | 109.97 | 80.7 | 490.0 | 0.0 | 838.3 |
| 79.00 | | 0.3750 | 40.379 | 47.613 | 9,626.8 | 17.22 | 107.68 | 81.1 | 469.6 | 0.0 | 655.0 |
| 80.00 | | 0.3750 | 40.164 | 47.357 | 9,472.7 | 17.12 | 107.10 | 81.3 | 464.5 | 0.0 | 161.6 |
| 85.00 | | 0.3750 | 39.091 | 46.081 | 8,726.9 | 16.62 | 104.24 | 81.9 | 439.7 | 0.0 | 794.9 |
| 89.00 | | 0.3750 | 38.233 | 45.059 | 8,159.3 | 16.21 | 101.96 | 82.3 | 420.3 | 0.0 | 620.3 |
| 90.00 | | 0.3750 | 38.019 | 44.804 | 8,021.4 | 16.11 | 101.38 | 82.4 | 415.6 | 0.0 | 152.9 |
| 94.92 | Bot - Section 3 | 0.3750 | 36.964 | 43.548 | 7,365.7 | 15.62 | 98.57 | 82.6 | 392.5 | 0.0 | 739.1 |
| 95.00 | | 0.3750 | 36.946 | 43.527 | 7,354.9 | 15.61 | 98.52 | 82.6 | 392.1 | 0.0 | 22.8 |
| 98.00 | | 0.3750 | 36.302 | 42.761 | 6,973.3 | 15.31 | 96.81 | 82.6 | 378.3 | 0.0 | 814.4 |
| 99.83 | Top - Section 2 | 0.3125 | 36.534 | 35.926 | 5,955.0 | 18.85 | 116.91 | 79.2 | 321.0 | 0.0 | 490.6 |
| 100.0 | | 0.3125 | 36.498 | 35.890 | 5,937.4 | 18.83 | 116.79 | 79.3 | 320.4 | 0.0 | 20.4 |
| 105.0 | | 0.3125 | 35.425 | 34.826 | 5,424.8 | 18.23 | 113.36 | 80.0 | 301.6 | 0.0 | 601.6 |
| 110.0 | | 0.3125 | 34.352 | 33.762 | 4,942.6 | 17.62 | 109.93 | 80.7 | 283.4 | 0.0 | 583.5 |
| 113.0 | | 0.3125 | 33.709 | 33.124 | 4,667.5 | 17.26 | 107.87 | 81.1 | 272.7 | 0.0 | 341.4 |
| 115.0 | | 0.3125 | 33.279 | 32.698 | 4,489.8 | 17.01 | 106.49 | 81.4 | 265.7 | 0.0 | 224.0 |
| 120.0 | | 0.3125 | 32.207 | 31.634 | 4,065.6 | 16.41 | 103.06 | 82.1 | 248.6 | 0.0 | 547.3 |
| 123.0 | | 0.3125 | 31.563 | 30.995 | 3,824.4 | 16.05 | 101.00 | 82.5 | 238.7 | 0.0 | 319.7 |
| 125.0 | | 0.3125 | 31.134 | 30.570 | 3,669.0 | 15.80 | 99.63 | 82.6 | 232.1 | 0.0 | 209.5 |
| 130.0 | | 0.3125 | 30.061 | 29.506 | 3,299.0 | 15.20 | 96.19 | 82.6 | 216.2 | 0.0 | 511.1 |
| 135.0 | | 0.3125 | 28.988 | 28.442 | 2,954.8 | 14.59 | 92.76 | 82.6 | 200.8 | 0.0 | 493.0 |
| 137.0 | | 0.3125 | 28.559 | 28.016 | 2,824.1 | 14.35 | 91.39 | 82.6 | 194.8 | 0.0 | 192.1 |
| 140.0 | | 0.3125 | 27.915 | 27.377 | 2,635.4 | 13.99 | 89.33 | 82.6 | 185.9 | 0.0 | 282.7 |
| 145.0 | | 0.3125 | 26.842 | 26.313 | 2,339.9 | 13.38 | 85.90 | 82.6 | 171.7 | 0.0 | 456.7 |
| 147.9 | | 0.3125 | 26.220 | 25.696 | 2,179.1 | 13.03 | 83.90 | 82.6 | 163.7 | 0.0 | 256.6 |
| 147.9 | | 0.3125 | 26.216 | 25.693 | 2,178.2 | 13.03 | 83.89 | 82.6 | 163.6 | 0.0 | 1.5 |
| | | | | | | | | | | | 25,342.4 |

| | | |
|-------------------------------|----------------------------|----------------------|
| Load Case: 1.2D + 1.0W | 118 mph with No Ice | 23 Iterations |
| Gust Response Factor :1.10 | | |
| Dead Load Factor :1.20 | | |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|----------------|-----------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 194.6 | 0.0 | | | | | 0.0 | 0.0 | 194.6 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 415.8 | 1,352.7 | | | | | 0.0 | 0.0 | 415.8 | 1,352.7 | 0.0 | 0.0 |
| 10.00 | | 438.1 | 1,326.7 | | | | | 0.0 | 378.2 | 438.1 | 1,704.9 | 0.0 | 0.0 |
| 15.00 | | 429.4 | 1,300.6 | | | | | 0.0 | 378.2 | 429.4 | 1,678.8 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 420.8 | 1,274.5 | 23.7 | 0.0 | 0.0 | 4.8 | 0.0 | 378.2 | 444.5 | 1,657.6 | 0.0 | 0.0 |
| 25.00 | | 412.2 | 1,248.5 | | | | | 0.0 | 377.3 | 412.2 | 1,625.8 | 0.0 | 0.0 |
| 30.00 | | 408.3 | 1,222.4 | | | | | 0.0 | 377.3 | 408.3 | 1,599.7 | 0.0 | 0.0 |
| 35.00 | | 412.7 | 1,196.3 | | | | | 0.0 | 377.3 | 412.7 | 1,573.7 | 0.0 | 0.0 |
| 40.00 | | 419.5 | 1,170.3 | | | | | 0.0 | 377.3 | 419.5 | 1,547.6 | 0.0 | 0.0 |
| 45.00 | | 289.1 | 1,144.2 | | | | | 0.0 | 377.3 | 289.1 | 1,521.5 | 0.0 | 0.0 |
| 46.83 | Bot - Section 2 | 215.2 | 413.0 | | | | | 0.0 | 138.4 | 215.2 | 551.4 | 0.0 | 0.0 |
| 50.00 | | 267.8 | 1,421.8 | | | | | 0.0 | 239.0 | 267.8 | 1,660.7 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 217.7 | 1,327.6 | | | | | 0.0 | 226.4 | 217.7 | 1,554.0 | 0.0 | 0.0 |
| 55.00 | | 305.4 | 441.0 | | | | | 0.0 | 150.9 | 305.4 | 591.9 | 0.0 | 0.0 |
| 60.00 | | 436.4 | 1,084.2 | | | | | 0.0 | 377.3 | 436.4 | 1,461.5 | 0.0 | 0.0 |
| 65.00 | | 435.7 | 1,058.1 | | | | | 0.0 | 377.3 | 435.7 | 1,435.5 | 0.0 | 0.0 |
| 70.00 | | 434.0 | 1,032.1 | | | | | 0.0 | 377.3 | 434.0 | 1,409.4 | 0.0 | 0.0 |
| 75.00 | | 388.6 | 1,006.0 | | | | | 0.0 | 377.3 | 388.6 | 1,383.3 | 0.0 | 0.0 |
| 79.00 | Appurtenance(s) | 215.0 | 786.0 | 3,191.1 | 0.0 | 2,444.8 | 3,664.2 | 0.0 | 301.9 | 3,406.0 | 4,752.1 | 0.0 | 0.0 |
| 80.00 | | 255.9 | 193.9 | | | | | 0.0 | 72.3 | 255.9 | 266.2 | 0.0 | 0.0 |
| 85.00 | | 381.9 | 953.8 | | | | | 0.0 | 361.7 | 381.9 | 1,315.6 | 0.0 | 0.0 |
| 89.00 | Appurtenance(s) | 210.8 | 744.3 | 1,286.9 | 0.0 | 984.5 | 1,061.3 | 0.0 | 289.4 | 1,497.8 | 2,095.0 | 0.0 | 0.0 |
| 90.00 | | 246.8 | 183.5 | | | | | 0.0 | 71.4 | 246.8 | 254.9 | 0.0 | 0.0 |
| 94.92 | Bot - Section 3 | 208.3 | 886.9 | | | | | 0.0 | 329.8 | 208.3 | 1,216.6 | 0.0 | 0.0 |
| 95.00 | | 129.2 | 27.4 | | | | | 0.0 | 5.6 | 129.2 | 33.0 | 0.0 | 0.0 |
| 98.00 | Appurtenance(s) | 201.9 | 977.3 | 2,070.2 | 0.0 | 1,040.4 | 3,083.8 | 0.0 | 201.2 | 2,272.1 | 4,262.3 | 0.0 | 0.0 |
| 99.83 | Top - Section 2 | 83.2 | 588.8 | | | | | 0.0 | 112.4 | 83.2 | 701.2 | 0.0 | 0.0 |
| 100.00 | | 212.6 | 24.4 | | | | | 0.0 | 10.2 | 212.6 | 34.7 | 0.0 | 0.0 |
| 105.00 | | 408.1 | 721.9 | | | | | 0.0 | 306.7 | 408.1 | 1,028.6 | 0.0 | 0.0 |
| 110.00 | | 322.0 | 700.2 | | | | | 0.0 | 306.7 | 322.0 | 1,006.8 | 0.0 | 0.0 |
| 113.00 | Appurtenance(s) | 198.7 | 409.7 | 393.4 | 0.0 | 393.4 | 95.0 | 0.0 | 184.0 | 592.1 | 688.7 | 0.0 | 0.0 |
| 115.00 | | 273.8 | 268.8 | | | | | 0.0 | 110.9 | 273.8 | 379.6 | 0.0 | 0.0 |
| 120.00 | | 309.7 | 656.7 | | | | | 0.0 | 277.1 | 309.7 | 933.9 | 0.0 | 0.0 |
| 123.00 | Appurtenance(s) | 190.6 | 383.6 | 4,212.2 | 0.0 | 414.7 | 5,024.9 | 0.0 | 166.3 | 4,402.8 | 5,574.8 | 0.0 | 0.0 |
| 125.00 | | 262.1 | 251.4 | | | | | 0.0 | 78.3 | 262.1 | 329.7 | 0.0 | 0.0 |
| 130.00 | | 368.1 | 613.3 | | | | | 0.0 | 195.8 | 368.1 | 809.1 | 0.0 | 0.0 |
| 135.00 | | 253.2 | 591.5 | | | | | 0.0 | 195.8 | 253.2 | 787.4 | 0.0 | 0.0 |
| 137.00 | Appurtenance(s) | 162.5 | 230.5 | 6,364.2 | 0.0 | 2,322.7 | 5,347.1 | 0.0 | 78.3 | 6,526.7 | 5,656.0 | 0.0 | 0.0 |
| 140.00 | | 239.7 | 339.3 | | | | | 0.0 | 0.0 | 239.7 | 339.3 | 0.0 | 0.0 |
| 145.00 | | 232.7 | 548.1 | | | | | 0.0 | 0.0 | 232.7 | 548.1 | 0.0 | 0.0 |
| 147.90 | | 84.6 | 307.9 | | | | | 0.0 | 0.0 | 84.6 | 307.9 | 0.0 | 0.0 |
| 147.92 | | 0.5 | 1.8 | | | | | 0.0 | 0.0 | 0.5 | 1.8 | 0.0 | 0.0 |
| Totals: | | | | | | | | | | 29,534.7 | 57,633.3 | 0.00 | 0.00 |

Load Case: 1.2D + 1.0W

118 mph with No Ice

23 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -60.20 | -32.45 | 0.00 | -3,477.12 | 0.00 | 3,477.12 | 4,345.86 | 1,174.01 | 5,959.72 | 5,031.69 | 0.00 | 0.00 | 0.706 |
| 5.00 | -58.75 | -32.22 | 0.00 | -3,314.89 | 0.00 | 3,314.89 | 4,297.95 | 1,151.60 | 5,734.39 | 4,880.60 | 0.10 | -0.18 | 0.694 |
| 10.00 | -56.94 | -31.95 | 0.00 | -3,153.82 | 0.00 | 3,153.82 | 4,248.67 | 1,129.19 | 5,513.41 | 4,730.12 | 0.39 | -0.36 | 0.681 |
| 15.00 | -55.17 | -31.69 | 0.00 | -2,994.06 | 0.00 | 2,994.06 | 4,198.03 | 1,106.78 | 5,296.77 | 4,580.35 | 0.87 | -0.55 | 0.668 |
| 20.00 | -53.41 | -31.40 | 0.00 | -2,835.63 | 0.00 | 2,835.63 | 4,146.02 | 1,084.37 | 5,084.47 | 4,431.37 | 1.54 | -0.73 | 0.654 |
| 25.00 | -51.69 | -31.13 | 0.00 | -2,678.65 | 0.00 | 2,678.65 | 4,092.65 | 1,061.96 | 4,876.51 | 4,283.28 | 2.41 | -0.92 | 0.639 |
| 30.00 | -50.00 | -30.86 | 0.00 | -2,523.00 | 0.00 | 2,523.00 | 4,037.92 | 1,039.55 | 4,672.90 | 4,136.16 | 3.47 | -1.11 | 0.623 |
| 35.00 | -48.33 | -30.57 | 0.00 | -2,368.71 | 0.00 | 2,368.71 | 3,981.82 | 1,017.14 | 4,473.63 | 3,990.12 | 4.73 | -1.29 | 0.607 |
| 40.00 | -46.70 | -30.27 | 0.00 | -2,215.87 | 0.00 | 2,215.87 | 3,924.36 | 994.73 | 4,278.70 | 3,845.24 | 6.19 | -1.48 | 0.589 |
| 45.00 | -45.12 | -30.04 | 0.00 | -2,064.53 | 0.00 | 2,064.53 | 3,865.53 | 972.33 | 4,088.11 | 3,701.60 | 7.84 | -1.67 | 0.570 |
| 46.83 | -44.52 | -29.88 | 0.00 | -2,009.47 | 0.00 | 2,009.47 | 3,843.62 | 964.11 | 4,019.31 | 3,649.27 | 8.50 | -1.74 | 0.563 |
| 50.00 | -42.81 | -29.65 | 0.00 | -1,914.85 | 0.00 | 1,914.85 | 3,805.35 | 949.92 | 3,901.86 | 3,559.31 | 9.69 | -1.86 | 0.550 |
| 53.00 | -41.22 | -29.44 | 0.00 | -1,825.92 | 0.00 | 1,825.92 | 3,811.37 | 952.14 | 3,920.12 | 3,573.35 | 10.90 | -1.97 | 0.523 |
| 55.00 | -40.57 | -29.21 | 0.00 | -1,767.03 | 0.00 | 1,767.03 | 3,786.97 | 943.17 | 3,846.67 | 3,516.77 | 11.74 | -2.05 | 0.514 |
| 60.00 | -39.04 | -28.83 | 0.00 | -1,621.00 | 0.00 | 1,621.00 | 3,725.00 | 920.76 | 3,666.07 | 3,376.36 | 13.98 | -2.22 | 0.492 |
| 65.00 | -37.54 | -28.45 | 0.00 | -1,476.83 | 0.00 | 1,476.83 | 3,661.68 | 898.35 | 3,489.81 | 3,237.50 | 16.40 | -2.39 | 0.467 |
| 70.00 | -36.07 | -28.06 | 0.00 | -1,334.57 | 0.00 | 1,334.57 | 3,596.99 | 875.94 | 3,317.90 | 3,100.29 | 18.99 | -2.56 | 0.442 |
| 75.00 | -34.64 | -27.70 | 0.00 | -1,194.26 | 0.00 | 1,194.26 | 3,530.94 | 853.53 | 3,150.33 | 2,964.81 | 21.76 | -2.72 | 0.414 |
| 79.00 | -30.02 | -24.10 | 0.00 | -1,081.03 | 0.00 | 1,081.03 | 3,477.11 | 835.61 | 3,019.39 | 2,857.73 | 24.10 | -2.85 | 0.388 |
| 80.00 | -29.73 | -23.88 | 0.00 | -1,056.93 | 0.00 | 1,056.93 | 3,463.52 | 831.12 | 2,987.10 | 2,831.15 | 24.70 | -2.88 | 0.383 |
| 85.00 | -28.38 | -23.50 | 0.00 | -937.51 | 0.00 | 937.51 | 3,394.74 | 808.71 | 2,828.21 | 2,699.41 | 27.79 | -3.03 | 0.357 |
| 89.00 | -26.35 | -21.92 | 0.00 | -842.53 | 0.00 | 842.53 | 3,338.73 | 790.79 | 2,704.22 | 2,595.46 | 30.38 | -3.15 | 0.333 |
| 90.00 | -26.07 | -21.70 | 0.00 | -820.61 | 0.00 | 820.61 | 3,324.59 | 786.30 | 2,673.66 | 2,569.68 | 31.04 | -3.17 | 0.328 |
| 94.92 | -24.85 | -21.45 | 0.00 | -713.91 | 0.00 | 713.91 | 3,235.40 | 764.27 | 2,525.93 | 2,429.96 | 34.38 | -3.31 | 0.302 |
| 95.00 | -24.80 | -21.34 | 0.00 | -712.12 | 0.00 | 712.12 | 3,233.82 | 763.90 | 2,523.46 | 2,427.58 | 34.44 | -3.31 | 0.302 |
| 98.00 | -20.66 | -18.85 | 0.00 | -647.06 | 0.00 | 647.06 | 3,176.90 | 750.45 | 2,435.42 | 2,342.45 | 36.54 | -3.39 | 0.283 |
| 99.83 | -19.96 | -18.73 | 0.00 | -612.51 | 0.00 | 612.51 | 2,561.71 | 630.49 | 2,062.77 | 1,907.72 | 37.86 | -3.44 | 0.330 |
| 100.00 | -19.91 | -18.54 | 0.00 | -609.39 | 0.00 | 609.39 | 2,559.94 | 629.87 | 2,058.70 | 1,904.51 | 37.98 | -3.44 | 0.329 |
| 105.00 | -18.87 | -18.11 | 0.00 | -516.69 | 0.00 | 516.69 | 2,506.36 | 611.20 | 1,938.45 | 1,808.89 | 41.65 | -3.58 | 0.294 |
| 110.00 | -17.86 | -17.76 | 0.00 | -426.13 | 0.00 | 426.13 | 2,451.42 | 592.52 | 1,821.82 | 1,714.70 | 45.46 | -3.70 | 0.257 |
| 113.00 | -17.19 | -17.14 | 0.00 | -372.46 | 0.00 | 372.46 | 2,417.79 | 581.32 | 1,753.58 | 1,658.91 | 47.81 | -3.77 | 0.233 |
| 115.00 | -16.81 | -16.86 | 0.00 | -338.19 | 0.00 | 338.19 | 2,395.11 | 573.85 | 1,708.81 | 1,622.03 | 49.40 | -3.81 | 0.216 |
| 120.00 | -15.88 | -16.51 | 0.00 | -253.89 | 0.00 | 253.89 | 2,337.43 | 555.17 | 1,599.41 | 1,530.98 | 53.44 | -3.91 | 0.174 |
| 123.00 | -10.61 | -11.74 | 0.00 | -203.95 | 0.00 | 203.95 | 2,302.17 | 543.97 | 1,535.51 | 1,477.15 | 55.91 | -3.95 | 0.143 |
| 125.00 | -10.29 | -11.46 | 0.00 | -180.47 | 0.00 | 180.47 | 2,271.18 | 536.50 | 1,493.64 | 1,437.05 | 57.57 | -3.98 | 0.131 |
| 130.00 | -9.50 | -11.05 | 0.00 | -123.15 | 0.00 | 123.15 | 2,192.12 | 517.82 | 1,391.48 | 1,338.27 | 61.77 | -4.04 | 0.097 |
| 135.00 | -8.73 | -10.74 | 0.00 | -67.90 | 0.00 | 67.90 | 2,113.07 | 499.15 | 1,292.94 | 1,243.00 | 66.02 | -4.08 | 0.059 |
| 137.00 | -3.55 | -3.83 | 0.00 | -44.09 | 0.00 | 44.09 | 2,081.44 | 491.68 | 1,254.54 | 1,205.88 | 67.74 | -4.09 | 0.038 |
| 140.00 | -3.23 | -3.57 | 0.00 | -32.60 | 0.00 | 32.60 | 2,034.01 | 480.47 | 1,198.02 | 1,151.25 | 70.31 | -4.11 | 0.030 |
| 145.00 | -2.70 | -3.30 | 0.00 | -14.75 | 0.00 | 14.75 | 1,954.95 | 461.80 | 1,106.72 | 1,063.02 | 74.61 | -4.12 | 0.015 |
| 147.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,909.10 | 450.97 | 1,055.42 | 1,013.45 | 77.11 | -4.12 | 0.000 |
| 147.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,908.83 | 450.91 | 1,055.13 | 1,013.16 | 77.13 | -4.12 | 0.000 |

| | | |
|-------------------------------|----------------------------------|---------------|
| Load Case: 0.9D + 1.0W | 118 mph with No Ice (Reduced DL) | 23 Iterations |
| Gust Response Factor :1.10 | | |
| Dead Load Factor :0.90 | | |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|----------------|-----------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 194.6 | 0.0 | | | | | 0.0 | 0.0 | 194.6 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 415.8 | 1,014.6 | | | | | 0.0 | 0.0 | 415.8 | 1,014.6 | 0.0 | 0.0 |
| 10.00 | | 438.1 | 995.0 | | | | | 0.0 | 283.7 | 438.1 | 1,278.7 | 0.0 | 0.0 |
| 15.00 | | 429.4 | 975.5 | | | | | 0.0 | 283.7 | 429.4 | 1,259.1 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 420.8 | 955.9 | 23.7 | 0.0 | 0.0 | 3.6 | 0.0 | 283.7 | 444.5 | 1,243.2 | 0.0 | 0.0 |
| 25.00 | | 412.2 | 936.3 | | | | | 0.0 | 283.0 | 412.2 | 1,219.4 | 0.0 | 0.0 |
| 30.00 | | 408.3 | 916.8 | | | | | 0.0 | 283.0 | 408.3 | 1,199.8 | 0.0 | 0.0 |
| 35.00 | | 412.7 | 897.2 | | | | | 0.0 | 283.0 | 412.7 | 1,180.2 | 0.0 | 0.0 |
| 40.00 | | 419.5 | 877.7 | | | | | 0.0 | 283.0 | 419.5 | 1,160.7 | 0.0 | 0.0 |
| 45.00 | | 289.1 | 858.1 | | | | | 0.0 | 283.0 | 289.1 | 1,141.1 | 0.0 | 0.0 |
| 46.83 | Bot - Section 2 | 215.2 | 309.8 | | | | | 0.0 | 103.8 | 215.2 | 413.5 | 0.0 | 0.0 |
| 50.00 | | 267.8 | 1,066.3 | | | | | 0.0 | 179.2 | 267.8 | 1,245.6 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 217.7 | 995.7 | | | | | 0.0 | 169.8 | 217.7 | 1,165.5 | 0.0 | 0.0 |
| 55.00 | | 305.4 | 330.7 | | | | | 0.0 | 113.2 | 305.4 | 443.9 | 0.0 | 0.0 |
| 60.00 | | 436.4 | 813.1 | | | | | 0.0 | 283.0 | 436.4 | 1,096.2 | 0.0 | 0.0 |
| 65.00 | | 435.7 | 793.6 | | | | | 0.0 | 283.0 | 435.7 | 1,076.6 | 0.0 | 0.0 |
| 70.00 | | 434.0 | 774.0 | | | | | 0.0 | 283.0 | 434.0 | 1,057.0 | 0.0 | 0.0 |
| 75.00 | | 388.6 | 754.5 | | | | | 0.0 | 283.0 | 388.6 | 1,037.5 | 0.0 | 0.0 |
| 79.00 | Appurtenance(s) | 215.0 | 589.5 | 3,191.1 | 0.0 | 2,444.8 | 2,748.1 | 0.0 | 226.4 | 3,406.0 | 3,564.1 | 0.0 | 0.0 |
| 80.00 | | 255.9 | 145.4 | | | | | 0.0 | 54.3 | 255.9 | 199.7 | 0.0 | 0.0 |
| 85.00 | | 381.9 | 715.4 | | | | | 0.0 | 271.3 | 381.9 | 986.7 | 0.0 | 0.0 |
| 89.00 | Appurtenance(s) | 210.8 | 558.2 | 1,286.9 | 0.0 | 984.5 | 796.0 | 0.0 | 217.0 | 1,497.8 | 1,571.2 | 0.0 | 0.0 |
| 90.00 | | 246.8 | 137.6 | | | | | 0.0 | 53.6 | 246.8 | 191.2 | 0.0 | 0.0 |
| 94.92 | Bot - Section 3 | 208.3 | 665.2 | | | | | 0.0 | 247.3 | 208.3 | 912.5 | 0.0 | 0.0 |
| 95.00 | | 129.2 | 20.5 | | | | | 0.0 | 4.2 | 129.2 | 24.7 | 0.0 | 0.0 |
| 98.00 | Appurtenance(s) | 201.9 | 733.0 | 2,070.2 | 0.0 | 1,040.4 | 2,312.8 | 0.0 | 150.9 | 2,272.1 | 3,196.7 | 0.0 | 0.0 |
| 99.83 | Top - Section 2 | 83.2 | 441.6 | | | | | 0.0 | 84.3 | 83.2 | 525.9 | 0.0 | 0.0 |
| 100.00 | | 212.6 | 18.3 | | | | | 0.0 | 7.7 | 212.6 | 26.0 | 0.0 | 0.0 |
| 105.00 | | 408.1 | 541.4 | | | | | 0.0 | 230.0 | 408.1 | 771.4 | 0.0 | 0.0 |
| 110.00 | | 322.0 | 525.1 | | | | | 0.0 | 230.0 | 322.0 | 755.1 | 0.0 | 0.0 |
| 113.00 | Appurtenance(s) | 198.7 | 307.3 | 393.4 | 0.0 | 393.4 | 71.3 | 0.0 | 138.0 | 592.1 | 516.5 | 0.0 | 0.0 |
| 115.00 | | 273.8 | 201.6 | | | | | 0.0 | 83.1 | 273.8 | 284.7 | 0.0 | 0.0 |
| 120.00 | | 309.7 | 492.5 | | | | | 0.0 | 207.9 | 309.7 | 700.4 | 0.0 | 0.0 |
| 123.00 | Appurtenance(s) | 190.6 | 287.7 | 4,212.2 | 0.0 | 414.7 | 3,768.7 | 0.0 | 124.7 | 4,402.8 | 4,181.1 | 0.0 | 0.0 |
| 125.00 | | 262.1 | 188.5 | | | | | 0.0 | 58.8 | 262.1 | 247.3 | 0.0 | 0.0 |
| 130.00 | | 368.1 | 460.0 | | | | | 0.0 | 146.9 | 368.1 | 606.8 | 0.0 | 0.0 |
| 135.00 | | 253.2 | 443.7 | | | | | 0.0 | 146.9 | 253.2 | 590.5 | 0.0 | 0.0 |
| 137.00 | Appurtenance(s) | 162.5 | 172.9 | 6,364.2 | 0.0 | 2,322.7 | 4,010.3 | 0.0 | 58.8 | 6,526.7 | 4,242.0 | 0.0 | 0.0 |
| 140.00 | | 239.7 | 254.5 | | | | | 0.0 | 0.0 | 239.7 | 254.5 | 0.0 | 0.0 |
| 145.00 | | 232.7 | 411.1 | | | | | 0.0 | 0.0 | 232.7 | 411.1 | 0.0 | 0.0 |
| 147.90 | | 84.6 | 231.0 | | | | | 0.0 | 0.0 | 84.6 | 231.0 | 0.0 | 0.0 |
| 147.92 | | 0.5 | 1.3 | | | | | 0.0 | 0.0 | 0.5 | 1.3 | 0.0 | 0.0 |
| Totals: | | | | | | | | | | 29,534.7 | 43,225.0 | 0.00 | 0.00 |

Load Case: 0.9D + 1.0W

118 mph with No Ice (Reduced DL)

23 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -45.14 | -32.42 | 0.00 | -3,434.97 | 0.00 | 3,434.97 | 4,345.86 | 1,174.01 | 5,959.72 | 5,031.69 | 0.00 | 0.00 | 0.694 |
| 5.00 | -44.02 | -32.14 | 0.00 | -3,272.87 | 0.00 | 3,272.87 | 4,297.95 | 1,151.60 | 5,734.39 | 4,880.60 | 0.10 | -0.18 | 0.682 |
| 10.00 | -42.65 | -31.83 | 0.00 | -3,112.16 | 0.00 | 3,112.16 | 4,248.67 | 1,129.19 | 5,513.41 | 4,730.12 | 0.38 | -0.36 | 0.669 |
| 15.00 | -41.29 | -31.53 | 0.00 | -2,952.99 | 0.00 | 2,952.99 | 4,198.03 | 1,106.78 | 5,296.77 | 4,580.35 | 0.85 | -0.54 | 0.655 |
| 20.00 | -39.95 | -31.20 | 0.00 | -2,795.37 | 0.00 | 2,795.37 | 4,146.02 | 1,084.37 | 5,084.47 | 4,431.37 | 1.52 | -0.72 | 0.641 |
| 25.00 | -38.64 | -30.89 | 0.00 | -2,639.40 | 0.00 | 2,639.40 | 4,092.65 | 1,061.96 | 4,876.51 | 4,283.28 | 2.38 | -0.91 | 0.626 |
| 30.00 | -37.35 | -30.58 | 0.00 | -2,484.95 | 0.00 | 2,484.95 | 4,037.92 | 1,039.55 | 4,672.90 | 4,136.16 | 3.43 | -1.09 | 0.611 |
| 35.00 | -36.08 | -30.26 | 0.00 | -2,332.05 | 0.00 | 2,332.05 | 3,981.82 | 1,017.14 | 4,473.63 | 3,990.12 | 4.67 | -1.28 | 0.594 |
| 40.00 | -34.83 | -29.93 | 0.00 | -2,180.75 | 0.00 | 2,180.75 | 3,924.36 | 994.73 | 4,278.70 | 3,845.24 | 6.10 | -1.46 | 0.577 |
| 45.00 | -33.64 | -29.68 | 0.00 | -2,031.12 | 0.00 | 2,031.12 | 3,865.53 | 972.33 | 4,088.11 | 3,701.60 | 7.73 | -1.65 | 0.558 |
| 46.83 | -33.18 | -29.51 | 0.00 | -1,976.71 | 0.00 | 1,976.71 | 3,843.62 | 964.11 | 4,019.31 | 3,649.27 | 8.38 | -1.71 | 0.551 |
| 50.00 | -31.89 | -29.26 | 0.00 | -1,883.27 | 0.00 | 1,883.27 | 3,805.35 | 949.92 | 3,901.86 | 3,559.31 | 9.56 | -1.83 | 0.538 |
| 53.00 | -30.68 | -29.06 | 0.00 | -1,795.48 | 0.00 | 1,795.48 | 3,811.37 | 952.14 | 3,920.12 | 3,573.35 | 10.74 | -1.94 | 0.511 |
| 55.00 | -30.19 | -28.80 | 0.00 | -1,737.37 | 0.00 | 1,737.37 | 3,786.97 | 943.17 | 3,846.67 | 3,516.77 | 11.58 | -2.02 | 0.503 |
| 60.00 | -29.02 | -28.41 | 0.00 | -1,593.35 | 0.00 | 1,593.35 | 3,725.00 | 920.76 | 3,666.07 | 3,376.36 | 13.78 | -2.19 | 0.481 |
| 65.00 | -27.88 | -28.02 | 0.00 | -1,451.29 | 0.00 | 1,451.29 | 3,661.68 | 898.35 | 3,489.81 | 3,237.50 | 16.16 | -2.36 | 0.457 |
| 70.00 | -26.77 | -27.61 | 0.00 | -1,311.22 | 0.00 | 1,311.22 | 3,596.99 | 875.94 | 3,317.90 | 3,100.29 | 18.72 | -2.52 | 0.431 |
| 75.00 | -25.68 | -27.24 | 0.00 | -1,173.16 | 0.00 | 1,173.16 | 3,530.94 | 853.53 | 3,150.33 | 2,964.81 | 21.45 | -2.68 | 0.404 |
| 79.00 | -22.25 | -23.70 | 0.00 | -1,061.76 | 0.00 | 1,061.76 | 3,477.11 | 835.61 | 3,019.39 | 2,857.73 | 23.74 | -2.80 | 0.379 |
| 80.00 | -22.03 | -23.47 | 0.00 | -1,038.06 | 0.00 | 1,038.06 | 3,463.52 | 831.12 | 2,987.10 | 2,831.15 | 24.34 | -2.84 | 0.374 |
| 85.00 | -21.01 | -23.08 | 0.00 | -920.73 | 0.00 | 920.73 | 3,394.74 | 808.71 | 2,828.21 | 2,699.41 | 27.38 | -2.98 | 0.348 |
| 89.00 | -19.50 | -21.53 | 0.00 | -827.41 | 0.00 | 827.41 | 3,338.73 | 790.79 | 2,704.22 | 2,595.46 | 29.93 | -3.10 | 0.325 |
| 90.00 | -19.29 | -21.30 | 0.00 | -805.88 | 0.00 | 805.88 | 3,324.59 | 786.30 | 2,673.66 | 2,569.68 | 30.58 | -3.12 | 0.320 |
| 94.92 | -18.36 | -21.06 | 0.00 | -701.17 | 0.00 | 701.17 | 3,235.40 | 764.27 | 2,525.93 | 2,429.96 | 33.87 | -3.26 | 0.295 |
| 95.00 | -18.33 | -20.94 | 0.00 | -699.41 | 0.00 | 699.41 | 3,233.82 | 763.90 | 2,523.46 | 2,427.58 | 33.93 | -3.26 | 0.295 |
| 98.00 | -15.25 | -18.51 | 0.00 | -635.54 | 0.00 | 635.54 | 3,176.90 | 750.45 | 2,435.42 | 2,342.45 | 36.00 | -3.34 | 0.277 |
| 99.83 | -14.72 | -18.40 | 0.00 | -601.61 | 0.00 | 601.61 | 2,561.71 | 630.49 | 2,062.77 | 1,907.72 | 37.29 | -3.38 | 0.322 |
| 100.00 | -14.69 | -18.20 | 0.00 | -598.54 | 0.00 | 598.54 | 2,559.94 | 629.87 | 2,058.70 | 1,904.51 | 37.41 | -3.39 | 0.321 |
| 105.00 | -13.90 | -17.78 | 0.00 | -507.52 | 0.00 | 507.52 | 2,506.36 | 611.20 | 1,938.45 | 1,808.89 | 41.02 | -3.52 | 0.287 |
| 110.00 | -13.14 | -17.43 | 0.00 | -418.62 | 0.00 | 418.62 | 2,451.42 | 592.52 | 1,821.82 | 1,714.70 | 44.77 | -3.64 | 0.250 |
| 113.00 | -12.65 | -16.82 | 0.00 | -365.92 | 0.00 | 365.92 | 2,417.79 | 581.32 | 1,753.58 | 1,658.91 | 47.08 | -3.71 | 0.227 |
| 115.00 | -12.36 | -16.55 | 0.00 | -332.28 | 0.00 | 332.28 | 2,395.11 | 573.85 | 1,708.81 | 1,622.03 | 48.65 | -3.75 | 0.211 |
| 120.00 | -11.66 | -16.20 | 0.00 | -249.55 | 0.00 | 249.55 | 2,337.43 | 555.17 | 1,599.41 | 1,530.98 | 52.62 | -3.84 | 0.169 |
| 123.00 | -7.78 | -11.53 | 0.00 | -200.52 | 0.00 | 200.52 | 2,302.17 | 543.97 | 1,535.51 | 1,477.15 | 55.05 | -3.89 | 0.140 |
| 125.00 | -7.54 | -11.26 | 0.00 | -177.46 | 0.00 | 177.46 | 2,271.18 | 536.50 | 1,493.64 | 1,437.05 | 56.69 | -3.92 | 0.127 |
| 130.00 | -6.96 | -10.86 | 0.00 | -121.15 | 0.00 | 121.15 | 2,192.12 | 517.82 | 1,391.48 | 1,338.27 | 60.82 | -3.98 | 0.094 |
| 135.00 | -6.38 | -10.57 | 0.00 | -66.85 | 0.00 | 66.85 | 2,113.07 | 499.15 | 1,292.94 | 1,243.00 | 65.01 | -4.02 | 0.057 |
| 137.00 | -2.61 | -3.76 | 0.00 | -43.39 | 0.00 | 43.39 | 2,081.44 | 491.68 | 1,254.54 | 1,205.88 | 66.69 | -4.03 | 0.037 |
| 140.00 | -2.37 | -3.50 | 0.00 | -32.11 | 0.00 | 32.11 | 2,034.01 | 480.47 | 1,198.02 | 1,151.25 | 69.22 | -4.04 | 0.029 |
| 145.00 | -1.97 | -3.24 | 0.00 | -14.60 | 0.00 | 14.60 | 1,954.95 | 461.80 | 1,106.72 | 1,063.02 | 73.46 | -4.05 | 0.015 |
| 147.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,909.10 | 450.97 | 1,055.42 | 1,013.45 | 75.92 | -4.06 | 0.000 |
| 147.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,908.83 | 450.91 | 1,055.13 | 1,013.16 | 75.93 | -4.06 | 0.000 |

| | | |
|--|--------------------------------|-----------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 50 mph with 1.50 in Radial Ice | 23 Iterations |
| Gust Response Factor :1.10 | Ice Dead Load Factor :1.00 | |
| Dead Load Factor :1.20 | | Ice Importance Factor :1.00 |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|----------------|-----------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 63.5 | 0.0 | | | | | 0.0 | 0.0 | 63.5 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 131.8 | 1,764.1 | | | | | 0.0 | 0.0 | 131.8 | 1,764.1 | 0.0 | 0.0 |
| 10.00 | | 135.5 | 1,778.2 | | | | | 0.0 | 567.0 | 135.5 | 2,345.2 | 0.0 | 0.0 |
| 15.00 | | 133.2 | 1,767.2 | | | | | 0.0 | 576.4 | 133.2 | 2,343.6 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 130.9 | 1,748.1 | 8.1 | 0.0 | 0.0 | 21.5 | 0.0 | 582.9 | 138.9 | 2,352.5 | 0.0 | 0.0 |
| 25.00 | | 128.5 | 1,724.7 | | | | | 0.0 | 581.1 | 128.5 | 2,305.8 | 0.0 | 0.0 |
| 30.00 | | 127.5 | 1,698.6 | | | | | 0.0 | 585.1 | 127.5 | 2,283.7 | 0.0 | 0.0 |
| 35.00 | | 129.2 | 1,670.7 | | | | | 0.0 | 588.6 | 129.2 | 2,259.3 | 0.0 | 0.0 |
| 40.00 | | 131.6 | 1,641.5 | | | | | 0.0 | 591.5 | 131.6 | 2,233.0 | 0.0 | 0.0 |
| 45.00 | | 90.8 | 1,611.2 | | | | | 0.0 | 594.2 | 90.8 | 2,205.4 | 0.0 | 0.0 |
| 46.83 | Bot - Section 2 | 67.7 | 584.2 | | | | | 0.0 | 218.5 | 67.7 | 802.7 | 0.0 | 0.0 |
| 50.00 | | 84.3 | 1,719.5 | | | | | 0.0 | 378.1 | 84.3 | 2,097.6 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 68.6 | 1,607.7 | | | | | 0.0 | 359.0 | 68.6 | 1,966.8 | 0.0 | 0.0 |
| 55.00 | | 96.3 | 626.9 | | | | | 0.0 | 239.8 | 96.3 | 866.7 | 0.0 | 0.0 |
| 60.00 | | 137.9 | 1,541.5 | | | | | 0.0 | 600.8 | 137.9 | 2,142.3 | 0.0 | 0.0 |
| 65.00 | | 138.0 | 1,508.6 | | | | | 0.0 | 602.7 | 138.0 | 2,111.3 | 0.0 | 0.0 |
| 70.00 | | 137.7 | 1,475.3 | | | | | 0.0 | 604.4 | 137.7 | 2,079.7 | 0.0 | 0.0 |
| 75.00 | | 123.6 | 1,441.6 | | | | | 0.0 | 606.1 | 123.6 | 2,047.7 | 0.0 | 0.0 |
| 79.00 | Appurtenance(s) | 68.5 | 1,129.7 | 831.7 | 0.0 | 586.5 | 6,664.7 | 0.0 | 486.0 | 900.1 | 8,280.3 | 0.0 | 0.0 |
| 80.00 | | 81.7 | 279.7 | | | | | 0.0 | 109.3 | 81.7 | 389.0 | 0.0 | 0.0 |
| 85.00 | | 122.1 | 1,373.2 | | | | | 0.0 | 547.4 | 122.1 | 1,920.6 | 0.0 | 0.0 |
| 89.00 | Appurtenance(s) | 67.5 | 1,074.6 | 326.2 | 0.0 | 228.8 | 2,122.3 | 0.0 | 438.7 | 393.7 | 3,635.6 | 0.0 | 0.0 |
| 90.00 | | 79.2 | 265.8 | | | | | 0.0 | 102.8 | 79.2 | 368.7 | 0.0 | 0.0 |
| 94.92 | Bot - Section 3 | 66.8 | 1,282.4 | | | | | 0.0 | 468.5 | 66.8 | 1,750.9 | 0.0 | 0.0 |
| 95.00 | | 41.5 | 34.2 | | | | | 0.0 | 7.9 | 41.5 | 42.2 | 0.0 | 0.0 |
| 98.00 | Appurtenance(s) | 64.9 | 1,219.5 | 577.3 | 0.0 | 258.5 | 4,896.5 | 0.0 | 286.2 | 642.2 | 6,402.2 | 0.0 | 0.0 |
| 99.83 | Top - Section 2 | 26.8 | 735.6 | | | | | 0.0 | 164.5 | 26.8 | 900.1 | 0.0 | 0.0 |
| 100.00 | | 68.5 | 37.8 | | | | | 0.0 | 15.0 | 68.5 | 52.7 | 0.0 | 0.0 |
| 105.00 | | 131.7 | 1,112.3 | | | | | 0.0 | 449.1 | 131.7 | 1,561.4 | 0.0 | 0.0 |
| 110.00 | | 104.2 | 1,081.1 | | | | | 0.0 | 449.7 | 104.2 | 1,530.9 | 0.0 | 0.0 |
| 113.00 | Appurtenance(s) | 64.4 | 635.0 | 102.8 | 0.0 | 102.8 | 322.4 | 0.0 | 270.1 | 167.2 | 1,227.5 | 0.0 | 0.0 |
| 115.00 | | 89.0 | 417.5 | | | | | 0.0 | 168.4 | 89.0 | 585.9 | 0.0 | 0.0 |
| 120.00 | | 100.9 | 1,018.4 | | | | | 0.0 | 421.4 | 100.9 | 1,439.7 | 0.0 | 0.0 |
| 123.00 | Appurtenance(s) | 62.3 | 597.2 | 1,027.7 | 0.0 | 103.2 | 8,911.5 | 0.0 | 253.1 | 1,089.9 | 9,761.8 | 0.0 | 0.0 |
| 125.00 | | 85.8 | 392.3 | | | | | 0.0 | 78.3 | 85.8 | 470.6 | 0.0 | 0.0 |
| 130.00 | | 120.9 | 954.9 | | | | | 0.0 | 195.8 | 120.9 | 1,150.8 | 0.0 | 0.0 |
| 135.00 | | 83.4 | 923.0 | | | | | 0.0 | 195.8 | 83.4 | 1,118.8 | 0.0 | 0.0 |
| 137.00 | Appurtenance(s) | 55.6 | 361.6 | 1,560.1 | 0.0 | 566.1 | 10,602.7 | 0.0 | 78.3 | 1,615.7 | 11,042.6 | 0.0 | 0.0 |
| 140.00 | | 84.4 | 532.1 | | | | | 0.0 | 0.0 | 84.4 | 532.1 | 0.0 | 0.0 |
| 145.00 | | 82.2 | 858.8 | | | | | 0.0 | 0.0 | 82.2 | 858.8 | 0.0 | 0.0 |
| 147.90 | | 30.0 | 484.7 | | | | | 0.0 | 0.0 | 30.0 | 484.7 | 0.0 | 0.0 |
| 147.92 | | 0.2 | 2.8 | | | | | 0.0 | 0.0 | 0.2 | 2.8 | 0.0 | 0.0 |
| Totals: | | | | | | | | | 8,272.48 | 89,718.2 | 0.00 | 0.00 | |

Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:32:06 PM

Customer: T-MOBILE

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.50 in Radial Ice

23 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -95.24 | -8.98 | 0.00 | -968.90 | 0.00 | 968.90 | 4,345.86 | 1,174.01 | 5,959.72 | 5,031.69 | 0.00 | 0.00 | 0.215 |
| 5.00 | -93.47 | -8.93 | 0.00 | -923.99 | 0.00 | 923.99 | 4,297.95 | 1,151.60 | 5,734.39 | 4,880.60 | 0.03 | -0.05 | 0.211 |
| 10.00 | -91.11 | -8.88 | 0.00 | -879.32 | 0.00 | 879.32 | 4,248.67 | 1,129.19 | 5,513.41 | 4,730.12 | 0.11 | -0.10 | 0.207 |
| 15.00 | -88.76 | -8.82 | 0.00 | -834.94 | 0.00 | 834.94 | 4,198.03 | 1,106.78 | 5,296.77 | 4,580.35 | 0.24 | -0.15 | 0.203 |
| 20.00 | -86.40 | -8.75 | 0.00 | -790.85 | 0.00 | 790.85 | 4,146.02 | 1,084.37 | 5,084.47 | 4,431.37 | 0.43 | -0.20 | 0.199 |
| 25.00 | -84.09 | -8.69 | 0.00 | -747.11 | 0.00 | 747.11 | 4,092.65 | 1,061.96 | 4,876.51 | 4,283.28 | 0.67 | -0.26 | 0.195 |
| 30.00 | -81.80 | -8.62 | 0.00 | -703.67 | 0.00 | 703.67 | 4,037.92 | 1,039.55 | 4,672.90 | 4,136.16 | 0.97 | -0.31 | 0.190 |
| 35.00 | -79.53 | -8.55 | 0.00 | -660.55 | 0.00 | 660.55 | 3,981.82 | 1,017.14 | 4,473.63 | 3,990.12 | 1.32 | -0.36 | 0.186 |
| 40.00 | -77.29 | -8.48 | 0.00 | -617.78 | 0.00 | 617.78 | 3,924.36 | 994.73 | 4,278.70 | 3,845.24 | 1.73 | -0.41 | 0.180 |
| 45.00 | -75.08 | -8.42 | 0.00 | -575.38 | 0.00 | 575.38 | 3,865.53 | 972.33 | 4,088.11 | 3,701.60 | 2.19 | -0.47 | 0.175 |
| 46.83 | -74.28 | -8.38 | 0.00 | -559.95 | 0.00 | 559.95 | 3,843.62 | 964.11 | 4,019.31 | 3,649.27 | 2.37 | -0.49 | 0.173 |
| 50.00 | -72.17 | -8.32 | 0.00 | -533.42 | 0.00 | 533.42 | 3,805.35 | 949.92 | 3,901.86 | 3,559.31 | 2.70 | -0.52 | 0.169 |
| 53.00 | -70.20 | -8.26 | 0.00 | -508.48 | 0.00 | 508.48 | 3,811.37 | 952.14 | 3,920.12 | 3,573.35 | 3.04 | -0.55 | 0.161 |
| 55.00 | -69.33 | -8.20 | 0.00 | -491.96 | 0.00 | 491.96 | 3,786.97 | 943.17 | 3,846.67 | 3,516.77 | 3.27 | -0.57 | 0.158 |
| 60.00 | -67.19 | -8.09 | 0.00 | -450.97 | 0.00 | 450.97 | 3,725.00 | 920.76 | 3,666.07 | 3,376.36 | 3.90 | -0.62 | 0.152 |
| 65.00 | -65.07 | -7.99 | 0.00 | -410.50 | 0.00 | 410.50 | 3,661.68 | 898.35 | 3,489.81 | 3,237.50 | 4.57 | -0.67 | 0.145 |
| 70.00 | -62.99 | -7.87 | 0.00 | -370.57 | 0.00 | 370.57 | 3,596.99 | 875.94 | 3,317.90 | 3,100.29 | 5.30 | -0.71 | 0.137 |
| 75.00 | -60.93 | -7.77 | 0.00 | -331.20 | 0.00 | 331.20 | 3,530.94 | 853.53 | 3,150.33 | 2,964.81 | 6.07 | -0.76 | 0.129 |
| 79.00 | -52.66 | -6.77 | 0.00 | -299.55 | 0.00 | 299.55 | 3,477.11 | 835.61 | 3,019.39 | 2,857.73 | 6.72 | -0.79 | 0.120 |
| 80.00 | -52.27 | -6.71 | 0.00 | -292.78 | 0.00 | 292.78 | 3,463.52 | 831.12 | 2,987.10 | 2,831.15 | 6.88 | -0.80 | 0.119 |
| 85.00 | -50.35 | -6.59 | 0.00 | -259.23 | 0.00 | 259.23 | 3,394.74 | 808.71 | 2,828.21 | 2,699.41 | 7.75 | -0.84 | 0.111 |
| 89.00 | -46.72 | -6.16 | 0.00 | -232.63 | 0.00 | 232.63 | 3,338.73 | 790.79 | 2,704.22 | 2,595.46 | 8.47 | -0.88 | 0.104 |
| 90.00 | -46.35 | -6.09 | 0.00 | -226.47 | 0.00 | 226.47 | 3,324.59 | 786.30 | 2,673.66 | 2,569.68 | 8.65 | -0.88 | 0.102 |
| 94.92 | -44.60 | -6.01 | 0.00 | -196.51 | 0.00 | 196.51 | 3,235.40 | 764.27 | 2,525.93 | 2,429.96 | 9.58 | -0.92 | 0.095 |
| 95.00 | -44.56 | -5.98 | 0.00 | -196.00 | 0.00 | 196.00 | 3,233.82 | 763.90 | 2,523.46 | 2,427.58 | 9.60 | -0.92 | 0.095 |
| 98.00 | -38.16 | -5.25 | 0.00 | -177.80 | 0.00 | 177.80 | 3,176.90 | 750.45 | 2,435.42 | 2,342.45 | 10.18 | -0.94 | 0.088 |
| 99.83 | -37.26 | -5.21 | 0.00 | -168.19 | 0.00 | 168.19 | 2,561.71 | 630.49 | 2,062.77 | 1,907.72 | 10.55 | -0.96 | 0.103 |
| 100.00 | -37.21 | -5.15 | 0.00 | -167.32 | 0.00 | 167.32 | 2,559.94 | 629.87 | 2,058.70 | 1,904.51 | 10.58 | -0.96 | 0.102 |
| 105.00 | -35.65 | -5.02 | 0.00 | -141.56 | 0.00 | 141.56 | 2,506.36 | 611.20 | 1,938.45 | 1,808.89 | 11.60 | -0.99 | 0.093 |
| 110.00 | -34.12 | -4.90 | 0.00 | -116.48 | 0.00 | 116.48 | 2,451.42 | 592.52 | 1,821.82 | 1,714.70 | 12.66 | -1.03 | 0.082 |
| 113.00 | -32.89 | -4.72 | 0.00 | -101.68 | 0.00 | 101.68 | 2,417.79 | 581.32 | 1,753.58 | 1,658.91 | 13.32 | -1.05 | 0.075 |
| 115.00 | -32.31 | -4.63 | 0.00 | -92.24 | 0.00 | 92.24 | 2,395.11 | 573.85 | 1,708.81 | 1,622.03 | 13.76 | -1.06 | 0.070 |
| 120.00 | -30.87 | -4.51 | 0.00 | -69.09 | 0.00 | 69.09 | 2,337.43 | 555.17 | 1,599.41 | 1,530.98 | 14.88 | -1.08 | 0.058 |
| 123.00 | -21.13 | -3.24 | 0.00 | -55.45 | 0.00 | 55.45 | 2,302.17 | 543.97 | 1,535.51 | 1,477.15 | 15.57 | -1.10 | 0.047 |
| 125.00 | -20.66 | -3.15 | 0.00 | -48.97 | 0.00 | 48.97 | 2,271.18 | 536.50 | 1,493.64 | 1,437.05 | 16.03 | -1.10 | 0.043 |
| 130.00 | -19.51 | -3.01 | 0.00 | -33.21 | 0.00 | 33.21 | 2,192.12 | 517.82 | 1,391.48 | 1,338.27 | 17.19 | -1.12 | 0.034 |
| 135.00 | -18.39 | -2.91 | 0.00 | -18.15 | 0.00 | 18.15 | 2,113.07 | 499.15 | 1,292.94 | 1,243.00 | 18.37 | -1.13 | 0.023 |
| 137.00 | -7.38 | -1.08 | 0.00 | -11.77 | 0.00 | 11.77 | 2,081.44 | 491.68 | 1,254.54 | 1,205.88 | 18.85 | -1.13 | 0.013 |
| 140.00 | -6.85 | -0.98 | 0.00 | -8.54 | 0.00 | 8.54 | 2,034.01 | 480.47 | 1,198.02 | 1,151.25 | 19.56 | -1.14 | 0.011 |
| 145.00 | -5.99 | -0.88 | 0.00 | -3.64 | 0.00 | 3.64 | 1,954.95 | 461.80 | 1,106.72 | 1,063.02 | 20.76 | -1.14 | 0.006 |
| 147.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,909.10 | 450.97 | 1,055.42 | 1,013.45 | 21.45 | -1.14 | 0.000 |
| 147.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,908.83 | 450.91 | 1,055.13 | 1,013.16 | 21.45 | -1.14 | 0.000 |

| | | |
|-------------------------------|------------------------------|----------------------|
| Load Case: 1.0D + 1.0W | Serviceability 60 mph | 22 Iterations |
| Gust Response Factor :1.10 | | |
| Dead Load Factor :1.00 | | |
| Wind Load Factor :1.00 | | |

Applied Segment Forces Summary

| Seg Elev (ft) | Description | Shaft Forces | | Discrete Forces | | | Linear Forces | | Sum of Forces | | | | |
|---------------|-----------------|--------------|----------------|-----------------|--------------------|-------------------|----------------|--------------|----------------|--------------|----------------|--------------------|----------------|
| | | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Wind FX (lb) | Dead Load (lb) | Torsion MY (lb-ft) | Moment MZ (lb) |
| 0.00 | | 45.0 | 0.0 | | | | | 0.0 | 0.0 | 45.0 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 96.2 | 1,127.3 | | | | | 0.0 | 0.0 | 96.2 | 1,127.3 | 0.0 | 0.0 |
| 10.00 | | 101.3 | 1,105.6 | | | | | 0.0 | 315.2 | 101.3 | 1,420.8 | 0.0 | 0.0 |
| 15.00 | | 99.3 | 1,083.8 | | | | | 0.0 | 315.2 | 99.3 | 1,399.0 | 0.0 | 0.0 |
| 20.00 | Appurtenance(s) | 97.3 | 1,062.1 | 5.5 | 0.0 | 0.0 | 4.0 | 0.0 | 315.2 | 102.8 | 1,381.3 | 0.0 | 0.0 |
| 25.00 | | 95.3 | 1,040.4 | | | | | 0.0 | 314.4 | 95.3 | 1,354.8 | 0.0 | 0.0 |
| 30.00 | | 94.5 | 1,018.7 | | | | | 0.0 | 314.4 | 94.5 | 1,333.1 | 0.0 | 0.0 |
| 35.00 | | 95.5 | 996.9 | | | | | 0.0 | 314.4 | 95.5 | 1,311.4 | 0.0 | 0.0 |
| 40.00 | | 97.0 | 975.2 | | | | | 0.0 | 314.4 | 97.0 | 1,289.7 | 0.0 | 0.0 |
| 45.00 | | 66.9 | 953.5 | | | | | 0.0 | 314.4 | 66.9 | 1,267.9 | 0.0 | 0.0 |
| 46.83 | Bot - Section 2 | 49.8 | 344.2 | | | | | 0.0 | 115.3 | 49.8 | 459.5 | 0.0 | 0.0 |
| 50.00 | | 61.9 | 1,184.8 | | | | | 0.0 | 199.2 | 61.9 | 1,384.0 | 0.0 | 0.0 |
| 53.00 | Top - Section 1 | 50.4 | 1,106.4 | | | | | 0.0 | 188.7 | 50.4 | 1,295.0 | 0.0 | 0.0 |
| 55.00 | | 70.6 | 367.5 | | | | | 0.0 | 125.8 | 70.6 | 493.3 | 0.0 | 0.0 |
| 60.00 | | 100.9 | 903.5 | | | | | 0.0 | 314.4 | 100.9 | 1,217.9 | 0.0 | 0.0 |
| 65.00 | | 100.8 | 881.8 | | | | | 0.0 | 314.4 | 100.8 | 1,196.2 | 0.0 | 0.0 |
| 70.00 | | 100.4 | 860.0 | | | | | 0.0 | 314.4 | 100.4 | 1,174.5 | 0.0 | 0.0 |
| 75.00 | | 89.9 | 838.3 | | | | | 0.0 | 314.4 | 89.9 | 1,152.8 | 0.0 | 0.0 |
| 79.00 | Appurtenance(s) | 49.7 | 655.0 | 738.2 | 0.0 | 565.6 | 3,053.5 | 0.0 | 251.6 | 787.9 | 3,960.1 | 0.0 | 0.0 |
| 80.00 | | 59.2 | 161.6 | | | | | 0.0 | 60.3 | 59.2 | 221.9 | 0.0 | 0.0 |
| 85.00 | | 88.4 | 794.9 | | | | | 0.0 | 301.4 | 88.4 | 1,096.3 | 0.0 | 0.0 |
| 89.00 | Appurtenance(s) | 48.8 | 620.3 | 297.7 | 0.0 | 227.7 | 884.4 | 0.0 | 241.2 | 346.5 | 1,745.8 | 0.0 | 0.0 |
| 90.00 | | 57.1 | 152.9 | | | | | 0.0 | 59.5 | 57.1 | 212.4 | 0.0 | 0.0 |
| 94.92 | Bot - Section 3 | 48.2 | 739.1 | | | | | 0.0 | 274.8 | 48.2 | 1,013.9 | 0.0 | 0.0 |
| 95.00 | | 29.9 | 22.8 | | | | | 0.0 | 4.7 | 29.9 | 27.5 | 0.0 | 0.0 |
| 98.00 | Appurtenance(s) | 46.7 | 814.4 | 478.9 | 0.0 | 240.7 | 2,569.8 | 0.0 | 167.7 | 525.6 | 3,551.9 | 0.0 | 0.0 |
| 99.83 | Top - Section 2 | 19.2 | 490.6 | | | | | 0.0 | 93.7 | 19.2 | 584.3 | 0.0 | 0.0 |
| 100.00 | | 49.2 | 20.4 | | | | | 0.0 | 8.5 | 49.2 | 28.9 | 0.0 | 0.0 |
| 105.00 | | 94.4 | 601.6 | | | | | 0.0 | 255.5 | 94.4 | 857.1 | 0.0 | 0.0 |
| 110.00 | | 74.5 | 583.5 | | | | | 0.0 | 255.5 | 74.5 | 839.0 | 0.0 | 0.0 |
| 113.00 | Appurtenance(s) | 46.0 | 341.4 | 91.0 | 0.0 | 91.0 | 79.2 | 0.0 | 153.3 | 137.0 | 573.9 | 0.0 | 0.0 |
| 115.00 | | 63.3 | 224.0 | | | | | 0.0 | 92.4 | 63.3 | 316.4 | 0.0 | 0.0 |
| 120.00 | | 71.6 | 547.3 | | | | | 0.0 | 230.9 | 71.6 | 778.2 | 0.0 | 0.0 |
| 123.00 | Appurtenance(s) | 44.1 | 319.7 | 974.4 | 0.0 | 95.9 | 4,187.4 | 0.0 | 138.6 | 1,018.5 | 4,645.6 | 0.0 | 0.0 |
| 125.00 | | 60.6 | 209.5 | | | | | 0.0 | 65.3 | 60.6 | 274.8 | 0.0 | 0.0 |
| 130.00 | | 85.1 | 511.1 | | | | | 0.0 | 163.2 | 85.1 | 674.3 | 0.0 | 0.0 |
| 135.00 | | 58.6 | 493.0 | | | | | 0.0 | 163.2 | 58.6 | 656.2 | 0.0 | 0.0 |
| 137.00 | Appurtenance(s) | 37.6 | 192.1 | 1,472.2 | 0.0 | 537.3 | 4,455.9 | 0.0 | 65.3 | 1,509.8 | 4,713.3 | 0.0 | 0.0 |
| 140.00 | | 55.4 | 282.7 | | | | | 0.0 | 0.0 | 55.4 | 282.7 | 0.0 | 0.0 |
| 145.00 | | 53.8 | 456.7 | | | | | 0.0 | 0.0 | 53.8 | 456.7 | 0.0 | 0.0 |
| 147.90 | | 19.6 | 256.6 | | | | | 0.0 | 0.0 | 19.6 | 256.6 | 0.0 | 0.0 |
| 147.92 | | 0.1 | 1.5 | | | | | 0.0 | 0.0 | 0.1 | 1.5 | 0.0 | 0.0 |
| | | | | | | | | Totals: | | 6,832.29 | 48,027.8 | 0.00 | 0.00 |

Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:32:09 PM

Customer: T-MOBILE

Load Case: 1.0D + 1.0W

Serviceability 60 mph

22 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -50.21 | -7.50 | 0.00 | -798.41 | 0.00 | 798.41 | 4,345.86 | 1,174.01 | 5,959.72 | 5,031.69 | 0.00 | 0.00 | 0.170 |
| 5.00 | -49.08 | -7.44 | 0.00 | -760.91 | 0.00 | 760.91 | 4,297.95 | 1,151.60 | 5,734.39 | 4,880.60 | 0.02 | -0.04 | 0.167 |
| 10.00 | -47.65 | -7.37 | 0.00 | -723.71 | 0.00 | 723.71 | 4,248.67 | 1,129.19 | 5,513.41 | 4,730.12 | 0.09 | -0.08 | 0.164 |
| 15.00 | -46.25 | -7.31 | 0.00 | -686.84 | 0.00 | 686.84 | 4,198.03 | 1,106.78 | 5,296.77 | 4,580.35 | 0.20 | -0.13 | 0.161 |
| 20.00 | -44.86 | -7.23 | 0.00 | -650.32 | 0.00 | 650.32 | 4,146.02 | 1,084.37 | 5,084.47 | 4,431.37 | 0.35 | -0.17 | 0.158 |
| 25.00 | -43.50 | -7.16 | 0.00 | -614.16 | 0.00 | 614.16 | 4,092.65 | 1,061.96 | 4,876.51 | 4,283.28 | 0.55 | -0.21 | 0.154 |
| 30.00 | -42.16 | -7.10 | 0.00 | -578.34 | 0.00 | 578.34 | 4,037.92 | 1,039.55 | 4,672.90 | 4,136.16 | 0.80 | -0.25 | 0.150 |
| 35.00 | -40.85 | -7.03 | 0.00 | -542.86 | 0.00 | 542.86 | 3,981.82 | 1,017.14 | 4,473.63 | 3,990.12 | 1.09 | -0.30 | 0.146 |
| 40.00 | -39.55 | -6.95 | 0.00 | -507.73 | 0.00 | 507.73 | 3,924.36 | 994.73 | 4,278.70 | 3,845.24 | 1.42 | -0.34 | 0.142 |
| 45.00 | -38.28 | -6.90 | 0.00 | -472.98 | 0.00 | 472.98 | 3,865.53 | 972.33 | 4,088.11 | 3,701.60 | 1.80 | -0.38 | 0.138 |
| 46.83 | -37.82 | -6.86 | 0.00 | -460.34 | 0.00 | 460.34 | 3,843.62 | 964.11 | 4,019.31 | 3,649.27 | 1.95 | -0.40 | 0.136 |
| 50.00 | -36.43 | -6.80 | 0.00 | -438.62 | 0.00 | 438.62 | 3,805.35 | 949.92 | 3,901.86 | 3,559.31 | 2.22 | -0.43 | 0.133 |
| 53.00 | -35.13 | -6.75 | 0.00 | -418.22 | 0.00 | 418.22 | 3,811.37 | 952.14 | 3,920.12 | 3,573.35 | 2.50 | -0.45 | 0.126 |
| 55.00 | -34.64 | -6.70 | 0.00 | -404.71 | 0.00 | 404.71 | 3,786.97 | 943.17 | 3,846.67 | 3,516.77 | 2.69 | -0.47 | 0.124 |
| 60.00 | -33.42 | -6.61 | 0.00 | -371.22 | 0.00 | 371.22 | 3,725.00 | 920.76 | 3,666.07 | 3,376.36 | 3.21 | -0.51 | 0.119 |
| 65.00 | -32.22 | -6.52 | 0.00 | -338.17 | 0.00 | 338.17 | 3,661.68 | 898.35 | 3,489.81 | 3,237.50 | 3.76 | -0.55 | 0.113 |
| 70.00 | -31.04 | -6.43 | 0.00 | -305.58 | 0.00 | 305.58 | 3,596.99 | 875.94 | 3,317.90 | 3,100.29 | 4.36 | -0.59 | 0.107 |
| 75.00 | -29.88 | -6.34 | 0.00 | -273.44 | 0.00 | 273.44 | 3,530.94 | 853.53 | 3,150.33 | 2,964.81 | 4.99 | -0.62 | 0.101 |
| 79.00 | -25.93 | -5.52 | 0.00 | -247.50 | 0.00 | 247.50 | 3,477.11 | 835.61 | 3,019.39 | 2,857.73 | 5.53 | -0.65 | 0.094 |
| 80.00 | -25.71 | -5.47 | 0.00 | -241.98 | 0.00 | 241.98 | 3,463.52 | 831.12 | 2,987.10 | 2,831.15 | 5.66 | -0.66 | 0.093 |
| 85.00 | -24.61 | -5.38 | 0.00 | -214.65 | 0.00 | 214.65 | 3,394.74 | 808.71 | 2,828.21 | 2,699.41 | 6.37 | -0.69 | 0.087 |
| 89.00 | -22.87 | -5.02 | 0.00 | -192.91 | 0.00 | 192.91 | 3,338.73 | 790.79 | 2,704.22 | 2,595.46 | 6.97 | -0.72 | 0.081 |
| 90.00 | -22.65 | -4.96 | 0.00 | -187.89 | 0.00 | 187.89 | 3,324.59 | 786.30 | 2,673.66 | 2,569.68 | 7.12 | -0.73 | 0.080 |
| 94.92 | -21.64 | -4.91 | 0.00 | -163.48 | 0.00 | 163.48 | 3,235.40 | 764.27 | 2,525.93 | 2,429.96 | 7.88 | -0.76 | 0.074 |
| 95.00 | -21.61 | -4.88 | 0.00 | -163.07 | 0.00 | 163.07 | 3,233.82 | 763.90 | 2,523.46 | 2,427.58 | 7.90 | -0.76 | 0.074 |
| 98.00 | -18.07 | -4.31 | 0.00 | -148.18 | 0.00 | 148.18 | 3,176.90 | 750.45 | 2,435.42 | 2,342.45 | 8.38 | -0.78 | 0.069 |
| 99.83 | -17.48 | -4.29 | 0.00 | -140.28 | 0.00 | 140.28 | 2,561.71 | 630.49 | 2,062.77 | 1,907.72 | 8.68 | -0.79 | 0.080 |
| 100.00 | -17.45 | -4.24 | 0.00 | -139.56 | 0.00 | 139.56 | 2,559.94 | 629.87 | 2,058.70 | 1,904.51 | 8.71 | -0.79 | 0.080 |
| 105.00 | -16.59 | -4.15 | 0.00 | -118.34 | 0.00 | 118.34 | 2,506.36 | 611.20 | 1,938.45 | 1,808.89 | 9.55 | -0.82 | 0.072 |
| 110.00 | -15.76 | -4.07 | 0.00 | -97.61 | 0.00 | 97.61 | 2,451.42 | 592.52 | 1,821.82 | 1,714.70 | 10.43 | -0.85 | 0.063 |
| 113.00 | -15.18 | -3.92 | 0.00 | -85.33 | 0.00 | 85.33 | 2,417.79 | 581.32 | 1,753.58 | 1,658.91 | 10.96 | -0.86 | 0.058 |
| 115.00 | -14.87 | -3.86 | 0.00 | -77.48 | 0.00 | 77.48 | 2,395.11 | 573.85 | 1,708.81 | 1,622.03 | 11.33 | -0.87 | 0.054 |
| 120.00 | -14.09 | -3.78 | 0.00 | -58.18 | 0.00 | 58.18 | 2,337.43 | 555.17 | 1,599.41 | 1,530.98 | 12.25 | -0.89 | 0.044 |
| 123.00 | -9.46 | -2.69 | 0.00 | -46.75 | 0.00 | 46.75 | 2,302.17 | 543.97 | 1,535.51 | 1,477.15 | 12.82 | -0.91 | 0.036 |
| 125.00 | -9.18 | -2.63 | 0.00 | -41.37 | 0.00 | 41.37 | 2,271.18 | 536.50 | 1,493.64 | 1,437.05 | 13.20 | -0.91 | 0.033 |
| 130.00 | -8.51 | -2.53 | 0.00 | -28.24 | 0.00 | 28.24 | 2,192.12 | 517.82 | 1,391.48 | 1,338.27 | 14.17 | -0.93 | 0.025 |
| 135.00 | -7.86 | -2.46 | 0.00 | -15.58 | 0.00 | 15.58 | 2,113.07 | 499.15 | 1,292.94 | 1,243.00 | 15.14 | -0.94 | 0.016 |
| 137.00 | -3.17 | -0.88 | 0.00 | -10.11 | 0.00 | 10.11 | 2,081.44 | 491.68 | 1,254.54 | 1,205.88 | 15.53 | -0.94 | 0.010 |
| 140.00 | -2.89 | -0.82 | 0.00 | -7.48 | 0.00 | 7.48 | 2,034.01 | 480.47 | 1,198.02 | 1,151.25 | 16.12 | -0.94 | 0.008 |
| 145.00 | -2.43 | -0.76 | 0.00 | -3.39 | 0.00 | 3.39 | 1,954.95 | 461.80 | 1,106.72 | 1,063.02 | 17.11 | -0.94 | 0.004 |
| 147.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,909.10 | 450.97 | 1,055.42 | 1,013.45 | 17.68 | -0.94 | 0.000 |
| 147.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,908.83 | 450.91 | 1,055.13 | 1,013.16 | 17.69 | -0.94 | 0.000 |

Equivalent Lateral Forces Method Analysis

| | |
|--|---------|
| Spectral Response Acceleration for Short Period (S_s): | 0.19 |
| Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.05 |
| Long-Period Transition Period (T_L): | 6 |
| Importance Factor (I_E): | 1.00 |
| Site Coefficient F_a : | 1.60 |
| Site Coefficient F_v : | 2.40 |
| Response Modification Coefficient (R): | 1.50 |
| Design Spectral Response Acceleration at Short Period (S_{ds}): | 0.20 |
| Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.09 |
| Seismic Response Coefficient (C_s): | 0.03 |
| Upper Limit C_s | 0.03 |
| Lower Limit C_s | 0.03 |
| Period based on Rayleigh Method (sec): | 2.35 |
| Redundancy Factor (ρ): | 1.00 |
| Seismic Force Distribution Exponent (k): | 1.92 |
| Total Unfactored Dead Load: | 50.21 k |
| Seismic Base Shear (E): | 1.51 k |

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

| Segment | Height Above Base (ft) | Weight (lb) | W_z (lb-ft) | C_{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---------|------------------------|-------------|---------------|----------|-----------------------|---------------------|
| 41 | 147.91 | 1 | 22 | 0.000 | 0 | 2 |
| 40 | 146.45 | 257 | 3,758 | 0.013 | 19 | 318 |
| 39 | 142.50 | 457 | 6,347 | 0.021 | 32 | 567 |
| 38 | 138.50 | 283 | 3,719 | 0.012 | 19 | 351 |
| 37 | 136.00 | 257 | 3,269 | 0.011 | 16 | 319 |
| 36 | 132.50 | 656 | 7,927 | 0.027 | 40 | 814 |
| 35 | 127.50 | 674 | 7,565 | 0.025 | 38 | 837 |
| 34 | 124.00 | 275 | 2,922 | 0.010 | 15 | 341 |
| 33 | 121.50 | 458 | 4,686 | 0.016 | 24 | 569 |
| 32 | 117.50 | 778 | 7,462 | 0.025 | 38 | 966 |
| 31 | 114.00 | 316 | 2,862 | 0.010 | 14 | 393 |
| 30 | 111.50 | 495 | 4,289 | 0.014 | 22 | 614 |
| 29 | 107.50 | 839 | 6,780 | 0.023 | 34 | 1,041 |
| 28 | 102.50 | 857 | 6,320 | 0.021 | 32 | 1,063 |
| 27 | 99.92 | 29 | 203 | 0.001 | 1 | 36 |
| 26 | 98.92 | 584 | 4,023 | 0.013 | 20 | 725 |
| 25 | 96.50 | 982 | 6,448 | 0.022 | 32 | 1,219 |
| 24 | 94.96 | 27 | 175 | 0.001 | 1 | 34 |
| 23 | 92.46 | 1,014 | 6,130 | 0.021 | 31 | 1,258 |
| 22 | 89.50 | 212 | 1,207 | 0.004 | 6 | 264 |
| 21 | 87.00 | 861 | 4,633 | 0.016 | 23 | 1,069 |
| 20 | 82.50 | 1,096 | 5,324 | 0.018 | 27 | 1,360 |
| 19 | 79.50 | 222 | 1,003 | 0.003 | 5 | 275 |
| 18 | 77.00 | 907 | 3,856 | 0.013 | 19 | 1,125 |
| 17 | 72.50 | 1,153 | 4,366 | 0.015 | 22 | 1,430 |

| | | | | | | |
|----------------------|--------|-------|--------|-------|-----|-------|
| 16 | 67.50 | 1,174 | 3,877 | 0.013 | 20 | 1,457 |
| 15 | 62.50 | 1,196 | 3,406 | 0.011 | 17 | 1,484 |
| 14 | 57.50 | 1,218 | 2,954 | 0.010 | 15 | 1,511 |
| 13 | 54.00 | 493 | 1,060 | 0.004 | 5 | 612 |
| 12 | 51.50 | 1,295 | 2,541 | 0.009 | 13 | 1,607 |
| 11 | 48.42 | 1,384 | 2,411 | 0.008 | 12 | 1,717 |
| 10 | 45.92 | 459 | 723 | 0.002 | 4 | 570 |
| 9 | 42.50 | 1,268 | 1,719 | 0.006 | 9 | 1,573 |
| 8 | 37.50 | 1,290 | 1,374 | 0.005 | 7 | 1,600 |
| 7 | 32.50 | 1,311 | 1,061 | 0.004 | 5 | 1,627 |
| 6 | 27.50 | 1,333 | 782 | 0.003 | 4 | 1,654 |
| 5 | 22.50 | 1,355 | 541 | 0.002 | 3 | 1,681 |
| 4 | 17.50 | 1,377 | 339 | 0.001 | 2 | 1,709 |
| 3 | 12.50 | 1,399 | 180 | 0.001 | 1 | 1,736 |
| 2 | 7.50 | 1,421 | 69 | 0.000 | 0 | 1,763 |
| 1 | 2.50 | 1,127 | 7 | 0.000 | 0 | 1,399 |
| Decibel DB844H90E-XY | 147.90 | 56 | 836 | 0.003 | 4 | 69 |
| Andrew 844G65VTZASX | 147.90 | 128 | 1,911 | 0.006 | 10 | 159 |
| Flat Platform w/ Han | 147.90 | 2,000 | 29,852 | 0.100 | 150 | 2,481 |
| Powerwave Allgon LGP | 137.00 | 33 | 425 | 0.001 | 2 | 41 |
| Powerwave Allgon 702 | 137.00 | 13 | 170 | 0.001 | 1 | 16 |
| Powerwave Allgon LGP | 137.00 | 99 | 1,271 | 0.004 | 6 | 122 |
| Raycap DC6-48-60-18- | 137.00 | 40 | 515 | 0.002 | 3 | 50 |
| Raycap DC6-48-60-18- | 137.00 | 32 | 410 | 0.001 | 2 | 39 |
| Ericsson RRUS 4478 B | 137.00 | 178 | 2,296 | 0.008 | 12 | 221 |
| Ericsson RRUS 4449 B | 137.00 | 213 | 2,744 | 0.009 | 14 | 264 |
| Raycap DC6-48-60-18- | 137.00 | 16 | 206 | 0.001 | 1 | 20 |
| Ericsson RRUS 32 B66 | 137.00 | 152 | 1,959 | 0.007 | 10 | 189 |
| Ericsson RRUS 32 B2 | 137.00 | 318 | 4,097 | 0.014 | 21 | 395 |
| Ericsson RRUS E2 B29 | 137.00 | 180 | 2,319 | 0.008 | 12 | 223 |
| Ericsson RRUS-32 B30 | 137.00 | 231 | 2,976 | 0.010 | 15 | 287 |
| Powerwave Allgon 775 | 137.00 | 81 | 1,043 | 0.003 | 5 | 101 |
| Quintel QS66512-3 (1 | 137.00 | 224 | 2,886 | 0.010 | 15 | 278 |
| CCI DMP65R-BU6DA | 137.00 | 159 | 2,046 | 0.007 | 10 | 197 |
| CCI TPA-65R-LCUUUU-H | 137.00 | 82 | 1,051 | 0.004 | 5 | 101 |
| Kathrein Scala 80010 | 137.00 | 195 | 2,515 | 0.008 | 13 | 242 |
| Kathrein Scala 80010 | 137.00 | 115 | 1,476 | 0.005 | 7 | 142 |
| CCI DMP65R-BU8D | 137.00 | 96 | 1,233 | 0.004 | 6 | 119 |
| Flat Platform w/ Han | 137.00 | 2,000 | 25,765 | 0.086 | 130 | 2,481 |
| Ericsson KRY 112 144 | 123.00 | 33 | 346 | 0.001 | 2 | 41 |
| Ericsson KRY 112 489 | 123.00 | 46 | 484 | 0.002 | 2 | 57 |
| Ericsson KRY 112 489 | 123.00 | 31 | 322 | 0.001 | 2 | 38 |
| Ericsson Radio 4449 | 123.00 | 225 | 2,356 | 0.008 | 12 | 279 |
| Ericsson RRUS 4415 B | 123.00 | 138 | 1,445 | 0.005 | 7 | 171 |
| Ericsson Air6449 B41 | 123.00 | 312 | 3,267 | 0.011 | 16 | 387 |
| Ericsson AIR32 B66Aa | 123.00 | 397 | 4,152 | 0.014 | 21 | 492 |
| RFS APX16DWW-16DWVS- | 123.00 | 122 | 1,278 | 0.004 | 6 | 151 |
| RFS APXVAARR24_43-U- | 123.00 | 384 | 4,017 | 0.013 | 20 | 476 |
| Generic Flat Platfor | 123.00 | 2,500 | 26,175 | 0.088 | 132 | 3,102 |
| RFS APXV18-206517 | 113.00 | 79 | 704 | 0.002 | 4 | 98 |
| RFS IBC1900BB-1 | 98.00 | 66 | 446 | 0.001 | 2 | 82 |
| RFS IBC1900HG-2A | 98.00 | 66 | 446 | 0.001 | 2 | 82 |
| Alcatel-Lucent 800 M | 98.00 | 192 | 1,298 | 0.004 | 7 | 238 |
| Alcatel-Lucent 4x40W | 98.00 | 264 | 1,785 | 0.006 | 9 | 328 |
| Nokia 2.5G MAA - AAH | 98.00 | 311 | 2,102 | 0.007 | 11 | 386 |
| RFS APXVSP18-C-A20 | 98.00 | 171 | 1,156 | 0.004 | 6 | 212 |
| Round Low Profile PI | 98.00 | 1,500 | 10,144 | 0.034 | 51 | 1,861 |
| DragonWave Horizon C | 89.00 | 32 | 179 | 0.001 | 1 | 39 |
| NextNet BTS-2500 | 89.00 | 105 | 590 | 0.002 | 3 | 130 |
| Argus LLPX310R | 89.00 | 86 | 482 | 0.002 | 2 | 106 |
| DragonWave A-ANT-18G | 89.00 | 54 | 305 | 0.001 | 2 | 67 |
| Side Arms | 89.00 | 560 | 3,147 | 0.011 | 16 | 695 |
| DragonWave A-ANT-11G | 89.00 | 48 | 267 | 0.001 | 1 | 59 |
| Alcatel-Lucent RRH2X | 79.00 | 132 | 590 | 0.002 | 3 | 164 |

Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:32:10 PM

Customer: T-MOBILE

| | | | | | | |
|----------------------|-------|--------|---------|-------|-------|--------|
| Alcatel-Lucent RRH2x | 79.00 | 170 | 760 | 0.003 | 4 | 211 |
| Alcatel-Lucent RRH2x | 79.00 | 180 | 804 | 0.003 | 4 | 223 |
| RFS DB-T1-6Z-8AB-0Z | 79.00 | 88 | 393 | 0.001 | 2 | 109 |
| Commscope SBNHH-1D65 | 79.00 | 608 | 2,718 | 0.009 | 14 | 755 |
| Generic Round Low Pr | 79.00 | 1,875 | 8,377 | 0.028 | 42 | 2,326 |
| Lucent KS-24019 | 20.00 | 4 | 1 | 0.000 | 0 | 5 |
| | | 50,212 | 298,879 | 1.000 | 1,506 | 62,300 |

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

| Segment | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|----------------------|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| 41 | 147.91 | 1 | 22 | 0.000 | 0 | 1 |
| 40 | 146.45 | 257 | 3,758 | 0.013 | 19 | 220 |
| 39 | 142.50 | 457 | 6,347 | 0.021 | 32 | 392 |
| 38 | 138.50 | 283 | 3,719 | 0.012 | 19 | 243 |
| 37 | 136.00 | 257 | 3,269 | 0.011 | 16 | 221 |
| 36 | 132.50 | 656 | 7,927 | 0.027 | 40 | 564 |
| 35 | 127.50 | 674 | 7,565 | 0.025 | 38 | 579 |
| 34 | 124.00 | 275 | 2,922 | 0.010 | 15 | 236 |
| 33 | 121.50 | 458 | 4,686 | 0.016 | 24 | 394 |
| 32 | 117.50 | 778 | 7,462 | 0.025 | 38 | 669 |
| 31 | 114.00 | 316 | 2,862 | 0.010 | 14 | 272 |
| 30 | 111.50 | 495 | 4,289 | 0.014 | 22 | 425 |
| 29 | 107.50 | 839 | 6,780 | 0.023 | 34 | 721 |
| 28 | 102.50 | 857 | 6,320 | 0.021 | 32 | 736 |
| 27 | 99.92 | 29 | 203 | 0.001 | 1 | 25 |
| 26 | 98.92 | 584 | 4,023 | 0.013 | 20 | 502 |
| 25 | 96.50 | 982 | 6,448 | 0.022 | 32 | 844 |
| 24 | 94.96 | 27 | 175 | 0.001 | 1 | 24 |
| 23 | 92.46 | 1,014 | 6,130 | 0.021 | 31 | 871 |
| 22 | 89.50 | 212 | 1,207 | 0.004 | 6 | 183 |
| 21 | 87.00 | 861 | 4,633 | 0.016 | 23 | 740 |
| 20 | 82.50 | 1,096 | 5,324 | 0.018 | 27 | 942 |
| 19 | 79.50 | 222 | 1,003 | 0.003 | 5 | 191 |
| 18 | 77.00 | 907 | 3,856 | 0.013 | 19 | 779 |
| 17 | 72.50 | 1,153 | 4,366 | 0.015 | 22 | 991 |
| 16 | 67.50 | 1,174 | 3,877 | 0.013 | 20 | 1,009 |
| 15 | 62.50 | 1,196 | 3,406 | 0.011 | 17 | 1,028 |
| 14 | 57.50 | 1,218 | 2,954 | 0.010 | 15 | 1,047 |
| 13 | 54.00 | 493 | 1,060 | 0.004 | 5 | 424 |
| 12 | 51.50 | 1,295 | 2,541 | 0.009 | 13 | 1,113 |
| 11 | 48.42 | 1,384 | 2,411 | 0.008 | 12 | 1,189 |
| 10 | 45.92 | 459 | 723 | 0.002 | 4 | 395 |
| 9 | 42.50 | 1,268 | 1,719 | 0.006 | 9 | 1,089 |
| 8 | 37.50 | 1,290 | 1,374 | 0.005 | 7 | 1,108 |
| 7 | 32.50 | 1,311 | 1,061 | 0.004 | 5 | 1,127 |
| 6 | 27.50 | 1,333 | 782 | 0.003 | 4 | 1,145 |
| 5 | 22.50 | 1,355 | 541 | 0.002 | 3 | 1,164 |
| 4 | 17.50 | 1,377 | 339 | 0.001 | 2 | 1,183 |
| 3 | 12.50 | 1,399 | 180 | 0.001 | 1 | 1,202 |
| 2 | 7.50 | 1,421 | 69 | 0.000 | 0 | 1,221 |
| 1 | 2.50 | 1,127 | 7 | 0.000 | 0 | 969 |
| Decibel DB844H90E-XY | 147.90 | 56 | 836 | 0.003 | 4 | 48 |
| Andrew 844G65VTZASX | 147.90 | 128 | 1,911 | 0.006 | 10 | 110 |
| Flat Platform w/ Han | 147.90 | 2,000 | 29,852 | 0.100 | 150 | 1,719 |
| Powerwave Allgon LGP | 137.00 | 33 | 425 | 0.001 | 2 | 28 |
| Powerwave Allgon 702 | 137.00 | 13 | 170 | 0.001 | 1 | 11 |
| Powerwave Allgon LGP | 137.00 | 99 | 1,271 | 0.004 | 6 | 85 |
| Raycap DC6-48-60-18- | 137.00 | 40 | 515 | 0.002 | 3 | 34 |
| Raycap DC6-48-60-18- | 137.00 | 32 | 410 | 0.001 | 2 | 27 |

Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:32:10 PM

Customer: T-MOBILE

| | | | | | | |
|----------------------|--------|--------|---------|-------|-------|--------|
| Ericsson RRUS 4478 B | 137.00 | 178 | 2,296 | 0.008 | 12 | 153 |
| Ericsson RRUS 4449 B | 137.00 | 213 | 2,744 | 0.009 | 14 | 183 |
| Raycap DC6-48-60-18- | 137.00 | 16 | 206 | 0.001 | 1 | 14 |
| Ericsson RRUS 32 B66 | 137.00 | 152 | 1,959 | 0.007 | 10 | 131 |
| Ericsson RRUS 32 B2 | 137.00 | 318 | 4,097 | 0.014 | 21 | 273 |
| Ericsson RRUS E2 B29 | 137.00 | 180 | 2,319 | 0.008 | 12 | 155 |
| Ericsson RRUS-32 B30 | 137.00 | 231 | 2,976 | 0.010 | 15 | 198 |
| Powerwave Allgon 775 | 137.00 | 81 | 1,043 | 0.003 | 5 | 70 |
| Quintel QS66512-3 (1 | 137.00 | 224 | 2,886 | 0.010 | 15 | 192 |
| CCI DMP65R-BU6DA | 137.00 | 159 | 2,046 | 0.007 | 10 | 136 |
| CCI TPA-65R-LCUUUU-H | 137.00 | 82 | 1,051 | 0.004 | 5 | 70 |
| Kathrein Scala 80010 | 137.00 | 195 | 2,515 | 0.008 | 13 | 168 |
| Kathrein Scala 80010 | 137.00 | 115 | 1,476 | 0.005 | 7 | 98 |
| CCI DMP65R-BU8D | 137.00 | 96 | 1,233 | 0.004 | 6 | 82 |
| Flat Platform w/ Han | 137.00 | 2,000 | 25,765 | 0.086 | 130 | 1,719 |
| Ericsson KRY 112 144 | 123.00 | 33 | 346 | 0.001 | 2 | 28 |
| Ericsson KRY 112 489 | 123.00 | 46 | 484 | 0.002 | 2 | 40 |
| Ericsson KRY 112 489 | 123.00 | 31 | 322 | 0.001 | 2 | 26 |
| Ericsson Radio 4449 | 123.00 | 225 | 2,356 | 0.008 | 12 | 193 |
| Ericsson RRUS 4415 B | 123.00 | 138 | 1,445 | 0.005 | 7 | 119 |
| Ericsson Air6449 B41 | 123.00 | 312 | 3,267 | 0.011 | 16 | 268 |
| Ericsson AIR32 B66Aa | 123.00 | 397 | 4,152 | 0.014 | 21 | 341 |
| RFS APX16DWV-16DWVS- | 123.00 | 122 | 1,278 | 0.004 | 6 | 105 |
| RFS APXVAARR24_43-U- | 123.00 | 384 | 4,017 | 0.013 | 20 | 330 |
| Generic Flat Platfor | 123.00 | 2,500 | 26,175 | 0.088 | 132 | 2,148 |
| RFS APXV18-206517 | 113.00 | 79 | 704 | 0.002 | 4 | 68 |
| RFS IBC1900BB-1 | 98.00 | 66 | 446 | 0.001 | 2 | 57 |
| RFS IBC1900HG-2A | 98.00 | 66 | 446 | 0.001 | 2 | 57 |
| Alcatel-Lucent 800 M | 98.00 | 192 | 1,298 | 0.004 | 7 | 165 |
| Alcatel-Lucent 4x40W | 98.00 | 264 | 1,785 | 0.006 | 9 | 227 |
| Nokia 2.5G MAA - AAH | 98.00 | 311 | 2,102 | 0.007 | 11 | 267 |
| RFS APXVSP18-C-A20 | 98.00 | 171 | 1,156 | 0.004 | 6 | 147 |
| Round Low Profile PI | 98.00 | 1,500 | 10,144 | 0.034 | 51 | 1,289 |
| DragonWave Horizon C | 89.00 | 32 | 179 | 0.001 | 1 | 27 |
| NextNet BTS-2500 | 89.00 | 105 | 590 | 0.002 | 3 | 90 |
| Argus LLPX310R | 89.00 | 86 | 482 | 0.002 | 2 | 74 |
| DragonWave A-ANT-18G | 89.00 | 54 | 305 | 0.001 | 2 | 47 |
| Side Arms | 89.00 | 560 | 3,147 | 0.011 | 16 | 481 |
| DragonWave A-ANT-11G | 89.00 | 48 | 267 | 0.001 | 1 | 41 |
| Alcatel-Lucent RRH2X | 79.00 | 132 | 590 | 0.002 | 3 | 113 |
| Alcatel-Lucent RRH2x | 79.00 | 170 | 760 | 0.003 | 4 | 146 |
| Alcatel-Lucent RRH2x | 79.00 | 180 | 804 | 0.003 | 4 | 155 |
| RFS DB-T1-6Z-8AB-0Z | 79.00 | 88 | 393 | 0.001 | 2 | 76 |
| Commscope SBNHH-1D65 | 79.00 | 608 | 2,718 | 0.009 | 14 | 523 |
| Generic Round Low Pr | 79.00 | 1,875 | 8,377 | 0.028 | 42 | 1,611 |
| Lucent KS-24019 | 20.00 | 4 | 1 | 0.000 | 0 | 3 |
| | | 50,212 | 298,879 | 1.000 | 1,506 | 43,145 |

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -60.90 | -1.51 | 0.00 | -179.80 | 0.00 | 179.80 | 4,345.86 | 1,174.01 | 5,959.72 | 5,031.69 | 0.00 | 0.00 | 0.050 |
| 5.00 | -59.14 | -1.52 | 0.00 | -172.25 | 0.00 | 172.25 | 4,297.95 | 1,151.60 | 5,734.39 | 4,880.60 | 0.01 | -0.01 | 0.049 |
| 10.00 | -57.40 | -1.53 | 0.00 | -164.65 | 0.00 | 164.65 | 4,248.67 | 1,129.19 | 5,513.41 | 4,730.12 | 0.02 | -0.02 | 0.048 |
| 15.00 | -55.69 | -1.54 | 0.00 | -157.01 | 0.00 | 157.01 | 4,198.03 | 1,106.78 | 5,296.77 | 4,580.35 | 0.04 | -0.03 | 0.048 |
| 20.00 | -54.01 | -1.54 | 0.00 | -149.33 | 0.00 | 149.33 | 4,146.02 | 1,084.37 | 5,084.47 | 4,431.37 | 0.08 | -0.04 | 0.047 |
| 25.00 | -52.35 | -1.54 | 0.00 | -141.63 | 0.00 | 141.63 | 4,092.65 | 1,061.96 | 4,876.51 | 4,283.28 | 0.13 | -0.05 | 0.046 |
| 30.00 | -50.73 | -1.55 | 0.00 | -133.90 | 0.00 | 133.90 | 4,037.92 | 1,039.55 | 4,672.90 | 4,136.16 | 0.18 | -0.06 | 0.045 |
| 35.00 | -49.12 | -1.55 | 0.00 | -126.17 | 0.00 | 126.17 | 3,981.82 | 1,017.14 | 4,473.63 | 3,990.12 | 0.25 | -0.07 | 0.044 |
| 40.00 | -47.55 | -1.54 | 0.00 | -118.44 | 0.00 | 118.44 | 3,924.36 | 994.73 | 4,278.70 | 3,845.24 | 0.32 | -0.08 | 0.043 |
| 45.00 | -46.98 | -1.55 | 0.00 | -110.72 | 0.00 | 110.72 | 3,865.53 | 972.33 | 4,088.11 | 3,701.60 | 0.41 | -0.09 | 0.042 |
| 46.83 | -45.26 | -1.53 | 0.00 | -107.89 | 0.00 | 107.89 | 3,843.62 | 964.11 | 4,019.31 | 3,649.27 | 0.45 | -0.09 | 0.041 |
| 50.00 | -43.66 | -1.52 | 0.00 | -103.03 | 0.00 | 103.03 | 3,805.35 | 949.92 | 3,901.86 | 3,559.31 | 0.51 | -0.10 | 0.040 |
| 53.00 | -43.04 | -1.52 | 0.00 | -98.46 | 0.00 | 98.46 | 3,811.37 | 952.14 | 3,920.12 | 3,573.35 | 0.57 | -0.10 | 0.039 |
| 55.00 | -41.53 | -1.51 | 0.00 | -95.41 | 0.00 | 95.41 | 3,786.97 | 943.17 | 3,846.67 | 3,516.77 | 0.62 | -0.11 | 0.038 |
| 60.00 | -40.05 | -1.49 | 0.00 | -87.87 | 0.00 | 87.87 | 3,725.00 | 920.76 | 3,666.07 | 3,376.36 | 0.74 | -0.12 | 0.037 |
| 65.00 | -38.59 | -1.48 | 0.00 | -80.40 | 0.00 | 80.40 | 3,661.68 | 898.35 | 3,489.81 | 3,237.50 | 0.86 | -0.13 | 0.035 |
| 70.00 | -37.16 | -1.46 | 0.00 | -73.01 | 0.00 | 73.01 | 3,596.99 | 875.94 | 3,317.90 | 3,100.29 | 1.00 | -0.14 | 0.034 |
| 75.00 | -36.04 | -1.44 | 0.00 | -65.71 | 0.00 | 65.71 | 3,530.94 | 853.53 | 3,150.33 | 2,964.81 | 1.15 | -0.15 | 0.032 |
| 79.00 | -31.97 | -1.36 | 0.00 | -59.95 | 0.00 | 59.95 | 3,477.11 | 835.61 | 3,019.39 | 2,857.73 | 1.27 | -0.15 | 0.030 |
| 80.00 | -30.61 | -1.33 | 0.00 | -58.59 | 0.00 | 58.59 | 3,463.52 | 831.12 | 2,987.10 | 2,831.15 | 1.31 | -0.15 | 0.030 |
| 85.00 | -29.54 | -1.31 | 0.00 | -51.93 | 0.00 | 51.93 | 3,394.74 | 808.71 | 2,828.21 | 2,699.41 | 1.47 | -0.16 | 0.028 |
| 89.00 | -28.18 | -1.28 | 0.00 | -46.69 | 0.00 | 46.69 | 3,338.73 | 790.79 | 2,704.22 | 2,595.46 | 1.61 | -0.17 | 0.026 |
| 90.00 | -26.92 | -1.24 | 0.00 | -45.41 | 0.00 | 45.41 | 3,324.59 | 786.30 | 2,673.66 | 2,569.68 | 1.65 | -0.17 | 0.026 |
| 94.92 | -26.89 | -1.24 | 0.00 | -39.30 | 0.00 | 39.30 | 3,235.40 | 764.27 | 2,525.93 | 2,429.96 | 1.83 | -0.18 | 0.024 |
| 95.00 | -25.67 | -1.21 | 0.00 | -39.19 | 0.00 | 39.19 | 3,233.82 | 763.90 | 2,523.46 | 2,427.58 | 1.83 | -0.18 | 0.024 |
| 98.00 | -21.76 | -1.09 | 0.00 | -35.56 | 0.00 | 35.56 | 3,176.90 | 750.45 | 2,435.42 | 2,342.45 | 1.94 | -0.18 | 0.022 |
| 99.83 | -21.72 | -1.09 | 0.00 | -33.56 | 0.00 | 33.56 | 2,561.71 | 630.49 | 2,062.77 | 1,907.72 | 2.01 | -0.18 | 0.026 |
| 100.00 | -20.66 | -1.06 | 0.00 | -33.38 | 0.00 | 33.38 | 2,559.94 | 629.87 | 2,058.70 | 1,904.51 | 2.02 | -0.18 | 0.026 |
| 105.00 | -19.62 | -1.02 | 0.00 | -28.10 | 0.00 | 28.10 | 2,506.36 | 611.20 | 1,938.45 | 1,808.89 | 2.22 | -0.19 | 0.023 |
| 110.00 | -19.00 | -1.00 | 0.00 | -23.00 | 0.00 | 23.00 | 2,451.42 | 592.52 | 1,821.82 | 1,714.70 | 2.42 | -0.20 | 0.021 |
| 113.00 | -18.51 | -0.98 | 0.00 | -20.00 | 0.00 | 20.00 | 2,417.79 | 581.32 | 1,753.58 | 1,658.91 | 2.55 | -0.20 | 0.020 |
| 115.00 | -17.55 | -0.94 | 0.00 | -18.04 | 0.00 | 18.04 | 2,395.11 | 573.85 | 1,708.81 | 1,622.03 | 2.63 | -0.20 | 0.018 |
| 120.00 | -16.98 | -0.92 | 0.00 | -13.34 | 0.00 | 13.34 | 2,337.43 | 555.17 | 1,599.41 | 1,530.98 | 2.85 | -0.21 | 0.016 |
| 123.00 | -11.44 | -0.66 | 0.00 | -10.59 | 0.00 | 10.59 | 2,302.17 | 543.97 | 1,535.51 | 1,477.15 | 2.98 | -0.21 | 0.012 |
| 125.00 | -10.61 | -0.62 | 0.00 | -9.27 | 0.00 | 9.27 | 2,271.18 | 536.50 | 1,493.64 | 1,437.05 | 3.07 | -0.21 | 0.011 |
| 130.00 | -9.79 | -0.58 | 0.00 | -6.17 | 0.00 | 6.17 | 2,192.12 | 517.82 | 1,391.48 | 1,338.27 | 3.30 | -0.22 | 0.009 |
| 135.00 | -9.47 | -0.56 | 0.00 | -3.29 | 0.00 | 3.29 | 2,113.07 | 499.15 | 1,292.94 | 1,243.00 | 3.53 | -0.22 | 0.007 |
| 137.00 | -3.60 | -0.23 | 0.00 | -2.17 | 0.00 | 2.17 | 2,081.44 | 491.68 | 1,254.54 | 1,205.88 | 3.62 | -0.22 | 0.004 |
| 140.00 | -3.03 | -0.19 | 0.00 | -1.48 | 0.00 | 1.48 | 2,034.01 | 480.47 | 1,198.02 | 1,151.25 | 3.76 | -0.22 | 0.003 |
| 145.00 | -2.71 | -0.17 | 0.00 | -0.51 | 0.00 | 0.51 | 1,954.95 | 461.80 | 1,106.72 | 1,063.02 | 3.99 | -0.22 | 0.002 |
| 147.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,909.10 | 450.97 | 1,055.42 | 1,013.45 | 4.12 | -0.22 | 0.000 |
| 147.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,908.83 | 450.91 | 1,055.13 | 1,013.16 | 4.12 | -0.22 | 0.000 |

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -42.18 | -1.51 | 0.00 | -177.07 | 0.00 | 177.07 | 4,345.86 | 1,174.01 | 5,959.72 | 5,031.69 | 0.00 | 0.00 | 0.045 |
| 5.00 | -40.95 | -1.52 | 0.00 | -169.52 | 0.00 | 169.52 | 4,297.95 | 1,151.60 | 5,734.39 | 4,880.60 | 0.00 | -0.01 | 0.044 |
| 10.00 | -39.75 | -1.52 | 0.00 | -161.95 | 0.00 | 161.95 | 4,248.67 | 1,129.19 | 5,513.41 | 4,730.12 | 0.02 | -0.02 | 0.044 |
| 15.00 | -38.57 | -1.52 | 0.00 | -154.34 | 0.00 | 154.34 | 4,198.03 | 1,106.78 | 5,296.77 | 4,580.35 | 0.04 | -0.03 | 0.043 |
| 20.00 | -37.40 | -1.53 | 0.00 | -146.72 | 0.00 | 146.72 | 4,146.02 | 1,084.37 | 5,084.47 | 4,431.37 | 0.08 | -0.04 | 0.042 |
| 25.00 | -36.26 | -1.53 | 0.00 | -139.08 | 0.00 | 139.08 | 4,092.65 | 1,061.96 | 4,876.51 | 4,283.28 | 0.12 | -0.05 | 0.041 |
| 30.00 | -35.13 | -1.53 | 0.00 | -131.43 | 0.00 | 131.43 | 4,037.92 | 1,039.55 | 4,672.90 | 4,136.16 | 0.18 | -0.06 | 0.040 |
| 35.00 | -34.02 | -1.53 | 0.00 | -123.79 | 0.00 | 123.79 | 3,981.82 | 1,017.14 | 4,473.63 | 3,990.12 | 0.24 | -0.07 | 0.040 |
| 40.00 | -32.93 | -1.52 | 0.00 | -116.16 | 0.00 | 116.16 | 3,924.36 | 994.73 | 4,278.70 | 3,845.24 | 0.32 | -0.08 | 0.039 |
| 45.00 | -32.54 | -1.52 | 0.00 | -108.55 | 0.00 | 108.55 | 3,865.53 | 972.33 | 4,088.11 | 3,701.60 | 0.40 | -0.09 | 0.038 |
| 46.83 | -31.35 | -1.51 | 0.00 | -105.76 | 0.00 | 105.76 | 3,843.62 | 964.11 | 4,019.31 | 3,649.27 | 0.44 | -0.09 | 0.037 |
| 50.00 | -30.23 | -1.50 | 0.00 | -100.98 | 0.00 | 100.98 | 3,805.35 | 949.92 | 3,901.86 | 3,559.31 | 0.50 | -0.10 | 0.036 |
| 53.00 | -29.81 | -1.50 | 0.00 | -96.48 | 0.00 | 96.48 | 3,811.37 | 952.14 | 3,920.12 | 3,573.35 | 0.56 | -0.10 | 0.035 |
| 55.00 | -28.76 | -1.48 | 0.00 | -93.49 | 0.00 | 93.49 | 3,786.97 | 943.17 | 3,846.67 | 3,516.77 | 0.61 | -0.11 | 0.034 |
| 60.00 | -27.73 | -1.47 | 0.00 | -86.08 | 0.00 | 86.08 | 3,725.00 | 920.76 | 3,666.07 | 3,376.36 | 0.72 | -0.12 | 0.033 |
| 65.00 | -26.72 | -1.45 | 0.00 | -78.74 | 0.00 | 78.74 | 3,661.68 | 898.35 | 3,489.81 | 3,237.50 | 0.85 | -0.12 | 0.032 |
| 70.00 | -25.73 | -1.43 | 0.00 | -71.49 | 0.00 | 71.49 | 3,596.99 | 875.94 | 3,317.90 | 3,100.29 | 0.98 | -0.13 | 0.030 |
| 75.00 | -24.95 | -1.41 | 0.00 | -64.34 | 0.00 | 64.34 | 3,530.94 | 853.53 | 3,150.33 | 2,964.81 | 1.13 | -0.14 | 0.029 |
| 79.00 | -22.14 | -1.33 | 0.00 | -58.70 | 0.00 | 58.70 | 3,477.11 | 835.61 | 3,019.39 | 2,857.73 | 1.25 | -0.15 | 0.027 |
| 80.00 | -21.20 | -1.30 | 0.00 | -57.36 | 0.00 | 57.36 | 3,463.52 | 831.12 | 2,987.10 | 2,831.15 | 1.28 | -0.15 | 0.026 |
| 85.00 | -20.46 | -1.28 | 0.00 | -50.84 | 0.00 | 50.84 | 3,394.74 | 808.71 | 2,828.21 | 2,699.41 | 1.45 | -0.16 | 0.025 |
| 89.00 | -19.52 | -1.25 | 0.00 | -45.71 | 0.00 | 45.71 | 3,338.73 | 790.79 | 2,704.22 | 2,595.46 | 1.58 | -0.17 | 0.023 |
| 90.00 | -18.64 | -1.22 | 0.00 | -44.46 | 0.00 | 44.46 | 3,324.59 | 786.30 | 2,673.66 | 2,569.68 | 1.62 | -0.17 | 0.023 |
| 94.92 | -18.62 | -1.22 | 0.00 | -38.47 | 0.00 | 38.47 | 3,235.40 | 764.27 | 2,525.93 | 2,429.96 | 1.79 | -0.17 | 0.022 |
| 95.00 | -17.78 | -1.18 | 0.00 | -38.37 | 0.00 | 38.37 | 3,233.82 | 763.90 | 2,523.46 | 2,427.58 | 1.80 | -0.17 | 0.021 |
| 98.00 | -15.07 | -1.07 | 0.00 | -34.82 | 0.00 | 34.82 | 3,176.90 | 750.45 | 2,435.42 | 2,342.45 | 1.91 | -0.18 | 0.020 |
| 99.83 | -15.04 | -1.07 | 0.00 | -32.86 | 0.00 | 32.86 | 2,561.71 | 630.49 | 2,062.77 | 1,907.72 | 1.98 | -0.18 | 0.023 |
| 100.00 | -14.31 | -1.03 | 0.00 | -32.68 | 0.00 | 32.68 | 2,559.94 | 629.87 | 2,058.70 | 1,904.51 | 1.98 | -0.18 | 0.023 |
| 105.00 | -13.59 | -1.00 | 0.00 | -27.51 | 0.00 | 27.51 | 2,506.36 | 611.20 | 1,938.45 | 1,808.89 | 2.18 | -0.19 | 0.021 |
| 110.00 | -13.16 | -0.98 | 0.00 | -22.51 | 0.00 | 22.51 | 2,451.42 | 592.52 | 1,821.82 | 1,714.70 | 2.38 | -0.20 | 0.019 |
| 113.00 | -12.82 | -0.96 | 0.00 | -19.58 | 0.00 | 19.58 | 2,417.79 | 581.32 | 1,753.58 | 1,658.91 | 2.50 | -0.20 | 0.017 |
| 115.00 | -12.15 | -0.92 | 0.00 | -17.66 | 0.00 | 17.66 | 2,395.11 | 573.85 | 1,708.81 | 1,622.03 | 2.58 | -0.20 | 0.016 |
| 120.00 | -11.76 | -0.90 | 0.00 | -13.06 | 0.00 | 13.06 | 2,337.43 | 555.17 | 1,599.41 | 1,530.98 | 2.80 | -0.21 | 0.014 |
| 123.00 | -7.92 | -0.65 | 0.00 | -10.37 | 0.00 | 10.37 | 2,302.17 | 543.97 | 1,535.51 | 1,477.15 | 2.93 | -0.21 | 0.010 |
| 125.00 | -7.35 | -0.61 | 0.00 | -9.08 | 0.00 | 9.08 | 2,271.18 | 536.50 | 1,493.64 | 1,437.05 | 3.01 | -0.21 | 0.010 |
| 130.00 | -6.78 | -0.56 | 0.00 | -6.05 | 0.00 | 6.05 | 2,192.12 | 517.82 | 1,391.48 | 1,338.27 | 3.24 | -0.21 | 0.008 |
| 135.00 | -6.56 | -0.55 | 0.00 | -3.22 | 0.00 | 3.22 | 2,113.07 | 499.15 | 1,292.94 | 1,243.00 | 3.46 | -0.21 | 0.006 |
| 137.00 | -2.49 | -0.22 | 0.00 | -2.13 | 0.00 | 2.13 | 2,081.44 | 491.68 | 1,254.54 | 1,205.88 | 3.55 | -0.22 | 0.003 |
| 140.00 | -2.10 | -0.19 | 0.00 | -1.45 | 0.00 | 1.45 | 2,034.01 | 480.47 | 1,198.02 | 1,151.25 | 3.69 | -0.22 | 0.002 |
| 145.00 | -1.88 | -0.17 | 0.00 | -0.50 | 0.00 | 0.50 | 1,954.95 | 461.80 | 1,106.72 | 1,063.02 | 3.91 | -0.22 | 0.001 |
| 147.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,909.10 | 450.97 | 1,055.42 | 1,013.45 | 4.04 | -0.22 | 0.000 |
| 147.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,908.83 | 450.91 | 1,055.13 | 1,013.16 | 4.04 | -0.22 | 0.000 |

Site Number: 302468

Code: ANSI/TIA-222-H

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Site Name: Petro Lock, CT

Engineering Number: 13252312_C3_04

7/9/2020 12:32:10 PM

Customer: T-MOBILE

Analysis Summary

| Load Case | Reactions | | | | | | Max Usage | |
|----------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|---------------------------|--------------|----------------------|
| | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Elev (ft) | Interaction Ratio |
| 1.2D + 1.0W | 32.45 | 0.00 | 60.20 | 0.00 | 0.00 | 3477.12 | 0.00 | 0.71 |
| 0.9D + 1.0W | 32.42 | 0.00 | 45.14 | 0.00 | 0.00 | 3434.97 | 0.00 | 0.69 |
| 1.2D + 1.0Di + 1.0Wi | 8.98 | 0.00 | 95.24 | 0.00 | 0.00 | 968.90 | 0.00 | 0.21 |
| 1.2D + 1.0Ev + 1.0Eh | 1.51 | 0.00 | 60.90 | 0.00 | 0.00 | 179.80 | 0.00 | 0.05 |
| 0.9D - 1.0Ev + 1.0Eh | 1.51 | 0.00 | 42.18 | 0.00 | 0.00 | 177.07 | 0.00 | 0.04 |
| 1.0D + 1.0W | 7.50 | 0.00 | 50.21 | 0.00 | 0.00 | 798.41 | 0.00 | 0.17 |

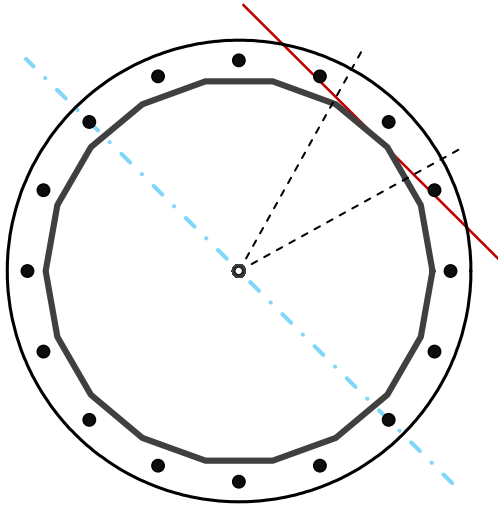
Base Plate & Anchor Rod Analysis

| Pole Dimensions | | |
|--------------------|-------|----|
| Number of Sides | 18 | - |
| Diameter | 56.58 | in |
| Thickness | 3/8 | in |
| Orientation Offset | 0 | ° |

| Base Reactions | | |
|----------------|---------|------|
| Moment, Mu | 3,477.1 | k-ft |
| Axial, Pu | 60.2 | k |
| Shear, Vu | 32.5 | k |
| Neutral Axis | 315 | ° |

| Report Capacities | | |
|-------------------|----------|--------|
| Component | Capacity | Result |
| Base Plate | 20% | Pass |
| Anchor Rods | 73% | Pass |
| Dwyidag | - | - |

| Base Plate | | |
|---------------------------|------------|------------|
| Shape | Round | - |
| Diameter, ϕ | 69 | in |
| Thickness | 2 1/2 | in |
| Grade | A633 Gr. E | |
| Yield Strength, Fy | 60 | ksi |
| Tensile Strength, Fu | 80 | ksi |
| Clip | N/A | in |
| Orientation Offset | 0 | ° |
| Anchor Rod Detail | d | $\eta=0.5$ |
| Clear Distance | 3 | in |
| Applied Moment, Mu | 344.4 | k |
| Bending Stress, ϕMn | 1730.4 | k |



| Original Anchor Rods | | |
|------------------------|---------|-----|
| Arrangement | Radial | - |
| Quantity | 16 | - |
| Diameter, ϕ | 2 1/4 | in |
| Bolt Circle | 63 | in |
| Grade | A615-75 | |
| Yield Strength, Fy | 75 | ksi |
| Tensile Strength, Fu | 100 | ksi |
| Spacing | 12.4 | in |
| Orientation Offset | 0 | ° |
| Applied Force, Pu | 175.7 | k |
| Anchor Rods, ϕPn | 243.6 | k |

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

| Reaction | Shear Vu | Moment Mu | Factor |
|-------------------------------|-------------|--------------|--------|
| - | k | k-ft | - |
| Base Forces | 32.5 | 3477.1 | 1.00 |
| Anchor Rod Forces | 32.5 | 3477.1 | 1.00 |
| Additional Bolt (Grp1) Forces | 0.0 | 0.0 | 0.00 |
| Additional Bolt (Grp2) Forces | 0.0 | 0.0 | 0.00 |
| Dywidag Forces | 0.0 | 0.0 | 0.00 |
| Stiffener Forces | 0.0 | 0.0 | 0.00 |

Geometric Properties

| Section | Gross Area | Net Area | Individual Inertia | Threads per Inch | Moment of Inertia |
|-----------|-----------------|-----------------|--------------------|------------------|-------------------|
| - | in ² | in ² | in ⁴ | # | in ⁴ |
| Pole | 65.8793 | 3.6600 | 0.1721 | | 26017.20 |
| Bolt | 3.9761 | 3.2477 | 0.8393 | 4.5 | 23886.48 |
| Bolt1 | 0.0000 | 0.0000 | 0.0000 | 0 | 0.00 |
| Bolt2 | 0.0000 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dywidag | 0.0000 | 0.0000 | 0.0000 | | 0.00 |
| Stiffener | 0.0000 | 0.0000 | 0.0000 | | 0.00 |

| Base Plate | | |
|----------------------|--------|-----|
| Shape | Round | - |
| Diameter, D | 69 | in |
| Thickness, t | 2.5 | in |
| Yield Strength, Fy | 60 | ksi |
| Tensile Strength, Fu | 80 | ksi |
| Base Plate Chord | 39.493 | in |
| Detail Type | d | - |
| Detail Factor | 0.50 | - |
| Clear Distance | 3 | - |

| Anchor Rods | | |
|---------------------------|-------|-----|
| Anchor Rod Quantity, N | 16 | - |
| Rod Diameter, d | 2.25 | in |
| Bolt Circle, BC | 63 | in |
| Yield Strength, Fy | 75 | ksi |
| Tensile Strength, Fu | 100 | ksi |
| Applied Axial, Pu | 175.7 | k |
| Applied Shear, Vu | 1.2 | k |
| Compressive Capacity, φPn | 243.6 | k |
| Tensile Capacity, φRnt | 0.721 | OK |
| Interaction Capacity | 0.732 | OK |

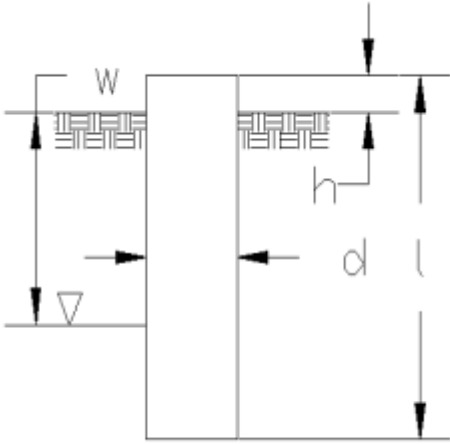
| External Base Plate | | |
|-----------------------|--------|-----------------|
| Chord Length AA | 32.784 | in |
| Additional AA | 5.000 | in |
| Section Modulus, Z | 59.038 | in ³ |
| Applied Moment, Mu | 344.4 | k-ft |
| Bending Capacity, φMn | 3188.0 | k-ft |
| Capacity, Mu/φMn | 0.108 | OK |
| Chord Length AB | 31.222 | in |
| Additional AB | 5.000 | in |
| Section Modulus, Z | 56.597 | in ³ |
| Applied Moment, Mu | 267.6 | k-ft |
| Bending Capacity, φMn | 3056.2 | k-ft |
| Capacity, Mu/φMn | 0.088 | OK |
| Bend Line Length | 20.509 | in |
| Additional Bend Line | 0.000 | in |
| Section Modulus, Z | 32.045 | in ³ |
| Applied Moment, Mu | 344.4 | k-ft |
| Bending Capacity, φMn | 1730.4 | k-ft |
| Capacity, Mu/φMn | 0.199 | OK |

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

Site Name: Petro Lock, CT
Site Number: 302468
Tower Type: MP
Design Base Loads (Factored) - Analysis per TIA-222-H Standards

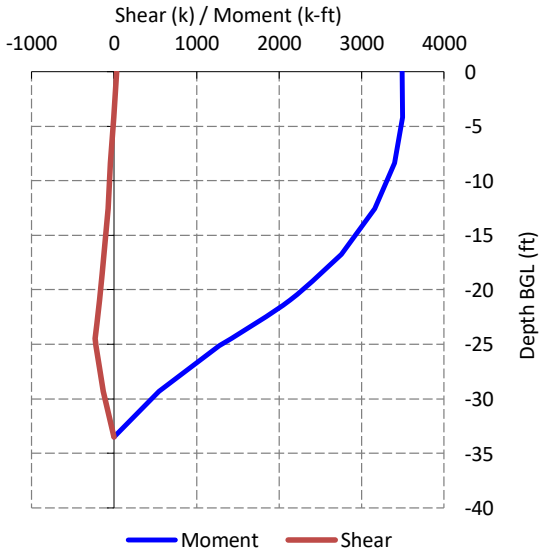
Pier Foundation Analysis

| Foundation Analysis Parameters | | |
|--|---------|------|
| Analyze or Design a Foundation? | Analyze | - |
| Foundation Mapped: | N | - |
| Moment (M): | 3,477.1 | k-ft |
| Shear/Leg (V): | 32.5 | k |
| Axial Load (P): | 60.2 | k |
| Uplift/Leg (U): | 0.0 | k |
| Diameter of Caisson (d): | 7 | ft |
| Caisson Embedment (L-h): | 33.5 | ft |
| Caisson Height Above Ground (h): | 0.5 | ft |
| Depth Below Ground Surface to Water Table (w): | 11 | ft |
| Unit Weight of Concrete: | 150 | pcf |
| Unit Weight of Water: | 62.4 | pcf |
| Tension/Compression Skin Friction Factor: | 0.7775 | - |
| Pullout Angle: | 30 | ° |



| Depth (ft) | | γ_{Soil} | C_u | ϕ | Ultimate Skin | Ultimate Bearing |
|------------|--------|-----------------|-------|----------|----------------|------------------|
| Top | Bottom | (pcf) | (psf) | (degree) | Friction (psf) | Pressure (psf) |
| 0 | 3 | 105 | 0 | 0 | 0 | 0 |
| 3 | 7 | 111 | 1,026 | 0 | 0 | 0 |
| 7 | 11 | 104 | 439 | 0 | 232 | 0 |
| 11 | 17 | 111 | 1,033 | 0 | 515 | 0 |
| 17 | 22 | 113 | 0 | 29 | 876 | 0 |
| 22 | 27 | 122 | 0 | 34 | 1,618 | 0 |
| 27 | 32 | 131 | 0 | 40 | 1,727 | 0 |
| 32 | 37 | 140 | 0 | 40 | 1,825 | 98,964 |

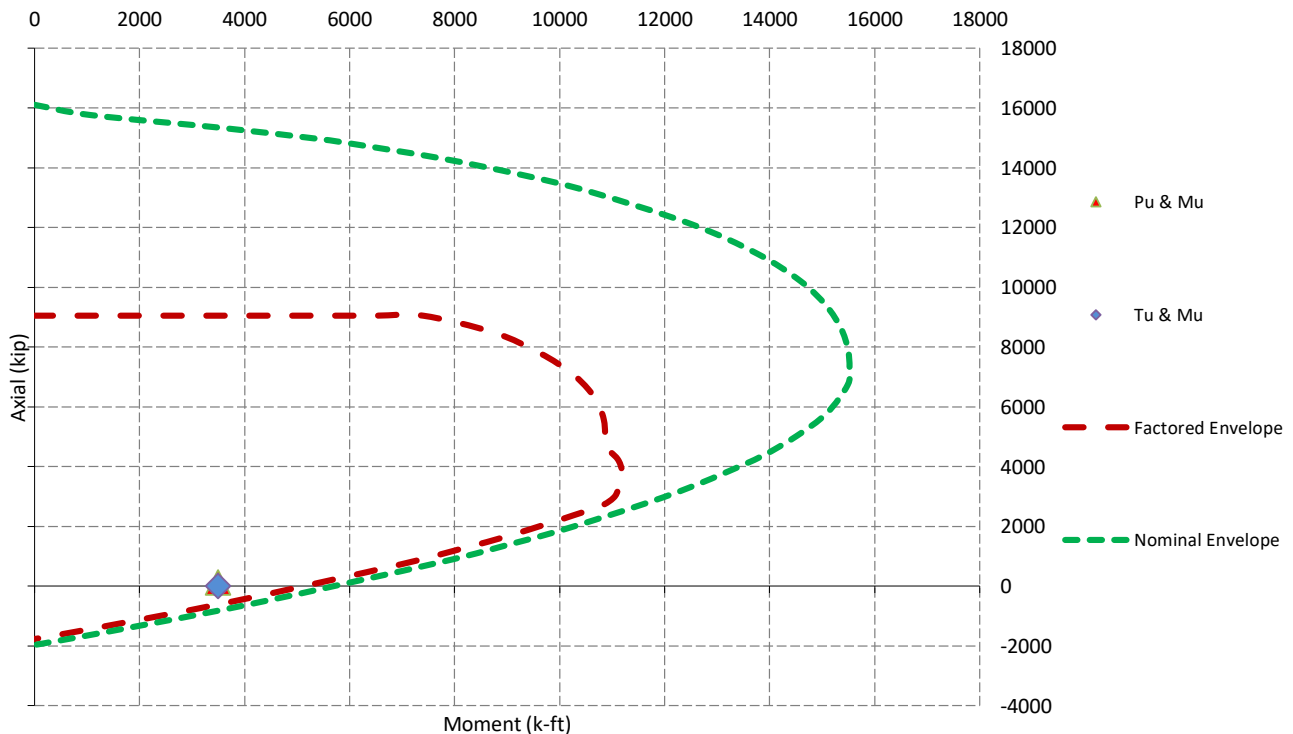
| Soil Strength Capacities | | |
|---|---------|-----------------|
| Required Embedment: | 23.4 | ft |
| Volume of Concrete: | 1308.5 | ft ³ |
| Buoyant Weight of Concrete: | 142.2 | k |
| Average Soil Unit Weight: | 73.9 | pcf |
| Skin Friction Resistance: | 612.7 | k |
| Compressive Bearing Resistance: | 3808.6 | k |
| Pullout Weight (Minus Concrete Weight): | 1497.1 | k |
| Nominal Uplift Capacity per Leg ($f_s T_n$): | 357.3 | k |
| Nominal Compressive Capacity per Leg ($f_s P_n$): | 3315.9 | k |
| T_u : | 0.00 | k |
| $T_u / f_s T_n$: | 0% | Pass |
| P_u : | 113.0 | k |
| $P_u / f_s P_n$: | 3% | Pass |
| Total Lateral Resistance: | 2854.8 | k |
| Inflection Point (Below Ground Surface): | 24.5 | ft |
| Moment At Inflection Point (M_D): | 4287.4 | k-ft |
| Nominal Moment Capacity ($f_s M_n$): | 15109.5 | k-ft |
| f_s : | 0.75 | - |
| $M_D / f_s M_n$: | 28% | Pass |



Caisson Strength Capacities

| | | | |
|--|--------|-----------------|---|
| Concrete Compressive Strength (f'_c): | 3,000 | psi | |
| Vertical Steel Rebar Size #: | 11 | - | |
| Vertical Steel Rebar Area: | 1.56 | in ² | |
| # of Vertical Steel Rebars: | 21 | - | |
| Vertical Steel Rebar Yield Strength (F_y): | 60 | ksi | |
| Horizontal Tie / Stirrup Size #: | 5 | - | |
| Horizontal Tie / Stirrup Area: | 0.31 | in ² | |
| Vertical Rebar Clear Cover: | 4 | in | |
| Design Horizontal Tie / Stirrup Spacing: | 18 | in | |
| Horizontal Tie / Stirrup Steel Yield Strength (F_y): | 40 | ksi | |
| Rebar Cage Diameter: | 76.0 | in | |
| Strength Bending/Tension Reduction Factor (f_B): | 0.9 | - | ACI 318-14 - 21.2.1 [Table 21.2.1 (a)] |
| Strength Shear Reduction Factor (f_V): | 0.75 | - | ACI 318-14 - 21.2.1 [Table 21.2.1 (b)] |
| Strength Compression Reduction Factor (f_C): | 0.65 | - | ACI 318-14 - 21.2.1 [Table 21.2.1 (a)] |
| Steel Elastic Modulus: | 29000 | ksi | |
| Design Moment (M_u): | 3498.7 | k-ft | |
| Nominal Moment Capacity ($f_B M_n$): | 4963.4 | k-ft | ACI 318-14 - 9.5.2/22.3 |
| $M_u/f_B M_n$: | 70% | Pass | |
| Design Shear (V_u): | 229.0 | k | |
| Nominal Shear Capacity ($f_V V_n$): | 527.22 | k | ACI 318-14 - 22.5 |
| $V_u/f_V V_n$: | 43% | Pass | |
| Design Tension (T_u): | 0.0 | k | |
| Nominal Tension Capacity ($f_T T_n$): | 1769.0 | k | |
| $T_u/f_T T_n$: | 0% | Pass | |
| Design Compression (P_u): | 113.0 | k | |
| Nominal Compression Capacity ($f_p P_n$): | 8327.1 | k | ACI 318-14 - 22.4 |
| $P_u/f_p P_n$: | 1% | Pass | |
| Bending Reinforcement Ratio: | 0.006 | - | |
| $M_u/f_B M_n + T_u/f_T T_n$: | 70% | Pass | ACI 318-14 - 10.6.1 & TIA-222-H - 9.4.1 |

Nominal and Factored Moment Capacity and Factored Design Loads



June 19, 2020

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American Tower Corporation
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Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
Structures@tepgroup.net

Subject: Appurtenance Mount Analysis Report

Carrier Designation: *T-Mobile Reconfiguration*
Site Number: CT11661A
Site Name: Hartford South2/Frnklin Av

ATC Designation: **ATC Site Number:** 302468
ATC Site Name: Petro Lock

Engineering Firm Designation: **TEP Project Number:** 68495.424417

Site Data: 99 Meadow St., Hartford, Hartford County, CT 06114
Latitude 41° 44' 35.51", Longitude -72° 40' 03.00"
149 Foot - Monopole Tower

Table 1 - Mount Analysis Specification

| Ultimate Wind Speed (MPH) | Radial Ice (in.) | Ice Wind Speed (MPH) | Exposure Category | Risk Category | Topo Procedure | K _{zt} |
|---------------------------|------------------|----------------------|-------------------|---------------|----------------|-----------------|
| 125 | 1 1/2 | 50 | C | II | Method 2 | 1.0 |

Based on our analysis we have determined the stress level for the mount structure to be:

LC1: Existing + Proposed + Reserved Loading
Note: See Table 2 for the existing, proposed, and reserved loading

Sufficient Capacity – 70.5%

The analysis has been performed in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures.

Structural analysis prepared by: Austin E. Wilson, E.I.T.

Respectfully submitted by:

Aaron T. Rucker, P.E..



06/19/2020

Table 2 - Existing, Proposed, and Reserved Antenna Loading Configuration

| Existing/ Proposed/ Reserved | Mount Level (ft) | Ant CL (ft) | Qty | Antenna Model | Mount Type | Owner/ Tenant |
|------------------------------------|------------------------|-------------------|-----|------------------------------|-------------------------|------------------|
| Final Loading Config. | 123 | 123 | 3 | RFS APX16DWV16DWVS-E-A20 | SitePro1 RMQP-496-HK | T-Mobile |
| | | | 3 | Ericsson Air6449 B41 | | |
| | | | 3 | Ericsson AIR32 B66Aa/B2a | | |
| | | | 3 | RFS APXVAARR24_43-UNA20 | | |
| | | | 3 | Ericsson RRUS 4415 B25 | | |
| | | | 3 | Ericsson Radio 4449 B71 B85A | | |
| | | | 5 | Ericsson KRY 112 489/1 | | |
| | | | 3 | Ericsson KRY 112 144/1 | | |

Table 3 - Mount Component Stresses vs. Capacity

| Notes | Component | % Capacity | Pass / Fail |
|-------|------------------|------------|-------------|
| - | Face Horizontal | 18.0 | Pass |
| - | Handrail | 53.2 | Pass |
| - | Internal | 19.5 | Pass |
| - | Mount Pipe | 70.5 | Pass |
| - | Connection Bolts | 38.1 | Pass |
| - | Connection Plate | 42.8 | Pass |

| | |
|---|--------------|
| Structure Rating (max from all components) = | 70.5% |
|---|--------------|

Table 4 - Documents Provided

| Document | Remarks | Source |
|-----------------------------|--|--------|
| Mount Manufacturer Drawings | SitePro1, dated July 14, 2014 Dwg No. RMQP-496-HK | TEP |

RECOMMENDATIONS

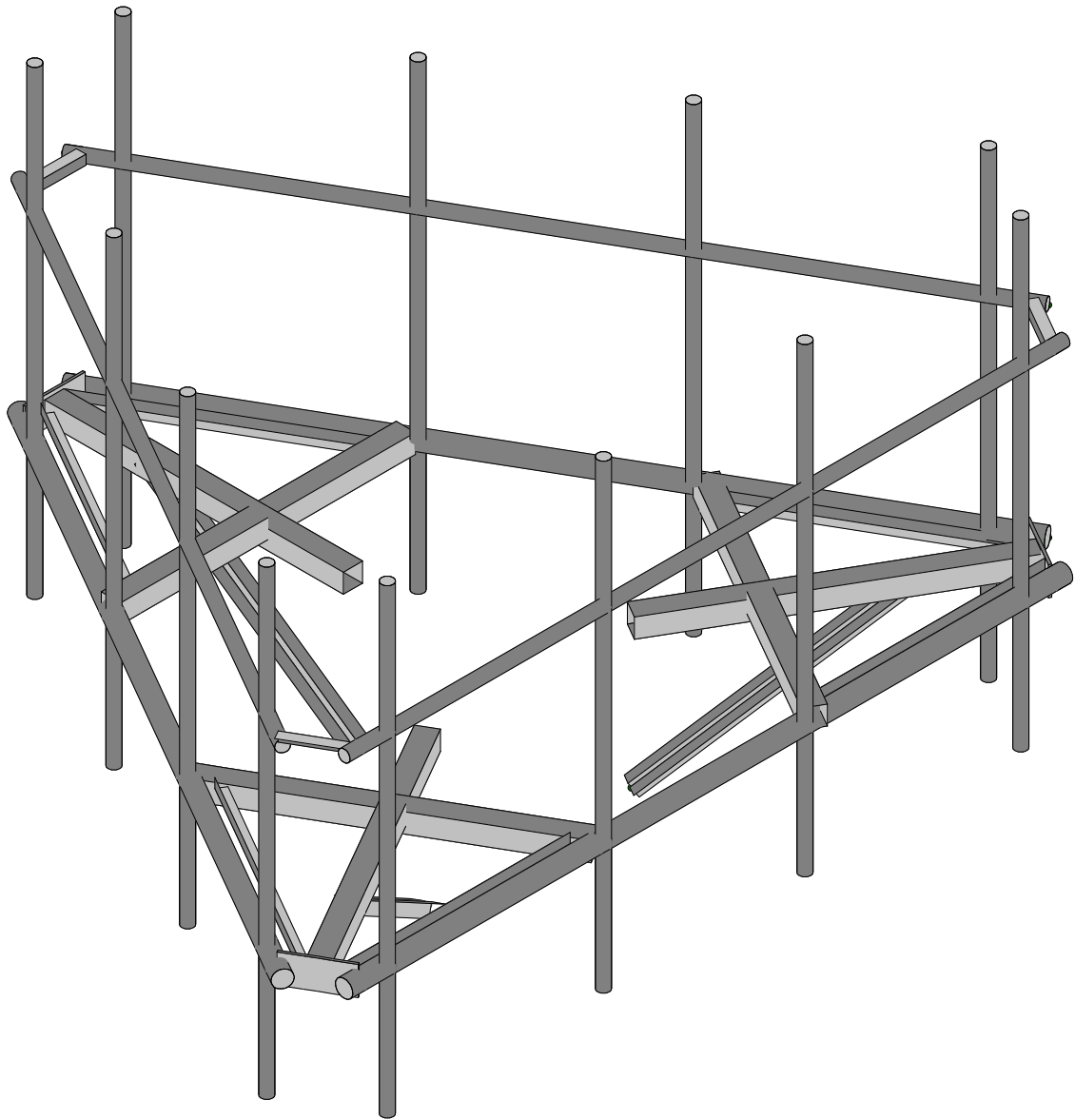
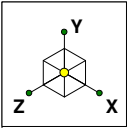
- 1) If the load differs from that described in Table 2 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required at this time.

ANALYSIS ASSUMPTIONS

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 2. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit.
- 4) Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA 3-D output for confirmation on grades used in this analysis.

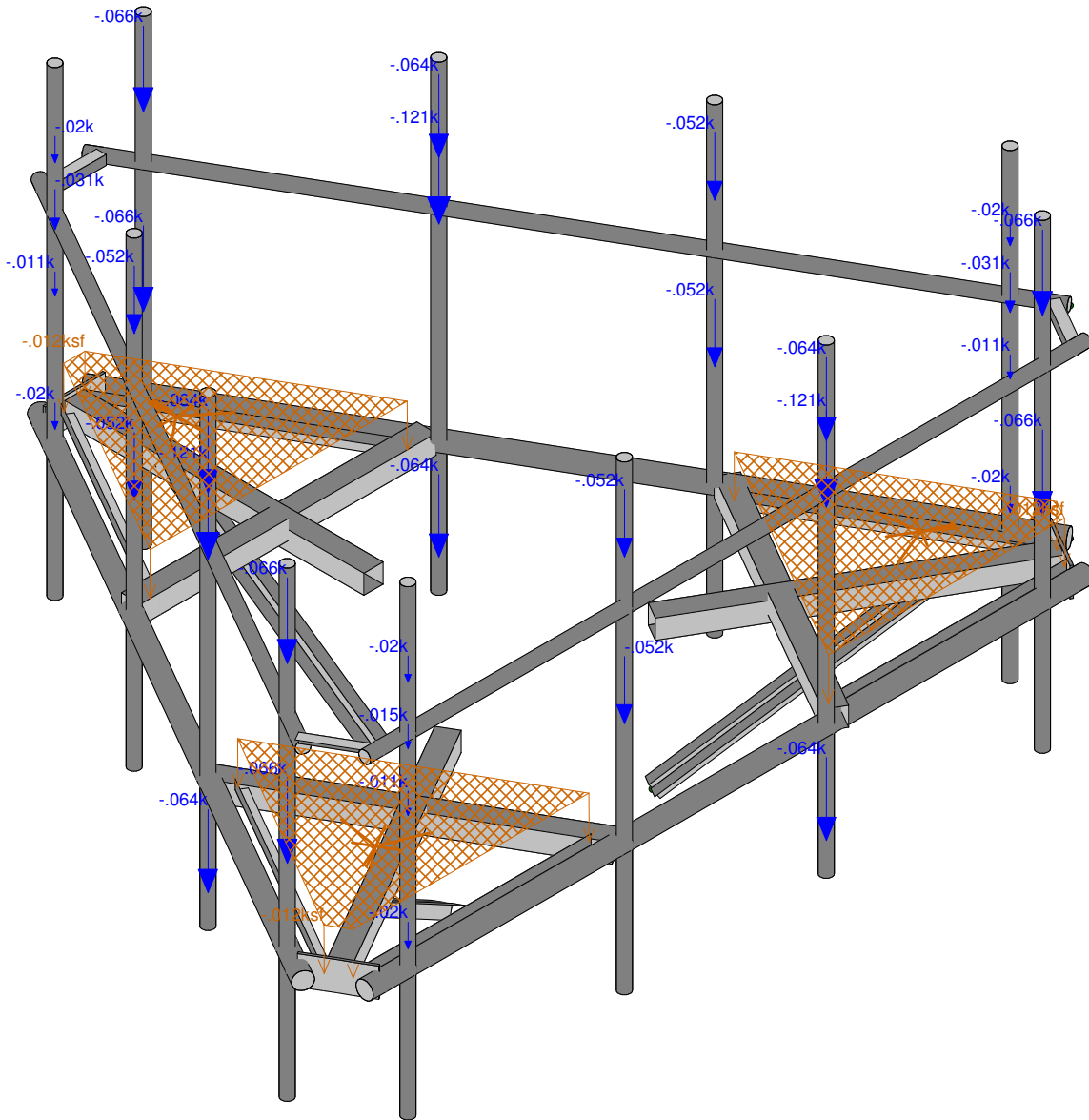
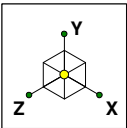
This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the mount.

APPENDIX A
RISA-3D OUTPUT



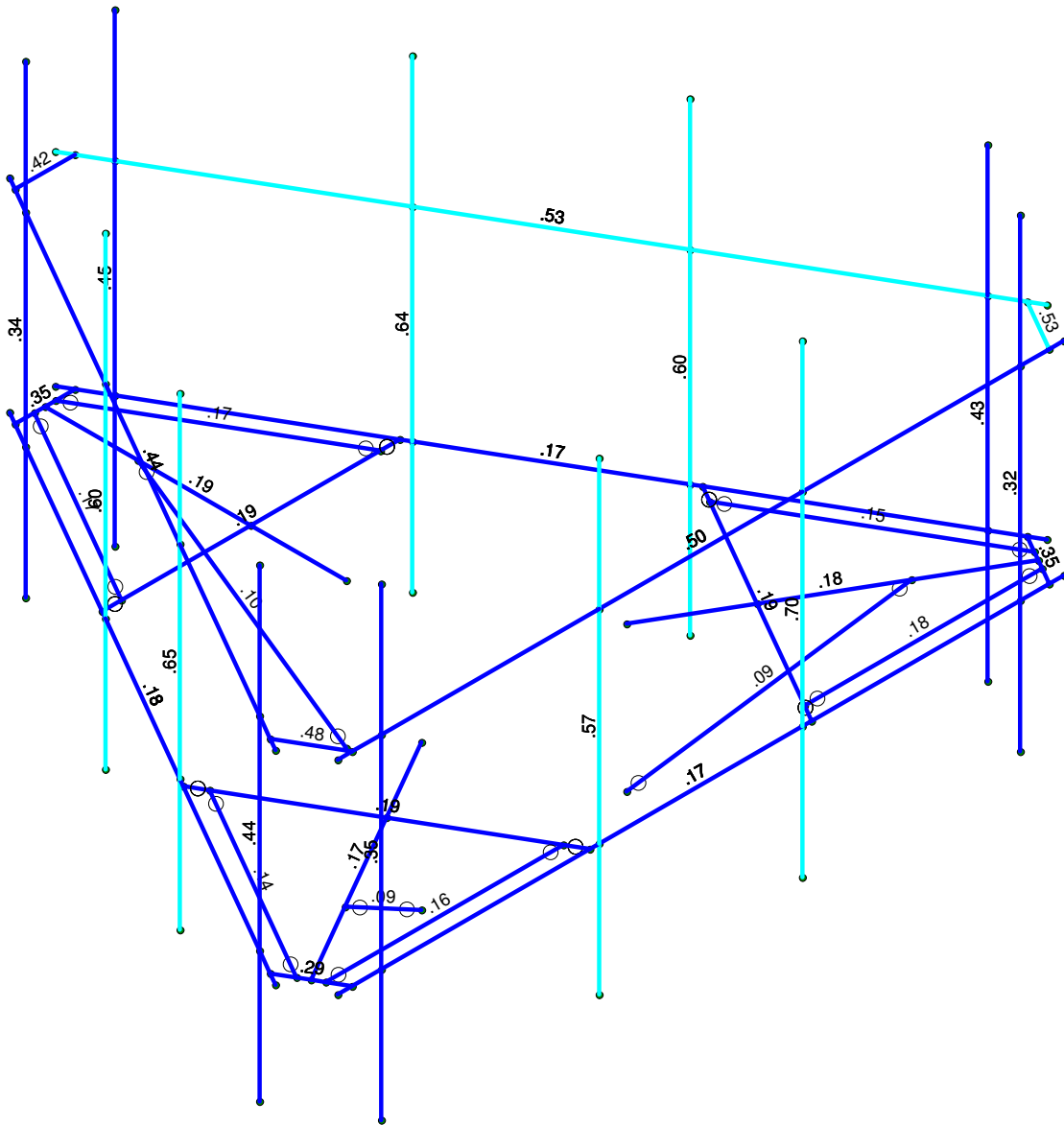
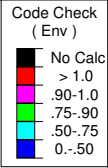
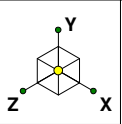
Envelope Only Solution

| | | |
|-----------------------------|-------------------|--------------------------------|
| Tower Engineering Profes... | 302468 Petro Lock | SK - 1 |
| AEW | | June 19, 2020 at 3:44 PM |
| TEP No. 68495.424417 | | 302468_Petro Lock_T-Mobile.r3d |



Loads: BLC 1, Dead
Envelope Only Solution

| | | |
|-----------------------------|-------------------|--------------------------------|
| Tower Engineering Profes... | 302468 Petro Lock | SK - 2 |
| AEW | | June 19, 2020 at 3:44 PM |
| TEP No. 68495.424417 | | 302468_Petro Lock_T-Mobile.r3d |



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...

AEW

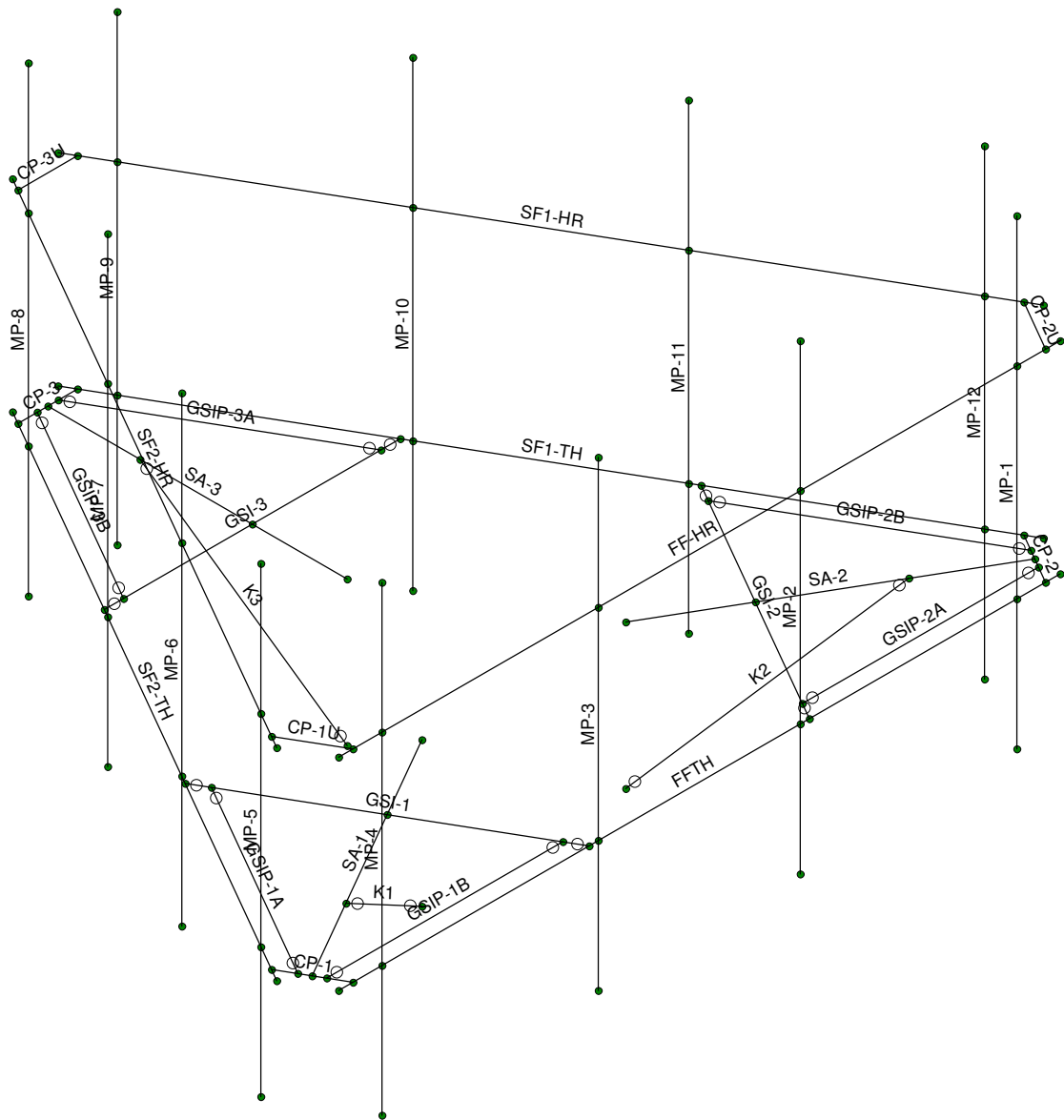
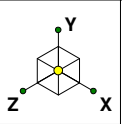
TEP No. 68495.424417

302468 Petro Lock

SK - 3

June 19, 2020 at 3:45 PM

302468_Petro Lock_T-Mobile.r3d

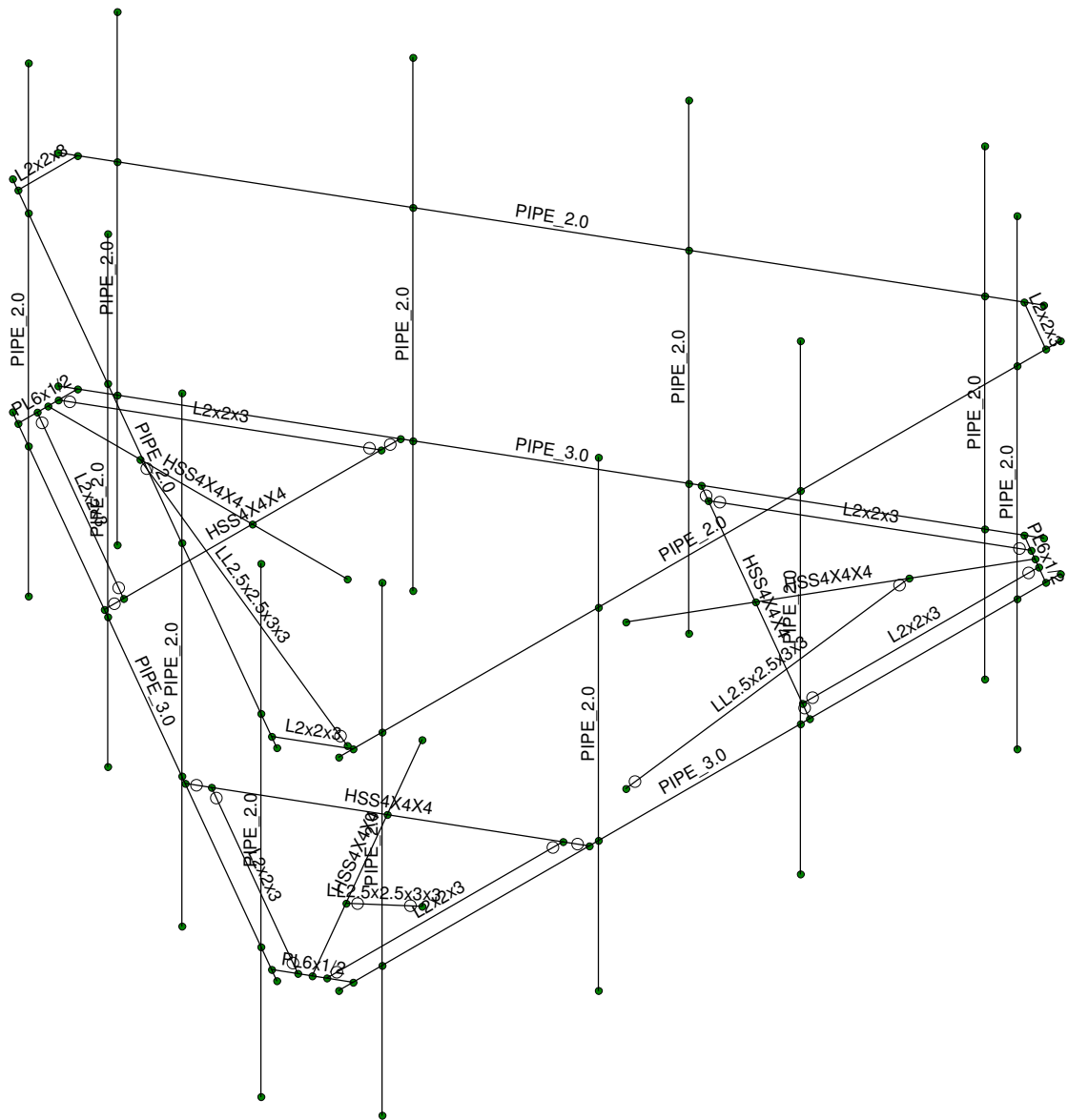
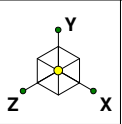


Envelope Only Solution

Tower Engineering Profes...
 AEW
 TEP No. 68495.424417

302468 Petro Lock

SK - 4
 June 19, 2020 at 3:45 PM
 302468_Petro Lock_T-Mobile.r3d



Envelope Only Solution

Tower Engineering Profes...
 AEW
 TEP No. 68495.424417

302468 Petro Lock

SK - 5
 June 19, 2020 at 3:46 PM
 302468_Petro Lock_T-Mobile.r3d



(Global) Model Settings

| | |
|--|--------------------|
| Display Sections for Member Calcs | 5 |
| Max Internal Sections for Member Calcs | 97 |
| Include Shear Deformation? | Yes |
| Increase Nailing Capacity for Wind? | Yes |
| Include Warping? | Yes |
| Trans Load Btwn Intersecting Wood Wall? | Yes |
| Area Load Mesh (in^2) | 144 |
| Merge Tolerance (in) | .12 |
| P-Delta Analysis Tolerance | 0.50% |
| Include P-Delta for Walls? | Yes |
| Automatically Iterate Stiffness for Walls? | Yes |
| Max Iterations for Wall Stiffness | 3 |
| Gravity Acceleration (ft/sec^2) | 32.2 |
| Wall Mesh Size (in) | 24 |
| Eigensolution Convergence Tol. (1.E-) | 4 |
| Vertical Axis | Y |
| Global Member Orientation Plane | XZ |
| Static Solver | Sparse Accelerated |
| Dynamic Solver | Accelerated Solver |

| | |
|------------------------|-------------------------|
| Hot Rolled Steel Code | AISC 15th(360-16): LRFD |
| Adjust Stiffness? | No |
| RISACONNECTION CODE | AISC 15th(360-16): LRFD |
| Cold Formed Steel Code | None |
| Wood Code | None |
| Wood Temperature | < 100F |
| Concrete Code | None |
| Masonry Code | None |
| Aluminum Code | None - Building |
| Stainless Steel Code | None |

| | |
|-------------------------------|--------------------|
| Number of Shear Regions | 4 |
| Region Spacing Increment (in) | 4 |
| Biaxial Column Method | Exact Integration |
| Parme Beta Factor (PCA) | .65 |
| Concrete Stress Block | Rectangular |
| Use Cracked Sections? | Yes |
| Use Cracked Sections Slab? | No |
| Bad Framing Warnings? | No |
| Unused Force Warnings? | Yes |
| Min 1 Bar Diam. Spacing? | No |
| Concrete Rebar Set | REBAR_SET_ASTMA615 |
| Min % Steel for Column | 1 |
| Max % Steel for Column | 8 |



(Global) Model Settings, Continued

| | |
|-----------------------------|-------------|
| Seismic Code | ASCE 7-10 |
| Seismic Base Elevation (ft) | Not Entered |
| Add Base Weight? | Yes |
| Ct X | .02 |
| Ct Z | .02 |
| T X (sec) | Not Entered |
| T Z (sec) | Not Entered |
| R X | 3 |
| R Z | 3 |
| Ct Exp. X | .75 |
| Ct Exp. Z | .75 |
| SD1 | 1 |
| SDS | 1 |
| S1 | 1 |
| TL (sec) | 5 |
| Risk Cat | I or II |
| Drift Cat | Other |
| Om Z | 1 |
| Om X | 1 |
| Cd Z | 1 |
| Cd X | 1 |
| Rho Z | 1 |
| Rho X | 1 |

Hot Rolled Steel Properties

| | Label | F [ksj] | G [ksj] | Nu | Therm (/1E..) | Density[k/ft..] | Yield[ksj] | Ry | Fu[ksj] | Rt |
|---|----------------|---------|---------|----|---------------|-----------------|------------|-----|---------|-----|
| 1 | A992 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 2 | A36 Gr.36 | 29000 | 11154 | .3 | .65 | .49 | 36 | 1.5 | 58 | 1.2 |
| 3 | A572 Gr.50 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 4 | A500 Gr.B RND | 29000 | 11154 | .3 | .65 | .527 | 42 | 1.4 | 58 | 1.3 |
| 5 | A500 Gr.B Rect | 29000 | 11154 | .3 | .65 | .527 | 46 | 1.4 | 58 | 1.3 |
| 6 | A53 Gr.B | 29000 | 11154 | .3 | .65 | .49 | 35 | 1.6 | 60 | 1.2 |
| 7 | A1085 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.4 | 65 | 1.3 |

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design R... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|-----------------|---------------|--------|-----------------------|-----------|-------------|---------|-----------|-----------|---------|
| 1 | Face Horizontal | PIPE 3.0 | Beam | Pipe | A53 Gr.B | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 2 | Mount Pipes | PIPE 2.0 | Column | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 3 | Support Arm | HSS4X4X4 | Beam | SquareTube | A53 Gr.B | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 4 | Internal | HSS4X4X4 | Beam | SquareTube | A53 Gr.B | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 5 | Grating Support | L2x2x3 | Beam | Single Angle | A36 Gr.36 | Typical | .722 | .271 | .271 | .009 |
| 6 | Corner Plate | PL6x1/2 | Beam | RECT | A36 Gr.36 | Typical | 3 | .063 | 9 | .237 |
| 7 | Handrail | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 8 | Handrail Plate | L2x2x3 | Beam | Single Angle | A36 Gr.36 | Typical | .722 | .271 | .271 | .009 |
| 9 | Kicker | LL2.5x2.5x3x3 | Beam | Double Angle (No Gap) | A36 Gr.36 | Typical | 1.8 | 2.46 | 1.07 | .023 |

Cold Formed Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design Rules | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|-------|-------------|------|-------------|--------------|--------------|---------|-----------|-----------|---------|
| 1 | CF1A | 8CU1.25X057 | Beam | None | A653 SS Gr33 | Typical | .581 | .057 | 4.41 | .00063 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

June 19, 2020
 3:47 PM
 Checked By: HBC

Member Point Loads (BLC 1 : Dead) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 26 | MP-2 | Y | -0.64 | 7.5 |
| 27 | MP-3 | Y | -0.52 | 4 |
| 28 | MP-4 | Y | -0.02 | 5.5 |
| 29 | MP-5 | Y | -0.066 | 4.5 |
| 30 | MP-6 | Y | -0.64 | 7.5 |
| 31 | MP-7 | Y | -0.52 | 4 |
| 32 | MP-8 | Y | -0.02 | 5.5 |
| 33 | MP-9 | Y | -0.066 | 4.5 |
| 34 | MP-10 | Y | -0.64 | 7.5 |
| 35 | MP-11 | Y | -0.52 | 4 |
| 36 | MP-12 | Y | -0.02 | 5.5 |

Member Point Loads (BLC 2 : 0 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.14 | 1.5 |
| 2 | MP-2 | X | -0.434 | 1.5 |
| 3 | MP-2 | X | -0.071 | 2.5 |
| 4 | MP-2 | X | -0.071 | 2.5 |
| 5 | MP-3 | X | -0.122 | 1.5 |
| 6 | MP-4 | X | -0.141 | 1.5 |
| 7 | MP-4 | X | -0.024 | 2.5 |
| 8 | MP-4 | X | -0.015 | 3.5 |
| 9 | MP-5 | X | -0.135 | 1.5 |
| 10 | MP-6 | X | -0.406 | 1.5 |
| 11 | MP-6 | X | -0.066 | 2.5 |
| 12 | MP-6 | X | -0.069 | 2.5 |
| 13 | MP-7 | X | -0.114 | 1.5 |
| 14 | MP-8 | X | -0.13 | 1.5 |
| 15 | MP-8 | X | -0.046 | 2.5 |
| 16 | MP-8 | X | -0.014 | 3.5 |
| 17 | MP-9 | X | -0.135 | 1.5 |
| 18 | MP-10 | X | -0.406 | 1.5 |
| 19 | MP-10 | X | -0.066 | 2.5 |
| 20 | MP-10 | X | -0.069 | 2.5 |
| 21 | MP-11 | X | -0.114 | 1.5 |
| 22 | MP-12 | X | -0.13 | 1.5 |
| 23 | MP-12 | X | -0.046 | 2.5 |
| 24 | MP-12 | X | -0.014 | 3.5 |
| 25 | MP-1 | X | -0.14 | 4.5 |
| 26 | MP-2 | X | -0.434 | 7.5 |
| 27 | MP-3 | X | -0.122 | 4 |
| 28 | MP-4 | X | -0.141 | 5.5 |
| 29 | MP-5 | X | -0.135 | 4.5 |
| 30 | MP-6 | X | -0.406 | 7.5 |
| 31 | MP-7 | X | -0.114 | 4 |
| 32 | MP-8 | X | -0.13 | 5.5 |
| 33 | MP-9 | X | -0.135 | 4.5 |
| 34 | MP-10 | X | -0.406 | 7.5 |
| 35 | MP-11 | X | -0.114 | 4 |
| 36 | MP-12 | X | -0.13 | 5.5 |

Member Point Loads (BLC 3 : 30 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|---|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.113 | 1.5 |
| 2 | MP-2 | X | -0.323 | 1.5 |
| 3 | MP-2 | X | -0.052 | 2.5 |



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 Designer : AEW
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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 4 | MP-2 | X | -0.058 | 2.5 |
| 5 | MP-3 | X | -0.091 | 1.5 |
| 6 | MP-4 | X | -0.102 | 1.5 |
| 7 | MP-4 | X | -0.019 | 2.5 |
| 8 | MP-4 | X | -0.011 | 3.5 |
| 9 | MP-5 | X | -0.101 | 1.5 |
| 10 | MP-6 | X | -0.252 | 1.5 |
| 11 | MP-6 | X | -0.04 | 2.5 |
| 12 | MP-6 | X | -0.054 | 2.5 |
| 13 | MP-7 | X | -0.071 | 1.5 |
| 14 | MP-8 | X | -0.074 | 1.5 |
| 15 | MP-8 | X | -0.033 | 2.5 |
| 16 | MP-8 | X | -0.009 | 3.5 |
| 17 | MP-9 | X | -0.101 | 1.5 |
| 18 | MP-10 | X | -0.252 | 1.5 |
| 19 | MP-10 | X | -0.04 | 2.5 |
| 20 | MP-10 | X | -0.054 | 2.5 |
| 21 | MP-11 | X | -0.071 | 1.5 |
| 22 | MP-12 | X | -0.074 | 1.5 |
| 23 | MP-12 | X | -0.033 | 2.5 |
| 24 | MP-12 | X | -0.009 | 3.5 |
| 25 | MP-1 | X | -0.113 | 4.5 |
| 26 | MP-2 | X | -0.323 | 7.5 |
| 27 | MP-3 | X | -0.091 | 4 |
| 28 | MP-4 | X | -0.102 | 5.5 |
| 29 | MP-5 | X | -0.101 | 4.5 |
| 30 | MP-6 | X | -0.252 | 7.5 |
| 31 | MP-7 | X | -0.071 | 4 |
| 32 | MP-8 | X | -0.074 | 5.5 |
| 33 | MP-9 | X | -0.101 | 4.5 |
| 34 | MP-10 | X | -0.252 | 7.5 |
| 35 | MP-11 | X | -0.071 | 4 |
| 36 | MP-12 | X | -0.074 | 5.5 |
| 37 | MP-1 | Z | -0.065 | 1.5 |
| 38 | MP-2 | Z | -0.187 | 1.5 |
| 39 | MP-2 | Z | -0.03 | 2.5 |
| 40 | MP-2 | Z | -0.034 | 2.5 |
| 41 | MP-3 | Z | -0.052 | 1.5 |
| 42 | MP-4 | Z | -0.059 | 1.5 |
| 43 | MP-4 | Z | -0.011 | 2.5 |
| 44 | MP-4 | Z | -0.006 | 3.5 |
| 45 | MP-5 | Z | -0.059 | 1.5 |
| 46 | MP-6 | Z | -0.146 | 1.5 |
| 47 | MP-6 | Z | -0.023 | 2.5 |
| 48 | MP-6 | Z | -0.031 | 2.5 |
| 49 | MP-7 | Z | -0.041 | 1.5 |
| 50 | MP-8 | Z | -0.043 | 1.5 |
| 51 | MP-8 | Z | -0.019 | 2.5 |
| 52 | MP-8 | Z | -0.005 | 3.5 |
| 53 | MP-9 | Z | -0.059 | 1.5 |
| 54 | MP-10 | Z | -0.146 | 1.5 |
| 55 | MP-10 | Z | -0.023 | 2.5 |
| 56 | MP-10 | Z | -0.031 | 2.5 |
| 57 | MP-11 | Z | -0.041 | 1.5 |
| 58 | MP-12 | Z | -0.043 | 1.5 |
| 59 | MP-12 | Z | -0.019 | 2.5 |
| 60 | MP-12 | Z | -0.005 | 3.5 |



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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 61 | MP-1 | Z | -0.065 | 4.5 |
| 62 | MP-2 | Z | -0.187 | 7.5 |
| 63 | MP-3 | Z | -0.052 | 4 |
| 64 | MP-4 | Z | -0.059 | 5.5 |
| 65 | MP-5 | Z | -0.059 | 4.5 |
| 66 | MP-6 | Z | -0.146 | 7.5 |
| 67 | MP-7 | Z | -0.041 | 4 |
| 68 | MP-8 | Z | -0.043 | 5.5 |
| 69 | MP-9 | Z | -0.059 | 4.5 |
| 70 | MP-10 | Z | -0.146 | 7.5 |
| 71 | MP-11 | Z | -0.041 | 4 |
| 72 | MP-12 | Z | -0.043 | 5.5 |

Member Point Loads (BLC 4 : 45 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.085 | 1.5 |
| 2 | MP-2 | X | -0.221 | 1.5 |
| 3 | MP-2 | X | -0.035 | 2.5 |
| 4 | MP-2 | X | -0.045 | 2.5 |
| 5 | MP-3 | X | -0.062 | 1.5 |
| 6 | MP-4 | X | -0.066 | 1.5 |
| 7 | MP-4 | X | -0.014 | 2.5 |
| 8 | MP-4 | X | -0.008 | 3.5 |
| 9 | MP-5 | X | -0.076 | 1.5 |
| 10 | MP-6 | X | -0.166 | 1.5 |
| 11 | MP-6 | X | -0.026 | 2.5 |
| 12 | MP-6 | X | -0.042 | 2.5 |
| 13 | MP-7 | X | -0.046 | 1.5 |
| 14 | MP-8 | X | -0.044 | 1.5 |
| 15 | MP-8 | X | -0.024 | 2.5 |
| 16 | MP-8 | X | -0.006 | 3.5 |
| 17 | MP-9 | X | -0.076 | 1.5 |
| 18 | MP-10 | X | -0.166 | 1.5 |
| 19 | MP-10 | X | -0.026 | 2.5 |
| 20 | MP-10 | X | -0.042 | 2.5 |
| 21 | MP-11 | X | -0.046 | 1.5 |
| 22 | MP-12 | X | -0.044 | 1.5 |
| 23 | MP-12 | X | -0.024 | 2.5 |
| 24 | MP-12 | X | -0.006 | 3.5 |
| 25 | MP-1 | X | -0.085 | 4.5 |
| 26 | MP-2 | X | -0.221 | 7.5 |
| 27 | MP-3 | X | -0.062 | 4 |
| 28 | MP-4 | X | -0.066 | 5.5 |
| 29 | MP-5 | X | -0.076 | 4.5 |
| 30 | MP-6 | X | -0.166 | 7.5 |
| 31 | MP-7 | X | -0.046 | 4 |
| 32 | MP-8 | X | -0.044 | 5.5 |
| 33 | MP-9 | X | -0.076 | 4.5 |
| 34 | MP-10 | X | -0.166 | 7.5 |
| 35 | MP-11 | X | -0.046 | 4 |
| 36 | MP-12 | X | -0.044 | 5.5 |
| 37 | MP-1 | Z | -0.085 | 1.5 |
| 38 | MP-2 | Z | -0.221 | 1.5 |
| 39 | MP-2 | Z | -0.035 | 2.5 |
| 40 | MP-2 | Z | -0.045 | 2.5 |
| 41 | MP-3 | Z | -0.062 | 1.5 |



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 42 | MP-4 | Z | -0.066 | 1.5 |
| 43 | MP-4 | Z | -0.014 | 2.5 |
| 44 | MP-4 | Z | -0.008 | 3.5 |
| 45 | MP-5 | Z | -0.076 | 1.5 |
| 46 | MP-6 | Z | -0.166 | 1.5 |
| 47 | MP-6 | Z | -0.026 | 2.5 |
| 48 | MP-6 | Z | -0.042 | 2.5 |
| 49 | MP-7 | Z | -0.046 | 1.5 |
| 50 | MP-8 | Z | -0.044 | 1.5 |
| 51 | MP-8 | Z | -0.024 | 2.5 |
| 52 | MP-8 | Z | -0.006 | 3.5 |
| 53 | MP-9 | Z | -0.076 | 1.5 |
| 54 | MP-10 | Z | -0.166 | 1.5 |
| 55 | MP-10 | Z | -0.026 | 2.5 |
| 56 | MP-10 | Z | -0.042 | 2.5 |
| 57 | MP-11 | Z | -0.046 | 1.5 |
| 58 | MP-12 | Z | -0.044 | 1.5 |
| 59 | MP-12 | Z | -0.024 | 2.5 |
| 60 | MP-12 | Z | -0.006 | 3.5 |
| 61 | MP-1 | Z | -0.085 | 4.5 |
| 62 | MP-2 | Z | -0.221 | 7.5 |
| 63 | MP-3 | Z | -0.062 | 4 |
| 64 | MP-4 | Z | -0.066 | 5.5 |
| 65 | MP-5 | Z | -0.076 | 4.5 |
| 66 | MP-6 | Z | -0.166 | 7.5 |
| 67 | MP-7 | Z | -0.046 | 4 |
| 68 | MP-8 | Z | -0.044 | 5.5 |
| 69 | MP-9 | Z | -0.076 | 4.5 |
| 70 | MP-10 | Z | -0.166 | 7.5 |
| 71 | MP-11 | Z | -0.046 | 4 |
| 72 | MP-12 | Z | -0.044 | 5.5 |

Member Point Loads (BLC 5 : 60 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.055 | 1.5 |
| 2 | MP-2 | X | -0.126 | 1.5 |
| 3 | MP-2 | X | -0.02 | 2.5 |
| 4 | MP-2 | X | -0.03 | 2.5 |
| 5 | MP-3 | X | -0.035 | 1.5 |
| 6 | MP-4 | X | -0.035 | 1.5 |
| 7 | MP-4 | X | -0.009 | 2.5 |
| 8 | MP-4 | X | -0.004 | 3.5 |
| 9 | MP-5 | X | -0.051 | 1.5 |
| 10 | MP-6 | X | -0.099 | 1.5 |
| 11 | MP-6 | X | -0.015 | 2.5 |
| 12 | MP-6 | X | -0.028 | 2.5 |
| 13 | MP-7 | X | -0.028 | 1.5 |
| 14 | MP-8 | X | -0.024 | 1.5 |
| 15 | MP-8 | X | -0.016 | 2.5 |
| 16 | MP-8 | X | -0.003 | 3.5 |
| 17 | MP-9 | X | -0.051 | 1.5 |
| 18 | MP-10 | X | -0.099 | 1.5 |
| 19 | MP-10 | X | -0.015 | 2.5 |
| 20 | MP-10 | X | -0.028 | 2.5 |
| 21 | MP-11 | X | -0.028 | 1.5 |
| 22 | MP-12 | X | -0.024 | 1.5 |



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 23 | MP-12 | X | -0.16 | 2.5 |
| 24 | MP-12 | X | -0.003 | 3.5 |
| 25 | MP-1 | X | -0.055 | 4.5 |
| 26 | MP-2 | X | -0.126 | 7.5 |
| 27 | MP-3 | X | -0.035 | 4 |
| 28 | MP-4 | X | -0.035 | 5.5 |
| 29 | MP-5 | X | -0.051 | 4.5 |
| 30 | MP-6 | X | -0.099 | 7.5 |
| 31 | MP-7 | X | -0.028 | 4 |
| 32 | MP-8 | X | -0.024 | 5.5 |
| 33 | MP-9 | X | -0.051 | 4.5 |
| 34 | MP-10 | X | -0.099 | 7.5 |
| 35 | MP-11 | X | -0.028 | 4 |
| 36 | MP-12 | X | -0.024 | 5.5 |
| 37 | MP-1 | Z | -0.096 | 1.5 |
| 38 | MP-2 | Z | -0.218 | 1.5 |
| 39 | MP-2 | Z | -0.034 | 2.5 |
| 40 | MP-2 | Z | -0.052 | 2.5 |
| 41 | MP-3 | Z | -0.061 | 1.5 |
| 42 | MP-4 | Z | -0.06 | 1.5 |
| 43 | MP-4 | Z | -0.015 | 2.5 |
| 44 | MP-4 | Z | -0.008 | 3.5 |
| 45 | MP-5 | Z | -0.089 | 1.5 |
| 46 | MP-6 | Z | -0.172 | 1.5 |
| 47 | MP-6 | Z | -0.026 | 2.5 |
| 48 | MP-6 | Z | -0.049 | 2.5 |
| 49 | MP-7 | Z | -0.048 | 1.5 |
| 50 | MP-8 | Z | -0.042 | 1.5 |
| 51 | MP-8 | Z | -0.027 | 2.5 |
| 52 | MP-8 | Z | -0.006 | 3.5 |
| 53 | MP-9 | Z | -0.089 | 1.5 |
| 54 | MP-10 | Z | -0.172 | 1.5 |
| 55 | MP-10 | Z | -0.026 | 2.5 |
| 56 | MP-10 | Z | -0.049 | 2.5 |
| 57 | MP-11 | Z | -0.048 | 1.5 |
| 58 | MP-12 | Z | -0.042 | 1.5 |
| 59 | MP-12 | Z | -0.027 | 2.5 |
| 60 | MP-12 | Z | -0.006 | 3.5 |
| 61 | MP-1 | Z | -0.096 | 4.5 |
| 62 | MP-2 | Z | -0.218 | 7.5 |
| 63 | MP-3 | Z | -0.061 | 4 |
| 64 | MP-4 | Z | -0.06 | 5.5 |
| 65 | MP-5 | Z | -0.089 | 4.5 |
| 66 | MP-6 | Z | -0.172 | 7.5 |
| 67 | MP-7 | Z | -0.048 | 4 |
| 68 | MP-8 | Z | -0.042 | 5.5 |
| 69 | MP-9 | Z | -0.089 | 4.5 |
| 70 | MP-10 | Z | -0.172 | 7.5 |
| 71 | MP-11 | Z | -0.048 | 4 |
| 72 | MP-12 | Z | -0.042 | 5.5 |

Member Point Loads (BLC 6 : 90 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|---|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | -0.101 | 1.5 |
| 2 | MP-2 | Z | -0.191 | 1.5 |
| 3 | MP-2 | Z | -0.029 | 2.5 |



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Member Point Loads (BLC 6 : 90 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 4 | MP-2 | Z | -0.056 | 2.5 |
| 5 | MP-3 | Z | -0.053 | 1.5 |
| 6 | MP-4 | Z | -0.046 | 1.5 |
| 7 | MP-4 | Z | -0.016 | 2.5 |
| 8 | MP-4 | Z | -0.007 | 3.5 |
| 9 | MP-5 | Z | -0.106 | 1.5 |
| 10 | MP-6 | Z | -0.219 | 1.5 |
| 11 | MP-6 | Z | -0.034 | 2.5 |
| 12 | MP-6 | Z | -0.058 | 2.5 |
| 13 | MP-7 | Z | -0.061 | 1.5 |
| 14 | MP-8 | Z | -0.057 | 1.5 |
| 15 | MP-8 | Z | -0.033 | 2.5 |
| 16 | MP-8 | Z | -0.008 | 3.5 |
| 17 | MP-9 | Z | -0.106 | 1.5 |
| 18 | MP-10 | Z | -0.219 | 1.5 |
| 19 | MP-10 | Z | -0.034 | 2.5 |
| 20 | MP-10 | Z | -0.058 | 2.5 |
| 21 | MP-11 | Z | -0.061 | 1.5 |
| 22 | MP-12 | Z | -0.057 | 1.5 |
| 23 | MP-12 | Z | -0.033 | 2.5 |
| 24 | MP-12 | Z | -0.008 | 3.5 |
| 25 | MP-1 | Z | -0.101 | 4.5 |
| 26 | MP-2 | Z | -0.191 | 7.5 |
| 27 | MP-3 | Z | -0.053 | 4 |
| 28 | MP-4 | Z | -0.046 | 5.5 |
| 29 | MP-5 | Z | -0.106 | 4.5 |
| 30 | MP-6 | Z | -0.219 | 7.5 |
| 31 | MP-7 | Z | -0.061 | 4 |
| 32 | MP-8 | Z | -0.057 | 5.5 |
| 33 | MP-9 | Z | -0.106 | 4.5 |
| 34 | MP-10 | Z | -0.219 | 7.5 |
| 35 | MP-11 | Z | -0.061 | 4 |
| 36 | MP-12 | Z | -0.057 | 5.5 |

Member Point Loads (BLC 7 : 120 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .055 | 1.5 |
| 2 | MP-2 | X | .126 | 1.5 |
| 3 | MP-2 | X | .02 | 2.5 |
| 4 | MP-2 | X | .03 | 2.5 |
| 5 | MP-3 | X | .035 | 1.5 |
| 6 | MP-4 | X | .035 | 1.5 |
| 7 | MP-4 | X | .009 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .062 | 1.5 |
| 10 | MP-6 | X | .167 | 1.5 |
| 11 | MP-6 | X | .027 | 2.5 |
| 12 | MP-6 | X | .032 | 2.5 |
| 13 | MP-7 | X | .047 | 1.5 |
| 14 | MP-8 | X | .051 | 1.5 |
| 15 | MP-8 | X | .02 | 2.5 |
| 16 | MP-8 | X | .006 | 3.5 |
| 17 | MP-9 | X | .062 | 1.5 |
| 18 | MP-10 | X | .167 | 1.5 |
| 19 | MP-10 | X | .027 | 2.5 |
| 20 | MP-10 | X | .032 | 2.5 |



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 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 21 | MP-11 | X | .047 | 1.5 |
| 22 | MP-12 | X | .051 | 1.5 |
| 23 | MP-12 | X | .02 | 2.5 |
| 24 | MP-12 | X | .006 | 3.5 |
| 25 | MP-1 | X | .055 | 4.5 |
| 26 | MP-2 | X | .126 | 7.5 |
| 27 | MP-3 | X | .035 | 4 |
| 28 | MP-4 | X | .035 | 5.5 |
| 29 | MP-5 | X | .062 | 4.5 |
| 30 | MP-6 | X | .167 | 7.5 |
| 31 | MP-7 | X | .047 | 4 |
| 32 | MP-8 | X | .051 | 5.5 |
| 33 | MP-9 | X | .062 | 4.5 |
| 34 | MP-10 | X | .167 | 7.5 |
| 35 | MP-11 | X | .047 | 4 |
| 36 | MP-12 | X | .051 | 5.5 |
| 37 | MP-1 | Z | -.096 | 1.5 |
| 38 | MP-2 | Z | -.218 | 1.5 |
| 39 | MP-2 | Z | -.034 | 2.5 |
| 40 | MP-2 | Z | -.052 | 2.5 |
| 41 | MP-3 | Z | -.061 | 1.5 |
| 42 | MP-4 | Z | -.06 | 1.5 |
| 43 | MP-4 | Z | -.015 | 2.5 |
| 44 | MP-4 | Z | -.008 | 3.5 |
| 45 | MP-5 | Z | -.107 | 1.5 |
| 46 | MP-6 | Z | -.289 | 1.5 |
| 47 | MP-6 | Z | -.046 | 2.5 |
| 48 | MP-6 | Z | -.056 | 2.5 |
| 49 | MP-7 | Z | -.081 | 1.5 |
| 50 | MP-8 | Z | -.088 | 1.5 |
| 51 | MP-8 | Z | -.036 | 2.5 |
| 52 | MP-8 | Z | -.01 | 3.5 |
| 53 | MP-9 | Z | -.107 | 1.5 |
| 54 | MP-10 | Z | -.289 | 1.5 |
| 55 | MP-10 | Z | -.046 | 2.5 |
| 56 | MP-10 | Z | -.056 | 2.5 |
| 57 | MP-11 | Z | -.081 | 1.5 |
| 58 | MP-12 | Z | -.088 | 1.5 |
| 59 | MP-12 | Z | -.036 | 2.5 |
| 60 | MP-12 | Z | -.01 | 3.5 |
| 61 | MP-1 | Z | -.096 | 4.5 |
| 62 | MP-2 | Z | -.218 | 7.5 |
| 63 | MP-3 | Z | -.061 | 4 |
| 64 | MP-4 | Z | -.06 | 5.5 |
| 65 | MP-5 | Z | -.107 | 4.5 |
| 66 | MP-6 | Z | -.289 | 7.5 |
| 67 | MP-7 | Z | -.081 | 4 |
| 68 | MP-8 | Z | -.088 | 5.5 |
| 69 | MP-9 | Z | -.107 | 4.5 |
| 70 | MP-10 | Z | -.289 | 7.5 |
| 71 | MP-11 | Z | -.081 | 4 |
| 72 | MP-12 | Z | -.088 | 5.5 |

Member Point Loads (BLC 8 : 135 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location(ft.%) |
|---|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .085 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 2 | MP-2 | X | .221 | 1.5 |
| 3 | MP-2 | X | .035 | 2.5 |
| 4 | MP-2 | X | .045 | 2.5 |
| 5 | MP-3 | X | .062 | 1.5 |
| 6 | MP-4 | X | .066 | 1.5 |
| 7 | MP-4 | X | .014 | 2.5 |
| 8 | MP-4 | X | .008 | 3.5 |
| 9 | MP-5 | X | .094 | 1.5 |
| 10 | MP-6 | X | .276 | 1.5 |
| 11 | MP-6 | X | .045 | 2.5 |
| 12 | MP-6 | X | .048 | 2.5 |
| 13 | MP-7 | X | .078 | 1.5 |
| 14 | MP-8 | X | .088 | 1.5 |
| 15 | MP-8 | X | .032 | 2.5 |
| 16 | MP-8 | X | .01 | 3.5 |
| 17 | MP-9 | X | .094 | 1.5 |
| 18 | MP-10 | X | .276 | 1.5 |
| 19 | MP-10 | X | .045 | 2.5 |
| 20 | MP-10 | X | .048 | 2.5 |
| 21 | MP-11 | X | .078 | 1.5 |
| 22 | MP-12 | X | .088 | 1.5 |
| 23 | MP-12 | X | .032 | 2.5 |
| 24 | MP-12 | X | .01 | 3.5 |
| 25 | MP-1 | X | .085 | 4.5 |
| 26 | MP-2 | X | .221 | 7.5 |
| 27 | MP-3 | X | .062 | 4 |
| 28 | MP-4 | X | .066 | 5.5 |
| 29 | MP-5 | X | .094 | 4.5 |
| 30 | MP-6 | X | .276 | 7.5 |
| 31 | MP-7 | X | .078 | 4 |
| 32 | MP-8 | X | .088 | 5.5 |
| 33 | MP-9 | X | .094 | 4.5 |
| 34 | MP-10 | X | .276 | 7.5 |
| 35 | MP-11 | X | .078 | 4 |
| 36 | MP-12 | X | .088 | 5.5 |
| 37 | MP-1 | Z | -.085 | 1.5 |
| 38 | MP-2 | Z | -.221 | 1.5 |
| 39 | MP-2 | Z | -.035 | 2.5 |
| 40 | MP-2 | Z | -.045 | 2.5 |
| 41 | MP-3 | Z | -.062 | 1.5 |
| 42 | MP-4 | Z | -.066 | 1.5 |
| 43 | MP-4 | Z | -.014 | 2.5 |
| 44 | MP-4 | Z | -.008 | 3.5 |
| 45 | MP-5 | Z | -.094 | 1.5 |
| 46 | MP-6 | Z | -.276 | 1.5 |
| 47 | MP-6 | Z | -.045 | 2.5 |
| 48 | MP-6 | Z | -.048 | 2.5 |
| 49 | MP-7 | Z | -.078 | 1.5 |
| 50 | MP-8 | Z | -.088 | 1.5 |
| 51 | MP-8 | Z | -.032 | 2.5 |
| 52 | MP-8 | Z | -.01 | 3.5 |
| 53 | MP-9 | Z | -.094 | 1.5 |
| 54 | MP-10 | Z | -.276 | 1.5 |
| 55 | MP-10 | Z | -.045 | 2.5 |
| 56 | MP-10 | Z | -.048 | 2.5 |
| 57 | MP-11 | Z | -.078 | 1.5 |
| 58 | MP-12 | Z | -.088 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 59 | MP-12 | Z | -0.32 | 2.5 |
| 60 | MP-12 | Z | -.01 | 3.5 |
| 61 | MP-1 | Z | -.085 | 4.5 |
| 62 | MP-2 | Z | -.221 | 7.5 |
| 63 | MP-3 | Z | -.062 | 4 |
| 64 | MP-4 | Z | -.066 | 5.5 |
| 65 | MP-5 | Z | -.094 | 4.5 |
| 66 | MP-6 | Z | -.276 | 7.5 |
| 67 | MP-7 | Z | -.078 | 4 |
| 68 | MP-8 | Z | -.088 | 5.5 |
| 69 | MP-9 | Z | -.094 | 4.5 |
| 70 | MP-10 | Z | -.276 | 7.5 |
| 71 | MP-11 | Z | -.078 | 4 |
| 72 | MP-12 | Z | -.088 | 5.5 |

Member Point Loads (BLC 9 : 150 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .113 | 1.5 |
| 2 | MP-2 | X | .323 | 1.5 |
| 3 | MP-2 | X | .052 | 2.5 |
| 4 | MP-2 | X | .058 | 2.5 |
| 5 | MP-3 | X | .091 | 1.5 |
| 6 | MP-4 | X | .102 | 1.5 |
| 7 | MP-4 | X | .019 | 2.5 |
| 8 | MP-4 | X | .011 | 3.5 |
| 9 | MP-5 | X | .12 | 1.5 |
| 10 | MP-6 | X | .37 | 1.5 |
| 11 | MP-6 | X | .06 | 2.5 |
| 12 | MP-6 | X | .061 | 2.5 |
| 13 | MP-7 | X | .104 | 1.5 |
| 14 | MP-8 | X | .12 | 1.5 |
| 15 | MP-8 | X | .041 | 2.5 |
| 16 | MP-8 | X | .013 | 3.5 |
| 17 | MP-9 | X | .12 | 1.5 |
| 18 | MP-10 | X | .37 | 1.5 |
| 19 | MP-10 | X | .06 | 2.5 |
| 20 | MP-10 | X | .061 | 2.5 |
| 21 | MP-11 | X | .104 | 1.5 |
| 22 | MP-12 | X | .12 | 1.5 |
| 23 | MP-12 | X | .041 | 2.5 |
| 24 | MP-12 | X | .013 | 3.5 |
| 25 | MP-1 | X | .113 | 4.5 |
| 26 | MP-2 | X | .323 | 7.5 |
| 27 | MP-3 | X | .091 | 4 |
| 28 | MP-4 | X | .102 | 5.5 |
| 29 | MP-5 | X | .12 | 4.5 |
| 30 | MP-6 | X | .37 | 7.5 |
| 31 | MP-7 | X | .104 | 4 |
| 32 | MP-8 | X | .12 | 5.5 |
| 33 | MP-9 | X | .12 | 4.5 |
| 34 | MP-10 | X | .37 | 7.5 |
| 35 | MP-11 | X | .104 | 4 |
| 36 | MP-12 | X | .12 | 5.5 |
| 37 | MP-1 | Z | -.065 | 1.5 |
| 38 | MP-2 | Z | -.187 | 1.5 |
| 39 | MP-2 | Z | -.03 | 2.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
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Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 40 | MP-2 | Z | -.034 | 2.5 |
| 41 | MP-3 | Z | -.052 | 1.5 |
| 42 | MP-4 | Z | -.059 | 1.5 |
| 43 | MP-4 | Z | -.011 | 2.5 |
| 44 | MP-4 | Z | -.006 | 3.5 |
| 45 | MP-5 | Z | -.069 | 1.5 |
| 46 | MP-6 | Z | -.214 | 1.5 |
| 47 | MP-6 | Z | -.035 | 2.5 |
| 48 | MP-6 | Z | -.035 | 2.5 |
| 49 | MP-7 | Z | -.06 | 1.5 |
| 50 | MP-8 | Z | -.069 | 1.5 |
| 51 | MP-8 | Z | -.024 | 2.5 |
| 52 | MP-8 | Z | -.007 | 3.5 |
| 53 | MP-9 | Z | -.069 | 1.5 |
| 54 | MP-10 | Z | -.214 | 1.5 |
| 55 | MP-10 | Z | -.035 | 2.5 |
| 56 | MP-10 | Z | -.035 | 2.5 |
| 57 | MP-11 | Z | -.06 | 1.5 |
| 58 | MP-12 | Z | -.069 | 1.5 |
| 59 | MP-12 | Z | -.024 | 2.5 |
| 60 | MP-12 | Z | -.007 | 3.5 |
| 61 | MP-1 | Z | -.065 | 4.5 |
| 62 | MP-2 | Z | -.187 | 7.5 |
| 63 | MP-3 | Z | -.052 | 4 |
| 64 | MP-4 | Z | -.059 | 5.5 |
| 65 | MP-5 | Z | -.069 | 4.5 |
| 66 | MP-6 | Z | -.214 | 7.5 |
| 67 | MP-7 | Z | -.06 | 4 |
| 68 | MP-8 | Z | -.069 | 5.5 |
| 69 | MP-9 | Z | -.069 | 4.5 |
| 70 | MP-10 | Z | -.214 | 7.5 |
| 71 | MP-11 | Z | -.06 | 4 |
| 72 | MP-12 | Z | -.069 | 5.5 |

Member Point Loads (BLC 10 : 180 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .14 | 1.5 |
| 2 | MP-2 | X | .434 | 1.5 |
| 3 | MP-2 | X | .071 | 2.5 |
| 4 | MP-2 | X | .071 | 2.5 |
| 5 | MP-3 | X | .122 | 1.5 |
| 6 | MP-4 | X | .141 | 1.5 |
| 7 | MP-4 | X | .024 | 2.5 |
| 8 | MP-4 | X | .015 | 3.5 |
| 9 | MP-5 | X | .135 | 1.5 |
| 10 | MP-6 | X | .406 | 1.5 |
| 11 | MP-6 | X | .066 | 2.5 |
| 12 | MP-6 | X | .069 | 2.5 |
| 13 | MP-7 | X | .114 | 1.5 |
| 14 | MP-8 | X | .13 | 1.5 |
| 15 | MP-8 | X | .046 | 2.5 |
| 16 | MP-8 | X | .014 | 3.5 |
| 17 | MP-9 | X | .135 | 1.5 |
| 18 | MP-10 | X | .406 | 1.5 |
| 19 | MP-10 | X | .066 | 2.5 |
| 20 | MP-10 | X | .069 | 2.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
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Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 21 | MP-11 | X | .114 | 1.5 |
| 22 | MP-12 | X | .13 | 1.5 |
| 23 | MP-12 | X | .046 | 2.5 |
| 24 | MP-12 | X | .014 | 3.5 |
| 25 | MP-1 | X | .14 | 4.5 |
| 26 | MP-2 | X | .434 | 7.5 |
| 27 | MP-3 | X | .122 | 4 |
| 28 | MP-4 | X | .141 | 5.5 |
| 29 | MP-5 | X | .135 | 4.5 |
| 30 | MP-6 | X | .406 | 7.5 |
| 31 | MP-7 | X | .114 | 4 |
| 32 | MP-8 | X | .13 | 5.5 |
| 33 | MP-9 | X | .135 | 4.5 |
| 34 | MP-10 | X | .406 | 7.5 |
| 35 | MP-11 | X | .114 | 4 |
| 36 | MP-12 | X | .13 | 5.5 |

Member Point Loads (BLC 11 : 210 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .113 | 1.5 |
| 2 | MP-2 | X | .323 | 1.5 |
| 3 | MP-2 | X | .052 | 2.5 |
| 4 | MP-2 | X | .058 | 2.5 |
| 5 | MP-3 | X | .091 | 1.5 |
| 6 | MP-4 | X | .102 | 1.5 |
| 7 | MP-4 | X | .019 | 2.5 |
| 8 | MP-4 | X | .011 | 3.5 |
| 9 | MP-5 | X | .101 | 1.5 |
| 10 | MP-6 | X | .252 | 1.5 |
| 11 | MP-6 | X | .04 | 2.5 |
| 12 | MP-6 | X | .054 | 2.5 |
| 13 | MP-7 | X | .071 | 1.5 |
| 14 | MP-8 | X | .074 | 1.5 |
| 15 | MP-8 | X | .033 | 2.5 |
| 16 | MP-8 | X | .009 | 3.5 |
| 17 | MP-9 | X | .101 | 1.5 |
| 18 | MP-10 | X | .252 | 1.5 |
| 19 | MP-10 | X | .04 | 2.5 |
| 20 | MP-10 | X | .054 | 2.5 |
| 21 | MP-11 | X | .071 | 1.5 |
| 22 | MP-12 | X | .074 | 1.5 |
| 23 | MP-12 | X | .033 | 2.5 |
| 24 | MP-12 | X | .009 | 3.5 |
| 25 | MP-1 | X | .113 | 4.5 |
| 26 | MP-2 | X | .323 | 7.5 |
| 27 | MP-3 | X | .091 | 4 |
| 28 | MP-4 | X | .102 | 5.5 |
| 29 | MP-5 | X | .101 | 4.5 |
| 30 | MP-6 | X | .252 | 7.5 |
| 31 | MP-7 | X | .071 | 4 |
| 32 | MP-8 | X | .074 | 5.5 |
| 33 | MP-9 | X | .101 | 4.5 |
| 34 | MP-10 | X | .252 | 7.5 |
| 35 | MP-11 | X | .071 | 4 |
| 36 | MP-12 | X | .074 | 5.5 |
| 37 | MP-1 | Z | .065 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 38 | MP-2 | Z | .187 | 1.5 |
| 39 | MP-2 | Z | .03 | 2.5 |
| 40 | MP-2 | Z | .034 | 2.5 |
| 41 | MP-3 | Z | .052 | 1.5 |
| 42 | MP-4 | Z | .059 | 1.5 |
| 43 | MP-4 | Z | .011 | 2.5 |
| 44 | MP-4 | Z | .006 | 3.5 |
| 45 | MP-5 | Z | .059 | 1.5 |
| 46 | MP-6 | Z | .146 | 1.5 |
| 47 | MP-6 | Z | .023 | 2.5 |
| 48 | MP-6 | Z | .031 | 2.5 |
| 49 | MP-7 | Z | .041 | 1.5 |
| 50 | MP-8 | Z | .043 | 1.5 |
| 51 | MP-8 | Z | .019 | 2.5 |
| 52 | MP-8 | Z | .005 | 3.5 |
| 53 | MP-9 | Z | .059 | 1.5 |
| 54 | MP-10 | Z | .146 | 1.5 |
| 55 | MP-10 | Z | .023 | 2.5 |
| 56 | MP-10 | Z | .031 | 2.5 |
| 57 | MP-11 | Z | .041 | 1.5 |
| 58 | MP-12 | Z | .043 | 1.5 |
| 59 | MP-12 | Z | .019 | 2.5 |
| 60 | MP-12 | Z | .005 | 3.5 |
| 61 | MP-1 | Z | .065 | 4.5 |
| 62 | MP-2 | Z | .187 | 7.5 |
| 63 | MP-3 | Z | .052 | 4 |
| 64 | MP-4 | Z | .059 | 5.5 |
| 65 | MP-5 | Z | .059 | 4.5 |
| 66 | MP-6 | Z | .146 | 7.5 |
| 67 | MP-7 | Z | .041 | 4 |
| 68 | MP-8 | Z | .043 | 5.5 |
| 69 | MP-9 | Z | .059 | 4.5 |
| 70 | MP-10 | Z | .146 | 7.5 |
| 71 | MP-11 | Z | .041 | 4 |
| 72 | MP-12 | Z | .043 | 5.5 |

Member Point Loads (BLC 12 : 225 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .085 | 1.5 |
| 2 | MP-2 | X | .221 | 1.5 |
| 3 | MP-2 | X | .035 | 2.5 |
| 4 | MP-2 | X | .045 | 2.5 |
| 5 | MP-3 | X | .062 | 1.5 |
| 6 | MP-4 | X | .066 | 1.5 |
| 7 | MP-4 | X | .014 | 2.5 |
| 8 | MP-4 | X | .008 | 3.5 |
| 9 | MP-5 | X | .076 | 1.5 |
| 10 | MP-6 | X | .166 | 1.5 |
| 11 | MP-6 | X | .026 | 2.5 |
| 12 | MP-6 | X | .042 | 2.5 |
| 13 | MP-7 | X | .046 | 1.5 |
| 14 | MP-8 | X | .044 | 1.5 |
| 15 | MP-8 | X | .024 | 2.5 |
| 16 | MP-8 | X | .006 | 3.5 |
| 17 | MP-9 | X | .076 | 1.5 |
| 18 | MP-10 | X | .166 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 19 | MP-10 | X | .026 | 2.5 |
| 20 | MP-10 | X | .042 | 2.5 |
| 21 | MP-11 | X | .046 | 1.5 |
| 22 | MP-12 | X | .044 | 1.5 |
| 23 | MP-12 | X | .024 | 2.5 |
| 24 | MP-12 | X | .006 | 3.5 |
| 25 | MP-1 | X | .085 | 4.5 |
| 26 | MP-2 | X | .221 | 7.5 |
| 27 | MP-3 | X | .062 | 4 |
| 28 | MP-4 | X | .066 | 5.5 |
| 29 | MP-5 | X | .076 | 4.5 |
| 30 | MP-6 | X | .166 | 7.5 |
| 31 | MP-7 | X | .046 | 4 |
| 32 | MP-8 | X | .044 | 5.5 |
| 33 | MP-9 | X | .076 | 4.5 |
| 34 | MP-10 | X | .166 | 7.5 |
| 35 | MP-11 | X | .046 | 4 |
| 36 | MP-12 | X | .044 | 5.5 |
| 37 | MP-1 | Z | .085 | 1.5 |
| 38 | MP-2 | Z | .221 | 1.5 |
| 39 | MP-2 | Z | .035 | 2.5 |
| 40 | MP-2 | Z | .045 | 2.5 |
| 41 | MP-3 | Z | .062 | 1.5 |
| 42 | MP-4 | Z | .066 | 1.5 |
| 43 | MP-4 | Z | .014 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .076 | 1.5 |
| 46 | MP-6 | Z | .166 | 1.5 |
| 47 | MP-6 | Z | .026 | 2.5 |
| 48 | MP-6 | Z | .042 | 2.5 |
| 49 | MP-7 | Z | .046 | 1.5 |
| 50 | MP-8 | Z | .044 | 1.5 |
| 51 | MP-8 | Z | .024 | 2.5 |
| 52 | MP-8 | Z | .006 | 3.5 |
| 53 | MP-9 | Z | .076 | 1.5 |
| 54 | MP-10 | Z | .166 | 1.5 |
| 55 | MP-10 | Z | .026 | 2.5 |
| 56 | MP-10 | Z | .042 | 2.5 |
| 57 | MP-11 | Z | .046 | 1.5 |
| 58 | MP-12 | Z | .044 | 1.5 |
| 59 | MP-12 | Z | .024 | 2.5 |
| 60 | MP-12 | Z | .006 | 3.5 |
| 61 | MP-1 | Z | .085 | 4.5 |
| 62 | MP-2 | Z | .221 | 7.5 |
| 63 | MP-3 | Z | .062 | 4 |
| 64 | MP-4 | Z | .066 | 5.5 |
| 65 | MP-5 | Z | .076 | 4.5 |
| 66 | MP-6 | Z | .166 | 7.5 |
| 67 | MP-7 | Z | .046 | 4 |
| 68 | MP-8 | Z | .044 | 5.5 |
| 69 | MP-9 | Z | .076 | 4.5 |
| 70 | MP-10 | Z | .166 | 7.5 |
| 71 | MP-11 | Z | .046 | 4 |
| 72 | MP-12 | Z | .044 | 5.5 |

Member Point Loads (BLC 13 : 240 Wind - No Ice)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|--------------|-----------|-------------------|----------------|
|--------------|-----------|-------------------|----------------|



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .055 | 1.5 |
| 2 | MP-2 | X | .126 | 1.5 |
| 3 | MP-2 | X | .02 | 2.5 |
| 4 | MP-2 | X | .03 | 2.5 |
| 5 | MP-3 | X | .035 | 1.5 |
| 6 | MP-4 | X | .035 | 1.5 |
| 7 | MP-4 | X | .009 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .051 | 1.5 |
| 10 | MP-6 | X | .099 | 1.5 |
| 11 | MP-6 | X | .015 | 2.5 |
| 12 | MP-6 | X | .028 | 2.5 |
| 13 | MP-7 | X | .028 | 1.5 |
| 14 | MP-8 | X | .024 | 1.5 |
| 15 | MP-8 | X | .016 | 2.5 |
| 16 | MP-8 | X | .003 | 3.5 |
| 17 | MP-9 | X | .051 | 1.5 |
| 18 | MP-10 | X | .099 | 1.5 |
| 19 | MP-10 | X | .015 | 2.5 |
| 20 | MP-10 | X | .028 | 2.5 |
| 21 | MP-11 | X | .028 | 1.5 |
| 22 | MP-12 | X | .024 | 1.5 |
| 23 | MP-12 | X | .016 | 2.5 |
| 24 | MP-12 | X | .003 | 3.5 |
| 25 | MP-1 | X | .055 | 4.5 |
| 26 | MP-2 | X | .126 | 7.5 |
| 27 | MP-3 | X | .035 | 4 |
| 28 | MP-4 | X | .035 | 5.5 |
| 29 | MP-5 | X | .051 | 4.5 |
| 30 | MP-6 | X | .099 | 7.5 |
| 31 | MP-7 | X | .028 | 4 |
| 32 | MP-8 | X | .024 | 5.5 |
| 33 | MP-9 | X | .051 | 4.5 |
| 34 | MP-10 | X | .099 | 7.5 |
| 35 | MP-11 | X | .028 | 4 |
| 36 | MP-12 | X | .024 | 5.5 |
| 37 | MP-1 | Z | .096 | 1.5 |
| 38 | MP-2 | Z | .218 | 1.5 |
| 39 | MP-2 | Z | .034 | 2.5 |
| 40 | MP-2 | Z | .052 | 2.5 |
| 41 | MP-3 | Z | .061 | 1.5 |
| 42 | MP-4 | Z | .06 | 1.5 |
| 43 | MP-4 | Z | .015 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .089 | 1.5 |
| 46 | MP-6 | Z | .172 | 1.5 |
| 47 | MP-6 | Z | .026 | 2.5 |
| 48 | MP-6 | Z | .049 | 2.5 |
| 49 | MP-7 | Z | .048 | 1.5 |
| 50 | MP-8 | Z | .042 | 1.5 |
| 51 | MP-8 | Z | .027 | 2.5 |
| 52 | MP-8 | Z | .006 | 3.5 |
| 53 | MP-9 | Z | .089 | 1.5 |
| 54 | MP-10 | Z | .172 | 1.5 |
| 55 | MP-10 | Z | .026 | 2.5 |
| 56 | MP-10 | Z | .049 | 2.5 |
| 57 | MP-11 | Z | .048 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | .042 | 1.5 |
| 59 | MP-12 | Z | .027 | 2.5 |
| 60 | MP-12 | Z | .006 | 3.5 |
| 61 | MP-1 | Z | .096 | 4.5 |
| 62 | MP-2 | Z | .218 | 7.5 |
| 63 | MP-3 | Z | .061 | 4 |
| 64 | MP-4 | Z | .06 | 5.5 |
| 65 | MP-5 | Z | .089 | 4.5 |
| 66 | MP-6 | Z | .172 | 7.5 |
| 67 | MP-7 | Z | .048 | 4 |
| 68 | MP-8 | Z | .042 | 5.5 |
| 69 | MP-9 | Z | .089 | 4.5 |
| 70 | MP-10 | Z | .172 | 7.5 |
| 71 | MP-11 | Z | .048 | 4 |
| 72 | MP-12 | Z | .042 | 5.5 |

Member Point Loads (BLC 14 : 270 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | .101 | 1.5 |
| 2 | MP-2 | Z | .191 | 1.5 |
| 3 | MP-2 | Z | .029 | 2.5 |
| 4 | MP-2 | Z | .056 | 2.5 |
| 5 | MP-3 | Z | .053 | 1.5 |
| 6 | MP-4 | Z | .046 | 1.5 |
| 7 | MP-4 | Z | .016 | 2.5 |
| 8 | MP-4 | Z | .007 | 3.5 |
| 9 | MP-5 | Z | .106 | 1.5 |
| 10 | MP-6 | Z | .219 | 1.5 |
| 11 | MP-6 | Z | .034 | 2.5 |
| 12 | MP-6 | Z | .058 | 2.5 |
| 13 | MP-7 | Z | .061 | 1.5 |
| 14 | MP-8 | Z | .057 | 1.5 |
| 15 | MP-8 | Z | .033 | 2.5 |
| 16 | MP-8 | Z | .008 | 3.5 |
| 17 | MP-9 | Z | .106 | 1.5 |
| 18 | MP-10 | Z | .219 | 1.5 |
| 19 | MP-10 | Z | .034 | 2.5 |
| 20 | MP-10 | Z | .058 | 2.5 |
| 21 | MP-11 | Z | .061 | 1.5 |
| 22 | MP-12 | Z | .057 | 1.5 |
| 23 | MP-12 | Z | .033 | 2.5 |
| 24 | MP-12 | Z | .008 | 3.5 |
| 25 | MP-1 | Z | .101 | 4.5 |
| 26 | MP-2 | Z | .191 | 7.5 |
| 27 | MP-3 | Z | .053 | 4 |
| 28 | MP-4 | Z | .046 | 5.5 |
| 29 | MP-5 | Z | .106 | 4.5 |
| 30 | MP-6 | Z | .219 | 7.5 |
| 31 | MP-7 | Z | .061 | 4 |
| 32 | MP-8 | Z | .057 | 5.5 |
| 33 | MP-9 | Z | .106 | 4.5 |
| 34 | MP-10 | Z | .219 | 7.5 |
| 35 | MP-11 | Z | .061 | 4 |
| 36 | MP-12 | Z | .057 | 5.5 |



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Member Point Loads (BLC 15 : 300 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.055 | 1.5 |
| 2 | MP-2 | X | -.126 | 1.5 |
| 3 | MP-2 | X | -.02 | 2.5 |
| 4 | MP-2 | X | -.03 | 2.5 |
| 5 | MP-3 | X | -.035 | 1.5 |
| 6 | MP-4 | X | -.035 | 1.5 |
| 7 | MP-4 | X | -.009 | 2.5 |
| 8 | MP-4 | X | -.004 | 3.5 |
| 9 | MP-5 | X | -.062 | 1.5 |
| 10 | MP-6 | X | -.167 | 1.5 |
| 11 | MP-6 | X | -.027 | 2.5 |
| 12 | MP-6 | X | -.032 | 2.5 |
| 13 | MP-7 | X | -.047 | 1.5 |
| 14 | MP-8 | X | -.051 | 1.5 |
| 15 | MP-8 | X | -.02 | 2.5 |
| 16 | MP-8 | X | -.006 | 3.5 |
| 17 | MP-9 | X | -.062 | 1.5 |
| 18 | MP-10 | X | -.167 | 1.5 |
| 19 | MP-10 | X | -.027 | 2.5 |
| 20 | MP-10 | X | -.032 | 2.5 |
| 21 | MP-11 | X | -.047 | 1.5 |
| 22 | MP-12 | X | -.051 | 1.5 |
| 23 | MP-12 | X | -.02 | 2.5 |
| 24 | MP-12 | X | -.006 | 3.5 |
| 25 | MP-1 | X | -.055 | 4.5 |
| 26 | MP-2 | X | -.126 | 7.5 |
| 27 | MP-3 | X | -.035 | 4 |
| 28 | MP-4 | X | -.035 | 5.5 |
| 29 | MP-5 | X | -.062 | 4.5 |
| 30 | MP-6 | X | -.167 | 7.5 |
| 31 | MP-7 | X | -.047 | 4 |
| 32 | MP-8 | X | -.051 | 5.5 |
| 33 | MP-9 | X | -.062 | 4.5 |
| 34 | MP-10 | X | -.167 | 7.5 |
| 35 | MP-11 | X | -.047 | 4 |
| 36 | MP-12 | X | -.051 | 5.5 |
| 37 | MP-1 | Z | .096 | 1.5 |
| 38 | MP-2 | Z | .218 | 1.5 |
| 39 | MP-2 | Z | .034 | 2.5 |
| 40 | MP-2 | Z | .052 | 2.5 |
| 41 | MP-3 | Z | .061 | 1.5 |
| 42 | MP-4 | Z | .06 | 1.5 |
| 43 | MP-4 | Z | .015 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .107 | 1.5 |
| 46 | MP-6 | Z | .289 | 1.5 |
| 47 | MP-6 | Z | .046 | 2.5 |
| 48 | MP-6 | Z | .056 | 2.5 |
| 49 | MP-7 | Z | .081 | 1.5 |
| 50 | MP-8 | Z | .088 | 1.5 |
| 51 | MP-8 | Z | .036 | 2.5 |
| 52 | MP-8 | Z | .01 | 3.5 |
| 53 | MP-9 | Z | .107 | 1.5 |
| 54 | MP-10 | Z | .289 | 1.5 |
| 55 | MP-10 | Z | .046 | 2.5 |
| 56 | MP-10 | Z | .056 | 2.5 |
| 57 | MP-11 | Z | .081 | 1.5 |



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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | .088 | 1.5 |
| 59 | MP-12 | Z | .036 | 2.5 |
| 60 | MP-12 | Z | .01 | 3.5 |
| 61 | MP-1 | Z | .096 | 4.5 |
| 62 | MP-2 | Z | .218 | 7.5 |
| 63 | MP-3 | Z | .061 | 4 |
| 64 | MP-4 | Z | .06 | 5.5 |
| 65 | MP-5 | Z | .107 | 4.5 |
| 66 | MP-6 | Z | .289 | 7.5 |
| 67 | MP-7 | Z | .081 | 4 |
| 68 | MP-8 | Z | .088 | 5.5 |
| 69 | MP-9 | Z | .107 | 4.5 |
| 70 | MP-10 | Z | .289 | 7.5 |
| 71 | MP-11 | Z | .081 | 4 |
| 72 | MP-12 | Z | .088 | 5.5 |

Member Point Loads (BLC 16 : 315 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.085 | 1.5 |
| 2 | MP-2 | X | -.221 | 1.5 |
| 3 | MP-2 | X | -.035 | 2.5 |
| 4 | MP-2 | X | -.045 | 2.5 |
| 5 | MP-3 | X | -.062 | 1.5 |
| 6 | MP-4 | X | -.066 | 1.5 |
| 7 | MP-4 | X | -.014 | 2.5 |
| 8 | MP-4 | X | -.008 | 3.5 |
| 9 | MP-5 | X | -.094 | 1.5 |
| 10 | MP-6 | X | -.276 | 1.5 |
| 11 | MP-6 | X | -.045 | 2.5 |
| 12 | MP-6 | X | -.048 | 2.5 |
| 13 | MP-7 | X | -.078 | 1.5 |
| 14 | MP-8 | X | -.088 | 1.5 |
| 15 | MP-8 | X | -.032 | 2.5 |
| 16 | MP-8 | X | -.01 | 3.5 |
| 17 | MP-9 | X | -.094 | 1.5 |
| 18 | MP-10 | X | -.276 | 1.5 |
| 19 | MP-10 | X | -.045 | 2.5 |
| 20 | MP-10 | X | -.048 | 2.5 |
| 21 | MP-11 | X | -.078 | 1.5 |
| 22 | MP-12 | X | -.088 | 1.5 |
| 23 | MP-12 | X | -.032 | 2.5 |
| 24 | MP-12 | X | -.01 | 3.5 |
| 25 | MP-1 | X | -.085 | 4.5 |
| 26 | MP-2 | X | -.221 | 7.5 |
| 27 | MP-3 | X | -.062 | 4 |
| 28 | MP-4 | X | -.066 | 5.5 |
| 29 | MP-5 | X | -.094 | 4.5 |
| 30 | MP-6 | X | -.276 | 7.5 |
| 31 | MP-7 | X | -.078 | 4 |
| 32 | MP-8 | X | -.088 | 5.5 |
| 33 | MP-9 | X | -.094 | 4.5 |
| 34 | MP-10 | X | -.276 | 7.5 |
| 35 | MP-11 | X | -.078 | 4 |
| 36 | MP-12 | X | -.088 | 5.5 |
| 37 | MP-1 | Z | .085 | 1.5 |
| 38 | MP-2 | Z | .221 | 1.5 |



Company : Tower Engineering Professionals, Inc.
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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 39 | MP-2 | Z | .035 | 2.5 |
| 40 | MP-2 | Z | .045 | 2.5 |
| 41 | MP-3 | Z | .062 | 1.5 |
| 42 | MP-4 | Z | .066 | 1.5 |
| 43 | MP-4 | Z | .014 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .094 | 1.5 |
| 46 | MP-6 | Z | .276 | 1.5 |
| 47 | MP-6 | Z | .045 | 2.5 |
| 48 | MP-6 | Z | .048 | 2.5 |
| 49 | MP-7 | Z | .078 | 1.5 |
| 50 | MP-8 | Z | .088 | 1.5 |
| 51 | MP-8 | Z | .032 | 2.5 |
| 52 | MP-8 | Z | .01 | 3.5 |
| 53 | MP-9 | Z | .094 | 1.5 |
| 54 | MP-10 | Z | .276 | 1.5 |
| 55 | MP-10 | Z | .045 | 2.5 |
| 56 | MP-10 | Z | .048 | 2.5 |
| 57 | MP-11 | Z | .078 | 1.5 |
| 58 | MP-12 | Z | .088 | 1.5 |
| 59 | MP-12 | Z | .032 | 2.5 |
| 60 | MP-12 | Z | .01 | 3.5 |
| 61 | MP-1 | Z | .085 | 4.5 |
| 62 | MP-2 | Z | .221 | 7.5 |
| 63 | MP-3 | Z | .062 | 4 |
| 64 | MP-4 | Z | .066 | 5.5 |
| 65 | MP-5 | Z | .094 | 4.5 |
| 66 | MP-6 | Z | .276 | 7.5 |
| 67 | MP-7 | Z | .078 | 4 |
| 68 | MP-8 | Z | .088 | 5.5 |
| 69 | MP-9 | Z | .094 | 4.5 |
| 70 | MP-10 | Z | .276 | 7.5 |
| 71 | MP-11 | Z | .078 | 4 |
| 72 | MP-12 | Z | .088 | 5.5 |

Member Point Loads (BLC 17 : 330 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.113 | 1.5 |
| 2 | MP-2 | X | -.323 | 1.5 |
| 3 | MP-2 | X | -.052 | 2.5 |
| 4 | MP-2 | X | -.058 | 2.5 |
| 5 | MP-3 | X | -.091 | 1.5 |
| 6 | MP-4 | X | -.102 | 1.5 |
| 7 | MP-4 | X | -.019 | 2.5 |
| 8 | MP-4 | X | -.011 | 3.5 |
| 9 | MP-5 | X | -.12 | 1.5 |
| 10 | MP-6 | X | -.37 | 1.5 |
| 11 | MP-6 | X | -.06 | 2.5 |
| 12 | MP-6 | X | -.061 | 2.5 |
| 13 | MP-7 | X | -.104 | 1.5 |
| 14 | MP-8 | X | -.12 | 1.5 |
| 15 | MP-8 | X | -.041 | 2.5 |
| 16 | MP-8 | X | -.013 | 3.5 |
| 17 | MP-9 | X | -.12 | 1.5 |
| 18 | MP-10 | X | -.37 | 1.5 |
| 19 | MP-10 | X | -.06 | 2.5 |



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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 20 | MP-10 | X | -061 | 2.5 |
| 21 | MP-11 | X | -104 | 1.5 |
| 22 | MP-12 | X | -12 | 1.5 |
| 23 | MP-12 | X | -041 | 2.5 |
| 24 | MP-12 | X | -013 | 3.5 |
| 25 | MP-1 | X | -113 | 4.5 |
| 26 | MP-2 | X | -323 | 7.5 |
| 27 | MP-3 | X | -091 | 4 |
| 28 | MP-4 | X | -102 | 5.5 |
| 29 | MP-5 | X | -12 | 4.5 |
| 30 | MP-6 | X | -37 | 7.5 |
| 31 | MP-7 | X | -104 | 4 |
| 32 | MP-8 | X | -12 | 5.5 |
| 33 | MP-9 | X | -12 | 4.5 |
| 34 | MP-10 | X | -37 | 7.5 |
| 35 | MP-11 | X | -104 | 4 |
| 36 | MP-12 | X | -12 | 5.5 |
| 37 | MP-1 | Z | .065 | 1.5 |
| 38 | MP-2 | Z | .187 | 1.5 |
| 39 | MP-2 | Z | .03 | 2.5 |
| 40 | MP-2 | Z | .034 | 2.5 |
| 41 | MP-3 | Z | .052 | 1.5 |
| 42 | MP-4 | Z | .059 | 1.5 |
| 43 | MP-4 | Z | .011 | 2.5 |
| 44 | MP-4 | Z | .006 | 3.5 |
| 45 | MP-5 | Z | .069 | 1.5 |
| 46 | MP-6 | Z | .214 | 1.5 |
| 47 | MP-6 | Z | .035 | 2.5 |
| 48 | MP-6 | Z | .035 | 2.5 |
| 49 | MP-7 | Z | .06 | 1.5 |
| 50 | MP-8 | Z | .069 | 1.5 |
| 51 | MP-8 | Z | .024 | 2.5 |
| 52 | MP-8 | Z | .007 | 3.5 |
| 53 | MP-9 | Z | .069 | 1.5 |
| 54 | MP-10 | Z | .214 | 1.5 |
| 55 | MP-10 | Z | .035 | 2.5 |
| 56 | MP-10 | Z | .035 | 2.5 |
| 57 | MP-11 | Z | .06 | 1.5 |
| 58 | MP-12 | Z | .069 | 1.5 |
| 59 | MP-12 | Z | .024 | 2.5 |
| 60 | MP-12 | Z | .007 | 3.5 |
| 61 | MP-1 | Z | .065 | 4.5 |
| 62 | MP-2 | Z | .187 | 7.5 |
| 63 | MP-3 | Z | .052 | 4 |
| 64 | MP-4 | Z | .059 | 5.5 |
| 65 | MP-5 | Z | .069 | 4.5 |
| 66 | MP-6 | Z | .214 | 7.5 |
| 67 | MP-7 | Z | .06 | 4 |
| 68 | MP-8 | Z | .069 | 5.5 |
| 69 | MP-9 | Z | .069 | 4.5 |
| 70 | MP-10 | Z | .214 | 7.5 |
| 71 | MP-11 | Z | .06 | 4 |
| 72 | MP-12 | Z | .069 | 5.5 |

Member Point Loads (BLC 18 : Ice Weight)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|--|--------------|-----------|-------------------|----------------|
|--|--------------|-----------|-------------------|----------------|



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Member Point Loads (BLC 18 : Ice Weight) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Y | -074 | 1.5 |
| 2 | MP-2 | Y | -176 | 1.5 |
| 3 | MP-2 | Y | -043 | 2.5 |
| 4 | MP-2 | Y | -058 | 2.5 |
| 5 | MP-3 | Y | -063 | 1.5 |
| 6 | MP-4 | Y | -055 | 1.5 |
| 7 | MP-4 | Y | -019 | 2.5 |
| 8 | MP-4 | Y | -012 | 3.5 |
| 9 | MP-5 | Y | -074 | 1.5 |
| 10 | MP-6 | Y | -176 | 1.5 |
| 11 | MP-6 | Y | -043 | 2.5 |
| 12 | MP-6 | Y | -058 | 2.5 |
| 13 | MP-7 | Y | -063 | 1.5 |
| 14 | MP-8 | Y | -055 | 1.5 |
| 15 | MP-8 | Y | -038 | 2.5 |
| 16 | MP-8 | Y | -012 | 3.5 |
| 17 | MP-9 | Y | -074 | 1.5 |
| 18 | MP-10 | Y | -176 | 1.5 |
| 19 | MP-10 | Y | -043 | 2.5 |
| 20 | MP-10 | Y | -058 | 2.5 |
| 21 | MP-11 | Y | -063 | 1.5 |
| 22 | MP-12 | Y | -055 | 1.5 |
| 23 | MP-12 | Y | -038 | 2.5 |
| 24 | MP-12 | Y | -012 | 3.5 |
| 25 | MP-1 | Y | -074 | 4.5 |
| 26 | MP-2 | Y | -176 | 7.5 |
| 27 | MP-3 | Y | -063 | 4 |
| 28 | MP-4 | Y | -055 | 5.5 |
| 29 | MP-5 | Y | -074 | 4.5 |
| 30 | MP-6 | Y | -176 | 7.5 |
| 31 | MP-7 | Y | -063 | 4 |
| 32 | MP-8 | Y | -055 | 5.5 |
| 33 | MP-9 | Y | -074 | 4.5 |
| 34 | MP-10 | Y | -176 | 7.5 |
| 35 | MP-11 | Y | -063 | 4 |
| 36 | MP-12 | Y | -055 | 5.5 |

Member Point Loads (BLC 19 : 0 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -03 | 1.5 |
| 2 | MP-2 | X | -084 | 1.5 |
| 3 | MP-2 | X | -017 | 2.5 |
| 4 | MP-2 | X | -017 | 2.5 |
| 5 | MP-3 | X | -025 | 1.5 |
| 6 | MP-4 | X | -03 | 1.5 |
| 7 | MP-4 | X | -008 | 2.5 |
| 8 | MP-4 | X | -005 | 3.5 |
| 9 | MP-5 | X | -03 | 1.5 |
| 10 | MP-6 | X | -084 | 1.5 |
| 11 | MP-6 | X | -017 | 2.5 |
| 12 | MP-6 | X | -017 | 2.5 |
| 13 | MP-7 | X | -025 | 1.5 |
| 14 | MP-8 | X | -03 | 1.5 |
| 15 | MP-8 | X | -015 | 2.5 |
| 16 | MP-8 | X | -005 | 3.5 |
| 17 | MP-9 | X | -03 | 1.5 |



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Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 18 | MP-10 | X | -084 | 1.5 |
| 19 | MP-10 | X | -017 | 2.5 |
| 20 | MP-10 | X | -017 | 2.5 |
| 21 | MP-11 | X | -025 | 1.5 |
| 22 | MP-12 | X | -03 | 1.5 |
| 23 | MP-12 | X | -015 | 2.5 |
| 24 | MP-12 | X | -005 | 3.5 |
| 25 | MP-1 | X | -03 | 4.5 |
| 26 | MP-2 | X | -084 | 7.5 |
| 27 | MP-3 | X | -025 | 4 |
| 28 | MP-4 | X | -03 | 5.5 |
| 29 | MP-5 | X | -03 | 4.5 |
| 30 | MP-6 | X | -084 | 7.5 |
| 31 | MP-7 | X | -025 | 4 |
| 32 | MP-8 | X | -03 | 5.5 |
| 33 | MP-9 | X | -03 | 4.5 |
| 34 | MP-10 | X | -084 | 7.5 |
| 35 | MP-11 | X | -025 | 4 |
| 36 | MP-12 | X | -03 | 5.5 |

Member Point Loads (BLC 20 : 30 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -024 | 1.5 |
| 2 | MP-2 | X | -063 | 1.5 |
| 3 | MP-2 | X | -013 | 2.5 |
| 4 | MP-2 | X | -014 | 2.5 |
| 5 | MP-3 | X | -019 | 1.5 |
| 6 | MP-4 | X | -022 | 1.5 |
| 7 | MP-4 | X | -006 | 2.5 |
| 8 | MP-4 | X | -004 | 3.5 |
| 9 | MP-5 | X | -022 | 1.5 |
| 10 | MP-6 | X | -051 | 1.5 |
| 11 | MP-6 | X | -011 | 2.5 |
| 12 | MP-6 | X | -014 | 2.5 |
| 13 | MP-7 | X | -016 | 1.5 |
| 14 | MP-8 | X | -017 | 1.5 |
| 15 | MP-8 | X | -011 | 2.5 |
| 16 | MP-8 | X | -004 | 3.5 |
| 17 | MP-9 | X | -022 | 1.5 |
| 18 | MP-10 | X | -051 | 1.5 |
| 19 | MP-10 | X | -011 | 2.5 |
| 20 | MP-10 | X | -014 | 2.5 |
| 21 | MP-11 | X | -016 | 1.5 |
| 22 | MP-12 | X | -017 | 1.5 |
| 23 | MP-12 | X | -011 | 2.5 |
| 24 | MP-12 | X | -004 | 3.5 |
| 25 | MP-1 | X | -024 | 4.5 |
| 26 | MP-2 | X | -063 | 7.5 |
| 27 | MP-3 | X | -019 | 4 |
| 28 | MP-4 | X | -022 | 5.5 |
| 29 | MP-5 | X | -022 | 4.5 |
| 30 | MP-6 | X | -051 | 7.5 |
| 31 | MP-7 | X | -016 | 4 |
| 32 | MP-8 | X | -017 | 5.5 |
| 33 | MP-9 | X | -022 | 4.5 |
| 34 | MP-10 | X | -051 | 7.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 35 | MP-11 | X | -016 | 4 |
| 36 | MP-12 | X | -017 | 5.5 |
| 37 | MP-1 | Z | -014 | 1.5 |
| 38 | MP-2 | Z | -037 | 1.5 |
| 39 | MP-2 | Z | -008 | 2.5 |
| 40 | MP-2 | Z | -008 | 2.5 |
| 41 | MP-3 | Z | -011 | 1.5 |
| 42 | MP-4 | Z | -013 | 1.5 |
| 43 | MP-4 | Z | -004 | 2.5 |
| 44 | MP-4 | Z | -002 | 3.5 |
| 45 | MP-5 | Z | -013 | 1.5 |
| 46 | MP-6 | Z | -03 | 1.5 |
| 47 | MP-6 | Z | -006 | 2.5 |
| 48 | MP-6 | Z | -008 | 2.5 |
| 49 | MP-7 | Z | -009 | 1.5 |
| 50 | MP-8 | Z | -01 | 1.5 |
| 51 | MP-8 | Z | -006 | 2.5 |
| 52 | MP-8 | Z | -002 | 3.5 |
| 53 | MP-9 | Z | -013 | 1.5 |
| 54 | MP-10 | Z | -03 | 1.5 |
| 55 | MP-10 | Z | -006 | 2.5 |
| 56 | MP-10 | Z | -008 | 2.5 |
| 57 | MP-11 | Z | -009 | 1.5 |
| 58 | MP-12 | Z | -01 | 1.5 |
| 59 | MP-12 | Z | -006 | 2.5 |
| 60 | MP-12 | Z | -002 | 3.5 |
| 61 | MP-1 | Z | -014 | 4.5 |
| 62 | MP-2 | Z | -037 | 7.5 |
| 63 | MP-3 | Z | -011 | 4 |
| 64 | MP-4 | Z | -013 | 5.5 |
| 65 | MP-5 | Z | -013 | 4.5 |
| 66 | MP-6 | Z | -03 | 7.5 |
| 67 | MP-7 | Z | -009 | 4 |
| 68 | MP-8 | Z | -01 | 5.5 |
| 69 | MP-9 | Z | -013 | 4.5 |
| 70 | MP-10 | Z | -03 | 7.5 |
| 71 | MP-11 | Z | -009 | 4 |
| 72 | MP-12 | Z | -01 | 5.5 |

Member Point Loads (BLC 21 : 45 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -019 | 1.5 |
| 2 | MP-2 | X | -044 | 1.5 |
| 3 | MP-2 | X | -009 | 2.5 |
| 4 | MP-2 | X | -011 | 2.5 |
| 5 | MP-3 | X | -014 | 1.5 |
| 6 | MP-4 | X | -015 | 1.5 |
| 7 | MP-4 | X | -005 | 2.5 |
| 8 | MP-4 | X | -003 | 3.5 |
| 9 | MP-5 | X | -017 | 1.5 |
| 10 | MP-6 | X | -035 | 1.5 |
| 11 | MP-6 | X | -007 | 2.5 |
| 12 | MP-6 | X | -011 | 2.5 |
| 13 | MP-7 | X | -011 | 1.5 |
| 14 | MP-8 | X | -011 | 1.5 |
| 15 | MP-8 | X | -009 | 2.5 |



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 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 16 | MP-8 | X | -0.03 | 3.5 |
| 17 | MP-9 | X | -0.17 | 1.5 |
| 18 | MP-10 | X | -0.35 | 1.5 |
| 19 | MP-10 | X | -0.07 | 2.5 |
| 20 | MP-10 | X | -0.11 | 2.5 |
| 21 | MP-11 | X | -0.11 | 1.5 |
| 22 | MP-12 | X | -0.11 | 1.5 |
| 23 | MP-12 | X | -0.09 | 2.5 |
| 24 | MP-12 | X | -0.03 | 3.5 |
| 25 | MP-1 | X | -0.19 | 4.5 |
| 26 | MP-2 | X | -0.44 | 7.5 |
| 27 | MP-3 | X | -0.14 | 4 |
| 28 | MP-4 | X | -0.15 | 5.5 |
| 29 | MP-5 | X | -0.17 | 4.5 |
| 30 | MP-6 | X | -0.35 | 7.5 |
| 31 | MP-7 | X | -0.11 | 4 |
| 32 | MP-8 | X | -0.11 | 5.5 |
| 33 | MP-9 | X | -0.17 | 4.5 |
| 34 | MP-10 | X | -0.35 | 7.5 |
| 35 | MP-11 | X | -0.11 | 4 |
| 36 | MP-12 | X | -0.11 | 5.5 |
| 37 | MP-1 | Z | -0.19 | 1.5 |
| 38 | MP-2 | Z | -0.44 | 1.5 |
| 39 | MP-2 | Z | -0.09 | 2.5 |
| 40 | MP-2 | Z | -0.11 | 2.5 |
| 41 | MP-3 | Z | -0.14 | 1.5 |
| 42 | MP-4 | Z | -0.15 | 1.5 |
| 43 | MP-4 | Z | -0.05 | 2.5 |
| 44 | MP-4 | Z | -0.03 | 3.5 |
| 45 | MP-5 | Z | -0.17 | 1.5 |
| 46 | MP-6 | Z | -0.35 | 1.5 |
| 47 | MP-6 | Z | -0.07 | 2.5 |
| 48 | MP-6 | Z | -0.11 | 2.5 |
| 49 | MP-7 | Z | -0.11 | 1.5 |
| 50 | MP-8 | Z | -0.11 | 1.5 |
| 51 | MP-8 | Z | -0.09 | 2.5 |
| 52 | MP-8 | Z | -0.03 | 3.5 |
| 53 | MP-9 | Z | -0.17 | 1.5 |
| 54 | MP-10 | Z | -0.35 | 1.5 |
| 55 | MP-10 | Z | -0.07 | 2.5 |
| 56 | MP-10 | Z | -0.11 | 2.5 |
| 57 | MP-11 | Z | -0.11 | 1.5 |
| 58 | MP-12 | Z | -0.11 | 1.5 |
| 59 | MP-12 | Z | -0.09 | 2.5 |
| 60 | MP-12 | Z | -0.03 | 3.5 |
| 61 | MP-1 | Z | -0.19 | 4.5 |
| 62 | MP-2 | Z | -0.44 | 7.5 |
| 63 | MP-3 | Z | -0.14 | 4 |
| 64 | MP-4 | Z | -0.15 | 5.5 |
| 65 | MP-5 | Z | -0.17 | 4.5 |
| 66 | MP-6 | Z | -0.35 | 7.5 |
| 67 | MP-7 | Z | -0.11 | 4 |
| 68 | MP-8 | Z | -0.11 | 5.5 |
| 69 | MP-9 | Z | -0.17 | 4.5 |
| 70 | MP-10 | Z | -0.35 | 7.5 |
| 71 | MP-11 | Z | -0.11 | 4 |
| 72 | MP-12 | Z | -0.11 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 22 : 60 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.12 | 1.5 |
| 2 | MP-2 | X | -0.26 | 1.5 |
| 3 | MP-2 | X | -0.06 | 2.5 |
| 4 | MP-2 | X | -0.08 | 2.5 |
| 5 | MP-3 | X | -0.08 | 1.5 |
| 6 | MP-4 | X | -0.09 | 1.5 |
| 7 | MP-4 | X | -0.03 | 2.5 |
| 8 | MP-4 | X | -0.02 | 3.5 |
| 9 | MP-5 | X | -0.12 | 1.5 |
| 10 | MP-6 | X | -0.22 | 1.5 |
| 11 | MP-6 | X | -0.05 | 2.5 |
| 12 | MP-6 | X | -0.07 | 2.5 |
| 13 | MP-7 | X | -0.07 | 1.5 |
| 14 | MP-8 | X | -0.07 | 1.5 |
| 15 | MP-8 | X | -0.06 | 2.5 |
| 16 | MP-8 | X | -0.02 | 3.5 |
| 17 | MP-9 | X | -0.12 | 1.5 |
| 18 | MP-10 | X | -0.22 | 1.5 |
| 19 | MP-10 | X | -0.05 | 2.5 |
| 20 | MP-10 | X | -0.07 | 2.5 |
| 21 | MP-11 | X | -0.07 | 1.5 |
| 22 | MP-12 | X | -0.07 | 1.5 |
| 23 | MP-12 | X | -0.06 | 2.5 |
| 24 | MP-12 | X | -0.02 | 3.5 |
| 25 | MP-1 | X | -0.12 | 4.5 |
| 26 | MP-2 | X | -0.26 | 7.5 |
| 27 | MP-3 | X | -0.08 | 4 |
| 28 | MP-4 | X | -0.09 | 5.5 |
| 29 | MP-5 | X | -0.12 | 4.5 |
| 30 | MP-6 | X | -0.22 | 7.5 |
| 31 | MP-7 | X | -0.07 | 4 |
| 32 | MP-8 | X | -0.07 | 5.5 |
| 33 | MP-9 | X | -0.12 | 4.5 |
| 34 | MP-10 | X | -0.22 | 7.5 |
| 35 | MP-11 | X | -0.07 | 4 |
| 36 | MP-12 | X | -0.07 | 5.5 |
| 37 | MP-1 | Z | -0.21 | 1.5 |
| 38 | MP-2 | Z | -0.45 | 1.5 |
| 39 | MP-2 | Z | -0.1 | 2.5 |
| 40 | MP-2 | Z | -0.13 | 2.5 |
| 41 | MP-3 | Z | -0.14 | 1.5 |
| 42 | MP-4 | Z | -0.15 | 1.5 |
| 43 | MP-4 | Z | -0.05 | 2.5 |
| 44 | MP-4 | Z | -0.03 | 3.5 |
| 45 | MP-5 | Z | -0.2 | 1.5 |
| 46 | MP-6 | Z | -0.37 | 1.5 |
| 47 | MP-6 | Z | -0.08 | 2.5 |
| 48 | MP-6 | Z | -0.13 | 2.5 |
| 49 | MP-7 | Z | -0.11 | 1.5 |
| 50 | MP-8 | Z | -0.12 | 1.5 |
| 51 | MP-8 | Z | -0.1 | 2.5 |
| 52 | MP-8 | Z | -0.03 | 3.5 |
| 53 | MP-9 | Z | -0.2 | 1.5 |
| 54 | MP-10 | Z | -0.37 | 1.5 |
| 55 | MP-10 | Z | -0.08 | 2.5 |
| 56 | MP-10 | Z | -0.13 | 2.5 |
| 57 | MP-11 | Z | -0.11 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
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Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | -0.12 | 1.5 |
| 59 | MP-12 | Z | -0.01 | 2.5 |
| 60 | MP-12 | Z | -0.003 | 3.5 |
| 61 | MP-1 | Z | -0.21 | 4.5 |
| 62 | MP-2 | Z | -0.45 | 7.5 |
| 63 | MP-3 | Z | -0.14 | 4 |
| 64 | MP-4 | Z | -0.15 | 5.5 |
| 65 | MP-5 | Z | -0.02 | 4.5 |
| 66 | MP-6 | Z | -0.037 | 7.5 |
| 67 | MP-7 | Z | -0.11 | 4 |
| 68 | MP-8 | Z | -0.12 | 5.5 |
| 69 | MP-9 | Z | -0.02 | 4.5 |
| 70 | MP-10 | Z | -0.037 | 7.5 |
| 71 | MP-11 | Z | -0.11 | 4 |
| 72 | MP-12 | Z | -0.12 | 5.5 |

Member Point Loads (BLC 23 : 90 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | -0.23 | 1.5 |
| 2 | MP-2 | Z | -0.42 | 1.5 |
| 3 | MP-2 | Z | -0.009 | 2.5 |
| 4 | MP-2 | Z | -0.14 | 2.5 |
| 5 | MP-3 | Z | -0.13 | 1.5 |
| 6 | MP-4 | Z | -0.13 | 1.5 |
| 7 | MP-4 | Z | -0.006 | 2.5 |
| 8 | MP-4 | Z | -0.003 | 3.5 |
| 9 | MP-5 | Z | -0.23 | 1.5 |
| 10 | MP-6 | Z | -0.42 | 1.5 |
| 11 | MP-6 | Z | -0.009 | 2.5 |
| 12 | MP-6 | Z | -0.14 | 2.5 |
| 13 | MP-7 | Z | -0.13 | 1.5 |
| 14 | MP-8 | Z | -0.13 | 1.5 |
| 15 | MP-8 | Z | -0.11 | 2.5 |
| 16 | MP-8 | Z | -0.003 | 3.5 |
| 17 | MP-9 | Z | -0.23 | 1.5 |
| 18 | MP-10 | Z | -0.42 | 1.5 |
| 19 | MP-10 | Z | -0.009 | 2.5 |
| 20 | MP-10 | Z | -0.14 | 2.5 |
| 21 | MP-11 | Z | -0.13 | 1.5 |
| 22 | MP-12 | Z | -0.13 | 1.5 |
| 23 | MP-12 | Z | -0.11 | 2.5 |
| 24 | MP-12 | Z | -0.003 | 3.5 |
| 25 | MP-1 | Z | -0.23 | 4.5 |
| 26 | MP-2 | Z | -0.42 | 7.5 |
| 27 | MP-3 | Z | -0.13 | 4 |
| 28 | MP-4 | Z | -0.13 | 5.5 |
| 29 | MP-5 | Z | -0.23 | 4.5 |
| 30 | MP-6 | Z | -0.42 | 7.5 |
| 31 | MP-7 | Z | -0.13 | 4 |
| 32 | MP-8 | Z | -0.13 | 5.5 |
| 33 | MP-9 | Z | -0.23 | 4.5 |
| 34 | MP-10 | Z | -0.42 | 7.5 |
| 35 | MP-11 | Z | -0.13 | 4 |
| 36 | MP-12 | Z | -0.13 | 5.5 |



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Member Point Loads (BLC 24 : 120 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .012 | 1.5 |
| 2 | MP-2 | X | .026 | 1.5 |
| 3 | MP-2 | X | .006 | 2.5 |
| 4 | MP-2 | X | .008 | 2.5 |
| 5 | MP-3 | X | .008 | 1.5 |
| 6 | MP-4 | X | .009 | 1.5 |
| 7 | MP-4 | X | .003 | 2.5 |
| 8 | MP-4 | X | .002 | 3.5 |
| 9 | MP-5 | X | .013 | 1.5 |
| 10 | MP-6 | X | .033 | 1.5 |
| 11 | MP-6 | X | .007 | 2.5 |
| 12 | MP-6 | X | .008 | 2.5 |
| 13 | MP-7 | X | .01 | 1.5 |
| 14 | MP-8 | X | .012 | 1.5 |
| 15 | MP-8 | X | .007 | 2.5 |
| 16 | MP-8 | X | .002 | 3.5 |
| 17 | MP-9 | X | .013 | 1.5 |
| 18 | MP-10 | X | .033 | 1.5 |
| 19 | MP-10 | X | .007 | 2.5 |
| 20 | MP-10 | X | .008 | 2.5 |
| 21 | MP-11 | X | .01 | 1.5 |
| 22 | MP-12 | X | .012 | 1.5 |
| 23 | MP-12 | X | .007 | 2.5 |
| 24 | MP-12 | X | .002 | 3.5 |
| 25 | MP-1 | X | .012 | 4.5 |
| 26 | MP-2 | X | .026 | 7.5 |
| 27 | MP-3 | X | .008 | 4 |
| 28 | MP-4 | X | .009 | 5.5 |
| 29 | MP-5 | X | .013 | 4.5 |
| 30 | MP-6 | X | .033 | 7.5 |
| 31 | MP-7 | X | .01 | 4 |
| 32 | MP-8 | X | .012 | 5.5 |
| 33 | MP-9 | X | .013 | 4.5 |
| 34 | MP-10 | X | .033 | 7.5 |
| 35 | MP-11 | X | .01 | 4 |
| 36 | MP-12 | X | .012 | 5.5 |
| 37 | MP-1 | Z | -0.21 | 1.5 |
| 38 | MP-2 | Z | -0.45 | 1.5 |
| 39 | MP-2 | Z | -0.01 | 2.5 |
| 40 | MP-2 | Z | -0.13 | 2.5 |
| 41 | MP-3 | Z | -0.14 | 1.5 |
| 42 | MP-4 | Z | -0.15 | 1.5 |
| 43 | MP-4 | Z | -0.005 | 2.5 |
| 44 | MP-4 | Z | -0.003 | 3.5 |
| 45 | MP-5 | Z | -0.23 | 1.5 |
| 46 | MP-6 | Z | -0.057 | 1.5 |
| 47 | MP-6 | Z | -0.12 | 2.5 |
| 48 | MP-6 | Z | -0.14 | 2.5 |
| 49 | MP-7 | Z | -0.18 | 1.5 |
| 50 | MP-8 | Z | -0.02 | 1.5 |
| 51 | MP-8 | Z | -0.12 | 2.5 |
| 52 | MP-8 | Z | -0.004 | 3.5 |
| 53 | MP-9 | Z | -0.23 | 1.5 |
| 54 | MP-10 | Z | -0.057 | 1.5 |
| 55 | MP-10 | Z | -0.12 | 2.5 |
| 56 | MP-10 | Z | -0.14 | 2.5 |
| 57 | MP-11 | Z | -0.18 | 1.5 |



Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | -.02 | 1.5 |
| 59 | MP-12 | Z | -.012 | 2.5 |
| 60 | MP-12 | Z | -.004 | 3.5 |
| 61 | MP-1 | Z | -.021 | 4.5 |
| 62 | MP-2 | Z | -.045 | 7.5 |
| 63 | MP-3 | Z | -.014 | 4 |
| 64 | MP-4 | Z | -.015 | 5.5 |
| 65 | MP-5 | Z | -.023 | 4.5 |
| 66 | MP-6 | Z | -.057 | 7.5 |
| 67 | MP-7 | Z | -.018 | 4 |
| 68 | MP-8 | Z | -.02 | 5.5 |
| 69 | MP-9 | Z | -.023 | 4.5 |
| 70 | MP-10 | Z | -.057 | 7.5 |
| 71 | MP-11 | Z | -.018 | 4 |
| 72 | MP-12 | Z | -.02 | 5.5 |

Member Point Loads (BLC 25 : 135 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .019 | 1.5 |
| 2 | MP-2 | X | .044 | 1.5 |
| 3 | MP-2 | X | .009 | 2.5 |
| 4 | MP-2 | X | .011 | 2.5 |
| 5 | MP-3 | X | .014 | 1.5 |
| 6 | MP-4 | X | .015 | 1.5 |
| 7 | MP-4 | X | .005 | 2.5 |
| 8 | MP-4 | X | .003 | 3.5 |
| 9 | MP-5 | X | .02 | 1.5 |
| 10 | MP-6 | X | .054 | 1.5 |
| 11 | MP-6 | X | .011 | 2.5 |
| 12 | MP-6 | X | .012 | 2.5 |
| 13 | MP-7 | X | .016 | 1.5 |
| 14 | MP-8 | X | .019 | 1.5 |
| 15 | MP-8 | X | .01 | 2.5 |
| 16 | MP-8 | X | .004 | 3.5 |
| 17 | MP-9 | X | .02 | 1.5 |
| 18 | MP-10 | X | .054 | 1.5 |
| 19 | MP-10 | X | .011 | 2.5 |
| 20 | MP-10 | X | .012 | 2.5 |
| 21 | MP-11 | X | .016 | 1.5 |
| 22 | MP-12 | X | .019 | 1.5 |
| 23 | MP-12 | X | .01 | 2.5 |
| 24 | MP-12 | X | .004 | 3.5 |
| 25 | MP-1 | X | .019 | 4.5 |
| 26 | MP-2 | X | .044 | 7.5 |
| 27 | MP-3 | X | .014 | 4 |
| 28 | MP-4 | X | .015 | 5.5 |
| 29 | MP-5 | X | .02 | 4.5 |
| 30 | MP-6 | X | .054 | 7.5 |
| 31 | MP-7 | X | .016 | 4 |
| 32 | MP-8 | X | .019 | 5.5 |
| 33 | MP-9 | X | .02 | 4.5 |
| 34 | MP-10 | X | .054 | 7.5 |
| 35 | MP-11 | X | .016 | 4 |
| 36 | MP-12 | X | .019 | 5.5 |
| 37 | MP-1 | Z | -.019 | 1.5 |
| 38 | MP-2 | Z | -.044 | 1.5 |



Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 39 | MP-2 | Z | -.009 | 2.5 |
| 40 | MP-2 | Z | -.011 | 2.5 |
| 41 | MP-3 | Z | -.014 | 1.5 |
| 42 | MP-4 | Z | -.015 | 1.5 |
| 43 | MP-4 | Z | -.005 | 2.5 |
| 44 | MP-4 | Z | -.003 | 3.5 |
| 45 | MP-5 | Z | -.02 | 1.5 |
| 46 | MP-6 | Z | -.054 | 1.5 |
| 47 | MP-6 | Z | -.011 | 2.5 |
| 48 | MP-6 | Z | -.012 | 2.5 |
| 49 | MP-7 | Z | -.016 | 1.5 |
| 50 | MP-8 | Z | -.019 | 1.5 |
| 51 | MP-8 | Z | -.01 | 2.5 |
| 52 | MP-8 | Z | -.004 | 3.5 |
| 53 | MP-9 | Z | -.02 | 1.5 |
| 54 | MP-10 | Z | -.054 | 1.5 |
| 55 | MP-10 | Z | -.011 | 2.5 |
| 56 | MP-10 | Z | -.012 | 2.5 |
| 57 | MP-11 | Z | -.016 | 1.5 |
| 58 | MP-12 | Z | -.019 | 1.5 |
| 59 | MP-12 | Z | -.01 | 2.5 |
| 60 | MP-12 | Z | -.004 | 3.5 |
| 61 | MP-1 | Z | -.019 | 4.5 |
| 62 | MP-2 | Z | -.044 | 7.5 |
| 63 | MP-3 | Z | -.014 | 4 |
| 64 | MP-4 | Z | -.015 | 5.5 |
| 65 | MP-5 | Z | -.02 | 4.5 |
| 66 | MP-6 | Z | -.054 | 7.5 |
| 67 | MP-7 | Z | -.016 | 4 |
| 68 | MP-8 | Z | -.019 | 5.5 |
| 69 | MP-9 | Z | -.02 | 4.5 |
| 70 | MP-10 | Z | -.054 | 7.5 |
| 71 | MP-11 | Z | -.016 | 4 |
| 72 | MP-12 | Z | -.019 | 5.5 |

Member Point Loads (BLC 26 : 150 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .024 | 1.5 |
| 2 | MP-2 | X | .063 | 1.5 |
| 3 | MP-2 | X | .013 | 2.5 |
| 4 | MP-2 | X | .014 | 2.5 |
| 5 | MP-3 | X | .019 | 1.5 |
| 6 | MP-4 | X | .022 | 1.5 |
| 7 | MP-4 | X | .006 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .026 | 1.5 |
| 10 | MP-6 | X | .071 | 1.5 |
| 11 | MP-6 | X | .015 | 2.5 |
| 12 | MP-6 | X | .015 | 2.5 |
| 13 | MP-7 | X | .022 | 1.5 |
| 14 | MP-8 | X | .025 | 1.5 |
| 15 | MP-8 | X | .013 | 2.5 |
| 16 | MP-8 | X | .005 | 3.5 |
| 17 | MP-9 | X | .026 | 1.5 |
| 18 | MP-10 | X | .071 | 1.5 |
| 19 | MP-10 | X | .015 | 2.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 20 | MP-10 | X | .015 | 2.5 |
| 21 | MP-11 | X | .022 | 1.5 |
| 22 | MP-12 | X | .025 | 1.5 |
| 23 | MP-12 | X | .013 | 2.5 |
| 24 | MP-12 | X | .005 | 3.5 |
| 25 | MP-1 | X | .024 | 4.5 |
| 26 | MP-2 | X | .063 | 7.5 |
| 27 | MP-3 | X | .019 | 4 |
| 28 | MP-4 | X | .022 | 5.5 |
| 29 | MP-5 | X | .026 | 4.5 |
| 30 | MP-6 | X | .071 | 7.5 |
| 31 | MP-7 | X | .022 | 4 |
| 32 | MP-8 | X | .025 | 5.5 |
| 33 | MP-9 | X | .026 | 4.5 |
| 34 | MP-10 | X | .071 | 7.5 |
| 35 | MP-11 | X | .022 | 4 |
| 36 | MP-12 | X | .025 | 5.5 |
| 37 | MP-1 | Z | -.014 | 1.5 |
| 38 | MP-2 | Z | -.037 | 1.5 |
| 39 | MP-2 | Z | -.008 | 2.5 |
| 40 | MP-2 | Z | -.008 | 2.5 |
| 41 | MP-3 | Z | -.011 | 1.5 |
| 42 | MP-4 | Z | -.013 | 1.5 |
| 43 | MP-4 | Z | -.004 | 2.5 |
| 44 | MP-4 | Z | -.002 | 3.5 |
| 45 | MP-5 | Z | -.015 | 1.5 |
| 46 | MP-6 | Z | -.041 | 1.5 |
| 47 | MP-6 | Z | -.009 | 2.5 |
| 48 | MP-6 | Z | -.009 | 2.5 |
| 49 | MP-7 | Z | -.013 | 1.5 |
| 50 | MP-8 | Z | -.015 | 1.5 |
| 51 | MP-8 | Z | -.007 | 2.5 |
| 52 | MP-8 | Z | -.003 | 3.5 |
| 53 | MP-9 | Z | -.015 | 1.5 |
| 54 | MP-10 | Z | -.041 | 1.5 |
| 55 | MP-10 | Z | -.009 | 2.5 |
| 56 | MP-10 | Z | -.009 | 2.5 |
| 57 | MP-11 | Z | -.013 | 1.5 |
| 58 | MP-12 | Z | -.015 | 1.5 |
| 59 | MP-12 | Z | -.007 | 2.5 |
| 60 | MP-12 | Z | -.003 | 3.5 |
| 61 | MP-1 | Z | -.014 | 4.5 |
| 62 | MP-2 | Z | -.037 | 7.5 |
| 63 | MP-3 | Z | -.011 | 4 |
| 64 | MP-4 | Z | -.013 | 5.5 |
| 65 | MP-5 | Z | -.015 | 4.5 |
| 66 | MP-6 | Z | -.041 | 7.5 |
| 67 | MP-7 | Z | -.013 | 4 |
| 68 | MP-8 | Z | -.015 | 5.5 |
| 69 | MP-9 | Z | -.015 | 4.5 |
| 70 | MP-10 | Z | -.041 | 7.5 |
| 71 | MP-11 | Z | -.013 | 4 |
| 72 | MP-12 | Z | -.015 | 5.5 |

Member Point Loads (BLC 27 : 180 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|--|--------------|-----------|-------------------|----------------|
|--|--------------|-----------|-------------------|----------------|



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 27 : 180 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .03 | 1.5 |
| 2 | MP-2 | X | .084 | 1.5 |
| 3 | MP-2 | X | .017 | 2.5 |
| 4 | MP-2 | X | .017 | 2.5 |
| 5 | MP-3 | X | .025 | 1.5 |
| 6 | MP-4 | X | .03 | 1.5 |
| 7 | MP-4 | X | .008 | 2.5 |
| 8 | MP-4 | X | .005 | 3.5 |
| 9 | MP-5 | X | .03 | 1.5 |
| 10 | MP-6 | X | .084 | 1.5 |
| 11 | MP-6 | X | .017 | 2.5 |
| 12 | MP-6 | X | .017 | 2.5 |
| 13 | MP-7 | X | .025 | 1.5 |
| 14 | MP-8 | X | .03 | 1.5 |
| 15 | MP-8 | X | .015 | 2.5 |
| 16 | MP-8 | X | .005 | 3.5 |
| 17 | MP-9 | X | .03 | 1.5 |
| 18 | MP-10 | X | .084 | 1.5 |
| 19 | MP-10 | X | .017 | 2.5 |
| 20 | MP-10 | X | .017 | 2.5 |
| 21 | MP-11 | X | .025 | 1.5 |
| 22 | MP-12 | X | .03 | 1.5 |
| 23 | MP-12 | X | .015 | 2.5 |
| 24 | MP-12 | X | .005 | 3.5 |
| 25 | MP-1 | X | .03 | 4.5 |
| 26 | MP-2 | X | .084 | 7.5 |
| 27 | MP-3 | X | .025 | 4 |
| 28 | MP-4 | X | .03 | 5.5 |
| 29 | MP-5 | X | .03 | 4.5 |
| 30 | MP-6 | X | .084 | 7.5 |
| 31 | MP-7 | X | .025 | 4 |
| 32 | MP-8 | X | .03 | 5.5 |
| 33 | MP-9 | X | .03 | 4.5 |
| 34 | MP-10 | X | .084 | 7.5 |
| 35 | MP-11 | X | .025 | 4 |
| 36 | MP-12 | X | .03 | 5.5 |

Member Point Loads (BLC 28 : 210 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .024 | 1.5 |
| 2 | MP-2 | X | .063 | 1.5 |
| 3 | MP-2 | X | .013 | 2.5 |
| 4 | MP-2 | X | .014 | 2.5 |
| 5 | MP-3 | X | .019 | 1.5 |
| 6 | MP-4 | X | .022 | 1.5 |
| 7 | MP-4 | X | .006 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .022 | 1.5 |
| 10 | MP-6 | X | .051 | 1.5 |
| 11 | MP-6 | X | .011 | 2.5 |
| 12 | MP-6 | X | .014 | 2.5 |
| 13 | MP-7 | X | .016 | 1.5 |
| 14 | MP-8 | X | .017 | 1.5 |
| 15 | MP-8 | X | .011 | 2.5 |
| 16 | MP-8 | X | .004 | 3.5 |
| 17 | MP-9 | X | .022 | 1.5 |



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 Designer : AEW
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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 18 | MP-10 | X | .051 | 1.5 |
| 19 | MP-10 | X | .011 | 2.5 |
| 20 | MP-10 | X | .014 | 2.5 |
| 21 | MP-11 | X | .016 | 1.5 |
| 22 | MP-12 | X | .017 | 1.5 |
| 23 | MP-12 | X | .011 | 2.5 |
| 24 | MP-12 | X | .004 | 3.5 |
| 25 | MP-1 | X | .024 | 4.5 |
| 26 | MP-2 | X | .063 | 7.5 |
| 27 | MP-3 | X | .019 | 4 |
| 28 | MP-4 | X | .022 | 5.5 |
| 29 | MP-5 | X | .022 | 4.5 |
| 30 | MP-6 | X | .051 | 7.5 |
| 31 | MP-7 | X | .016 | 4 |
| 32 | MP-8 | X | .017 | 5.5 |
| 33 | MP-9 | X | .022 | 4.5 |
| 34 | MP-10 | X | .051 | 7.5 |
| 35 | MP-11 | X | .016 | 4 |
| 36 | MP-12 | X | .017 | 5.5 |
| 37 | MP-1 | Z | .014 | 1.5 |
| 38 | MP-2 | Z | .037 | 1.5 |
| 39 | MP-2 | Z | .008 | 2.5 |
| 40 | MP-2 | Z | .008 | 2.5 |
| 41 | MP-3 | Z | .011 | 1.5 |
| 42 | MP-4 | Z | .013 | 1.5 |
| 43 | MP-4 | Z | .004 | 2.5 |
| 44 | MP-4 | Z | .002 | 3.5 |
| 45 | MP-5 | Z | .013 | 1.5 |
| 46 | MP-6 | Z | .03 | 1.5 |
| 47 | MP-6 | Z | .006 | 2.5 |
| 48 | MP-6 | Z | .008 | 2.5 |
| 49 | MP-7 | Z | .009 | 1.5 |
| 50 | MP-8 | Z | .01 | 1.5 |
| 51 | MP-8 | Z | .006 | 2.5 |
| 52 | MP-8 | Z | .002 | 3.5 |
| 53 | MP-9 | Z | .013 | 1.5 |
| 54 | MP-10 | Z | .03 | 1.5 |
| 55 | MP-10 | Z | .006 | 2.5 |
| 56 | MP-10 | Z | .008 | 2.5 |
| 57 | MP-11 | Z | .009 | 1.5 |
| 58 | MP-12 | Z | .01 | 1.5 |
| 59 | MP-12 | Z | .006 | 2.5 |
| 60 | MP-12 | Z | .002 | 3.5 |
| 61 | MP-1 | Z | .014 | 4.5 |
| 62 | MP-2 | Z | .037 | 7.5 |
| 63 | MP-3 | Z | .011 | 4 |
| 64 | MP-4 | Z | .013 | 5.5 |
| 65 | MP-5 | Z | .013 | 4.5 |
| 66 | MP-6 | Z | .03 | 7.5 |
| 67 | MP-7 | Z | .009 | 4 |
| 68 | MP-8 | Z | .01 | 5.5 |
| 69 | MP-9 | Z | .013 | 4.5 |
| 70 | MP-10 | Z | .03 | 7.5 |
| 71 | MP-11 | Z | .009 | 4 |
| 72 | MP-12 | Z | .01 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 29 : 225 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .019 | 1.5 |
| 2 | MP-2 | X | .044 | 1.5 |
| 3 | MP-2 | X | .009 | 2.5 |
| 4 | MP-2 | X | .011 | 2.5 |
| 5 | MP-3 | X | .014 | 1.5 |
| 6 | MP-4 | X | .015 | 1.5 |
| 7 | MP-4 | X | .005 | 2.5 |
| 8 | MP-4 | X | .003 | 3.5 |
| 9 | MP-5 | X | .017 | 1.5 |
| 10 | MP-6 | X | .035 | 1.5 |
| 11 | MP-6 | X | .007 | 2.5 |
| 12 | MP-6 | X | .011 | 2.5 |
| 13 | MP-7 | X | .011 | 1.5 |
| 14 | MP-8 | X | .011 | 1.5 |
| 15 | MP-8 | X | .009 | 2.5 |
| 16 | MP-8 | X | .003 | 3.5 |
| 17 | MP-9 | X | .017 | 1.5 |
| 18 | MP-10 | X | .035 | 1.5 |
| 19 | MP-10 | X | .007 | 2.5 |
| 20 | MP-10 | X | .011 | 2.5 |
| 21 | MP-11 | X | .011 | 1.5 |
| 22 | MP-12 | X | .011 | 1.5 |
| 23 | MP-12 | X | .009 | 2.5 |
| 24 | MP-12 | X | .003 | 3.5 |
| 25 | MP-1 | X | .019 | 4.5 |
| 26 | MP-2 | X | .044 | 7.5 |
| 27 | MP-3 | X | .014 | 4 |
| 28 | MP-4 | X | .015 | 5.5 |
| 29 | MP-5 | X | .017 | 4.5 |
| 30 | MP-6 | X | .035 | 7.5 |
| 31 | MP-7 | X | .011 | 4 |
| 32 | MP-8 | X | .011 | 5.5 |
| 33 | MP-9 | X | .017 | 4.5 |
| 34 | MP-10 | X | .035 | 7.5 |
| 35 | MP-11 | X | .011 | 4 |
| 36 | MP-12 | X | .011 | 5.5 |
| 37 | MP-1 | Z | .019 | 1.5 |
| 38 | MP-2 | Z | .044 | 1.5 |
| 39 | MP-2 | Z | .009 | 2.5 |
| 40 | MP-2 | Z | .011 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .017 | 1.5 |
| 46 | MP-6 | Z | .035 | 1.5 |
| 47 | MP-6 | Z | .007 | 2.5 |
| 48 | MP-6 | Z | .011 | 2.5 |
| 49 | MP-7 | Z | .011 | 1.5 |
| 50 | MP-8 | Z | .011 | 1.5 |
| 51 | MP-8 | Z | .009 | 2.5 |
| 52 | MP-8 | Z | .003 | 3.5 |
| 53 | MP-9 | Z | .017 | 1.5 |
| 54 | MP-10 | Z | .035 | 1.5 |
| 55 | MP-10 | Z | .007 | 2.5 |
| 56 | MP-10 | Z | .011 | 2.5 |
| 57 | MP-11 | Z | .011 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | .011 | 1.5 |
| 59 | MP-12 | Z | .009 | 2.5 |
| 60 | MP-12 | Z | .003 | 3.5 |
| 61 | MP-1 | Z | .019 | 4.5 |
| 62 | MP-2 | Z | .044 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .017 | 4.5 |
| 66 | MP-6 | Z | .035 | 7.5 |
| 67 | MP-7 | Z | .011 | 4 |
| 68 | MP-8 | Z | .011 | 5.5 |
| 69 | MP-9 | Z | .017 | 4.5 |
| 70 | MP-10 | Z | .035 | 7.5 |
| 71 | MP-11 | Z | .011 | 4 |
| 72 | MP-12 | Z | .011 | 5.5 |

Member Point Loads (BLC 30 : 240 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .012 | 1.5 |
| 2 | MP-2 | X | .026 | 1.5 |
| 3 | MP-2 | X | .006 | 2.5 |
| 4 | MP-2 | X | .008 | 2.5 |
| 5 | MP-3 | X | .008 | 1.5 |
| 6 | MP-4 | X | .009 | 1.5 |
| 7 | MP-4 | X | .003 | 2.5 |
| 8 | MP-4 | X | .002 | 3.5 |
| 9 | MP-5 | X | .012 | 1.5 |
| 10 | MP-6 | X | .022 | 1.5 |
| 11 | MP-6 | X | .005 | 2.5 |
| 12 | MP-6 | X | .007 | 2.5 |
| 13 | MP-7 | X | .007 | 1.5 |
| 14 | MP-8 | X | .007 | 1.5 |
| 15 | MP-8 | X | .006 | 2.5 |
| 16 | MP-8 | X | .002 | 3.5 |
| 17 | MP-9 | X | .012 | 1.5 |
| 18 | MP-10 | X | .022 | 1.5 |
| 19 | MP-10 | X | .005 | 2.5 |
| 20 | MP-10 | X | .007 | 2.5 |
| 21 | MP-11 | X | .007 | 1.5 |
| 22 | MP-12 | X | .007 | 1.5 |
| 23 | MP-12 | X | .006 | 2.5 |
| 24 | MP-12 | X | .002 | 3.5 |
| 25 | MP-1 | X | .012 | 4.5 |
| 26 | MP-2 | X | .026 | 7.5 |
| 27 | MP-3 | X | .008 | 4 |
| 28 | MP-4 | X | .009 | 5.5 |
| 29 | MP-5 | X | .012 | 4.5 |
| 30 | MP-6 | X | .022 | 7.5 |
| 31 | MP-7 | X | .007 | 4 |
| 32 | MP-8 | X | .007 | 5.5 |
| 33 | MP-9 | X | .012 | 4.5 |
| 34 | MP-10 | X | .022 | 7.5 |
| 35 | MP-11 | X | .007 | 4 |
| 36 | MP-12 | X | .007 | 5.5 |
| 37 | MP-1 | Z | .021 | 1.5 |
| 38 | MP-2 | Z | .045 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
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Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 39 | MP-2 | Z | .01 | 2.5 |
| 40 | MP-2 | Z | .013 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .02 | 1.5 |
| 46 | MP-6 | Z | .037 | 1.5 |
| 47 | MP-6 | Z | .008 | 2.5 |
| 48 | MP-6 | Z | .013 | 2.5 |
| 49 | MP-7 | Z | .011 | 1.5 |
| 50 | MP-8 | Z | .012 | 1.5 |
| 51 | MP-8 | Z | .01 | 2.5 |
| 52 | MP-8 | Z | .003 | 3.5 |
| 53 | MP-9 | Z | .02 | 1.5 |
| 54 | MP-10 | Z | .037 | 1.5 |
| 55 | MP-10 | Z | .008 | 2.5 |
| 56 | MP-10 | Z | .013 | 2.5 |
| 57 | MP-11 | Z | .011 | 1.5 |
| 58 | MP-12 | Z | .012 | 1.5 |
| 59 | MP-12 | Z | .01 | 2.5 |
| 60 | MP-12 | Z | .003 | 3.5 |
| 61 | MP-1 | Z | .021 | 4.5 |
| 62 | MP-2 | Z | .045 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .02 | 4.5 |
| 66 | MP-6 | Z | .037 | 7.5 |
| 67 | MP-7 | Z | .011 | 4 |
| 68 | MP-8 | Z | .012 | 5.5 |
| 69 | MP-9 | Z | .02 | 4.5 |
| 70 | MP-10 | Z | .037 | 7.5 |
| 71 | MP-11 | Z | .011 | 4 |
| 72 | MP-12 | Z | .012 | 5.5 |

Member Point Loads (BLC 31 : 270 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | .023 | 1.5 |
| 2 | MP-2 | Z | .042 | 1.5 |
| 3 | MP-2 | Z | .009 | 2.5 |
| 4 | MP-2 | Z | .014 | 2.5 |
| 5 | MP-3 | Z | .013 | 1.5 |
| 6 | MP-4 | Z | .013 | 1.5 |
| 7 | MP-4 | Z | .006 | 2.5 |
| 8 | MP-4 | Z | .003 | 3.5 |
| 9 | MP-5 | Z | .023 | 1.5 |
| 10 | MP-6 | Z | .042 | 1.5 |
| 11 | MP-6 | Z | .009 | 2.5 |
| 12 | MP-6 | Z | .014 | 2.5 |
| 13 | MP-7 | Z | .013 | 1.5 |
| 14 | MP-8 | Z | .013 | 1.5 |
| 15 | MP-8 | Z | .011 | 2.5 |
| 16 | MP-8 | Z | .003 | 3.5 |
| 17 | MP-9 | Z | .023 | 1.5 |
| 18 | MP-10 | Z | .042 | 1.5 |
| 19 | MP-10 | Z | .009 | 2.5 |



Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 20 | MP-10 | Z | .014 | 2.5 |
| 21 | MP-11 | Z | .013 | 1.5 |
| 22 | MP-12 | Z | .013 | 1.5 |
| 23 | MP-12 | Z | .011 | 2.5 |
| 24 | MP-12 | Z | .003 | 3.5 |
| 25 | MP-1 | Z | .023 | 4.5 |
| 26 | MP-2 | Z | .042 | 7.5 |
| 27 | MP-3 | Z | .013 | 4 |
| 28 | MP-4 | Z | .013 | 5.5 |
| 29 | MP-5 | Z | .023 | 4.5 |
| 30 | MP-6 | Z | .042 | 7.5 |
| 31 | MP-7 | Z | .013 | 4 |
| 32 | MP-8 | Z | .013 | 5.5 |
| 33 | MP-9 | Z | .023 | 4.5 |
| 34 | MP-10 | Z | .042 | 7.5 |
| 35 | MP-11 | Z | .013 | 4 |
| 36 | MP-12 | Z | .013 | 5.5 |

Member Point Loads (BLC 32 : 300 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.012 | 1.5 |
| 2 | MP-2 | X | -.026 | 1.5 |
| 3 | MP-2 | X | -.006 | 2.5 |
| 4 | MP-2 | X | -.008 | 2.5 |
| 5 | MP-3 | X | -.008 | 1.5 |
| 6 | MP-4 | X | -.009 | 1.5 |
| 7 | MP-4 | X | -.003 | 2.5 |
| 8 | MP-4 | X | -.002 | 3.5 |
| 9 | MP-5 | X | -.013 | 1.5 |
| 10 | MP-6 | X | -.033 | 1.5 |
| 11 | MP-6 | X | -.007 | 2.5 |
| 12 | MP-6 | X | -.008 | 2.5 |
| 13 | MP-7 | X | -.01 | 1.5 |
| 14 | MP-8 | X | -.012 | 1.5 |
| 15 | MP-8 | X | -.007 | 2.5 |
| 16 | MP-8 | X | -.002 | 3.5 |
| 17 | MP-9 | X | -.013 | 1.5 |
| 18 | MP-10 | X | -.033 | 1.5 |
| 19 | MP-10 | X | -.007 | 2.5 |
| 20 | MP-10 | X | -.008 | 2.5 |
| 21 | MP-11 | X | -.01 | 1.5 |
| 22 | MP-12 | X | -.012 | 1.5 |
| 23 | MP-12 | X | -.007 | 2.5 |
| 24 | MP-12 | X | -.002 | 3.5 |
| 25 | MP-1 | X | -.012 | 4.5 |
| 26 | MP-2 | X | -.026 | 7.5 |
| 27 | MP-3 | X | -.008 | 4 |
| 28 | MP-4 | X | -.009 | 5.5 |
| 29 | MP-5 | X | -.013 | 4.5 |
| 30 | MP-6 | X | -.033 | 7.5 |
| 31 | MP-7 | X | -.01 | 4 |
| 32 | MP-8 | X | -.012 | 5.5 |
| 33 | MP-9 | X | -.013 | 4.5 |
| 34 | MP-10 | X | -.033 | 7.5 |
| 35 | MP-11 | X | -.01 | 4 |
| 36 | MP-12 | X | -.012 | 5.5 |



Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 37 | MP-1 | Z | .021 | 1.5 |
| 38 | MP-2 | Z | .045 | 1.5 |
| 39 | MP-2 | Z | .01 | 2.5 |
| 40 | MP-2 | Z | .013 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .023 | 1.5 |
| 46 | MP-6 | Z | .057 | 1.5 |
| 47 | MP-6 | Z | .012 | 2.5 |
| 48 | MP-6 | Z | .014 | 2.5 |
| 49 | MP-7 | Z | .018 | 1.5 |
| 50 | MP-8 | Z | .02 | 1.5 |
| 51 | MP-8 | Z | .012 | 2.5 |
| 52 | MP-8 | Z | .004 | 3.5 |
| 53 | MP-9 | Z | .023 | 1.5 |
| 54 | MP-10 | Z | .057 | 1.5 |
| 55 | MP-10 | Z | .012 | 2.5 |
| 56 | MP-10 | Z | .014 | 2.5 |
| 57 | MP-11 | Z | .018 | 1.5 |
| 58 | MP-12 | Z | .02 | 1.5 |
| 59 | MP-12 | Z | .012 | 2.5 |
| 60 | MP-12 | Z | .004 | 3.5 |
| 61 | MP-1 | Z | .021 | 4.5 |
| 62 | MP-2 | Z | .045 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .023 | 4.5 |
| 66 | MP-6 | Z | .057 | 7.5 |
| 67 | MP-7 | Z | .018 | 4 |
| 68 | MP-8 | Z | .02 | 5.5 |
| 69 | MP-9 | Z | .023 | 4.5 |
| 70 | MP-10 | Z | .057 | 7.5 |
| 71 | MP-11 | Z | .018 | 4 |
| 72 | MP-12 | Z | .02 | 5.5 |

Member Point Loads (BLC 33 : 315 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.019 | 1.5 |
| 2 | MP-2 | X | -.044 | 1.5 |
| 3 | MP-2 | X | -.009 | 2.5 |
| 4 | MP-2 | X | -.011 | 2.5 |
| 5 | MP-3 | X | -.014 | 1.5 |
| 6 | MP-4 | X | -.015 | 1.5 |
| 7 | MP-4 | X | -.005 | 2.5 |
| 8 | MP-4 | X | -.003 | 3.5 |
| 9 | MP-5 | X | -.02 | 1.5 |
| 10 | MP-6 | X | -.054 | 1.5 |
| 11 | MP-6 | X | -.011 | 2.5 |
| 12 | MP-6 | X | -.012 | 2.5 |
| 13 | MP-7 | X | -.016 | 1.5 |
| 14 | MP-8 | X | -.019 | 1.5 |
| 15 | MP-8 | X | -.01 | 2.5 |
| 16 | MP-8 | X | -.004 | 3.5 |
| 17 | MP-9 | X | -.02 | 1.5 |



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 Designer : AEW
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Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 18 | MP-10 | X | -0.054 | 1.5 |
| 19 | MP-10 | X | -0.11 | 2.5 |
| 20 | MP-10 | X | -0.12 | 2.5 |
| 21 | MP-11 | X | -0.16 | 1.5 |
| 22 | MP-12 | X | -0.19 | 1.5 |
| 23 | MP-12 | X | -0.1 | 2.5 |
| 24 | MP-12 | X | -0.04 | 3.5 |
| 25 | MP-1 | X | -0.19 | 4.5 |
| 26 | MP-2 | X | -0.44 | 7.5 |
| 27 | MP-3 | X | -0.14 | 4 |
| 28 | MP-4 | X | -0.15 | 5.5 |
| 29 | MP-5 | X | -0.2 | 4.5 |
| 30 | MP-6 | X | -0.054 | 7.5 |
| 31 | MP-7 | X | -0.16 | 4 |
| 32 | MP-8 | X | -0.19 | 5.5 |
| 33 | MP-9 | X | -0.2 | 4.5 |
| 34 | MP-10 | X | -0.054 | 7.5 |
| 35 | MP-11 | X | -0.16 | 4 |
| 36 | MP-12 | X | -0.19 | 5.5 |
| 37 | MP-1 | Z | 0.19 | 1.5 |
| 38 | MP-2 | Z | 0.44 | 1.5 |
| 39 | MP-2 | Z | 0.09 | 2.5 |
| 40 | MP-2 | Z | 0.11 | 2.5 |
| 41 | MP-3 | Z | 0.14 | 1.5 |
| 42 | MP-4 | Z | 0.15 | 1.5 |
| 43 | MP-4 | Z | 0.05 | 2.5 |
| 44 | MP-4 | Z | 0.03 | 3.5 |
| 45 | MP-5 | Z | 0.2 | 1.5 |
| 46 | MP-6 | Z | 0.054 | 1.5 |
| 47 | MP-6 | Z | 0.11 | 2.5 |
| 48 | MP-6 | Z | 0.12 | 2.5 |
| 49 | MP-7 | Z | 0.16 | 1.5 |
| 50 | MP-8 | Z | 0.19 | 1.5 |
| 51 | MP-8 | Z | 0.1 | 2.5 |
| 52 | MP-8 | Z | 0.04 | 3.5 |
| 53 | MP-9 | Z | 0.2 | 1.5 |
| 54 | MP-10 | Z | 0.054 | 1.5 |
| 55 | MP-10 | Z | 0.11 | 2.5 |
| 56 | MP-10 | Z | 0.12 | 2.5 |
| 57 | MP-11 | Z | 0.16 | 1.5 |
| 58 | MP-12 | Z | 0.19 | 1.5 |
| 59 | MP-12 | Z | 0.1 | 2.5 |
| 60 | MP-12 | Z | 0.04 | 3.5 |
| 61 | MP-1 | Z | 0.19 | 4.5 |
| 62 | MP-2 | Z | 0.44 | 7.5 |
| 63 | MP-3 | Z | 0.14 | 4 |
| 64 | MP-4 | Z | 0.15 | 5.5 |
| 65 | MP-5 | Z | 0.2 | 4.5 |
| 66 | MP-6 | Z | 0.054 | 7.5 |
| 67 | MP-7 | Z | 0.16 | 4 |
| 68 | MP-8 | Z | 0.19 | 5.5 |
| 69 | MP-9 | Z | 0.2 | 4.5 |
| 70 | MP-10 | Z | 0.054 | 7.5 |
| 71 | MP-11 | Z | 0.16 | 4 |
| 72 | MP-12 | Z | 0.19 | 5.5 |



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Member Point Loads (BLC 34 : 330 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.024 | 1.5 |
| 2 | MP-2 | X | -0.063 | 1.5 |
| 3 | MP-2 | X | -0.13 | 2.5 |
| 4 | MP-2 | X | -0.14 | 2.5 |
| 5 | MP-3 | X | -0.19 | 1.5 |
| 6 | MP-4 | X | -0.22 | 1.5 |
| 7 | MP-4 | X | -0.06 | 2.5 |
| 8 | MP-4 | X | -0.04 | 3.5 |
| 9 | MP-5 | X | -0.26 | 1.5 |
| 10 | MP-6 | X | -0.71 | 1.5 |
| 11 | MP-6 | X | -0.15 | 2.5 |
| 12 | MP-6 | X | -0.15 | 2.5 |
| 13 | MP-7 | X | -0.22 | 1.5 |
| 14 | MP-8 | X | -0.25 | 1.5 |
| 15 | MP-8 | X | -0.13 | 2.5 |
| 16 | MP-8 | X | -0.05 | 3.5 |
| 17 | MP-9 | X | -0.26 | 1.5 |
| 18 | MP-10 | X | -0.71 | 1.5 |
| 19 | MP-10 | X | -0.15 | 2.5 |
| 20 | MP-10 | X | -0.15 | 2.5 |
| 21 | MP-11 | X | -0.22 | 1.5 |
| 22 | MP-12 | X | -0.25 | 1.5 |
| 23 | MP-12 | X | -0.13 | 2.5 |
| 24 | MP-12 | X | -0.05 | 3.5 |
| 25 | MP-1 | X | -0.24 | 4.5 |
| 26 | MP-2 | X | -0.63 | 7.5 |
| 27 | MP-3 | X | -0.19 | 4 |
| 28 | MP-4 | X | -0.22 | 5.5 |
| 29 | MP-5 | X | -0.26 | 4.5 |
| 30 | MP-6 | X | -0.71 | 7.5 |
| 31 | MP-7 | X | -0.22 | 4 |
| 32 | MP-8 | X | -0.25 | 5.5 |
| 33 | MP-9 | X | -0.26 | 4.5 |
| 34 | MP-10 | X | -0.71 | 7.5 |
| 35 | MP-11 | X | -0.22 | 4 |
| 36 | MP-12 | X | -0.25 | 5.5 |
| 37 | MP-1 | Z | 0.14 | 1.5 |
| 38 | MP-2 | Z | 0.37 | 1.5 |
| 39 | MP-2 | Z | 0.08 | 2.5 |
| 40 | MP-2 | Z | 0.08 | 2.5 |
| 41 | MP-3 | Z | 0.11 | 1.5 |
| 42 | MP-4 | Z | 0.13 | 1.5 |
| 43 | MP-4 | Z | 0.04 | 2.5 |
| 44 | MP-4 | Z | 0.02 | 3.5 |
| 45 | MP-5 | Z | 0.15 | 1.5 |
| 46 | MP-6 | Z | 0.41 | 1.5 |
| 47 | MP-6 | Z | 0.09 | 2.5 |
| 48 | MP-6 | Z | 0.09 | 2.5 |
| 49 | MP-7 | Z | 0.13 | 1.5 |
| 50 | MP-8 | Z | 0.15 | 1.5 |
| 51 | MP-8 | Z | 0.07 | 2.5 |
| 52 | MP-8 | Z | 0.03 | 3.5 |
| 53 | MP-9 | Z | 0.15 | 1.5 |
| 54 | MP-10 | Z | 0.41 | 1.5 |
| 55 | MP-10 | Z | 0.09 | 2.5 |
| 56 | MP-10 | Z | 0.09 | 2.5 |
| 57 | MP-11 | Z | 0.13 | 1.5 |



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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] | |
|--------------|-----------|-------------------|----------------|-----|
| 58 | MP-12 | Z | .015 | 1.5 |
| 59 | MP-12 | Z | .007 | 2.5 |
| 60 | MP-12 | Z | .003 | 3.5 |
| 61 | MP-1 | Z | .014 | 4.5 |
| 62 | MP-2 | Z | .037 | 7.5 |
| 63 | MP-3 | Z | .011 | 4 |
| 64 | MP-4 | Z | .013 | 5.5 |
| 65 | MP-5 | Z | .015 | 4.5 |
| 66 | MP-6 | Z | .041 | 7.5 |
| 67 | MP-7 | Z | .013 | 4 |
| 68 | MP-8 | Z | .015 | 5.5 |
| 69 | MP-9 | Z | .015 | 4.5 |
| 70 | MP-10 | Z | .041 | 7.5 |
| 71 | MP-11 | Z | .013 | 4 |
| 72 | MP-12 | Z | .015 | 5.5 |

Member Point Loads (BLC 37 : Seismic Load X)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] | |
|--------------|-----------|-------------------|----------------|-----|
| 1 | MP-1 | X | -.066 | 1.5 |
| 2 | MP-2 | X | -.064 | 1.5 |
| 3 | MP-2 | X | -.046 | 2.5 |
| 4 | MP-2 | X | -.075 | 2.5 |
| 5 | MP-3 | X | -.052 | 1.5 |
| 6 | MP-4 | X | -.02 | 1.5 |
| 7 | MP-4 | X | -.015 | 2.5 |
| 8 | MP-4 | X | -.011 | 3.5 |
| 9 | MP-5 | X | -.066 | 1.5 |
| 10 | MP-6 | X | -.064 | 1.5 |
| 11 | MP-6 | X | -.046 | 2.5 |
| 12 | MP-6 | X | -.075 | 2.5 |
| 13 | MP-7 | X | -.052 | 1.5 |
| 14 | MP-8 | X | -.02 | 1.5 |
| 15 | MP-8 | X | -.031 | 2.5 |
| 16 | MP-8 | X | -.011 | 3.5 |
| 17 | MP-9 | X | -.066 | 1.5 |
| 18 | MP-10 | X | -.064 | 1.5 |
| 19 | MP-10 | X | -.046 | 2.5 |
| 20 | MP-10 | X | -.075 | 2.5 |
| 21 | MP-11 | X | -.052 | 1.5 |
| 22 | MP-12 | X | -.02 | 1.5 |
| 23 | MP-12 | X | -.031 | 2.5 |
| 24 | MP-12 | X | -.011 | 3.5 |
| 25 | MP-1 | X | -.066 | 4.5 |
| 26 | MP-2 | X | -.064 | 7.5 |
| 27 | MP-3 | X | -.052 | 4 |
| 28 | MP-4 | X | -.02 | 5.5 |
| 29 | MP-5 | X | -.066 | 4.5 |
| 30 | MP-6 | X | -.064 | 7.5 |
| 31 | MP-7 | X | -.052 | 4 |
| 32 | MP-8 | X | -.02 | 5.5 |
| 33 | MP-9 | X | -.066 | 4.5 |
| 34 | MP-10 | X | -.064 | 7.5 |
| 35 | MP-11 | X | -.052 | 4 |
| 36 | MP-12 | X | -.02 | 5.5 |



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Member Point Loads (BLC 38 : Seismic Load Z)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] | |
|--------------|-----------|-------------------|----------------|-----|
| 1 | MP-1 | Z | -.066 | 1.5 |
| 2 | MP-2 | Z | -.064 | 1.5 |
| 3 | MP-2 | Z | -.046 | 2.5 |
| 4 | MP-2 | Z | -.075 | 2.5 |
| 5 | MP-3 | Z | -.052 | 1.5 |
| 6 | MP-4 | Z | -.02 | 1.5 |
| 7 | MP-4 | Z | -.015 | 2.5 |
| 8 | MP-4 | Z | -.011 | 3.5 |
| 9 | MP-5 | Z | -.066 | 1.5 |
| 10 | MP-6 | Z | -.064 | 1.5 |
| 11 | MP-6 | Z | -.046 | 2.5 |
| 12 | MP-6 | Z | -.075 | 2.5 |
| 13 | MP-7 | Z | -.052 | 1.5 |
| 14 | MP-8 | Z | -.02 | 1.5 |
| 15 | MP-8 | Z | -.031 | 2.5 |
| 16 | MP-8 | Z | -.011 | 3.5 |
| 17 | MP-9 | Z | -.066 | 1.5 |
| 18 | MP-10 | Z | -.064 | 1.5 |
| 19 | MP-10 | Z | -.046 | 2.5 |
| 20 | MP-10 | Z | -.075 | 2.5 |
| 21 | MP-11 | Z | -.052 | 1.5 |
| 22 | MP-12 | Z | -.02 | 1.5 |
| 23 | MP-12 | Z | -.031 | 2.5 |
| 24 | MP-12 | Z | -.011 | 3.5 |
| 25 | MP-1 | Z | -.066 | 4.5 |
| 26 | MP-2 | Z | -.064 | 7.5 |
| 27 | MP-3 | Z | -.052 | 4 |
| 28 | MP-4 | Z | -.02 | 5.5 |
| 29 | MP-5 | Z | -.066 | 4.5 |
| 30 | MP-6 | Z | -.064 | 7.5 |
| 31 | MP-7 | Z | -.052 | 4 |
| 32 | MP-8 | Z | -.02 | 5.5 |
| 33 | MP-9 | Z | -.066 | 4.5 |
| 34 | MP-10 | Z | -.064 | 7.5 |
| 35 | MP-11 | Z | -.052 | 4 |
| 36 | MP-12 | Z | -.02 | 5.5 |

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -.013 | -.013 | 0 | %100 |
| 2 | CP-1U | X | -.004 | -.004 | 0 | %100 |
| 3 | CP-2 | X | -.013 | -.013 | 0 | %100 |
| 4 | CP-2U | X | -.004 | -.004 | 0 | %100 |
| 5 | CP-3 | X | -.026 | -.026 | 0 | %100 |
| 6 | CP-3U | X | -.01 | -.01 | 0 | %100 |
| 7 | FF-HR | X | -.01 | -.01 | 0 | %100 |
| 8 | FFTH | X | -.011 | -.011 | 0 | %100 |
| 9 | GS1-1 | X | -.01 | -.01 | 0 | %100 |
| 10 | GS1-2 | X | -.01 | -.01 | 0 | %100 |
| 11 | GS1-3 | X | -.024 | -.024 | 0 | %100 |
| 12 | GSIP-1A | X | -.006 | -.006 | 0 | %100 |
| 13 | GSIP-1B | X | -.014 | -.014 | 0 | %100 |
| 14 | GSIP-2A | X | -.014 | -.014 | 0 | %100 |
| 15 | GSIP-2B | X | -.006 | -.006 | 0 | %100 |
| 16 | GSIP-3A | X | -.006 | -.006 | 0 | %100 |



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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft] | End Magnitude[k/ft.F...] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|-----------------------|--------------------------|----------------------|--------------------|------|
| 17 | GSIP-3B | X | -0.06 | -0.06 | 0 | %100 |
| 18 | MP-1 | X | -0.01 | -0.01 | 0 | %100 |
| 19 | MP-2 | X | -0.01 | -0.01 | 0 | %100 |
| 20 | MP-3 | X | -0.01 | -0.01 | 0 | %100 |
| 21 | MP-4 | X | -0.01 | -0.01 | 0 | %100 |
| 22 | MP-5 | X | -0.01 | -0.01 | 0 | %100 |
| 23 | MP-6 | X | -0.01 | -0.01 | 0 | %100 |
| 24 | MP-7 | X | -0.01 | -0.01 | 0 | %100 |
| 25 | MP-8 | X | -0.01 | -0.01 | 0 | %100 |
| 26 | MP-9 | X | -0.01 | -0.01 | 0 | %100 |
| 27 | MP-10 | X | -0.01 | -0.01 | 0 | %100 |
| 28 | MP-11 | X | -0.01 | -0.01 | 0 | %100 |
| 29 | MP-12 | X | -0.01 | -0.01 | 0 | %100 |
| 30 | SA-1 | X | -0.02 | -0.02 | 0 | %100 |
| 31 | SA-2 | X | -0.02 | -0.02 | 0 | %100 |
| 32 | SA-3 | X | 0 | 0 | 0 | %100 |
| 33 | SF1-HR | X | -0.005 | -0.005 | 0 | %100 |
| 34 | SF1-TH | X | -0.005 | -0.005 | 0 | %100 |
| 35 | SF2-HR | X | -0.005 | -0.005 | 0 | %100 |
| 36 | SF2-TH | X | -0.005 | -0.005 | 0 | %100 |
| 37 | K1 | X | -0.017 | -0.017 | 0 | %100 |
| 38 | K2 | X | -0.017 | -0.017 | 0 | %100 |
| 39 | K3 | X | -0.017 | -0.017 | 0 | %100 |

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft] | End Magnitude[k/ft.F...] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|-----------------------|--------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.019 | -0.019 | 0 | %100 |
| 2 | CP-1U | X | -0.007 | -0.007 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | -0.019 | -0.019 | 0 | %100 |
| 6 | CP-3U | X | -0.007 | -0.007 | 0 | %100 |
| 7 | FF-HR | X | -0.008 | -0.008 | 0 | %100 |
| 8 | FFTH | X | -0.009 | -0.009 | 0 | %100 |
| 9 | GSI-1 | X | -0.015 | -0.015 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | -0.018 | -0.018 | 0 | %100 |
| 12 | GSIP-1A | X | -1e-6 | -1e-6 | 0 | %100 |
| 13 | GSIP-1B | X | -0.011 | -0.011 | 0 | %100 |
| 14 | GSIP-2A | X | -0.011 | -0.011 | 0 | %100 |
| 15 | GSIP-2B | X | -0.008 | -0.008 | 0 | %100 |
| 16 | GSIP-3A | X | -0.008 | -0.008 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | -0.009 | -0.009 | 0 | %100 |
| 19 | MP-2 | X | -0.009 | -0.009 | 0 | %100 |
| 20 | MP-3 | X | -0.009 | -0.009 | 0 | %100 |
| 21 | MP-4 | X | -0.009 | -0.009 | 0 | %100 |
| 22 | MP-5 | X | -0.009 | -0.009 | 0 | %100 |
| 23 | MP-6 | X | -0.009 | -0.009 | 0 | %100 |
| 24 | MP-7 | X | -0.009 | -0.009 | 0 | %100 |
| 25 | MP-8 | X | -0.009 | -0.009 | 0 | %100 |
| 26 | MP-9 | X | -0.009 | -0.009 | 0 | %100 |
| 27 | MP-10 | X | -0.009 | -0.009 | 0 | %100 |
| 28 | MP-11 | X | -0.009 | -0.009 | 0 | %100 |
| 29 | MP-12 | X | -0.009 | -0.009 | 0 | %100 |
| 30 | SA-1 | X | -0.01 | -0.01 | 0 | %100 |



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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft] | End Magnitude[k/ft.F...] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|-----------------------|--------------------------|----------------------|--------------------|------|
| 31 | SA-2 | X | -0.02 | -0.02 | 0 | %100 |
| 32 | SA-3 | X | -0.007 | -0.007 | 0 | %100 |
| 33 | SF1-HR | X | -0.008 | -0.008 | 0 | %100 |
| 34 | SF1-TH | X | -0.008 | -0.008 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |
| 36 | SF2-TH | X | 0 | 0 | 0 | %100 |
| 37 | K1 | X | -0.014 | -0.014 | 0 | %100 |
| 38 | K2 | X | -0.014 | -0.014 | 0 | %100 |
| 39 | K3 | X | -0.014 | -0.014 | 0 | %100 |
| 40 | CP-1 | Z | -0.011 | -0.011 | 0 | %100 |
| 41 | CP-1U | Z | -0.004 | -0.004 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | -0.011 | -0.011 | 0 | %100 |
| 45 | CP-3U | Z | -0.004 | -0.004 | 0 | %100 |
| 46 | FF-HR | Z | -0.004 | -0.004 | 0 | %100 |
| 47 | FFTH | Z | -0.005 | -0.005 | 0 | %100 |
| 48 | GSI-1 | Z | -0.01 | -0.01 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | -0.01 | -0.01 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.006 | -0.006 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.006 | -0.006 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.006 | -0.006 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.006 | -0.006 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 58 | MP-2 | Z | -0.005 | -0.005 | 0 | %100 |
| 59 | MP-3 | Z | -0.005 | -0.005 | 0 | %100 |
| 60 | MP-4 | Z | -0.005 | -0.005 | 0 | %100 |
| 61 | MP-5 | Z | -0.005 | -0.005 | 0 | %100 |
| 62 | MP-6 | Z | -0.005 | -0.005 | 0 | %100 |
| 63 | MP-7 | Z | -0.005 | -0.005 | 0 | %100 |
| 64 | MP-8 | Z | -0.005 | -0.005 | 0 | %100 |
| 65 | MP-9 | Z | -0.005 | -0.005 | 0 | %100 |
| 66 | MP-10 | Z | -0.005 | -0.005 | 0 | %100 |
| 67 | MP-11 | Z | -0.005 | -0.005 | 0 | %100 |
| 68 | MP-12 | Z | -0.005 | -0.005 | 0 | %100 |
| 69 | SA-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 70 | SA-2 | Z | -0.01 | -0.01 | 0 | %100 |
| 71 | SA-3 | Z | -0.006 | -0.006 | 0 | %100 |
| 72 | SF1-HR | Z | -0.004 | -0.004 | 0 | %100 |
| 73 | SF1-TH | Z | -0.005 | -0.005 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | -0.008 | -0.008 | 0 | %100 |
| 77 | K2 | Z | -0.008 | -0.008 | 0 | %100 |
| 78 | K3 | Z | -0.008 | -0.008 | 0 | %100 |

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft] | End Magnitude[k/ft.F...] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|-----------------------|--------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.018 | -0.018 | 0 | %100 |
| 2 | CP-1U | X | -0.006 | -0.006 | 0 | %100 |
| 3 | CP-2 | X | -0.005 | -0.005 | 0 | %100 |
| 4 | CP-2U | X | -0.002 | -0.002 | 0 | %100 |
| 5 | CP-3 | X | -0.013 | -0.013 | 0 | %100 |



Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 6 | CP-3U | X | -0.05 | -0.05 | 0 | %100 |
| 7 | FF-HR | X | -0.05 | -0.05 | 0 | %100 |
| 8 | FFTH | X | -0.06 | -0.06 | 0 | %100 |
| 9 | GSI-1 | X | -0.14 | -0.14 | 0 | %100 |
| 10 | GSI-2 | X | -0.04 | -0.04 | 0 | %100 |
| 11 | GSI-3 | X | -0.12 | -0.12 | 0 | %100 |
| 12 | GSIP-1A | X | -0.02 | -0.02 | 0 | %100 |
| 13 | GSIP-1B | X | -0.07 | -0.07 | 0 | %100 |
| 14 | GSIP-2A | X | -0.07 | -0.07 | 0 | %100 |
| 15 | GSIP-2B | X | -0.08 | -0.08 | 0 | %100 |
| 16 | GSIP-3A | X | -0.08 | -0.08 | 0 | %100 |
| 17 | GSIP-3B | X | -0.02 | -0.02 | 0 | %100 |
| 18 | MP-1 | X | -0.07 | -0.07 | 0 | %100 |
| 19 | MP-2 | X | -0.07 | -0.07 | 0 | %100 |
| 20 | MP-3 | X | -0.07 | -0.07 | 0 | %100 |
| 21 | MP-4 | X | -0.07 | -0.07 | 0 | %100 |
| 22 | MP-5 | X | -0.07 | -0.07 | 0 | %100 |
| 23 | MP-6 | X | -0.07 | -0.07 | 0 | %100 |
| 24 | MP-7 | X | -0.07 | -0.07 | 0 | %100 |
| 25 | MP-8 | X | -0.07 | -0.07 | 0 | %100 |
| 26 | MP-9 | X | -0.07 | -0.07 | 0 | %100 |
| 27 | MP-10 | X | -0.07 | -0.07 | 0 | %100 |
| 28 | MP-11 | X | -0.07 | -0.07 | 0 | %100 |
| 29 | MP-12 | X | -0.07 | -0.07 | 0 | %100 |
| 30 | SA-1 | X | -0.04 | -0.04 | 0 | %100 |
| 31 | SA-2 | X | -0.16 | -0.16 | 0 | %100 |
| 32 | SA-3 | X | -0.09 | -0.09 | 0 | %100 |
| 33 | SF1-HR | X | -0.07 | -0.07 | 0 | %100 |
| 34 | SF1-TH | X | -0.07 | -0.07 | 0 | %100 |
| 35 | SF2-HR | X | -0.02 | -0.02 | 0 | %100 |
| 36 | SF2-TH | X | -0.02 | -0.02 | 0 | %100 |
| 37 | K1 | X | -0.12 | -0.12 | 0 | %100 |
| 38 | K2 | X | -0.12 | -0.12 | 0 | %100 |
| 39 | K3 | X | -0.12 | -0.12 | 0 | %100 |
| 40 | CP-1 | Z | -0.18 | -0.18 | 0 | %100 |
| 41 | CP-1U | Z | -0.06 | -0.06 | 0 | %100 |
| 42 | CP-2 | Z | -0.05 | -0.05 | 0 | %100 |
| 43 | CP-2U | Z | -0.02 | -0.02 | 0 | %100 |
| 44 | CP-3 | Z | -0.13 | -0.13 | 0 | %100 |
| 45 | CP-3U | Z | -0.05 | -0.05 | 0 | %100 |
| 46 | FF-HR | Z | -0.05 | -0.05 | 0 | %100 |
| 47 | FFTH | Z | -0.06 | -0.06 | 0 | %100 |
| 48 | GSI-1 | Z | -0.16 | -0.16 | 0 | %100 |
| 49 | GSI-2 | Z | -0.04 | -0.04 | 0 | %100 |
| 50 | GSI-3 | Z | -0.12 | -0.12 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.02 | -0.02 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.07 | -0.07 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.07 | -0.07 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.09 | -0.09 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.09 | -0.09 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.02 | -0.02 | 0 | %100 |
| 57 | MP-1 | Z | -0.07 | -0.07 | 0 | %100 |
| 58 | MP-2 | Z | -0.07 | -0.07 | 0 | %100 |
| 59 | MP-3 | Z | -0.07 | -0.07 | 0 | %100 |
| 60 | MP-4 | Z | -0.07 | -0.07 | 0 | %100 |
| 61 | MP-5 | Z | -0.07 | -0.07 | 0 | %100 |
| 62 | MP-6 | Z | -0.07 | -0.07 | 0 | %100 |



Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 63 | MP-7 | Z | -0.07 | -0.07 | 0 | %100 |
| 64 | MP-8 | Z | -0.07 | -0.07 | 0 | %100 |
| 65 | MP-9 | Z | -0.07 | -0.07 | 0 | %100 |
| 66 | MP-10 | Z | -0.07 | -0.07 | 0 | %100 |
| 67 | MP-11 | Z | -0.07 | -0.07 | 0 | %100 |
| 68 | MP-12 | Z | -0.07 | -0.07 | 0 | %100 |
| 69 | SA-1 | Z | -0.04 | -0.04 | 0 | %100 |
| 70 | SA-2 | Z | -0.14 | -0.14 | 0 | %100 |
| 71 | SA-3 | Z | -0.12 | -0.12 | 0 | %100 |
| 72 | SF1-HR | Z | -0.07 | -0.07 | 0 | %100 |
| 73 | SF1-TH | Z | -0.08 | -0.08 | 0 | %100 |
| 74 | SF2-HR | Z | -0.02 | -0.02 | 0 | %100 |
| 75 | SF2-TH | Z | -0.02 | -0.02 | 0 | %100 |
| 76 | K1 | Z | -0.12 | -0.12 | 0 | %100 |
| 77 | K2 | Z | -0.12 | -0.12 | 0 | %100 |
| 78 | K3 | Z | -0.12 | -0.12 | 0 | %100 |

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.13 | -0.13 | 0 | %100 |
| 2 | CP-1U | X | -0.04 | -0.04 | 0 | %100 |
| 3 | CP-2 | X | -0.06 | -0.06 | 0 | %100 |
| 4 | CP-2U | X | -0.02 | -0.02 | 0 | %100 |
| 5 | CP-3 | X | -0.06 | -0.06 | 0 | %100 |
| 6 | CP-3U | X | -0.02 | -0.02 | 0 | %100 |
| 7 | FF-HR | X | -0.03 | -0.03 | 0 | %100 |
| 8 | FFTH | X | -0.03 | -0.03 | 0 | %100 |
| 9 | GSI-1 | X | -0.1 | -0.1 | 0 | %100 |
| 10 | GSI-2 | X | -0.05 | -0.05 | 0 | %100 |
| 11 | GSI-3 | X | -0.06 | -0.06 | 0 | %100 |
| 12 | GSIP-1A | X | -0.03 | -0.03 | 0 | %100 |
| 13 | GSIP-1B | X | -0.04 | -0.04 | 0 | %100 |
| 14 | GSIP-2A | X | -0.04 | -0.04 | 0 | %100 |
| 15 | GSIP-2B | X | -0.06 | -0.06 | 0 | %100 |
| 16 | GSIP-3A | X | -0.06 | -0.06 | 0 | %100 |
| 17 | GSIP-3B | X | -0.03 | -0.03 | 0 | %100 |
| 18 | MP-1 | X | -0.05 | -0.05 | 0 | %100 |
| 19 | MP-2 | X | -0.05 | -0.05 | 0 | %100 |
| 20 | MP-3 | X | -0.05 | -0.05 | 0 | %100 |
| 21 | MP-4 | X | -0.05 | -0.05 | 0 | %100 |
| 22 | MP-5 | X | -0.05 | -0.05 | 0 | %100 |
| 23 | MP-6 | X | -0.05 | -0.05 | 0 | %100 |
| 24 | MP-7 | X | -0.05 | -0.05 | 0 | %100 |
| 25 | MP-8 | X | -0.05 | -0.05 | 0 | %100 |
| 26 | MP-9 | X | -0.05 | -0.05 | 0 | %100 |
| 27 | MP-10 | X | -0.05 | -0.05 | 0 | %100 |
| 28 | MP-11 | X | -0.05 | -0.05 | 0 | %100 |
| 29 | MP-12 | X | -0.05 | -0.05 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | -0.1 | -0.1 | 0 | %100 |
| 32 | SA-3 | X | -0.07 | -0.07 | 0 | %100 |
| 33 | SF1-HR | X | -0.05 | -0.05 | 0 | %100 |
| 34 | SF1-TH | X | -0.05 | -0.05 | 0 | %100 |
| 35 | SF2-HR | X | -0.03 | -0.03 | 0 | %100 |
| 36 | SF2-TH | X | -0.03 | -0.03 | 0 | %100 |
| 37 | K1 | X | -0.08 | -0.08 | 0 | %100 |



Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 38 | K2 | X | -0.08 | -0.08 | 0 | %100 |
| 39 | K3 | X | -0.08 | -0.08 | 0 | %100 |
| 40 | CP-1 | Z | -0.22 | -0.22 | 0 | %100 |
| 41 | CP-1U | Z | -0.08 | -0.08 | 0 | %100 |
| 42 | CP-2 | Z | -0.11 | -0.11 | 0 | %100 |
| 43 | CP-2U | Z | -0.04 | -0.04 | 0 | %100 |
| 44 | CP-3 | Z | -0.11 | -0.11 | 0 | %100 |
| 45 | CP-3U | Z | -0.04 | -0.04 | 0 | %100 |
| 46 | FF-HR | Z | -0.04 | -0.04 | 0 | %100 |
| 47 | FFTH | Z | -0.05 | -0.05 | 0 | %100 |
| 48 | GSI-1 | Z | -0.2 | -0.2 | 0 | %100 |
| 49 | GSI-2 | Z | -0.1 | -0.1 | 0 | %100 |
| 50 | GSI-3 | Z | -0.1 | -0.1 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.06 | -0.06 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.06 | -0.06 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.06 | -0.06 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.12 | -0.12 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.12 | -0.12 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.06 | -0.06 | 0 | %100 |
| 57 | MP-1 | Z | -0.09 | -0.09 | 0 | %100 |
| 58 | MP-2 | Z | -0.09 | -0.09 | 0 | %100 |
| 59 | MP-3 | Z | -0.09 | -0.09 | 0 | %100 |
| 60 | MP-4 | Z | -0.09 | -0.09 | 0 | %100 |
| 61 | MP-5 | Z | -0.09 | -0.09 | 0 | %100 |
| 62 | MP-6 | Z | -0.09 | -0.09 | 0 | %100 |
| 63 | MP-7 | Z | -0.09 | -0.09 | 0 | %100 |
| 64 | MP-8 | Z | -0.09 | -0.09 | 0 | %100 |
| 65 | MP-9 | Z | -0.09 | -0.09 | 0 | %100 |
| 66 | MP-10 | Z | -0.09 | -0.09 | 0 | %100 |
| 67 | MP-11 | Z | -0.09 | -0.09 | 0 | %100 |
| 68 | MP-12 | Z | -0.09 | -0.09 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | -0.15 | -0.15 | 0 | %100 |
| 71 | SA-3 | Z | -0.18 | -0.18 | 0 | %100 |
| 72 | SF1-HR | Z | -0.09 | -0.09 | 0 | %100 |
| 73 | SF1-TH | Z | -0.1 | -0.1 | 0 | %100 |
| 74 | SF2-HR | Z | -0.04 | -0.04 | 0 | %100 |
| 75 | SF2-TH | Z | -0.05 | -0.05 | 0 | %100 |
| 76 | K1 | Z | -0.14 | -0.14 | 0 | %100 |
| 77 | K2 | Z | -0.14 | -0.14 | 0 | %100 |
| 78 | K3 | Z | -0.14 | -0.14 | 0 | %100 |

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | -0.22 | -0.22 | 0 | %100 |
| 2 | CP-1U | Z | -0.08 | -0.08 | 0 | %100 |
| 3 | CP-2 | Z | -0.22 | -0.22 | 0 | %100 |
| 4 | CP-2U | Z | -0.08 | -0.08 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | -0.2 | -0.2 | 0 | %100 |
| 10 | GSI-2 | Z | -0.2 | -0.2 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | -0.12 | -0.12 | 0 | %100 |



Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | -0.12 | -0.12 | 0 | %100 |
| 16 | GSIP-3A | Z | -0.12 | -0.12 | 0 | %100 |
| 17 | GSIP-3B | Z | -0.12 | -0.12 | 0 | %100 |
| 18 | MP-1 | Z | -0.1 | -0.1 | 0 | %100 |
| 19 | MP-2 | Z | -0.1 | -0.1 | 0 | %100 |
| 20 | MP-3 | Z | -0.1 | -0.1 | 0 | %100 |
| 21 | MP-4 | Z | -0.1 | -0.1 | 0 | %100 |
| 22 | MP-5 | Z | -0.1 | -0.1 | 0 | %100 |
| 23 | MP-6 | Z | -0.1 | -0.1 | 0 | %100 |
| 24 | MP-7 | Z | -0.1 | -0.1 | 0 | %100 |
| 25 | MP-8 | Z | -0.1 | -0.1 | 0 | %100 |
| 26 | MP-9 | Z | -0.1 | -0.1 | 0 | %100 |
| 27 | MP-10 | Z | -0.1 | -0.1 | 0 | %100 |
| 28 | MP-11 | Z | -0.1 | -0.1 | 0 | %100 |
| 29 | MP-12 | Z | -0.1 | -0.1 | 0 | %100 |
| 30 | SA-1 | Z | -0.1 | -0.1 | 0 | %100 |
| 31 | SA-2 | Z | -0.1 | -0.1 | 0 | %100 |
| 32 | SA-3 | Z | -0.24 | -0.24 | 0 | %100 |
| 33 | SF1-HR | Z | -0.09 | -0.09 | 0 | %100 |
| 34 | SF1-TH | Z | -0.1 | -0.1 | 0 | %100 |
| 35 | SF2-HR | Z | -0.09 | -0.09 | 0 | %100 |
| 36 | SF2-TH | Z | -0.1 | -0.1 | 0 | %100 |
| 37 | K1 | Z | -0.17 | -0.17 | 0 | %100 |
| 38 | K2 | Z | -0.17 | -0.17 | 0 | %100 |
| 39 | K3 | Z | -0.17 | -0.17 | 0 | %100 |

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .06 | .06 | 0 | %100 |
| 2 | CP-1U | X | .02 | .02 | 0 | %100 |
| 3 | CP-2 | X | .013 | .013 | 0 | %100 |
| 4 | CP-2U | X | .04 | .04 | 0 | %100 |
| 5 | CP-3 | X | .06 | .06 | 0 | %100 |
| 6 | CP-3U | X | .02 | .02 | 0 | %100 |
| 7 | FF-HR | X | .03 | .03 | 0 | %100 |
| 8 | FFTH | X | .03 | .03 | 0 | %100 |
| 9 | GSI-1 | X | .05 | .05 | 0 | %100 |
| 10 | GSI-2 | X | .1 | .1 | 0 | %100 |
| 11 | GSI-3 | X | .06 | .06 | 0 | %100 |
| 12 | GSIP-1A | X | .06 | .06 | 0 | %100 |
| 13 | GSIP-1B | X | .04 | .04 | 0 | %100 |
| 14 | GSIP-2A | X | .04 | .04 | 0 | %100 |
| 15 | GSIP-2B | X | .03 | .03 | 0 | %100 |
| 16 | GSIP-3A | X | .03 | .03 | 0 | %100 |
| 17 | GSIP-3B | X | .06 | .06 | 0 | %100 |
| 18 | MP-1 | X | .05 | .05 | 0 | %100 |
| 19 | MP-2 | X | .05 | .05 | 0 | %100 |
| 20 | MP-3 | X | .05 | .05 | 0 | %100 |
| 21 | MP-4 | X | .05 | .05 | 0 | %100 |
| 22 | MP-5 | X | .05 | .05 | 0 | %100 |
| 23 | MP-6 | X | .05 | .05 | 0 | %100 |
| 24 | MP-7 | X | .05 | .05 | 0 | %100 |
| 25 | MP-8 | X | .05 | .05 | 0 | %100 |
| 26 | MP-9 | X | .05 | .05 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 27 | MP-10 | X | .005 | .005 | 0 | %100 |
| 28 | MP-11 | X | .005 | .005 | 0 | %100 |
| 29 | MP-12 | X | .005 | .005 | 0 | %100 |
| 30 | SA-1 | X | .01 | .01 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |
| 33 | SF1-HR | X | .003 | .003 | 0 | %100 |
| 34 | SF1-TH | X | .003 | .003 | 0 | %100 |
| 35 | SF2-HR | X | .005 | .005 | 0 | %100 |
| 36 | SF2-TH | X | .005 | .005 | 0 | %100 |
| 37 | K1 | X | .008 | .008 | 0 | %100 |
| 38 | K2 | X | .008 | .008 | 0 | %100 |
| 39 | K3 | X | .008 | .008 | 0 | %100 |
| 40 | CP-1 | Z | -.011 | -.011 | 0 | %100 |
| 41 | CP-1U | Z | -.004 | -.004 | 0 | %100 |
| 42 | CP-2 | Z | -.022 | -.022 | 0 | %100 |
| 43 | CP-2U | Z | -.008 | -.008 | 0 | %100 |
| 44 | CP-3 | Z | -.011 | -.011 | 0 | %100 |
| 45 | CP-3U | Z | -.004 | -.004 | 0 | %100 |
| 46 | FF-HR | Z | -.004 | -.004 | 0 | %100 |
| 47 | FFTH | Z | -.005 | -.005 | 0 | %100 |
| 48 | GSI-1 | Z | -.01 | -.01 | 0 | %100 |
| 49 | GSI-2 | Z | -.02 | -.02 | 0 | %100 |
| 50 | GSI-3 | Z | -.01 | -.01 | 0 | %100 |
| 51 | GSIP-1A | Z | -.012 | -.012 | 0 | %100 |
| 52 | GSIP-1B | Z | -.006 | -.006 | 0 | %100 |
| 53 | GSIP-2A | Z | -.006 | -.006 | 0 | %100 |
| 54 | GSIP-2B | Z | -.006 | -.006 | 0 | %100 |
| 55 | GSIP-3A | Z | -.006 | -.006 | 0 | %100 |
| 56 | GSIP-3B | Z | -.012 | -.012 | 0 | %100 |
| 57 | MP-1 | Z | -.009 | -.009 | 0 | %100 |
| 58 | MP-2 | Z | -.009 | -.009 | 0 | %100 |
| 59 | MP-3 | Z | -.009 | -.009 | 0 | %100 |
| 60 | MP-4 | Z | -.009 | -.009 | 0 | %100 |
| 61 | MP-5 | Z | -.009 | -.009 | 0 | %100 |
| 62 | MP-6 | Z | -.009 | -.009 | 0 | %100 |
| 63 | MP-7 | Z | -.009 | -.009 | 0 | %100 |
| 64 | MP-8 | Z | -.009 | -.009 | 0 | %100 |
| 65 | MP-9 | Z | -.009 | -.009 | 0 | %100 |
| 66 | MP-10 | Z | -.009 | -.009 | 0 | %100 |
| 67 | MP-11 | Z | -.009 | -.009 | 0 | %100 |
| 68 | MP-12 | Z | -.009 | -.009 | 0 | %100 |
| 69 | SA-1 | Z | -.015 | -.015 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | -.018 | -.018 | 0 | %100 |
| 72 | SF1-HR | Z | -.004 | -.004 | 0 | %100 |
| 73 | SF1-TH | Z | -.005 | -.005 | 0 | %100 |
| 74 | SF2-HR | Z | -.009 | -.009 | 0 | %100 |
| 75 | SF2-TH | Z | -.01 | -.01 | 0 | %100 |
| 76 | K1 | Z | -.014 | -.014 | 0 | %100 |
| 77 | K2 | Z | -.014 | -.014 | 0 | %100 |
| 78 | K3 | Z | -.014 | -.014 | 0 | %100 |

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .005 | .005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 2 | CP-1U | X | .002 | .002 | 0 | %100 |
| 3 | CP-2 | X | .018 | .018 | 0 | %100 |
| 4 | CP-2U | X | .006 | .006 | 0 | %100 |
| 5 | CP-3 | X | .013 | .013 | 0 | %100 |
| 6 | CP-3U | X | .005 | .005 | 0 | %100 |
| 7 | FF-HR | X | .005 | .005 | 0 | %100 |
| 8 | FFTH | X | .006 | .006 | 0 | %100 |
| 9 | GSI-1 | X | .004 | .004 | 0 | %100 |
| 10 | GSI-2 | X | .014 | .014 | 0 | %100 |
| 11 | GSI-3 | X | .012 | .012 | 0 | %100 |
| 12 | GSIP-1A | X | .008 | .008 | 0 | %100 |
| 13 | GSIP-1B | X | .007 | .007 | 0 | %100 |
| 14 | GSIP-2A | X | .007 | .007 | 0 | %100 |
| 15 | GSIP-2B | X | .002 | .002 | 0 | %100 |
| 16 | GSIP-3A | X | .002 | .002 | 0 | %100 |
| 17 | GSIP-3B | X | .008 | .008 | 0 | %100 |
| 18 | MP-1 | X | .007 | .007 | 0 | %100 |
| 19 | MP-2 | X | .007 | .007 | 0 | %100 |
| 20 | MP-3 | X | .007 | .007 | 0 | %100 |
| 21 | MP-4 | X | .007 | .007 | 0 | %100 |
| 22 | MP-5 | X | .007 | .007 | 0 | %100 |
| 23 | MP-6 | X | .007 | .007 | 0 | %100 |
| 24 | MP-7 | X | .007 | .007 | 0 | %100 |
| 25 | MP-8 | X | .007 | .007 | 0 | %100 |
| 26 | MP-9 | X | .007 | .007 | 0 | %100 |
| 27 | MP-10 | X | .007 | .007 | 0 | %100 |
| 28 | MP-11 | X | .007 | .007 | 0 | %100 |
| 29 | MP-12 | X | .007 | .007 | 0 | %100 |
| 30 | SA-1 | X | .016 | .016 | 0 | %100 |
| 31 | SA-2 | X | .004 | .004 | 0 | %100 |
| 32 | SA-3 | X | .009 | .009 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .002 | .002 | 0 | %100 |
| 35 | SF2-HR | X | .007 | .007 | 0 | %100 |
| 36 | SF2-TH | X | .007 | .007 | 0 | %100 |
| 37 | K1 | X | .012 | .012 | 0 | %100 |
| 38 | K2 | X | .012 | .012 | 0 | %100 |
| 39 | K3 | X | .012 | .012 | 0 | %100 |
| 40 | CP-1 | Z | -.005 | -.005 | 0 | %100 |
| 41 | CP-1U | Z | -.002 | -.002 | 0 | %100 |
| 42 | CP-2 | Z | -.018 | -.018 | 0 | %100 |
| 43 | CP-2U | Z | -.006 | -.006 | 0 | %100 |
| 44 | CP-3 | Z | -.013 | -.013 | 0 | %100 |
| 45 | CP-3U | Z | -.005 | -.005 | 0 | %100 |
| 46 | FF-HR | Z | -.005 | -.005 | 0 | %100 |
| 47 | FFTH | Z | -.006 | -.006 | 0 | %100 |
| 48 | GSI-1 | Z | -.004 | -.004 | 0 | %100 |
| 49 | GSI-2 | Z | -.016 | -.016 | 0 | %100 |
| 50 | GSI-3 | Z | -.012 | -.012 | 0 | %100 |
| 51 | GSIP-1A | Z | -.009 | -.009 | 0 | %100 |
| 52 | GSIP-1B | Z | -.007 | -.007 | 0 | %100 |
| 53 | GSIP-2A | Z | -.007 | -.007 | 0 | %100 |
| 54 | GSIP-2B | Z | -.002 | -.002 | 0 | %100 |
| 55 | GSIP-3A | Z | -.002 | -.002 | 0 | %100 |
| 56 | GSIP-3B | Z | -.009 | -.009 | 0 | %100 |
| 57 | MP-1 | Z | -.007 | -.007 | 0 | %100 |
| 58 | MP-2 | Z | -.007 | -.007 | 0 | %100 |



Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 59 | MP-3 | Z | -0.07 | -0.07 | 0 | %100 |
| 60 | MP-4 | Z | -0.07 | -0.07 | 0 | %100 |
| 61 | MP-5 | Z | -0.07 | -0.07 | 0 | %100 |
| 62 | MP-6 | Z | -0.07 | -0.07 | 0 | %100 |
| 63 | MP-7 | Z | -0.07 | -0.07 | 0 | %100 |
| 64 | MP-8 | Z | -0.07 | -0.07 | 0 | %100 |
| 65 | MP-9 | Z | -0.07 | -0.07 | 0 | %100 |
| 66 | MP-10 | Z | -0.07 | -0.07 | 0 | %100 |
| 67 | MP-11 | Z | -0.07 | -0.07 | 0 | %100 |
| 68 | MP-12 | Z | -0.07 | -0.07 | 0 | %100 |
| 69 | SA-1 | Z | -0.14 | -0.14 | 0 | %100 |
| 70 | SA-2 | Z | -0.04 | -0.04 | 0 | %100 |
| 71 | SA-3 | Z | -0.12 | -0.12 | 0 | %100 |
| 72 | SF1-HR | Z | -0.02 | -0.02 | 0 | %100 |
| 73 | SF1-TH | Z | -0.02 | -0.02 | 0 | %100 |
| 74 | SF2-HR | Z | -0.07 | -0.07 | 0 | %100 |
| 75 | SF2-TH | Z | -0.08 | -0.08 | 0 | %100 |
| 76 | K1 | Z | -0.12 | -0.12 | 0 | %100 |
| 77 | K2 | Z | -0.12 | -0.12 | 0 | %100 |
| 78 | K3 | Z | -0.12 | -0.12 | 0 | %100 |

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0 | 0 | 0 | %100 |
| 2 | CP-1U | X | 0 | 0 | 0 | %100 |
| 3 | CP-2 | X | .019 | .019 | 0 | %100 |
| 4 | CP-2U | X | .007 | .007 | 0 | %100 |
| 5 | CP-3 | X | .019 | .019 | 0 | %100 |
| 6 | CP-3U | X | .007 | .007 | 0 | %100 |
| 7 | FF-HR | X | .008 | .008 | 0 | %100 |
| 8 | FFTH | X | .009 | .009 | 0 | %100 |
| 9 | GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 | GSI-2 | X | .015 | .015 | 0 | %100 |
| 11 | GSI-3 | X | .018 | .018 | 0 | %100 |
| 12 | GSIP-1A | X | .008 | .008 | 0 | %100 |
| 13 | GSIP-1B | X | .011 | .011 | 0 | %100 |
| 14 | GSIP-2A | X | .011 | .011 | 0 | %100 |
| 15 | GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 | GSIP-3A | X | 1e-6 | 1e-6 | 0 | %100 |
| 17 | GSIP-3B | X | .008 | .008 | 0 | %100 |
| 18 | MP-1 | X | .009 | .009 | 0 | %100 |
| 19 | MP-2 | X | .009 | .009 | 0 | %100 |
| 20 | MP-3 | X | .009 | .009 | 0 | %100 |
| 21 | MP-4 | X | .009 | .009 | 0 | %100 |
| 22 | MP-5 | X | .009 | .009 | 0 | %100 |
| 23 | MP-6 | X | .009 | .009 | 0 | %100 |
| 24 | MP-7 | X | .009 | .009 | 0 | %100 |
| 25 | MP-8 | X | .009 | .009 | 0 | %100 |
| 26 | MP-9 | X | .009 | .009 | 0 | %100 |
| 27 | MP-10 | X | .009 | .009 | 0 | %100 |
| 28 | MP-11 | X | .009 | .009 | 0 | %100 |
| 29 | MP-12 | X | .009 | .009 | 0 | %100 |
| 30 | SA-1 | X | .02 | .02 | 0 | %100 |
| 31 | SA-2 | X | .01 | .01 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |
| 33 | SF1-HR | X | 0 | 0 | 0 | %100 |



Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 34 | SF1-TH | X | 0 | 0 | 0 | %100 |
| 35 | SF2-HR | X | .008 | .008 | 0 | %100 |
| 36 | SF2-TH | X | .008 | .008 | 0 | %100 |
| 37 | K1 | X | .014 | .014 | 0 | %100 |
| 38 | K2 | X | .014 | .014 | 0 | %100 |
| 39 | K3 | X | .014 | .014 | 0 | %100 |
| 40 | CP-1 | Z | 0 | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | 0 | %100 |
| 42 | CP-2 | Z | -.011 | -.011 | 0 | %100 |
| 43 | CP-2U | Z | -.004 | -.004 | 0 | %100 |
| 44 | CP-3 | Z | -.011 | -.011 | 0 | %100 |
| 45 | CP-3U | Z | -.004 | -.004 | 0 | %100 |
| 46 | FF-HR | Z | -.004 | -.004 | 0 | %100 |
| 47 | FFTH | Z | -.005 | -.005 | 0 | %100 |
| 48 | GSI-1 | Z | 0 | 0 | 0 | %100 |
| 49 | GSI-2 | Z | -.01 | -.01 | 0 | %100 |
| 50 | GSI-3 | Z | -.01 | -.01 | 0 | %100 |
| 51 | GSIP-1A | Z | -.006 | -.006 | 0 | %100 |
| 52 | GSIP-1B | Z | -.006 | -.006 | 0 | %100 |
| 53 | GSIP-2A | Z | -.006 | -.006 | 0 | %100 |
| 54 | GSIP-2B | Z | 0 | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | -.006 | -.006 | 0 | %100 |
| 57 | MP-1 | Z | -.005 | -.005 | 0 | %100 |
| 58 | MP-2 | Z | -.005 | -.005 | 0 | %100 |
| 59 | MP-3 | Z | -.005 | -.005 | 0 | %100 |
| 60 | MP-4 | Z | -.005 | -.005 | 0 | %100 |
| 61 | MP-5 | Z | -.005 | -.005 | 0 | %100 |
| 62 | MP-6 | Z | -.005 | -.005 | 0 | %100 |
| 63 | MP-7 | Z | -.005 | -.005 | 0 | %100 |
| 64 | MP-8 | Z | -.005 | -.005 | 0 | %100 |
| 65 | MP-9 | Z | -.005 | -.005 | 0 | %100 |
| 66 | MP-10 | Z | -.005 | -.005 | 0 | %100 |
| 67 | MP-11 | Z | -.005 | -.005 | 0 | %100 |
| 68 | MP-12 | Z | -.005 | -.005 | 0 | %100 |
| 69 | SA-1 | Z | -.01 | -.01 | 0 | %100 |
| 70 | SA-2 | Z | -.005 | -.005 | 0 | %100 |
| 71 | SA-3 | Z | -.006 | -.006 | 0 | %100 |
| 72 | SF1-HR | Z | 0 | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | 0 | %100 |
| 74 | SF2-HR | Z | -.004 | -.004 | 0 | %100 |
| 75 | SF2-TH | Z | -.005 | -.005 | 0 | %100 |
| 76 | K1 | Z | -.008 | -.008 | 0 | %100 |
| 77 | K2 | Z | -.008 | -.008 | 0 | %100 |
| 78 | K3 | Z | -.008 | -.008 | 0 | %100 |

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .013 | .013 | 0 | %100 |
| 2 | CP-1U | X | .004 | .004 | 0 | %100 |
| 3 | CP-2 | X | .013 | .013 | 0 | %100 |
| 4 | CP-2U | X | .004 | .004 | 0 | %100 |
| 5 | CP-3 | X | .026 | .026 | 0 | %100 |
| 6 | CP-3U | X | .01 | .01 | 0 | %100 |
| 7 | FF-HR | X | .01 | .01 | 0 | %100 |
| 8 | FFTH | X | .011 | .011 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 9 | GSI-1 | X | .01 | .01 | 0 | %100 |
| 10 | GSI-2 | X | .01 | .01 | 0 | %100 |
| 11 | GSI-3 | X | .024 | .024 | 0 | %100 |
| 12 | GSIP-1A | X | .006 | .006 | 0 | %100 |
| 13 | GSIP-1B | X | .014 | .014 | 0 | %100 |
| 14 | GSIP-2A | X | .014 | .014 | 0 | %100 |
| 15 | GSIP-2B | X | .006 | .006 | 0 | %100 |
| 16 | GSIP-3A | X | .006 | .006 | 0 | %100 |
| 17 | GSIP-3B | X | .006 | .006 | 0 | %100 |
| 18 | MP-1 | X | .01 | .01 | 0 | %100 |
| 19 | MP-2 | X | .01 | .01 | 0 | %100 |
| 20 | MP-3 | X | .01 | .01 | 0 | %100 |
| 21 | MP-4 | X | .01 | .01 | 0 | %100 |
| 22 | MP-5 | X | .01 | .01 | 0 | %100 |
| 23 | MP-6 | X | .01 | .01 | 0 | %100 |
| 24 | MP-7 | X | .01 | .01 | 0 | %100 |
| 25 | MP-8 | X | .01 | .01 | 0 | %100 |
| 26 | MP-9 | X | .01 | .01 | 0 | %100 |
| 27 | MP-10 | X | .01 | .01 | 0 | %100 |
| 28 | MP-11 | X | .01 | .01 | 0 | %100 |
| 29 | MP-12 | X | .01 | .01 | 0 | %100 |
| 30 | SA-1 | X | .02 | .02 | 0 | %100 |
| 31 | SA-2 | X | .02 | .02 | 0 | %100 |
| 32 | SA-3 | X | 0 | 0 | 0 | %100 |
| 33 | SF1-HR | X | .005 | .005 | 0 | %100 |
| 34 | SF1-TH | X | .005 | .005 | 0 | %100 |
| 35 | SF2-HR | X | .005 | .005 | 0 | %100 |
| 36 | SF2-TH | X | .005 | .005 | 0 | %100 |
| 37 | K1 | X | .017 | .017 | 0 | %100 |
| 38 | K2 | X | .017 | .017 | 0 | %100 |
| 39 | K3 | X | .017 | .017 | 0 | %100 |

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .019 | .019 | 0 | %100 |
| 2 | CP-1U | X | .007 | .007 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | .019 | .019 | 0 | %100 |
| 6 | CP-3U | X | .007 | .007 | 0 | %100 |
| 7 | FF-HR | X | .008 | .008 | 0 | %100 |
| 8 | FFTH | X | .009 | .009 | 0 | %100 |
| 9 | GSI-1 | X | .015 | .015 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | .018 | .018 | 0 | %100 |
| 12 | GSIP-1A | X | 1e-6 | 1e-6 | 0 | %100 |
| 13 | GSIP-1B | X | .011 | .011 | 0 | %100 |
| 14 | GSIP-2A | X | .011 | .011 | 0 | %100 |
| 15 | GSIP-2B | X | .008 | .008 | 0 | %100 |
| 16 | GSIP-3A | X | .008 | .008 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | .009 | .009 | 0 | %100 |
| 19 | MP-2 | X | .009 | .009 | 0 | %100 |
| 20 | MP-3 | X | .009 | .009 | 0 | %100 |
| 21 | MP-4 | X | .009 | .009 | 0 | %100 |
| 22 | MP-5 | X | .009 | .009 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 23 | MP-6 | X | .009 | .009 | 0 | %100 |
| 24 | MP-7 | X | .009 | .009 | 0 | %100 |
| 25 | MP-8 | X | .009 | .009 | 0 | %100 |
| 26 | MP-9 | X | .009 | .009 | 0 | %100 |
| 27 | MP-10 | X | .009 | .009 | 0 | %100 |
| 28 | MP-11 | X | .009 | .009 | 0 | %100 |
| 29 | MP-12 | X | .009 | .009 | 0 | %100 |
| 30 | SA-1 | X | .01 | .01 | 0 | %100 |
| 31 | SA-2 | X | .02 | .02 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |
| 33 | SF1-HR | X | .008 | .008 | 0 | %100 |
| 34 | SF1-TH | X | .008 | .008 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |
| 36 | SF2-TH | X | 0 | 0 | 0 | %100 |
| 37 | K1 | X | .014 | .014 | 0 | %100 |
| 38 | K2 | X | .014 | .014 | 0 | %100 |
| 39 | K3 | X | .014 | .014 | 0 | %100 |
| 40 | CP-1 | Z | .011 | .011 | 0 | %100 |
| 41 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | .01 | .01 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | .006 | .006 | 0 | %100 |
| 55 | GSIP-3A | Z | .006 | .006 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | .005 | .005 | 0 | %100 |
| 58 | MP-2 | Z | .005 | .005 | 0 | %100 |
| 59 | MP-3 | Z | .005 | .005 | 0 | %100 |
| 60 | MP-4 | Z | .005 | .005 | 0 | %100 |
| 61 | MP-5 | Z | .005 | .005 | 0 | %100 |
| 62 | MP-6 | Z | .005 | .005 | 0 | %100 |
| 63 | MP-7 | Z | .005 | .005 | 0 | %100 |
| 64 | MP-8 | Z | .005 | .005 | 0 | %100 |
| 65 | MP-9 | Z | .005 | .005 | 0 | %100 |
| 66 | MP-10 | Z | .005 | .005 | 0 | %100 |
| 67 | MP-11 | Z | .005 | .005 | 0 | %100 |
| 68 | MP-12 | Z | .005 | .005 | 0 | %100 |
| 69 | SA-1 | Z | .005 | .005 | 0 | %100 |
| 70 | SA-2 | Z | .01 | .01 | 0 | %100 |
| 71 | SA-3 | Z | .006 | .006 | 0 | %100 |
| 72 | SF1-HR | Z | .004 | .004 | 0 | %100 |
| 73 | SF1-TH | Z | .005 | .005 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | .008 | .008 | 0 | %100 |
| 77 | K2 | Z | .008 | .008 | 0 | %100 |
| 78 | K3 | Z | .008 | .008 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .018 | .018 | 0 | %100 |
| 2 | CP-1U | X | .006 | .006 | 0 | %100 |
| 3 | CP-2 | X | .005 | .005 | 0 | %100 |
| 4 | CP-2U | X | .002 | .002 | 0 | %100 |
| 5 | CP-3 | X | .013 | .013 | 0 | %100 |
| 6 | CP-3U | X | .005 | .005 | 0 | %100 |
| 7 | FF-HR | X | .005 | .005 | 0 | %100 |
| 8 | FFTH | X | .006 | .006 | 0 | %100 |
| 9 | GSI-1 | X | .014 | .014 | 0 | %100 |
| 10 | GSI-2 | X | .004 | .004 | 0 | %100 |
| 11 | GSI-3 | X | .012 | .012 | 0 | %100 |
| 12 | GSIP-1A | X | .002 | .002 | 0 | %100 |
| 13 | GSIP-1B | X | .007 | .007 | 0 | %100 |
| 14 | GSIP-2A | X | .007 | .007 | 0 | %100 |
| 15 | GSIP-2B | X | .008 | .008 | 0 | %100 |
| 16 | GSIP-3A | X | .008 | .008 | 0 | %100 |
| 17 | GSIP-3B | X | .002 | .002 | 0 | %100 |
| 18 | MP-1 | X | .007 | .007 | 0 | %100 |
| 19 | MP-2 | X | .007 | .007 | 0 | %100 |
| 20 | MP-3 | X | .007 | .007 | 0 | %100 |
| 21 | MP-4 | X | .007 | .007 | 0 | %100 |
| 22 | MP-5 | X | .007 | .007 | 0 | %100 |
| 23 | MP-6 | X | .007 | .007 | 0 | %100 |
| 24 | MP-7 | X | .007 | .007 | 0 | %100 |
| 25 | MP-8 | X | .007 | .007 | 0 | %100 |
| 26 | MP-9 | X | .007 | .007 | 0 | %100 |
| 27 | MP-10 | X | .007 | .007 | 0 | %100 |
| 28 | MP-11 | X | .007 | .007 | 0 | %100 |
| 29 | MP-12 | X | .007 | .007 | 0 | %100 |
| 30 | SA-1 | X | .004 | .004 | 0 | %100 |
| 31 | SA-2 | X | .016 | .016 | 0 | %100 |
| 32 | SA-3 | X | .009 | .009 | 0 | %100 |
| 33 | SF1-HR | X | .007 | .007 | 0 | %100 |
| 34 | SF1-TH | X | .007 | .007 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .002 | .002 | 0 | %100 |
| 37 | K1 | X | .012 | .012 | 0 | %100 |
| 38 | K2 | X | .012 | .012 | 0 | %100 |
| 39 | K3 | X | .012 | .012 | 0 | %100 |
| 40 | CP-1 | Z | .018 | .018 | 0 | %100 |
| 41 | CP-1U | Z | .006 | .006 | 0 | %100 |
| 42 | CP-2 | Z | .005 | .005 | 0 | %100 |
| 43 | CP-2U | Z | .002 | .002 | 0 | %100 |
| 44 | CP-3 | Z | .013 | .013 | 0 | %100 |
| 45 | CP-3U | Z | .005 | .005 | 0 | %100 |
| 46 | FF-HR | Z | .005 | .005 | 0 | %100 |
| 47 | FFTH | Z | .006 | .006 | 0 | %100 |
| 48 | GSI-1 | Z | .016 | .016 | 0 | %100 |
| 49 | GSI-2 | Z | .004 | .004 | 0 | %100 |
| 50 | GSI-3 | Z | .012 | .012 | 0 | %100 |
| 51 | GSIP-1A | Z | .002 | .002 | 0 | %100 |
| 52 | GSIP-1B | Z | .007 | .007 | 0 | %100 |
| 53 | GSIP-2A | Z | .007 | .007 | 0 | %100 |
| 54 | GSIP-2B | Z | .009 | .009 | 0 | %100 |
| 55 | GSIP-3A | Z | .009 | .009 | 0 | %100 |
| 56 | GSIP-3B | Z | .002 | .002 | 0 | %100 |
| 57 | MP-1 | Z | .007 | .007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 58 | MP-2 | Z | .007 | .007 | 0 | %100 |
| 59 | MP-3 | Z | .007 | .007 | 0 | %100 |
| 60 | MP-4 | Z | .007 | .007 | 0 | %100 |
| 61 | MP-5 | Z | .007 | .007 | 0 | %100 |
| 62 | MP-6 | Z | .007 | .007 | 0 | %100 |
| 63 | MP-7 | Z | .007 | .007 | 0 | %100 |
| 64 | MP-8 | Z | .007 | .007 | 0 | %100 |
| 65 | MP-9 | Z | .007 | .007 | 0 | %100 |
| 66 | MP-10 | Z | .007 | .007 | 0 | %100 |
| 67 | MP-11 | Z | .007 | .007 | 0 | %100 |
| 68 | MP-12 | Z | .007 | .007 | 0 | %100 |
| 69 | SA-1 | Z | .004 | .004 | 0 | %100 |
| 70 | SA-2 | Z | .014 | .014 | 0 | %100 |
| 71 | SA-3 | Z | .012 | .012 | 0 | %100 |
| 72 | SF1-HR | Z | .007 | .007 | 0 | %100 |
| 73 | SF1-TH | Z | .008 | .008 | 0 | %100 |
| 74 | SF2-HR | Z | .002 | .002 | 0 | %100 |
| 75 | SF2-TH | Z | .002 | .002 | 0 | %100 |
| 76 | K1 | Z | .012 | .012 | 0 | %100 |
| 77 | K2 | Z | .012 | .012 | 0 | %100 |
| 78 | K3 | Z | .012 | .012 | 0 | %100 |

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .013 | .013 | 0 | %100 |
| 2 | CP-1U | X | .004 | .004 | 0 | %100 |
| 3 | CP-2 | X | .006 | .006 | 0 | %100 |
| 4 | CP-2U | X | .002 | .002 | 0 | %100 |
| 5 | CP-3 | X | .006 | .006 | 0 | %100 |
| 6 | CP-3U | X | .002 | .002 | 0 | %100 |
| 7 | FF-HR | X | .003 | .003 | 0 | %100 |
| 8 | FFTH | X | .003 | .003 | 0 | %100 |
| 9 | GSI-1 | X | .01 | .01 | 0 | %100 |
| 10 | GSI-2 | X | .005 | .005 | 0 | %100 |
| 11 | GSI-3 | X | .006 | .006 | 0 | %100 |
| 12 | GSIP-1A | X | .003 | .003 | 0 | %100 |
| 13 | GSIP-1B | X | .004 | .004 | 0 | %100 |
| 14 | GSIP-2A | X | .004 | .004 | 0 | %100 |
| 15 | GSIP-2B | X | .006 | .006 | 0 | %100 |
| 16 | GSIP-3A | X | .006 | .006 | 0 | %100 |
| 17 | GSIP-3B | X | .003 | .003 | 0 | %100 |
| 18 | MP-1 | X | .005 | .005 | 0 | %100 |
| 19 | MP-2 | X | .005 | .005 | 0 | %100 |
| 20 | MP-3 | X | .005 | .005 | 0 | %100 |
| 21 | MP-4 | X | .005 | .005 | 0 | %100 |
| 22 | MP-5 | X | .005 | .005 | 0 | %100 |
| 23 | MP-6 | X | .005 | .005 | 0 | %100 |
| 24 | MP-7 | X | .005 | .005 | 0 | %100 |
| 25 | MP-8 | X | .005 | .005 | 0 | %100 |
| 26 | MP-9 | X | .005 | .005 | 0 | %100 |
| 27 | MP-10 | X | .005 | .005 | 0 | %100 |
| 28 | MP-11 | X | .005 | .005 | 0 | %100 |
| 29 | MP-12 | X | .005 | .005 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | .01 | .01 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 33 | SF1-HR | X | .005 | .005 | 0 | %100 |
| 34 | SF1-TH | X | .005 | .005 | 0 | %100 |
| 35 | SF2-HR | X | .003 | .003 | 0 | %100 |
| 36 | SF2-TH | X | .003 | .003 | 0 | %100 |
| 37 | K1 | X | .008 | .008 | 0 | %100 |
| 38 | K2 | X | .008 | .008 | 0 | %100 |
| 39 | K3 | X | .008 | .008 | 0 | %100 |
| 40 | CP-1 | Z | .022 | .022 | 0 | %100 |
| 41 | CP-1U | Z | .008 | .008 | 0 | %100 |
| 42 | CP-2 | Z | .011 | .011 | 0 | %100 |
| 43 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | .02 | .02 | 0 | %100 |
| 49 | GSI-2 | Z | .01 | .01 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | .006 | .006 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | .012 | .012 | 0 | %100 |
| 55 | GSIP-3A | Z | .012 | .012 | 0 | %100 |
| 56 | GSIP-3B | Z | .006 | .006 | 0 | %100 |
| 57 | MP-1 | Z | .009 | .009 | 0 | %100 |
| 58 | MP-2 | Z | .009 | .009 | 0 | %100 |
| 59 | MP-3 | Z | .009 | .009 | 0 | %100 |
| 60 | MP-4 | Z | .009 | .009 | 0 | %100 |
| 61 | MP-5 | Z | .009 | .009 | 0 | %100 |
| 62 | MP-6 | Z | .009 | .009 | 0 | %100 |
| 63 | MP-7 | Z | .009 | .009 | 0 | %100 |
| 64 | MP-8 | Z | .009 | .009 | 0 | %100 |
| 65 | MP-9 | Z | .009 | .009 | 0 | %100 |
| 66 | MP-10 | Z | .009 | .009 | 0 | %100 |
| 67 | MP-11 | Z | .009 | .009 | 0 | %100 |
| 68 | MP-12 | Z | .009 | .009 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | .015 | .015 | 0 | %100 |
| 71 | SA-3 | Z | .018 | .018 | 0 | %100 |
| 72 | SF1-HR | Z | .009 | .009 | 0 | %100 |
| 73 | SF1-TH | Z | .01 | .01 | 0 | %100 |
| 74 | SF2-HR | Z | .004 | .004 | 0 | %100 |
| 75 | SF2-TH | Z | .005 | .005 | 0 | %100 |
| 76 | K1 | Z | .014 | .014 | 0 | %100 |
| 77 | K2 | Z | .014 | .014 | 0 | %100 |
| 78 | K3 | Z | .014 | .014 | 0 | %100 |

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | .022 | .022 | 0 | %100 |
| 2 | CP-1U | Z | .008 | .008 | 0 | %100 |
| 3 | CP-2 | Z | .022 | .022 | 0 | %100 |
| 4 | CP-2U | Z | .008 | .008 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | .02 | .02 | 0 | %100 |
| 10 | GSI-2 | Z | .02 | .02 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | .012 | .012 | 0 | %100 |
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | .012 | .012 | 0 | %100 |
| 16 | GSIP-3A | Z | .012 | .012 | 0 | %100 |
| 17 | GSIP-3B | Z | .012 | .012 | 0 | %100 |
| 18 | MP-1 | Z | .01 | .01 | 0 | %100 |
| 19 | MP-2 | Z | .01 | .01 | 0 | %100 |
| 20 | MP-3 | Z | .01 | .01 | 0 | %100 |
| 21 | MP-4 | Z | .01 | .01 | 0 | %100 |
| 22 | MP-5 | Z | .01 | .01 | 0 | %100 |
| 23 | MP-6 | Z | .01 | .01 | 0 | %100 |
| 24 | MP-7 | Z | .01 | .01 | 0 | %100 |
| 25 | MP-8 | Z | .01 | .01 | 0 | %100 |
| 26 | MP-9 | Z | .01 | .01 | 0 | %100 |
| 27 | MP-10 | Z | .01 | .01 | 0 | %100 |
| 28 | MP-11 | Z | .01 | .01 | 0 | %100 |
| 29 | MP-12 | Z | .01 | .01 | 0 | %100 |
| 30 | SA-1 | Z | .01 | .01 | 0 | %100 |
| 31 | SA-2 | Z | .01 | .01 | 0 | %100 |
| 32 | SA-3 | Z | .024 | .024 | 0 | %100 |
| 33 | SF1-HR | Z | .009 | .009 | 0 | %100 |
| 34 | SF1-TH | Z | .01 | .01 | 0 | %100 |
| 35 | SF2-HR | Z | .009 | .009 | 0 | %100 |
| 36 | SF2-TH | Z | .01 | .01 | 0 | %100 |
| 37 | K1 | Z | .017 | .017 | 0 | %100 |
| 38 | K2 | Z | .017 | .017 | 0 | %100 |
| 39 | K3 | Z | .017 | .017 | 0 | %100 |

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -.006 | -.006 | 0 | %100 |
| 2 | CP-1U | X | -.002 | -.002 | 0 | %100 |
| 3 | CP-2 | X | -.013 | -.013 | 0 | %100 |
| 4 | CP-2U | X | -.004 | -.004 | 0 | %100 |
| 5 | CP-3 | X | -.006 | -.006 | 0 | %100 |
| 6 | CP-3U | X | -.002 | -.002 | 0 | %100 |
| 7 | FF-HR | X | -.003 | -.003 | 0 | %100 |
| 8 | FFTH | X | -.003 | -.003 | 0 | %100 |
| 9 | GSI-1 | X | -.005 | -.005 | 0 | %100 |
| 10 | GSI-2 | X | -.01 | -.01 | 0 | %100 |
| 11 | GSI-3 | X | -.006 | -.006 | 0 | %100 |
| 12 | GSIP-1A | X | -.006 | -.006 | 0 | %100 |
| 13 | GSIP-1B | X | -.004 | -.004 | 0 | %100 |
| 14 | GSIP-2A | X | -.004 | -.004 | 0 | %100 |
| 15 | GSIP-2B | X | -.003 | -.003 | 0 | %100 |
| 16 | GSIP-3A | X | -.003 | -.003 | 0 | %100 |
| 17 | GSIP-3B | X | -.006 | -.006 | 0 | %100 |
| 18 | MP-1 | X | -.005 | -.005 | 0 | %100 |
| 19 | MP-2 | X | -.005 | -.005 | 0 | %100 |
| 20 | MP-3 | X | -.005 | -.005 | 0 | %100 |
| 21 | MP-4 | X | -.005 | -.005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 22 | MP-5 | X | -0.05 | -0.05 | 0 | %100 |
| 23 | MP-6 | X | -0.05 | -0.05 | 0 | %100 |
| 24 | MP-7 | X | -0.05 | -0.05 | 0 | %100 |
| 25 | MP-8 | X | -0.05 | -0.05 | 0 | %100 |
| 26 | MP-9 | X | -0.05 | -0.05 | 0 | %100 |
| 27 | MP-10 | X | -0.05 | -0.05 | 0 | %100 |
| 28 | MP-11 | X | -0.05 | -0.05 | 0 | %100 |
| 29 | MP-12 | X | -0.05 | -0.05 | 0 | %100 |
| 30 | SA-1 | X | -.01 | -.01 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |
| 32 | SA-3 | X | -.007 | -.007 | 0 | %100 |
| 33 | SF1-HR | X | -.003 | -.003 | 0 | %100 |
| 34 | SF1-TH | X | -.003 | -.003 | 0 | %100 |
| 35 | SF2-HR | X | -.005 | -.005 | 0 | %100 |
| 36 | SF2-TH | X | -.005 | -.005 | 0 | %100 |
| 37 | K1 | X | -.008 | -.008 | 0 | %100 |
| 38 | K2 | X | -.008 | -.008 | 0 | %100 |
| 39 | K3 | X | -.008 | -.008 | 0 | %100 |
| 40 | CP-1 | Z | .011 | .011 | 0 | %100 |
| 41 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 42 | CP-2 | Z | .022 | .022 | 0 | %100 |
| 43 | CP-2U | Z | .008 | .008 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | .01 | .01 | 0 | %100 |
| 49 | GSI-2 | Z | .02 | .02 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | .012 | .012 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | .006 | .006 | 0 | %100 |
| 55 | GSIP-3A | Z | .006 | .006 | 0 | %100 |
| 56 | GSIP-3B | Z | .012 | .012 | 0 | %100 |
| 57 | MP-1 | Z | .009 | .009 | 0 | %100 |
| 58 | MP-2 | Z | .009 | .009 | 0 | %100 |
| 59 | MP-3 | Z | .009 | .009 | 0 | %100 |
| 60 | MP-4 | Z | .009 | .009 | 0 | %100 |
| 61 | MP-5 | Z | .009 | .009 | 0 | %100 |
| 62 | MP-6 | Z | .009 | .009 | 0 | %100 |
| 63 | MP-7 | Z | .009 | .009 | 0 | %100 |
| 64 | MP-8 | Z | .009 | .009 | 0 | %100 |
| 65 | MP-9 | Z | .009 | .009 | 0 | %100 |
| 66 | MP-10 | Z | .009 | .009 | 0 | %100 |
| 67 | MP-11 | Z | .009 | .009 | 0 | %100 |
| 68 | MP-12 | Z | .009 | .009 | 0 | %100 |
| 69 | SA-1 | Z | .015 | .015 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | .018 | .018 | 0 | %100 |
| 72 | SF1-HR | Z | .004 | .004 | 0 | %100 |
| 73 | SF1-TH | Z | .005 | .005 | 0 | %100 |
| 74 | SF2-HR | Z | .009 | .009 | 0 | %100 |
| 75 | SF2-TH | Z | .01 | .01 | 0 | %100 |
| 76 | K1 | Z | .014 | .014 | 0 | %100 |
| 77 | K2 | Z | .014 | .014 | 0 | %100 |
| 78 | K3 | Z | .014 | .014 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.05 | -0.05 | 0 | %100 |
| 2 | CP-1U | X | -.002 | -.002 | 0 | %100 |
| 3 | CP-2 | X | -.018 | -.018 | 0 | %100 |
| 4 | CP-2U | X | -.006 | -.006 | 0 | %100 |
| 5 | CP-3 | X | -.013 | -.013 | 0 | %100 |
| 6 | CP-3U | X | -.005 | -.005 | 0 | %100 |
| 7 | FF-HR | X | -.005 | -.005 | 0 | %100 |
| 8 | FFTH | X | -.006 | -.006 | 0 | %100 |
| 9 | GSI-1 | X | -.004 | -.004 | 0 | %100 |
| 10 | GSI-2 | X | -.014 | -.014 | 0 | %100 |
| 11 | GSI-3 | X | -.012 | -.012 | 0 | %100 |
| 12 | GSIP-1A | X | -.008 | -.008 | 0 | %100 |
| 13 | GSIP-1B | X | -.007 | -.007 | 0 | %100 |
| 14 | GSIP-2A | X | -.007 | -.007 | 0 | %100 |
| 15 | GSIP-2B | X | -.002 | -.002 | 0 | %100 |
| 16 | GSIP-3A | X | -.002 | -.002 | 0 | %100 |
| 17 | GSIP-3B | X | -.008 | -.008 | 0 | %100 |
| 18 | MP-1 | X | -.007 | -.007 | 0 | %100 |
| 19 | MP-2 | X | -.007 | -.007 | 0 | %100 |
| 20 | MP-3 | X | -.007 | -.007 | 0 | %100 |
| 21 | MP-4 | X | -.007 | -.007 | 0 | %100 |
| 22 | MP-5 | X | -.007 | -.007 | 0 | %100 |
| 23 | MP-6 | X | -.007 | -.007 | 0 | %100 |
| 24 | MP-7 | X | -.007 | -.007 | 0 | %100 |
| 25 | MP-8 | X | -.007 | -.007 | 0 | %100 |
| 26 | MP-9 | X | -.007 | -.007 | 0 | %100 |
| 27 | MP-10 | X | -.007 | -.007 | 0 | %100 |
| 28 | MP-11 | X | -.007 | -.007 | 0 | %100 |
| 29 | MP-12 | X | -.007 | -.007 | 0 | %100 |
| 30 | SA-1 | X | -.016 | -.016 | 0 | %100 |
| 31 | SA-2 | X | -.004 | -.004 | 0 | %100 |
| 32 | SA-3 | X | -.009 | -.009 | 0 | %100 |
| 33 | SF1-HR | X | -.002 | -.002 | 0 | %100 |
| 34 | SF1-TH | X | -.002 | -.002 | 0 | %100 |
| 35 | SF2-HR | X | -.007 | -.007 | 0 | %100 |
| 36 | SF2-TH | X | -.007 | -.007 | 0 | %100 |
| 37 | K1 | X | -.012 | -.012 | 0 | %100 |
| 38 | K2 | X | -.012 | -.012 | 0 | %100 |
| 39 | K3 | X | -.012 | -.012 | 0 | %100 |
| 40 | CP-1 | Z | .005 | .005 | 0 | %100 |
| 41 | CP-1U | Z | .002 | .002 | 0 | %100 |
| 42 | CP-2 | Z | .018 | .018 | 0 | %100 |
| 43 | CP-2U | Z | .006 | .006 | 0 | %100 |
| 44 | CP-3 | Z | .013 | .013 | 0 | %100 |
| 45 | CP-3U | Z | .005 | .005 | 0 | %100 |
| 46 | FF-HR | Z | .005 | .005 | 0 | %100 |
| 47 | FFTH | Z | .006 | .006 | 0 | %100 |
| 48 | GSI-1 | Z | .004 | .004 | 0 | %100 |
| 49 | GSI-2 | Z | .016 | .016 | 0 | %100 |
| 50 | GSI-3 | Z | .012 | .012 | 0 | %100 |
| 51 | GSIP-1A | Z | .009 | .009 | 0 | %100 |
| 52 | GSIP-1B | Z | .007 | .007 | 0 | %100 |
| 53 | GSIP-2A | Z | .007 | .007 | 0 | %100 |
| 54 | GSIP-2B | Z | .002 | .002 | 0 | %100 |
| 55 | GSIP-3A | Z | .002 | .002 | 0 | %100 |
| 56 | GSIP-3B | Z | .009 | .009 | 0 | %100 |
| 57 | MP-1 | Z | .007 | .007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 58 | MP-2 | Z | .007 | .007 | 0 | %100 |
| 59 | MP-3 | Z | .007 | .007 | 0 | %100 |
| 60 | MP-4 | Z | .007 | .007 | 0 | %100 |
| 61 | MP-5 | Z | .007 | .007 | 0 | %100 |
| 62 | MP-6 | Z | .007 | .007 | 0 | %100 |
| 63 | MP-7 | Z | .007 | .007 | 0 | %100 |
| 64 | MP-8 | Z | .007 | .007 | 0 | %100 |
| 65 | MP-9 | Z | .007 | .007 | 0 | %100 |
| 66 | MP-10 | Z | .007 | .007 | 0 | %100 |
| 67 | MP-11 | Z | .007 | .007 | 0 | %100 |
| 68 | MP-12 | Z | .007 | .007 | 0 | %100 |
| 69 | SA-1 | Z | .014 | .014 | 0 | %100 |
| 70 | SA-2 | Z | .004 | .004 | 0 | %100 |
| 71 | SA-3 | Z | .012 | .012 | 0 | %100 |
| 72 | SF1-HR | Z | .002 | .002 | 0 | %100 |
| 73 | SF1-TH | Z | .002 | .002 | 0 | %100 |
| 74 | SF2-HR | Z | .007 | .007 | 0 | %100 |
| 75 | SF2-TH | Z | .008 | .008 | 0 | %100 |
| 76 | K1 | Z | .012 | .012 | 0 | %100 |
| 77 | K2 | Z | .012 | .012 | 0 | %100 |
| 78 | K3 | Z | .012 | .012 | 0 | %100 |

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0 | 0 | 0 | %100 |
| 2 | CP-1U | X | 0 | 0 | 0 | %100 |
| 3 | CP-2 | X | -.019 | -.019 | 0 | %100 |
| 4 | CP-2U | X | -.007 | -.007 | 0 | %100 |
| 5 | CP-3 | X | -.019 | -.019 | 0 | %100 |
| 6 | CP-3U | X | -.007 | -.007 | 0 | %100 |
| 7 | FF-HR | X | -.008 | -.008 | 0 | %100 |
| 8 | FFTH | X | -.009 | -.009 | 0 | %100 |
| 9 | GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 | GSI-2 | X | -.015 | -.015 | 0 | %100 |
| 11 | GSI-3 | X | -.018 | -.018 | 0 | %100 |
| 12 | GSIP-1A | X | -.008 | -.008 | 0 | %100 |
| 13 | GSIP-1B | X | -.011 | -.011 | 0 | %100 |
| 14 | GSIP-2A | X | -.011 | -.011 | 0 | %100 |
| 15 | GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 | GSIP-3A | X | -1e-6 | -1e-6 | 0 | %100 |
| 17 | GSIP-3B | X | -.008 | -.008 | 0 | %100 |
| 18 | MP-1 | X | -.009 | -.009 | 0 | %100 |
| 19 | MP-2 | X | -.009 | -.009 | 0 | %100 |
| 20 | MP-3 | X | -.009 | -.009 | 0 | %100 |
| 21 | MP-4 | X | -.009 | -.009 | 0 | %100 |
| 22 | MP-5 | X | -.009 | -.009 | 0 | %100 |
| 23 | MP-6 | X | -.009 | -.009 | 0 | %100 |
| 24 | MP-7 | X | -.009 | -.009 | 0 | %100 |
| 25 | MP-8 | X | -.009 | -.009 | 0 | %100 |
| 26 | MP-9 | X | -.009 | -.009 | 0 | %100 |
| 27 | MP-10 | X | -.009 | -.009 | 0 | %100 |
| 28 | MP-11 | X | -.009 | -.009 | 0 | %100 |
| 29 | MP-12 | X | -.009 | -.009 | 0 | %100 |
| 30 | SA-1 | X | -.02 | -.02 | 0 | %100 |
| 31 | SA-2 | X | -.01 | -.01 | 0 | %100 |
| 32 | SA-3 | X | -.007 | -.007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 33 | SF1-HR | X | 0 | 0 | 0 | %100 |
| 34 | SF1-TH | X | 0 | 0 | 0 | %100 |
| 35 | SF2-HR | X | -.008 | -.008 | 0 | %100 |
| 36 | SF2-TH | X | -.008 | -.008 | 0 | %100 |
| 37 | K1 | X | -.014 | -.014 | 0 | %100 |
| 38 | K2 | X | -.014 | -.014 | 0 | %100 |
| 39 | K3 | X | -.014 | -.014 | 0 | %100 |
| 40 | CP-1 | Z | 0 | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | 0 | %100 |
| 42 | CP-2 | Z | .011 | .011 | 0 | %100 |
| 43 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | 0 | 0 | 0 | %100 |
| 49 | GSI-2 | Z | .01 | .01 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | .006 | .006 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | 0 | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | .006 | .006 | 0 | %100 |
| 57 | MP-1 | Z | .005 | .005 | 0 | %100 |
| 58 | MP-2 | Z | .005 | .005 | 0 | %100 |
| 59 | MP-3 | Z | .005 | .005 | 0 | %100 |
| 60 | MP-4 | Z | .005 | .005 | 0 | %100 |
| 61 | MP-5 | Z | .005 | .005 | 0 | %100 |
| 62 | MP-6 | Z | .005 | .005 | 0 | %100 |
| 63 | MP-7 | Z | .005 | .005 | 0 | %100 |
| 64 | MP-8 | Z | .005 | .005 | 0 | %100 |
| 65 | MP-9 | Z | .005 | .005 | 0 | %100 |
| 66 | MP-10 | Z | .005 | .005 | 0 | %100 |
| 67 | MP-11 | Z | .005 | .005 | 0 | %100 |
| 68 | MP-12 | Z | .005 | .005 | 0 | %100 |
| 69 | SA-1 | Z | .01 | .01 | 0 | %100 |
| 70 | SA-2 | Z | .005 | .005 | 0 | %100 |
| 71 | SA-3 | Z | .006 | .006 | 0 | %100 |
| 72 | SF1-HR | Z | 0 | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | 0 | %100 |
| 74 | SF2-HR | Z | .004 | .004 | 0 | %100 |
| 75 | SF2-TH | Z | .005 | .005 | 0 | %100 |
| 76 | K1 | Z | .008 | .008 | 0 | %100 |
| 77 | K2 | Z | .008 | .008 | 0 | %100 |
| 78 | K3 | Z | .008 | .008 | 0 | %100 |

Member Distributed Loads (BLC 18 : Ice Weight)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Y | -.017 | -.017 | 0 | %100 |
| 2 | CP-1U | Y | -.006 | -.006 | 0 | %100 |
| 3 | CP-2 | Y | -.017 | -.017 | 0 | %100 |
| 4 | CP-2U | Y | -.006 | -.006 | 0 | %100 |
| 5 | CP-3 | Y | -.017 | -.017 | 0 | %100 |
| 6 | CP-3U | Y | -.006 | -.006 | 0 | %100 |
| 7 | FF-HR | Y | -.007 | -.007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 8 | FFTH | Y | -0.09 | -0.09 | 0 | %100 |
| 9 | GSI-1 | Y | -0.09 | -0.09 | 0 | %100 |
| 10 | GSI-2 | Y | -0.09 | -0.09 | 0 | %100 |
| 11 | GSI-3 | Y | -0.09 | -0.09 | 0 | %100 |
| 12 | GSIP-1A | Y | -0.05 | -0.05 | 0 | %100 |
| 13 | GSIP-1B | Y | -0.05 | -0.05 | 0 | %100 |
| 14 | GSIP-2A | Y | -0.05 | -0.05 | 0 | %100 |
| 15 | GSIP-2B | Y | -0.05 | -0.05 | 0 | %100 |
| 16 | GSIP-3A | Y | -0.05 | -0.05 | 0 | %100 |
| 17 | GSIP-3B | Y | -0.05 | -0.05 | 0 | %100 |
| 18 | MP-1 | Y | -0.07 | -0.07 | 0 | %100 |
| 19 | MP-2 | Y | -0.07 | -0.07 | 0 | %100 |
| 20 | MP-3 | Y | -0.07 | -0.07 | 0 | %100 |
| 21 | MP-4 | Y | -0.07 | -0.07 | 0 | %100 |
| 22 | MP-5 | Y | -0.07 | -0.07 | 0 | %100 |
| 23 | MP-6 | Y | -0.07 | -0.07 | 0 | %100 |
| 24 | MP-7 | Y | -0.07 | -0.07 | 0 | %100 |
| 25 | MP-8 | Y | -0.07 | -0.07 | 0 | %100 |
| 26 | MP-9 | Y | -0.07 | -0.07 | 0 | %100 |
| 27 | MP-10 | Y | -0.07 | -0.07 | 0 | %100 |
| 28 | MP-11 | Y | -0.07 | -0.07 | 0 | %100 |
| 29 | MP-12 | Y | -0.07 | -0.07 | 0 | %100 |
| 30 | SA-1 | Y | -0.09 | -0.09 | 0 | %100 |
| 31 | SA-2 | Y | -0.09 | -0.09 | 0 | %100 |
| 32 | SA-3 | Y | -0.09 | -0.09 | 0 | %100 |
| 33 | SF1-HR | Y | -0.07 | -0.07 | 0 | %100 |
| 34 | SF1-TH | Y | -0.09 | -0.09 | 0 | %100 |
| 35 | SF2-HR | Y | -0.07 | -0.07 | 0 | %100 |
| 36 | SF2-TH | Y | -0.09 | -0.09 | 0 | %100 |
| 37 | K1 | Y | -0.06 | -0.06 | 0 | %100 |
| 38 | K2 | Y | -0.06 | -0.06 | 0 | %100 |
| 39 | K3 | Y | -0.06 | -0.06 | 0 | %100 |

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.08 | -0.08 | 0 | %100 |
| 2 | CP-1U | X | -0.04 | -0.04 | 0 | %100 |
| 3 | CP-2 | X | -0.08 | -0.08 | 0 | %100 |
| 4 | CP-2U | X | -0.04 | -0.04 | 0 | %100 |
| 5 | CP-3 | X | -0.08 | -0.08 | 0 | %100 |
| 6 | CP-3U | X | -0.04 | -0.04 | 0 | %100 |
| 7 | FF-HR | X | -0.04 | -0.04 | 0 | %100 |
| 8 | FFTH | X | -0.05 | -0.05 | 0 | %100 |
| 9 | GSI-1 | X | -0.06 | -0.06 | 0 | %100 |
| 10 | GSI-2 | X | -0.06 | -0.06 | 0 | %100 |
| 11 | GSI-3 | X | -0.06 | -0.06 | 0 | %100 |
| 12 | GSIP-1A | X | -0.04 | -0.04 | 0 | %100 |
| 13 | GSIP-1B | X | -0.05 | -0.05 | 0 | %100 |
| 14 | GSIP-2A | X | -0.05 | -0.05 | 0 | %100 |
| 15 | GSIP-2B | X | -0.04 | -0.04 | 0 | %100 |
| 16 | GSIP-3A | X | -0.04 | -0.04 | 0 | %100 |
| 17 | GSIP-3B | X | -0.04 | -0.04 | 0 | %100 |
| 18 | MP-1 | X | -0.03 | -0.03 | 0 | %100 |
| 19 | MP-2 | X | -0.03 | -0.03 | 0 | %100 |
| 20 | MP-3 | X | -0.03 | -0.03 | 0 | %100 |
| 21 | MP-4 | X | -0.03 | -0.03 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 22 | MP-5 | X | -0.03 | -0.03 | 0 | %100 |
| 23 | MP-6 | X | -0.03 | -0.03 | 0 | %100 |
| 24 | MP-7 | X | -0.03 | -0.03 | 0 | %100 |
| 25 | MP-8 | X | -0.03 | -0.03 | 0 | %100 |
| 26 | MP-9 | X | -0.03 | -0.03 | 0 | %100 |
| 27 | MP-10 | X | -0.03 | -0.03 | 0 | %100 |
| 28 | MP-11 | X | -0.03 | -0.03 | 0 | %100 |
| 29 | MP-12 | X | -0.03 | -0.03 | 0 | %100 |
| 30 | SA-1 | X | -0.06 | -0.06 | 0 | %100 |
| 31 | SA-2 | X | -0.06 | -0.06 | 0 | %100 |
| 32 | SA-3 | X | -0.05 | -0.05 | 0 | %100 |
| 33 | SF1-HR | X | -0.03 | -0.03 | 0 | %100 |
| 34 | SF1-TH | X | -0.04 | -0.04 | 0 | %100 |
| 35 | SF2-HR | X | -0.03 | -0.03 | 0 | %100 |
| 36 | SF2-TH | X | -0.04 | -0.04 | 0 | %100 |
| 37 | K1 | X | -0.05 | -0.05 | 0 | %100 |
| 38 | K2 | X | -0.05 | -0.05 | 0 | %100 |
| 39 | K3 | X | -0.05 | -0.05 | 0 | %100 |

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.06 | -0.06 | 0 | %100 |
| 2 | CP-1U | X | -0.03 | -0.03 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | -0.06 | -0.06 | 0 | %100 |
| 6 | CP-3U | X | -0.03 | -0.03 | 0 | %100 |
| 7 | FF-HR | X | -0.03 | -0.03 | 0 | %100 |
| 8 | FFTH | X | -0.03 | -0.03 | 0 | %100 |
| 9 | GSI-1 | X | -0.04 | -0.04 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | -0.05 | -0.05 | 0 | %100 |
| 12 | GSIP-1A | X | 0 | 0 | 0 | %100 |
| 13 | GSIP-1B | X | -0.04 | -0.04 | 0 | %100 |
| 14 | GSIP-2A | X | -0.04 | -0.04 | 0 | %100 |
| 15 | GSIP-2B | X | -0.03 | -0.03 | 0 | %100 |
| 16 | GSIP-3A | X | -0.03 | -0.03 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | -0.03 | -0.03 | 0 | %100 |
| 19 | MP-2 | X | -0.03 | -0.03 | 0 | %100 |
| 20 | MP-3 | X | -0.03 | -0.03 | 0 | %100 |
| 21 | MP-4 | X | -0.03 | -0.03 | 0 | %100 |
| 22 | MP-5 | X | -0.03 | -0.03 | 0 | %100 |
| 23 | MP-6 | X | -0.03 | -0.03 | 0 | %100 |
| 24 | MP-7 | X | -0.03 | -0.03 | 0 | %100 |
| 25 | MP-8 | X | -0.03 | -0.03 | 0 | %100 |
| 26 | MP-9 | X | -0.03 | -0.03 | 0 | %100 |
| 27 | MP-10 | X | -0.03 | -0.03 | 0 | %100 |
| 28 | MP-11 | X | -0.03 | -0.03 | 0 | %100 |
| 29 | MP-12 | X | -0.03 | -0.03 | 0 | %100 |
| 30 | SA-1 | X | -0.03 | -0.03 | 0 | %100 |
| 31 | SA-2 | X | -0.05 | -0.05 | 0 | %100 |
| 32 | SA-3 | X | -0.02 | -0.02 | 0 | %100 |
| 33 | SF1-HR | X | -0.02 | -0.02 | 0 | %100 |
| 34 | SF1-TH | X | -0.03 | -0.03 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 36 | SF2-TH | X | 0 | 0 | %100 |
| 37 | K1 | X | -0.004 | -0.004 | 0 |
| 38 | K2 | X | -0.004 | -0.004 | 0 |
| 39 | K3 | X | -0.004 | -0.004 | 0 |
| 40 | CP-1 | Z | -0.003 | -0.003 | 0 |
| 41 | CP-1U | Z | -0.002 | -0.002 | 0 |
| 42 | CP-2 | Z | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | %100 |
| 44 | CP-3 | Z | -0.003 | -0.003 | 0 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 |
| 48 | GSI-1 | Z | -0.003 | -0.003 | 0 |
| 49 | GSI-2 | Z | 0 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 |
| 51 | GSIP-1A | Z | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 |
| 54 | GSIP-2B | Z | -0.002 | -0.002 | 0 |
| 55 | GSIP-3A | Z | -0.002 | -0.002 | 0 |
| 56 | GSIP-3B | Z | 0 | 0 | %100 |
| 57 | MP-1 | Z | -0.002 | -0.002 | 0 |
| 58 | MP-2 | Z | -0.002 | -0.002 | 0 |
| 59 | MP-3 | Z | -0.002 | -0.002 | 0 |
| 60 | MP-4 | Z | -0.002 | -0.002 | 0 |
| 61 | MP-5 | Z | -0.002 | -0.002 | 0 |
| 62 | MP-6 | Z | -0.002 | -0.002 | 0 |
| 63 | MP-7 | Z | -0.002 | -0.002 | 0 |
| 64 | MP-8 | Z | -0.002 | -0.002 | 0 |
| 65 | MP-9 | Z | -0.002 | -0.002 | 0 |
| 66 | MP-10 | Z | -0.002 | -0.002 | 0 |
| 67 | MP-11 | Z | -0.002 | -0.002 | 0 |
| 68 | MP-12 | Z | -0.002 | -0.002 | 0 |
| 69 | SA-1 | Z | -0.001 | -0.001 | 0 |
| 70 | SA-2 | Z | -0.003 | -0.003 | 0 |
| 71 | SA-3 | Z | -0.002 | -0.002 | 0 |
| 72 | SF1-HR | Z | -0.002 | -0.002 | 0 |
| 73 | SF1-TH | Z | -0.002 | -0.002 | 0 |
| 74 | SF2-HR | Z | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | %100 |
| 76 | K1 | Z | -0.003 | -0.003 | 0 |
| 77 | K2 | Z | -0.003 | -0.003 | 0 |
| 78 | K3 | Z | -0.003 | -0.003 | 0 |

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 | CP-1 | X | -0.005 | -0.005 | 0 |
| 2 | CP-1U | X | -0.003 | -0.003 | 0 |
| 3 | CP-2 | X | -0.001 | -0.001 | 0 |
| 4 | CP-2U | X | -0.00802 | -0.00802 | 0 |
| 5 | CP-3 | X | -0.004 | -0.004 | 0 |
| 6 | CP-3U | X | -0.002 | -0.002 | 0 |
| 7 | FF-HR | X | -0.002 | -0.002 | 0 |
| 8 | FFTH | X | -0.002 | -0.002 | 0 |
| 9 | GSI-1 | X | -0.004 | -0.004 | 0 |
| 10 | GSI-2 | X | -0.001 | -0.001 | 0 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 11 | GSI-3 | X | -0.003 | -0.003 | 0 |
| 12 | GSIP-1A | X | -0.000767 | -0.000767 | 0 |
| 13 | GSIP-1B | X | -0.002 | -0.002 | 0 |
| 14 | GSIP-2A | X | -0.002 | -0.002 | 0 |
| 15 | GSIP-2B | X | -0.003 | -0.003 | 0 |
| 16 | GSIP-3A | X | -0.003 | -0.003 | 0 |
| 17 | GSIP-3B | X | -0.000767 | -0.000767 | 0 |
| 18 | MP-1 | X | -0.002 | -0.002 | 0 |
| 19 | MP-2 | X | -0.002 | -0.002 | 0 |
| 20 | MP-3 | X | -0.002 | -0.002 | 0 |
| 21 | MP-4 | X | -0.002 | -0.002 | 0 |
| 22 | MP-5 | X | -0.002 | -0.002 | 0 |
| 23 | MP-6 | X | -0.002 | -0.002 | 0 |
| 24 | MP-7 | X | -0.002 | -0.002 | 0 |
| 25 | MP-8 | X | -0.002 | -0.002 | 0 |
| 26 | MP-9 | X | -0.002 | -0.002 | 0 |
| 27 | MP-10 | X | -0.002 | -0.002 | 0 |
| 28 | MP-11 | X | -0.002 | -0.002 | 0 |
| 29 | MP-12 | X | -0.002 | -0.002 | 0 |
| 30 | SA-1 | X | -0.001 | -0.001 | 0 |
| 31 | SA-2 | X | -0.004 | -0.004 | 0 |
| 32 | SA-3 | X | -0.003 | -0.003 | 0 |
| 33 | SF1-HR | X | -0.002 | -0.002 | 0 |
| 34 | SF1-TH | X | -0.002 | -0.002 | 0 |
| 35 | SF2-HR | X | -0.000577 | -0.000577 | 0 |
| 36 | SF2-TH | X | -0.000659 | -0.000659 | 0 |
| 37 | K1 | X | -0.003 | -0.003 | 0 |
| 38 | K2 | X | -0.003 | -0.003 | 0 |
| 39 | K3 | X | -0.003 | -0.003 | 0 |
| 40 | CP-1 | Z | -0.005 | -0.005 | 0 |
| 41 | CP-1U | Z | -0.003 | -0.003 | 0 |
| 42 | CP-2 | Z | -0.001 | -0.001 | 0 |
| 43 | CP-2U | Z | -0.00081 | -0.00081 | 0 |
| 44 | CP-3 | Z | -0.004 | -0.004 | 0 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 |
| 48 | GSI-1 | Z | -0.004 | -0.004 | 0 |
| 49 | GSI-2 | Z | -0.001 | -0.001 | 0 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 |
| 51 | GSIP-1A | Z | -0.000845 | -0.000845 | 0 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 |
| 54 | GSIP-2B | Z | -0.003 | -0.003 | 0 |
| 55 | GSIP-3A | Z | -0.003 | -0.003 | 0 |
| 56 | GSIP-3B | Z | -0.000846 | -0.000846 | 0 |
| 57 | MP-1 | Z | -0.002 | -0.002 | 0 |
| 58 | MP-2 | Z | -0.002 | -0.002 | 0 |
| 59 | MP-3 | Z | -0.002 | -0.002 | 0 |
| 60 | MP-4 | Z | -0.002 | -0.002 | 0 |
| 61 | MP-5 | Z | -0.002 | -0.002 | 0 |
| 62 | MP-6 | Z | -0.002 | -0.002 | 0 |
| 63 | MP-7 | Z | -0.002 | -0.002 | 0 |
| 64 | MP-8 | Z | -0.002 | -0.002 | 0 |
| 65 | MP-9 | Z | -0.002 | -0.002 | 0 |
| 66 | MP-10 | Z | -0.002 | -0.002 | 0 |
| 67 | MP-11 | Z | -0.002 | -0.002 | 0 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 68 | MP-12 | Z | -0.02 | -0.02 | 0 | %100 |
| 69 | SA-1 | Z | -0.001 | -0.001 | 0 | %100 |
| 70 | SA-2 | Z | -0.004 | -0.004 | 0 | %100 |
| 71 | SA-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 72 | SF1-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 73 | SF1-TH | Z | -0.003 | -0.003 | 0 | %100 |
| 74 | SF2-HR | Z | -0.000713 | -0.000713 | 0 | %100 |
| 75 | SF2-TH | Z | -0.000796 | -0.000796 | 0 | %100 |
| 76 | K1 | Z | -0.004 | -0.004 | 0 | %100 |
| 77 | K2 | Z | -0.004 | -0.004 | 0 | %100 |
| 78 | K3 | Z | -0.004 | -0.004 | 0 | %100 |

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.004 | -0.004 | 0 | %100 |
| 2 | CP-1U | X | -0.002 | -0.002 | 0 | %100 |
| 3 | CP-2 | X | -0.002 | -0.002 | 0 | %100 |
| 4 | CP-2U | X | -0.001 | -0.001 | 0 | %100 |
| 5 | CP-3 | X | -0.002 | -0.002 | 0 | %100 |
| 6 | CP-3U | X | -0.001 | -0.001 | 0 | %100 |
| 7 | FF-HR | X | -0.000973 | -0.000973 | 0 | %100 |
| 8 | FFTH | X | -0.001 | -0.001 | 0 | %100 |
| 9 | GSI-1 | X | -0.003 | -0.003 | 0 | %100 |
| 10 | GSI-2 | X | -0.001 | -0.001 | 0 | %100 |
| 11 | GSI-3 | X | -0.002 | -0.002 | 0 | %100 |
| 12 | GSIP-1A | X | -0.001 | -0.001 | 0 | %100 |
| 13 | GSIP-1B | X | -0.001 | -0.001 | 0 | %100 |
| 14 | GSIP-2A | X | -0.001 | -0.001 | 0 | %100 |
| 15 | GSIP-2B | X | -0.002 | -0.002 | 0 | %100 |
| 16 | GSIP-3A | X | -0.002 | -0.002 | 0 | %100 |
| 17 | GSIP-3B | X | -0.001 | -0.001 | 0 | %100 |
| 18 | MP-1 | X | -0.002 | -0.002 | 0 | %100 |
| 19 | MP-2 | X | -0.002 | -0.002 | 0 | %100 |
| 20 | MP-3 | X | -0.002 | -0.002 | 0 | %100 |
| 21 | MP-4 | X | -0.002 | -0.002 | 0 | %100 |
| 22 | MP-5 | X | -0.002 | -0.002 | 0 | %100 |
| 23 | MP-6 | X | -0.002 | -0.002 | 0 | %100 |
| 24 | MP-7 | X | -0.002 | -0.002 | 0 | %100 |
| 25 | MP-8 | X | -0.002 | -0.002 | 0 | %100 |
| 26 | MP-9 | X | -0.002 | -0.002 | 0 | %100 |
| 27 | MP-10 | X | -0.002 | -0.002 | 0 | %100 |
| 28 | MP-11 | X | -0.002 | -0.002 | 0 | %100 |
| 29 | MP-12 | X | -0.002 | -0.002 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | -0.003 | -0.003 | 0 | %100 |
| 32 | SA-3 | X | -0.002 | -0.002 | 0 | %100 |
| 33 | SF1-HR | X | -0.002 | -0.002 | 0 | %100 |
| 34 | SF1-TH | X | -0.002 | -0.002 | 0 | %100 |
| 35 | SF2-HR | X | -0.000789 | -0.000789 | 0 | %100 |
| 36 | SF2-TH | X | -0.0009 | -0.0009 | 0 | %100 |
| 37 | K1 | X | -0.002 | -0.002 | 0 | %100 |
| 38 | K2 | X | -0.002 | -0.002 | 0 | %100 |
| 39 | K3 | X | -0.002 | -0.002 | 0 | %100 |
| 40 | CP-1 | Z | -0.007 | -0.007 | 0 | %100 |
| 41 | CP-1U | Z | -0.004 | -0.004 | 0 | %100 |
| 42 | CP-2 | Z | -0.003 | -0.003 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 43 | CP-2U | Z | -0.002 | -0.002 | 0 | %100 |
| 44 | CP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 | %100 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 | %100 |
| 48 | GSI-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 49 | GSI-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.002 | -0.002 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.004 | -0.004 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.004 | -0.004 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.002 | -0.002 | 0 | %100 |
| 57 | MP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 58 | MP-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 59 | MP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 60 | MP-4 | Z | -0.003 | -0.003 | 0 | %100 |
| 61 | MP-5 | Z | -0.003 | -0.003 | 0 | %100 |
| 62 | MP-6 | Z | -0.003 | -0.003 | 0 | %100 |
| 63 | MP-7 | Z | -0.003 | -0.003 | 0 | %100 |
| 64 | MP-8 | Z | -0.003 | -0.003 | 0 | %100 |
| 65 | MP-9 | Z | -0.003 | -0.003 | 0 | %100 |
| 66 | MP-10 | Z | -0.003 | -0.003 | 0 | %100 |
| 67 | MP-11 | Z | -0.003 | -0.003 | 0 | %100 |
| 68 | MP-12 | Z | -0.003 | -0.003 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | -0.004 | -0.004 | 0 | %100 |
| 71 | SA-3 | Z | -0.005 | -0.005 | 0 | %100 |
| 72 | SF1-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 73 | SF1-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 74 | SF2-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 75 | SF2-TH | Z | -0.002 | -0.002 | 0 | %100 |
| 76 | K1 | Z | -0.004 | -0.004 | 0 | %100 |
| 77 | K2 | Z | -0.004 | -0.004 | 0 | %100 |
| 78 | K3 | Z | -0.004 | -0.004 | 0 | %100 |

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | -0.007 | -0.007 | 0 | %100 |
| 2 | CP-1U | Z | -0.004 | -0.004 | 0 | %100 |
| 3 | CP-2 | Z | -0.007 | -0.007 | 0 | %100 |
| 4 | CP-2U | Z | -0.004 | -0.004 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 10 | GSI-2 | Z | -0.005 | -0.005 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | -0.004 | -0.004 | 0 | %100 |
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | -0.004 | -0.004 | 0 | %100 |
| 16 | GSIP-3A | Z | -0.004 | -0.004 | 0 | %100 |
| 17 | GSIP-3B | Z | -0.004 | -0.004 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 18 | MP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 19 | MP-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 20 | MP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 21 | MP-4 | Z | -0.003 | -0.003 | 0 | %100 |
| 22 | MP-5 | Z | -0.003 | -0.003 | 0 | %100 |
| 23 | MP-6 | Z | -0.003 | -0.003 | 0 | %100 |
| 24 | MP-7 | Z | -0.003 | -0.003 | 0 | %100 |
| 25 | MP-8 | Z | -0.003 | -0.003 | 0 | %100 |
| 26 | MP-9 | Z | -0.003 | -0.003 | 0 | %100 |
| 27 | MP-10 | Z | -0.003 | -0.003 | 0 | %100 |
| 28 | MP-11 | Z | -0.003 | -0.003 | 0 | %100 |
| 29 | MP-12 | Z | -0.003 | -0.003 | 0 | %100 |
| 30 | SA-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 31 | SA-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 32 | SA-3 | Z | -0.006 | -0.006 | 0 | %100 |
| 33 | SF1-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 34 | SF1-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 35 | SF2-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 36 | SF2-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 37 | K1 | Z | -0.005 | -0.005 | 0 | %100 |
| 38 | K2 | Z | -0.005 | -0.005 | 0 | %100 |
| 39 | K3 | Z | -0.005 | -0.005 | 0 | %100 |

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .002 | .002 | 0 | %100 |
| 2 | CP-1U | X | .001 | .001 | 0 | %100 |
| 3 | CP-2 | X | .004 | .004 | 0 | %100 |
| 4 | CP-2U | X | .002 | .002 | 0 | %100 |
| 5 | CP-3 | X | .002 | .002 | 0 | %100 |
| 6 | CP-3U | X | .001 | .001 | 0 | %100 |
| 7 | FF-HR | X | .000973 | .000973 | 0 | %100 |
| 8 | FFTH | X | .001 | .001 | 0 | %100 |
| 9 | GSI-1 | X | .001 | .001 | 0 | %100 |
| 10 | GSI-2 | X | .003 | .003 | 0 | %100 |
| 11 | GSI-3 | X | .002 | .002 | 0 | %100 |
| 12 | GSIP-1A | X | .002 | .002 | 0 | %100 |
| 13 | GSIP-1B | X | .001 | .001 | 0 | %100 |
| 14 | GSIP-2A | X | .001 | .001 | 0 | %100 |
| 15 | GSIP-2B | X | .001 | .001 | 0 | %100 |
| 16 | GSIP-3A | X | .001 | .001 | 0 | %100 |
| 17 | GSIP-3B | X | .002 | .002 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | .003 | .003 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | .000789 | .000789 | 0 | %100 |
| 34 | SF1-TH | X | .0009 | .0009 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .002 | .002 | 0 | %100 |
| 37 | K1 | X | .002 | .002 | 0 | %100 |
| 38 | K2 | X | .002 | .002 | 0 | %100 |
| 39 | K3 | X | .002 | .002 | 0 | %100 |
| 40 | CP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 41 | CP-1U | Z | -0.002 | -0.002 | 0 | %100 |
| 42 | CP-2 | Z | -0.007 | -0.007 | 0 | %100 |
| 43 | CP-2U | Z | -0.004 | -0.004 | 0 | %100 |
| 44 | CP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 | %100 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 | %100 |
| 48 | GSI-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 49 | GSI-2 | Z | -0.005 | -0.005 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.004 | -0.004 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.002 | -0.002 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.002 | -0.002 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.004 | -0.004 | 0 | %100 |
| 57 | MP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 58 | MP-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 59 | MP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 60 | MP-4 | Z | -0.003 | -0.003 | 0 | %100 |
| 61 | MP-5 | Z | -0.003 | -0.003 | 0 | %100 |
| 62 | MP-6 | Z | -0.003 | -0.003 | 0 | %100 |
| 63 | MP-7 | Z | -0.003 | -0.003 | 0 | %100 |
| 64 | MP-8 | Z | -0.003 | -0.003 | 0 | %100 |
| 65 | MP-9 | Z | -0.003 | -0.003 | 0 | %100 |
| 66 | MP-10 | Z | -0.003 | -0.003 | 0 | %100 |
| 67 | MP-11 | Z | -0.003 | -0.003 | 0 | %100 |
| 68 | MP-12 | Z | -0.003 | -0.003 | 0 | %100 |
| 69 | SA-1 | Z | -0.004 | -0.004 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | -0.005 | -0.005 | 0 | %100 |
| 72 | SF1-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 73 | SF1-TH | Z | -0.002 | -0.002 | 0 | %100 |
| 74 | SF2-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 75 | SF2-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 76 | K1 | Z | -0.004 | -0.004 | 0 | %100 |
| 77 | K2 | Z | -0.004 | -0.004 | 0 | %100 |
| 78 | K3 | Z | -0.004 | -0.004 | 0 | %100 |

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .001 | .001 | 0 | %100 |
| 2 | CP-1U | X | .000802 | .000802 | 0 | %100 |
| 3 | CP-2 | X | .005 | .005 | 0 | %100 |
| 4 | CP-2U | X | .003 | .003 | 0 | %100 |
| 5 | CP-3 | X | .004 | .004 | 0 | %100 |
| 6 | CP-3U | X | .002 | .002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 7 | FF-HR | X | .002 | .002 | 0 | %100 |
| 8 | FFTH | X | .002 | .002 | 0 | %100 |
| 9 | GSI-1 | X | .001 | .001 | 0 | %100 |
| 10 | GSI-2 | X | .004 | .004 | 0 | %100 |
| 11 | GSI-3 | X | .003 | .003 | 0 | %100 |
| 12 | GSIP-1A | X | .003 | .003 | 0 | %100 |
| 13 | GSIP-1B | X | .002 | .002 | 0 | %100 |
| 14 | GSIP-2A | X | .002 | .002 | 0 | %100 |
| 15 | GSIP-2B | X | .000767 | .000767 | 0 | %100 |
| 16 | GSIP-3A | X | .000767 | .000767 | 0 | %100 |
| 17 | GSIP-3B | X | .003 | .003 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | .004 | .004 | 0 | %100 |
| 31 | SA-2 | X | .001 | .001 | 0 | %100 |
| 32 | SA-3 | X | .003 | .003 | 0 | %100 |
| 33 | SF1-HR | X | .000577 | .000577 | 0 | %100 |
| 34 | SF1-TH | X | .000659 | .000659 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .002 | .002 | 0 | %100 |
| 37 | K1 | X | .003 | .003 | 0 | %100 |
| 38 | K2 | X | .003 | .003 | 0 | %100 |
| 39 | K3 | X | .003 | .003 | 0 | %100 |
| 40 | CP-1 | Z | -.001 | -.001 | 0 | %100 |
| 41 | CP-1U | Z | -.00081 | -.00081 | 0 | %100 |
| 42 | CP-2 | Z | -.005 | -.005 | 0 | %100 |
| 43 | CP-2U | Z | -.003 | -.003 | 0 | %100 |
| 44 | CP-3 | Z | -.004 | -.004 | 0 | %100 |
| 45 | CP-3U | Z | -.002 | -.002 | 0 | %100 |
| 46 | FF-HR | Z | -.002 | -.002 | 0 | %100 |
| 47 | FFTH | Z | -.002 | -.002 | 0 | %100 |
| 48 | GSI-1 | Z | -.001 | -.001 | 0 | %100 |
| 49 | GSI-2 | Z | -.004 | -.004 | 0 | %100 |
| 50 | GSI-3 | Z | -.003 | -.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -.003 | -.003 | 0 | %100 |
| 52 | GSIP-1B | Z | -.002 | -.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -.002 | -.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -.000846 | -.000846 | 0 | %100 |
| 55 | GSIP-3A | Z | -.000846 | -.000846 | 0 | %100 |
| 56 | GSIP-3B | Z | -.003 | -.003 | 0 | %100 |
| 57 | MP-1 | Z | -.002 | -.002 | 0 | %100 |
| 58 | MP-2 | Z | -.002 | -.002 | 0 | %100 |
| 59 | MP-3 | Z | -.002 | -.002 | 0 | %100 |
| 60 | MP-4 | Z | -.002 | -.002 | 0 | %100 |
| 61 | MP-5 | Z | -.002 | -.002 | 0 | %100 |
| 62 | MP-6 | Z | -.002 | -.002 | 0 | %100 |
| 63 | MP-7 | Z | -.002 | -.002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 64 | MP-8 | Z | -.002 | -.002 | 0 | %100 |
| 65 | MP-9 | Z | -.002 | -.002 | 0 | %100 |
| 66 | MP-10 | Z | -.002 | -.002 | 0 | %100 |
| 67 | MP-11 | Z | -.002 | -.002 | 0 | %100 |
| 68 | MP-12 | Z | -.002 | -.002 | 0 | %100 |
| 69 | SA-1 | Z | -.004 | -.004 | 0 | %100 |
| 70 | SA-2 | Z | -.001 | -.001 | 0 | %100 |
| 71 | SA-3 | Z | -.003 | -.003 | 0 | %100 |
| 72 | SF1-HR | Z | -.000713 | -.000713 | 0 | %100 |
| 73 | SF1-TH | Z | -.000796 | -.000796 | 0 | %100 |
| 74 | SF2-HR | Z | -.003 | -.003 | 0 | %100 |
| 75 | SF2-TH | Z | -.003 | -.003 | 0 | %100 |
| 76 | K1 | Z | -.004 | -.004 | 0 | %100 |
| 77 | K2 | Z | -.004 | -.004 | 0 | %100 |
| 78 | K3 | Z | -.004 | -.004 | 0 | %100 |

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0 | 0 | 0 | %100 |
| 2 | CP-1U | X | 0 | 0 | 0 | %100 |
| 3 | CP-2 | X | .006 | .006 | 0 | %100 |
| 4 | CP-2U | X | .003 | .003 | 0 | %100 |
| 5 | CP-3 | X | .006 | .006 | 0 | %100 |
| 6 | CP-3U | X | .003 | .003 | 0 | %100 |
| 7 | FF-HR | X | .003 | .003 | 0 | %100 |
| 8 | FFTH | X | .003 | .003 | 0 | %100 |
| 9 | GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 | GSI-2 | X | .004 | .004 | 0 | %100 |
| 11 | GSI-3 | X | .005 | .005 | 0 | %100 |
| 12 | GSIP-1A | X | .003 | .003 | 0 | %100 |
| 13 | GSIP-1B | X | .004 | .004 | 0 | %100 |
| 14 | GSIP-2A | X | .004 | .004 | 0 | %100 |
| 15 | GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 | GSIP-3A | X | 0 | 0 | 0 | %100 |
| 17 | GSIP-3B | X | .003 | .003 | 0 | %100 |
| 18 | MP-1 | X | .003 | .003 | 0 | %100 |
| 19 | MP-2 | X | .003 | .003 | 0 | %100 |
| 20 | MP-3 | X | .003 | .003 | 0 | %100 |
| 21 | MP-4 | X | .003 | .003 | 0 | %100 |
| 22 | MP-5 | X | .003 | .003 | 0 | %100 |
| 23 | MP-6 | X | .003 | .003 | 0 | %100 |
| 24 | MP-7 | X | .003 | .003 | 0 | %100 |
| 25 | MP-8 | X | .003 | .003 | 0 | %100 |
| 26 | MP-9 | X | .003 | .003 | 0 | %100 |
| 27 | MP-10 | X | .003 | .003 | 0 | %100 |
| 28 | MP-11 | X | .003 | .003 | 0 | %100 |
| 29 | MP-12 | X | .003 | .003 | 0 | %100 |
| 30 | SA-1 | X | .005 | .005 | 0 | %100 |
| 31 | SA-2 | X | .003 | .003 | 0 | %100 |
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | 0 | 0 | 0 | %100 |
| 34 | SF1-TH | X | 0 | 0 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .003 | .003 | 0 | %100 |
| 37 | K1 | X | .004 | .004 | 0 | %100 |
| 38 | K2 | X | .004 | .004 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 39 | K3 | X | .004 | .004 | 0 | %100 |
| 40 | CP-1 | Z | 0 | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | 0 | %100 |
| 42 | CP-2 | Z | -.003 | -.003 | 0 | %100 |
| 43 | CP-2U | Z | -.002 | -.002 | 0 | %100 |
| 44 | CP-3 | Z | -.003 | -.003 | 0 | %100 |
| 45 | CP-3U | Z | -.002 | -.002 | 0 | %100 |
| 46 | FF-HR | Z | -.002 | -.002 | 0 | %100 |
| 47 | FFTH | Z | -.002 | -.002 | 0 | %100 |
| 48 | GSI-1 | Z | 0 | 0 | 0 | %100 |
| 49 | GSI-2 | Z | -.003 | -.003 | 0 | %100 |
| 50 | GSI-3 | Z | -.003 | -.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -.002 | -.002 | 0 | %100 |
| 52 | GSIP-1B | Z | -.002 | -.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -.002 | -.002 | 0 | %100 |
| 54 | GSIP-2B | Z | 0 | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | -.002 | -.002 | 0 | %100 |
| 57 | MP-1 | Z | -.002 | -.002 | 0 | %100 |
| 58 | MP-2 | Z | -.002 | -.002 | 0 | %100 |
| 59 | MP-3 | Z | -.002 | -.002 | 0 | %100 |
| 60 | MP-4 | Z | -.002 | -.002 | 0 | %100 |
| 61 | MP-5 | Z | -.002 | -.002 | 0 | %100 |
| 62 | MP-6 | Z | -.002 | -.002 | 0 | %100 |
| 63 | MP-7 | Z | -.002 | -.002 | 0 | %100 |
| 64 | MP-8 | Z | -.002 | -.002 | 0 | %100 |
| 65 | MP-9 | Z | -.002 | -.002 | 0 | %100 |
| 66 | MP-10 | Z | -.002 | -.002 | 0 | %100 |
| 67 | MP-11 | Z | -.002 | -.002 | 0 | %100 |
| 68 | MP-12 | Z | -.002 | -.002 | 0 | %100 |
| 69 | SA-1 | Z | -.003 | -.003 | 0 | %100 |
| 70 | SA-2 | Z | -.001 | -.001 | 0 | %100 |
| 71 | SA-3 | Z | -.002 | -.002 | 0 | %100 |
| 72 | SF1-HR | Z | 0 | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | 0 | %100 |
| 74 | SF2-HR | Z | -.002 | -.002 | 0 | %100 |
| 75 | SF2-TH | Z | -.002 | -.002 | 0 | %100 |
| 76 | K1 | Z | -.003 | -.003 | 0 | %100 |
| 77 | K2 | Z | -.003 | -.003 | 0 | %100 |
| 78 | K3 | Z | -.003 | -.003 | 0 | %100 |

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .008 | .008 | 0 | %100 |
| 2 | CP-1U | X | .004 | .004 | 0 | %100 |
| 3 | CP-2 | X | .008 | .008 | 0 | %100 |
| 4 | CP-2U | X | .004 | .004 | 0 | %100 |
| 5 | CP-3 | X | .008 | .008 | 0 | %100 |
| 6 | CP-3U | X | .004 | .004 | 0 | %100 |
| 7 | FF-HR | X | .004 | .004 | 0 | %100 |
| 8 | FFTH | X | .005 | .005 | 0 | %100 |
| 9 | GSI-1 | X | .006 | .006 | 0 | %100 |
| 10 | GSI-2 | X | .006 | .006 | 0 | %100 |
| 11 | GSI-3 | X | .006 | .006 | 0 | %100 |
| 12 | GSIP-1A | X | .004 | .004 | 0 | %100 |
| 13 | GSIP-1B | X | .005 | .005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 14 | GSIP-2A | X | .005 | .005 | 0 | %100 |
| 15 | GSIP-2B | X | .004 | .004 | 0 | %100 |
| 16 | GSIP-3A | X | .004 | .004 | 0 | %100 |
| 17 | GSIP-3B | X | .004 | .004 | 0 | %100 |
| 18 | MP-1 | X | .003 | .003 | 0 | %100 |
| 19 | MP-2 | X | .003 | .003 | 0 | %100 |
| 20 | MP-3 | X | .003 | .003 | 0 | %100 |
| 21 | MP-4 | X | .003 | .003 | 0 | %100 |
| 22 | MP-5 | X | .003 | .003 | 0 | %100 |
| 23 | MP-6 | X | .003 | .003 | 0 | %100 |
| 24 | MP-7 | X | .003 | .003 | 0 | %100 |
| 25 | MP-8 | X | .003 | .003 | 0 | %100 |
| 26 | MP-9 | X | .003 | .003 | 0 | %100 |
| 27 | MP-10 | X | .003 | .003 | 0 | %100 |
| 28 | MP-11 | X | .003 | .003 | 0 | %100 |
| 29 | MP-12 | X | .003 | .003 | 0 | %100 |
| 30 | SA-1 | X | .006 | .006 | 0 | %100 |
| 31 | SA-2 | X | .006 | .006 | 0 | %100 |
| 32 | SA-3 | X | .005 | .005 | 0 | %100 |
| 33 | SF1-HR | X | .003 | .003 | 0 | %100 |
| 34 | SF1-TH | X | .004 | .004 | 0 | %100 |
| 35 | SF2-HR | X | .003 | .003 | 0 | %100 |
| 36 | SF2-TH | X | .004 | .004 | 0 | %100 |
| 37 | K1 | X | .005 | .005 | 0 | %100 |
| 38 | K2 | X | .005 | .005 | 0 | %100 |
| 39 | K3 | X | .005 | .005 | 0 | %100 |

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .006 | .006 | 0 | %100 |
| 2 | CP-1U | X | .003 | .003 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | .006 | .006 | 0 | %100 |
| 6 | CP-3U | X | .003 | .003 | 0 | %100 |
| 7 | FF-HR | X | .003 | .003 | 0 | %100 |
| 8 | FFTH | X | .003 | .003 | 0 | %100 |
| 9 | GSI-1 | X | .004 | .004 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | .005 | .005 | 0 | %100 |
| 12 | GSIP-1A | X | 0 | 0 | 0 | %100 |
| 13 | GSIP-1B | X | .004 | .004 | 0 | %100 |
| 14 | GSIP-2A | X | .004 | .004 | 0 | %100 |
| 15 | GSIP-2B | X | .003 | .003 | 0 | %100 |
| 16 | GSIP-3A | X | .003 | .003 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | .003 | .003 | 0 | %100 |
| 19 | MP-2 | X | .003 | .003 | 0 | %100 |
| 20 | MP-3 | X | .003 | .003 | 0 | %100 |
| 21 | MP-4 | X | .003 | .003 | 0 | %100 |
| 22 | MP-5 | X | .003 | .003 | 0 | %100 |
| 23 | MP-6 | X | .003 | .003 | 0 | %100 |
| 24 | MP-7 | X | .003 | .003 | 0 | %100 |
| 25 | MP-8 | X | .003 | .003 | 0 | %100 |
| 26 | MP-9 | X | .003 | .003 | 0 | %100 |
| 27 | MP-10 | X | .003 | .003 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 28 | MP-11 | X | .003 | .003 | 0 | %100 |
| 29 | MP-12 | X | .003 | .003 | 0 | %100 |
| 30 | SA-1 | X | .003 | .003 | 0 | %100 |
| 31 | SA-2 | X | .005 | .005 | 0 | %100 |
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .003 | .003 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |
| 36 | SF2-TH | X | 0 | 0 | 0 | %100 |
| 37 | K1 | X | .004 | .004 | 0 | %100 |
| 38 | K2 | X | .004 | .004 | 0 | %100 |
| 39 | K3 | X | .004 | .004 | 0 | %100 |
| 40 | CP-1 | Z | .003 | .003 | 0 | %100 |
| 41 | CP-1U | Z | .002 | .002 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | .003 | .003 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .003 | .003 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .002 | .002 | 0 | %100 |
| 55 | GSIP-3A | Z | .002 | .002 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | .002 | .002 | 0 | %100 |
| 58 | MP-2 | Z | .002 | .002 | 0 | %100 |
| 59 | MP-3 | Z | .002 | .002 | 0 | %100 |
| 60 | MP-4 | Z | .002 | .002 | 0 | %100 |
| 61 | MP-5 | Z | .002 | .002 | 0 | %100 |
| 62 | MP-6 | Z | .002 | .002 | 0 | %100 |
| 63 | MP-7 | Z | .002 | .002 | 0 | %100 |
| 64 | MP-8 | Z | .002 | .002 | 0 | %100 |
| 65 | MP-9 | Z | .002 | .002 | 0 | %100 |
| 66 | MP-10 | Z | .002 | .002 | 0 | %100 |
| 67 | MP-11 | Z | .002 | .002 | 0 | %100 |
| 68 | MP-12 | Z | .002 | .002 | 0 | %100 |
| 69 | SA-1 | Z | .001 | .001 | 0 | %100 |
| 70 | SA-2 | Z | .003 | .003 | 0 | %100 |
| 71 | SA-3 | Z | .002 | .002 | 0 | %100 |
| 72 | SF1-HR | Z | .002 | .002 | 0 | %100 |
| 73 | SF1-TH | Z | .002 | .002 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | .003 | .003 | 0 | %100 |
| 77 | K2 | Z | .003 | .003 | 0 | %100 |
| 78 | K3 | Z | .003 | .003 | 0 | %100 |

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .005 | .005 | 0 | %100 |
| 2 | CP-1U | X | .003 | .003 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 3 | CP-2 | X | .001 | .001 | 0 | %100 |
| 4 | CP-2U | X | .000802 | .000802 | 0 | %100 |
| 5 | CP-3 | X | .004 | .004 | 0 | %100 |
| 6 | CP-3U | X | .002 | .002 | 0 | %100 |
| 7 | FF-HR | X | .002 | .002 | 0 | %100 |
| 8 | FFTH | X | .002 | .002 | 0 | %100 |
| 9 | GSI-1 | X | .004 | .004 | 0 | %100 |
| 10 | GSI-2 | X | .001 | .001 | 0 | %100 |
| 11 | GSI-3 | X | .003 | .003 | 0 | %100 |
| 12 | GSIP-1A | X | .000767 | .000767 | 0 | %100 |
| 13 | GSIP-1B | X | .002 | .002 | 0 | %100 |
| 14 | GSIP-2A | X | .002 | .002 | 0 | %100 |
| 15 | GSIP-2B | X | .003 | .003 | 0 | %100 |
| 16 | GSIP-3A | X | .003 | .003 | 0 | %100 |
| 17 | GSIP-3B | X | .000767 | .000767 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | .001 | .001 | 0 | %100 |
| 31 | SA-2 | X | .004 | .004 | 0 | %100 |
| 32 | SA-3 | X | .003 | .003 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .002 | .002 | 0 | %100 |
| 35 | SF2-HR | X | .000577 | .000577 | 0 | %100 |
| 36 | SF2-TH | X | .000659 | .000659 | 0 | %100 |
| 37 | K1 | X | .003 | .003 | 0 | %100 |
| 38 | K2 | X | .003 | .003 | 0 | %100 |
| 39 | K3 | X | .003 | .003 | 0 | %100 |
| 40 | CP-1 | Z | .005 | .005 | 0 | %100 |
| 41 | CP-1U | Z | .003 | .003 | 0 | %100 |
| 42 | CP-2 | Z | .001 | .001 | 0 | %100 |
| 43 | CP-2U | Z | .00081 | .00081 | 0 | %100 |
| 44 | CP-3 | Z | .004 | .004 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .004 | .004 | 0 | %100 |
| 49 | GSI-2 | Z | .001 | .001 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | .000845 | .000845 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .003 | .003 | 0 | %100 |
| 55 | GSIP-3A | Z | .003 | .003 | 0 | %100 |
| 56 | GSIP-3B | Z | .000846 | .000846 | 0 | %100 |
| 57 | MP-1 | Z | .002 | .002 | 0 | %100 |
| 58 | MP-2 | Z | .002 | .002 | 0 | %100 |
| 59 | MP-3 | Z | .002 | .002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 60 | MP-4 | Z | .002 | .002 | 0 | %100 |
| 61 | MP-5 | Z | .002 | .002 | 0 | %100 |
| 62 | MP-6 | Z | .002 | .002 | 0 | %100 |
| 63 | MP-7 | Z | .002 | .002 | 0 | %100 |
| 64 | MP-8 | Z | .002 | .002 | 0 | %100 |
| 65 | MP-9 | Z | .002 | .002 | 0 | %100 |
| 66 | MP-10 | Z | .002 | .002 | 0 | %100 |
| 67 | MP-11 | Z | .002 | .002 | 0 | %100 |
| 68 | MP-12 | Z | .002 | .002 | 0 | %100 |
| 69 | SA-1 | Z | .001 | .001 | 0 | %100 |
| 70 | SA-2 | Z | .004 | .004 | 0 | %100 |
| 71 | SA-3 | Z | .003 | .003 | 0 | %100 |
| 72 | SF1-HR | Z | .003 | .003 | 0 | %100 |
| 73 | SF1-TH | Z | .003 | .003 | 0 | %100 |
| 74 | SF2-HR | Z | .000713 | .000713 | 0 | %100 |
| 75 | SF2-TH | Z | .000796 | .000796 | 0 | %100 |
| 76 | K1 | Z | .004 | .004 | 0 | %100 |
| 77 | K2 | Z | .004 | .004 | 0 | %100 |
| 78 | K3 | Z | .004 | .004 | 0 | %100 |

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .004 | .004 | 0 | %100 |
| 2 | CP-1U | X | .002 | .002 | 0 | %100 |
| 3 | CP-2 | X | .002 | .002 | 0 | %100 |
| 4 | CP-2U | X | .001 | .001 | 0 | %100 |
| 5 | CP-3 | X | .002 | .002 | 0 | %100 |
| 6 | CP-3U | X | .001 | .001 | 0 | %100 |
| 7 | FF-HR | X | .000973 | .000973 | 0 | %100 |
| 8 | FFTH | X | .001 | .001 | 0 | %100 |
| 9 | GSI-1 | X | .003 | .003 | 0 | %100 |
| 10 | GSI-2 | X | .001 | .001 | 0 | %100 |
| 11 | GSI-3 | X | .002 | .002 | 0 | %100 |
| 12 | GSIP-1A | X | .001 | .001 | 0 | %100 |
| 13 | GSIP-1B | X | .001 | .001 | 0 | %100 |
| 14 | GSIP-2A | X | .001 | .001 | 0 | %100 |
| 15 | GSIP-2B | X | .002 | .002 | 0 | %100 |
| 16 | GSIP-3A | X | .002 | .002 | 0 | %100 |
| 17 | GSIP-3B | X | .001 | .001 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | .003 | .003 | 0 | %100 |
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .002 | .002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 35 | SF2-HR | X | .000789 | .000789 | 0 | %100 |
| 36 | SF2-TH | X | .0009 | .0009 | 0 | %100 |
| 37 | K1 | X | .002 | .002 | 0 | %100 |
| 38 | K2 | X | .002 | .002 | 0 | %100 |
| 39 | K3 | X | .002 | .002 | 0 | %100 |
| 40 | CP-1 | Z | .007 | .007 | 0 | %100 |
| 41 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 42 | CP-2 | Z | .003 | .003 | 0 | %100 |
| 43 | CP-2U | Z | .002 | .002 | 0 | %100 |
| 44 | CP-3 | Z | .003 | .003 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .005 | .005 | 0 | %100 |
| 49 | GSI-2 | Z | .003 | .003 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | .002 | .002 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .004 | .004 | 0 | %100 |
| 55 | GSIP-3A | Z | .004 | .004 | 0 | %100 |
| 56 | GSIP-3B | Z | .002 | .002 | 0 | %100 |
| 57 | MP-1 | Z | .003 | .003 | 0 | %100 |
| 58 | MP-2 | Z | .003 | .003 | 0 | %100 |
| 59 | MP-3 | Z | .003 | .003 | 0 | %100 |
| 60 | MP-4 | Z | .003 | .003 | 0 | %100 |
| 61 | MP-5 | Z | .003 | .003 | 0 | %100 |
| 62 | MP-6 | Z | .003 | .003 | 0 | %100 |
| 63 | MP-7 | Z | .003 | .003 | 0 | %100 |
| 64 | MP-8 | Z | .003 | .003 | 0 | %100 |
| 65 | MP-9 | Z | .003 | .003 | 0 | %100 |
| 66 | MP-10 | Z | .003 | .003 | 0 | %100 |
| 67 | MP-11 | Z | .003 | .003 | 0 | %100 |
| 68 | MP-12 | Z | .003 | .003 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | .004 | .004 | 0 | %100 |
| 71 | SA-3 | Z | .005 | .005 | 0 | %100 |
| 72 | SF1-HR | Z | .003 | .003 | 0 | %100 |
| 73 | SF1-TH | Z | .004 | .004 | 0 | %100 |
| 74 | SF2-HR | Z | .002 | .002 | 0 | %100 |
| 75 | SF2-TH | Z | .002 | .002 | 0 | %100 |
| 76 | K1 | Z | .004 | .004 | 0 | %100 |
| 77 | K2 | Z | .004 | .004 | 0 | %100 |
| 78 | K3 | Z | .004 | .004 | 0 | %100 |

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | .007 | .007 | 0 | %100 |
| 2 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 3 | CP-2 | Z | .007 | .007 | 0 | %100 |
| 4 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | .005 | .005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 10 | GSI-2 | Z | .005 | .005 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | .004 | .004 | 0 | %100 |
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | .004 | .004 | 0 | %100 |
| 16 | GSIP-3A | Z | .004 | .004 | 0 | %100 |
| 17 | GSIP-3B | Z | .004 | .004 | 0 | %100 |
| 18 | MP-1 | Z | .003 | .003 | 0 | %100 |
| 19 | MP-2 | Z | .003 | .003 | 0 | %100 |
| 20 | MP-3 | Z | .003 | .003 | 0 | %100 |
| 21 | MP-4 | Z | .003 | .003 | 0 | %100 |
| 22 | MP-5 | Z | .003 | .003 | 0 | %100 |
| 23 | MP-6 | Z | .003 | .003 | 0 | %100 |
| 24 | MP-7 | Z | .003 | .003 | 0 | %100 |
| 25 | MP-8 | Z | .003 | .003 | 0 | %100 |
| 26 | MP-9 | Z | .003 | .003 | 0 | %100 |
| 27 | MP-10 | Z | .003 | .003 | 0 | %100 |
| 28 | MP-11 | Z | .003 | .003 | 0 | %100 |
| 29 | MP-12 | Z | .003 | .003 | 0 | %100 |
| 30 | SA-1 | Z | .003 | .003 | 0 | %100 |
| 31 | SA-2 | Z | .003 | .003 | 0 | %100 |
| 32 | SA-3 | Z | .006 | .006 | 0 | %100 |
| 33 | SF1-HR | Z | .003 | .003 | 0 | %100 |
| 34 | SF1-TH | Z | .004 | .004 | 0 | %100 |
| 35 | SF2-HR | Z | .003 | .003 | 0 | %100 |
| 36 | SF2-TH | Z | .004 | .004 | 0 | %100 |
| 37 | K1 | Z | .005 | .005 | 0 | %100 |
| 38 | K2 | Z | .005 | .005 | 0 | %100 |
| 39 | K3 | Z | .005 | .005 | 0 | %100 |

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -.002 | -.002 | 0 | %100 |
| 2 | CP-1U | X | -.001 | -.001 | 0 | %100 |
| 3 | CP-2 | X | -.004 | -.004 | 0 | %100 |
| 4 | CP-2U | X | -.002 | -.002 | 0 | %100 |
| 5 | CP-3 | X | -.002 | -.002 | 0 | %100 |
| 6 | CP-3U | X | -.001 | -.001 | 0 | %100 |
| 7 | FF-HR | X | -.000973 | -.000973 | 0 | %100 |
| 8 | FFTH | X | -.001 | -.001 | 0 | %100 |
| 9 | GSI-1 | X | -.001 | -.001 | 0 | %100 |
| 10 | GSI-2 | X | -.003 | -.003 | 0 | %100 |
| 11 | GSI-3 | X | -.002 | -.002 | 0 | %100 |
| 12 | GSIP-1A | X | -.002 | -.002 | 0 | %100 |
| 13 | GSIP-1B | X | -.001 | -.001 | 0 | %100 |
| 14 | GSIP-2A | X | -.001 | -.001 | 0 | %100 |
| 15 | GSIP-2B | X | -.001 | -.001 | 0 | %100 |
| 16 | GSIP-3A | X | -.001 | -.001 | 0 | %100 |
| 17 | GSIP-3B | X | -.002 | -.002 | 0 | %100 |
| 18 | MP-1 | X | -.002 | -.002 | 0 | %100 |
| 19 | MP-2 | X | -.002 | -.002 | 0 | %100 |
| 20 | MP-3 | X | -.002 | -.002 | 0 | %100 |
| 21 | MP-4 | X | -.002 | -.002 | 0 | %100 |
| 22 | MP-5 | X | -.002 | -.002 | 0 | %100 |
| 23 | MP-6 | X | -.002 | -.002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 24 | MP-7 | X | -.002 | -.002 | 0 | %100 |
| 25 | MP-8 | X | -.002 | -.002 | 0 | %100 |
| 26 | MP-9 | X | -.002 | -.002 | 0 | %100 |
| 27 | MP-10 | X | -.002 | -.002 | 0 | %100 |
| 28 | MP-11 | X | -.002 | -.002 | 0 | %100 |
| 29 | MP-12 | X | -.002 | -.002 | 0 | %100 |
| 30 | SA-1 | X | -.003 | -.003 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |
| 32 | SA-3 | X | -.002 | -.002 | 0 | %100 |
| 33 | SF1-HR | X | -.000789 | -.000789 | 0 | %100 |
| 34 | SF1-TH | X | -.0009 | -.0009 | 0 | %100 |
| 35 | SF2-HR | X | -.002 | -.002 | 0 | %100 |
| 36 | SF2-TH | X | -.002 | -.002 | 0 | %100 |
| 37 | K1 | X | -.002 | -.002 | 0 | %100 |
| 38 | K2 | X | -.002 | -.002 | 0 | %100 |
| 39 | K3 | X | -.002 | -.002 | 0 | %100 |
| 40 | CP-1 | Z | .003 | .003 | 0 | %100 |
| 41 | CP-1U | Z | .002 | .002 | 0 | %100 |
| 42 | CP-2 | Z | .007 | .007 | 0 | %100 |
| 43 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 44 | CP-3 | Z | .003 | .003 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .003 | .003 | 0 | %100 |
| 49 | GSI-2 | Z | .005 | .005 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | .004 | .004 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .002 | .002 | 0 | %100 |
| 55 | GSIP-3A | Z | .002 | .002 | 0 | %100 |
| 56 | GSIP-3B | Z | .004 | .004 | 0 | %100 |
| 57 | MP-1 | Z | .003 | .003 | 0 | %100 |
| 58 | MP-2 | Z | .003 | .003 | 0 | %100 |
| 59 | MP-3 | Z | .003 | .003 | 0 | %100 |
| 60 | MP-4 | Z | .003 | .003 | 0 | %100 |
| 61 | MP-5 | Z | .003 | .003 | 0 | %100 |
| 62 | MP-6 | Z | .003 | .003 | 0 | %100 |
| 63 | MP-7 | Z | .003 | .003 | 0 | %100 |
| 64 | MP-8 | Z | .003 | .003 | 0 | %100 |
| 65 | MP-9 | Z | .003 | .003 | 0 | %100 |
| 66 | MP-10 | Z | .003 | .003 | 0 | %100 |
| 67 | MP-11 | Z | .003 | .003 | 0 | %100 |
| 68 | MP-12 | Z | .003 | .003 | 0 | %100 |
| 69 | SA-1 | Z | .004 | .004 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | .005 | .005 | 0 | %100 |
| 72 | SF1-HR | Z | .002 | .002 | 0 | %100 |
| 73 | SF1-TH | Z | .002 | .002 | 0 | %100 |
| 74 | SF2-HR | Z | .003 | .003 | 0 | %100 |
| 75 | SF2-TH | Z | .004 | .004 | 0 | %100 |
| 76 | K1 | Z | .004 | .004 | 0 | %100 |
| 77 | K2 | Z | .004 | .004 | 0 | %100 |
| 78 | K3 | Z | .004 | .004 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 33 : 315 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 CP-1 | X | -0.01 | -0.01 | 0 | %100 |
| 2 CP-1U | X | -0.00802 | -0.00802 | 0 | %100 |
| 3 CP-2 | X | -0.05 | -0.05 | 0 | %100 |
| 4 CP-2U | X | -0.03 | -0.03 | 0 | %100 |
| 5 CP-3 | X | -0.04 | -0.04 | 0 | %100 |
| 6 CP-3U | X | -0.02 | -0.02 | 0 | %100 |
| 7 FF-HR | X | -0.02 | -0.02 | 0 | %100 |
| 8 FFTH | X | -0.02 | -0.02 | 0 | %100 |
| 9 GSI-1 | X | -0.01 | -0.01 | 0 | %100 |
| 10 GSI-2 | X | -0.04 | -0.04 | 0 | %100 |
| 11 GSI-3 | X | -0.03 | -0.03 | 0 | %100 |
| 12 GSIP-1A | X | -0.03 | -0.03 | 0 | %100 |
| 13 GSIP-1B | X | -0.02 | -0.02 | 0 | %100 |
| 14 GSIP-2A | X | -0.02 | -0.02 | 0 | %100 |
| 15 GSIP-2B | X | -0.00767 | -0.00767 | 0 | %100 |
| 16 GSIP-3A | X | -0.00767 | -0.00767 | 0 | %100 |
| 17 GSIP-3B | X | -0.03 | -0.03 | 0 | %100 |
| 18 MP-1 | X | -0.02 | -0.02 | 0 | %100 |
| 19 MP-2 | X | -0.02 | -0.02 | 0 | %100 |
| 20 MP-3 | X | -0.02 | -0.02 | 0 | %100 |
| 21 MP-4 | X | -0.02 | -0.02 | 0 | %100 |
| 22 MP-5 | X | -0.02 | -0.02 | 0 | %100 |
| 23 MP-6 | X | -0.02 | -0.02 | 0 | %100 |
| 24 MP-7 | X | -0.02 | -0.02 | 0 | %100 |
| 25 MP-8 | X | -0.02 | -0.02 | 0 | %100 |
| 26 MP-9 | X | -0.02 | -0.02 | 0 | %100 |
| 27 MP-10 | X | -0.02 | -0.02 | 0 | %100 |
| 28 MP-11 | X | -0.02 | -0.02 | 0 | %100 |
| 29 MP-12 | X | -0.02 | -0.02 | 0 | %100 |
| 30 SA-1 | X | -0.04 | -0.04 | 0 | %100 |
| 31 SA-2 | X | -0.01 | -0.01 | 0 | %100 |
| 32 SA-3 | X | -0.03 | -0.03 | 0 | %100 |
| 33 SF1-HR | X | -0.00577 | -0.00577 | 0 | %100 |
| 34 SF1-TH | X | -0.00659 | -0.00659 | 0 | %100 |
| 35 SF2-HR | X | -0.02 | -0.02 | 0 | %100 |
| 36 SF2-TH | X | -0.02 | -0.02 | 0 | %100 |
| 37 K1 | X | -0.03 | -0.03 | 0 | %100 |
| 38 K2 | X | -0.03 | -0.03 | 0 | %100 |
| 39 K3 | X | -0.03 | -0.03 | 0 | %100 |
| 40 CP-1 | Z | 0.01 | 0.01 | 0 | %100 |
| 41 CP-1U | Z | 0.0081 | 0.0081 | 0 | %100 |
| 42 CP-2 | Z | 0.05 | 0.05 | 0 | %100 |
| 43 CP-2U | Z | 0.03 | 0.03 | 0 | %100 |
| 44 CP-3 | Z | 0.04 | 0.04 | 0 | %100 |
| 45 CP-3U | Z | 0.02 | 0.02 | 0 | %100 |
| 46 FF-HR | Z | 0.02 | 0.02 | 0 | %100 |
| 47 FFTH | Z | 0.02 | 0.02 | 0 | %100 |
| 48 GSI-1 | Z | 0.01 | 0.01 | 0 | %100 |
| 49 GSI-2 | Z | 0.04 | 0.04 | 0 | %100 |
| 50 GSI-3 | Z | 0.03 | 0.03 | 0 | %100 |
| 51 GSIP-1A | Z | 0.03 | 0.03 | 0 | %100 |
| 52 GSIP-1B | Z | 0.02 | 0.02 | 0 | %100 |
| 53 GSIP-2A | Z | 0.02 | 0.02 | 0 | %100 |
| 54 GSIP-2B | Z | 0.00846 | 0.00846 | 0 | %100 |
| 55 GSIP-3A | Z | 0.00846 | 0.00846 | 0 | %100 |
| 56 GSIP-3B | Z | 0.03 | 0.03 | 0 | %100 |
| 57 MP-1 | Z | 0.02 | 0.02 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 58 MP-2 | Z | 0.02 | 0.02 | 0 | %100 |
| 59 MP-3 | Z | 0.02 | 0.02 | 0 | %100 |
| 60 MP-4 | Z | 0.02 | 0.02 | 0 | %100 |
| 61 MP-5 | Z | 0.02 | 0.02 | 0 | %100 |
| 62 MP-6 | Z | 0.02 | 0.02 | 0 | %100 |
| 63 MP-7 | Z | 0.02 | 0.02 | 0 | %100 |
| 64 MP-8 | Z | 0.02 | 0.02 | 0 | %100 |
| 65 MP-9 | Z | 0.02 | 0.02 | 0 | %100 |
| 66 MP-10 | Z | 0.02 | 0.02 | 0 | %100 |
| 67 MP-11 | Z | 0.02 | 0.02 | 0 | %100 |
| 68 MP-12 | Z | 0.02 | 0.02 | 0 | %100 |
| 69 SA-1 | Z | 0.04 | 0.04 | 0 | %100 |
| 70 SA-2 | Z | 0.01 | 0.01 | 0 | %100 |
| 71 SA-3 | Z | 0.03 | 0.03 | 0 | %100 |
| 72 SF1-HR | Z | 0.00713 | 0.00713 | 0 | %100 |
| 73 SF1-TH | Z | 0.00796 | 0.00796 | 0 | %100 |
| 74 SF2-HR | Z | 0.03 | 0.03 | 0 | %100 |
| 75 SF2-TH | Z | 0.03 | 0.03 | 0 | %100 |
| 76 K1 | Z | 0.04 | 0.04 | 0 | %100 |
| 77 K2 | Z | 0.04 | 0.04 | 0 | %100 |
| 78 K3 | Z | 0.04 | 0.04 | 0 | %100 |

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 CP-1 | X | 0 | 0 | 0 | %100 |
| 2 CP-1U | X | 0 | 0 | 0 | %100 |
| 3 CP-2 | X | -0.06 | -0.06 | 0 | %100 |
| 4 CP-2U | X | -0.03 | -0.03 | 0 | %100 |
| 5 CP-3 | X | -0.06 | -0.06 | 0 | %100 |
| 6 CP-3U | X | -0.03 | -0.03 | 0 | %100 |
| 7 FF-HR | X | -0.03 | -0.03 | 0 | %100 |
| 8 FFTH | X | -0.03 | -0.03 | 0 | %100 |
| 9 GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 GSI-2 | X | -0.04 | -0.04 | 0 | %100 |
| 11 GSI-3 | X | -0.05 | -0.05 | 0 | %100 |
| 12 GSIP-1A | X | -0.03 | -0.03 | 0 | %100 |
| 13 GSIP-1B | X | -0.04 | -0.04 | 0 | %100 |
| 14 GSIP-2A | X | -0.04 | -0.04 | 0 | %100 |
| 15 GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 GSIP-3A | X | 0 | 0 | 0 | %100 |
| 17 GSIP-3B | X | -0.03 | -0.03 | 0 | %100 |
| 18 MP-1 | X | -0.03 | -0.03 | 0 | %100 |
| 19 MP-2 | X | -0.03 | -0.03 | 0 | %100 |
| 20 MP-3 | X | -0.03 | -0.03 | 0 | %100 |
| 21 MP-4 | X | -0.03 | -0.03 | 0 | %100 |
| 22 MP-5 | X | -0.03 | -0.03 | 0 | %100 |
| 23 MP-6 | X | -0.03 | -0.03 | 0 | %100 |
| 24 MP-7 | X | -0.03 | -0.03 | 0 | %100 |
| 25 MP-8 | X | -0.03 | -0.03 | 0 | %100 |
| 26 MP-9 | X | -0.03 | -0.03 | 0 | %100 |
| 27 MP-10 | X | -0.03 | -0.03 | 0 | %100 |
| 28 MP-11 | X | -0.03 | -0.03 | 0 | %100 |
| 29 MP-12 | X | -0.03 | -0.03 | 0 | %100 |
| 30 SA-1 | X | -0.05 | -0.05 | 0 | %100 |
| 31 SA-2 | X | -0.03 | -0.03 | 0 | %100 |
| 32 SA-3 | X | -0.02 | -0.02 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 33 | SF1-HR | X | 0 | 0 | %100 |
| 34 | SF1-TH | X | 0 | 0 | %100 |
| 35 | SF2-HR | X | -0.002 | -0.002 | 0 |
| 36 | SF2-TH | X | -0.003 | -0.003 | 0 |
| 37 | K1 | X | -0.004 | -0.004 | 0 |
| 38 | K2 | X | -0.004 | -0.004 | 0 |
| 39 | K3 | X | -0.004 | -0.004 | 0 |
| 40 | CP-1 | Z | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | %100 |
| 42 | CP-2 | Z | .003 | .003 | 0 |
| 43 | CP-2U | Z | .002 | .002 | 0 |
| 44 | CP-3 | Z | .003 | .003 | 0 |
| 45 | CP-3U | Z | .002 | .002 | 0 |
| 46 | FF-HR | Z | .002 | .002 | 0 |
| 47 | FFTH | Z | .002 | .002 | 0 |
| 48 | GSI-1 | Z | 0 | 0 | %100 |
| 49 | GSI-2 | Z | .003 | .003 | 0 |
| 50 | GSI-3 | Z | .003 | .003 | 0 |
| 51 | GSIP-1A | Z | .002 | .002 | 0 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 |
| 54 | GSIP-2B | Z | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | .002 | .002 | 0 |
| 57 | MP-1 | Z | .002 | .002 | 0 |
| 58 | MP-2 | Z | .002 | .002 | 0 |
| 59 | MP-3 | Z | .002 | .002 | 0 |
| 60 | MP-4 | Z | .002 | .002 | 0 |
| 61 | MP-5 | Z | .002 | .002 | 0 |
| 62 | MP-6 | Z | .002 | .002 | 0 |
| 63 | MP-7 | Z | .002 | .002 | 0 |
| 64 | MP-8 | Z | .002 | .002 | 0 |
| 65 | MP-9 | Z | .002 | .002 | 0 |
| 66 | MP-10 | Z | .002 | .002 | 0 |
| 67 | MP-11 | Z | .002 | .002 | 0 |
| 68 | MP-12 | Z | .002 | .002 | 0 |
| 69 | SA-1 | Z | .003 | .003 | 0 |
| 70 | SA-2 | Z | .001 | .001 | 0 |
| 71 | SA-3 | Z | .002 | .002 | 0 |
| 72 | SF1-HR | Z | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | %100 |
| 74 | SF2-HR | Z | .002 | .002 | 0 |
| 75 | SF2-TH | Z | .002 | .002 | 0 |
| 76 | K1 | Z | .003 | .003 | 0 |
| 77 | K2 | Z | .003 | .003 | 0 |
| 78 | K3 | Z | .003 | .003 | 0 |

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 | CP-2 | Y | -.001 | .411 | .623 |
| 2 | GSI-2 | Y | -.008 | .549 | 4.576 |
| 3 | GSIP-2A | Y | -.00017 | .409 | 1.146 |
| 4 | GSIP-2A | Y | -.007 | .009 | 1.882 |
| 5 | GSIP-2A | Y | -.009 | .005 | 2.618 |
| 6 | GSIP-2A | Y | -.005 | .004 | 2.618 |
| 7 | GSIP-2A | Y | -.004 | -.0007068 | 3.355 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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 3:47 PM
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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 8 | GSIP-2B | Y | -.0007068 | -.004 | 0 |
| 9 | GSIP-2B | Y | -.004 | -.005 | .736 |
| 10 | GSIP-2B | Y | -.005 | -.009 | 1.473 |
| 11 | GSIP-2B | Y | -.009 | -.007 | 2.209 |
| 12 | GSIP-2B | Y | -.007 | -.00017 | 2.946 |
| 13 | SA-2 | Y | -.0003559 | -.008 | 1.556 |
| 14 | SA-2 | Y | -.008 | -.017 | 2.282 |
| 15 | SA-2 | Y | -.017 | -.015 | 3.009 |
| 16 | SA-2 | Y | -.015 | -.008 | 3.735 |
| 17 | SA-2 | Y | -.008 | -.001 | 4.461 |
| 18 | CP-1 | Y | -.001 | -.001 | .41 |
| 19 | GSI-1 | Y | -.008 | -.008 | .549 |
| 20 | GSIP-1A | Y | -.00017 | -.007 | .409 |
| 21 | GSIP-1A | Y | -.007 | -.009 | 1.145 |
| 22 | GSIP-1A | Y | -.009 | -.005 | 1.882 |
| 23 | GSIP-1A | Y | -.005 | -.004 | 2.618 |
| 24 | GSIP-1A | Y | -.004 | -.0007093 | 3.355 |
| 25 | GSIP-1B | Y | -.0007068 | -.004 | 0 |
| 26 | GSIP-1B | Y | -.004 | -.005 | .736 |
| 27 | GSIP-1B | Y | -.005 | -.009 | 1.473 |
| 28 | GSIP-1B | Y | -.009 | -.007 | 2.209 |
| 29 | GSIP-1B | Y | -.007 | -.00017 | 2.946 |
| 30 | SA-1 | Y | -.0003559 | -.008 | 1.556 |
| 31 | SA-1 | Y | -.008 | -.017 | 2.282 |
| 32 | SA-1 | Y | -.017 | -.015 | 3.009 |
| 33 | SA-1 | Y | -.015 | -.008 | 3.735 |
| 34 | SA-1 | Y | -.008 | -.001 | 4.461 |
| 35 | CP-3 | Y | -.001 | -.001 | .41 |
| 36 | GSI-3 | Y | -.008 | -.008 | .549 |
| 37 | GSIP-3A | Y | -.00017 | -.007 | .409 |
| 38 | GSIP-3A | Y | -.007 | -.009 | 1.145 |
| 39 | GSIP-3A | Y | -.009 | -.005 | 1.882 |
| 40 | GSIP-3A | Y | -.005 | -.004 | 2.618 |
| 41 | GSIP-3A | Y | -.004 | -.0007093 | 3.355 |
| 42 | GSIP-3B | Y | -.0007068 | -.004 | 0 |
| 43 | GSIP-3B | Y | -.004 | -.005 | .736 |
| 44 | GSIP-3B | Y | -.005 | -.009 | 1.473 |
| 45 | GSIP-3B | Y | -.009 | -.007 | 2.209 |
| 46 | GSIP-3B | Y | -.007 | -.00017 | 2.946 |
| 47 | SA-3 | Y | -.0003559 | -.008 | 1.556 |
| 48 | SA-3 | Y | -.008 | -.017 | 2.282 |
| 49 | SA-3 | Y | -.017 | -.015 | 3.009 |
| 50 | SA-3 | Y | -.015 | -.008 | 3.735 |
| 51 | SA-3 | Y | -.008 | -.001 | 4.461 |

Member Area Loads (BLC 1 : Dead)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | GSIP-6 | GSIP-5 | GSIP-8 | GSIP-7 | Y | Two Way | -.012 |
| 2 | GSIP-2 | GSIP-1 | GSIP-4 | GSIP-3 | Y | Two Way | -.012 |
| 3 | GSIP-10 | GSIP-9 | GSIP-12 | GSIP-11 | Y | Two Way | -.012 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

June 19, 2020
 3:47 PM
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Envelope Joint Reactions

| Joint | X [k] | LC | Y [k] | LC | Z [k] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|------------|------------|----|-------|----|--------|----|-----------|----|-----------|----|-----------|----|
| 1 SA1 | max 2.084 | 2 | .851 | 36 | 2.775 | 4 | .213 | 9 | 1.717 | 17 | .949 | 25 |
| 2 | min -3.093 | 26 | .021 | 11 | -4.522 | 28 | -.828 | 49 | -1.716 | 9 | -.74 | 17 |
| 3 SA2 | max 2.859 | 17 | .848 | 48 | 5.186 | 24 | .757 | 18 | 1.735 | 11 | .971 | 26 |
| 4 | min -3.897 | 25 | -.032 | 8 | -3.39 | 16 | -.288 | 10 | -1.734 | 3 | -.579 | 2 |
| 5 SA3 | max 6.893 | 18 | .865 | 42 | 1.303 | 23 | .739 | 23 | 1.45 | 7 | -.194 | 2 |
| 6 | min -4.816 | 10 | -.061 | 2 | -1.303 | 15 | -.635 | 15 | -1.446 | 15 | -.742 | 42 |
| 7 K1-A | max 1.609 | 44 | 2.279 | 44 | 2.791 | 44 | 0 | 9 | 0 | 9 | 0 | 9 |
| 8 | min -.305 | 4 | -.455 | 3 | -.563 | 3 | 0 | 33 | 0 | 33 | 0 | 33 |
| 9 K2-A | max 1.68 | 40 | 2.378 | 40 | .864 | 16 | 0 | 2 | 0 | 2 | 0 | 26 |
| 10 | min -.488 | 16 | -.703 | 16 | -2.914 | 40 | 0 | 26 | 0 | 26 | 0 | 2 |
| 11 K3-A | max 1.248 | 10 | 2.535 | 18 | .036 | 6 | 0 | 23 | 0 | 15 | 0 | 98 |
| 12 | min -3.582 | 18 | -.883 | 10 | -.036 | 14 | 0 | 15 | 0 | 23 | 0 | 1 |
| 13 Totals: | max 7.831 | 18 | 8.381 | 49 | 5.68 | 23 | | | | | | |
| 14 | min -7.831 | 10 | 2.841 | 83 | -5.68 | 15 | | | | | | |

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

| Member | Shape | Code Check | Loc [ft] | LC | Shear | Lo | phi*P | phi*P | phi*M | phi*M | Eqn | |
|--------|----------|------------|----------|--------|-------|------|-------|--------|--------|--------|--------|-------|
| 1 | MP-2 | PIPE 2.0 | .705 | 5.75 | 18 | 1.01 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 2 | MP-6 | PIPE 2.0 | .652 | 5.75 | 25 | .086 | 2.25 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 3 | MP-10 | PIPE 2.0 | .639 | 5.75 | 26 | .108 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 4 | MP-7 | PIPE 2.0 | .603 | 5.75 | 18 | .132 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 5 | MP-11 | PIPE 2.0 | .597 | 5.75 | 25 | .106 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 6 | MP-3 | PIPE 2.0 | .568 | 5.75 | 18 | .123 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 7 | SF1-HR | PIPE 2.0 | .532 | .651 | 18 | .201 | .651 | 1.428 | 32.13 | 1.872 | 1.872 | H1-1a |
| 8 | CP-2U | L2x2x3 | .530 | 0 | 18 | .144 | 1.0 | 22.173 | 23.393 | .558 | 1.239 | H2-1 |
| 9 | FF-HR | PIPE 2.0 | .499 | .651 | 25 | .230 | .651 | 1.428 | 32.13 | 1.872 | 1.872 | H1-1a |
| 10 | CP-1U | L2x2x3 | .481 | 1.034 | 26 | .156 | 1.0 | 22.173 | 23.393 | .558 | 1.239 | H2-1 |
| 11 | MP-9 | PIPE 2.0 | .451 | 5.75 | 33 | .129 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 12 | SF2-HR | PIPE 2.0 | .443 | 11.849 | 18 | .225 | 12 | 1.428 | 32.13 | 1.872 | 1.872 | H1-1a |
| 13 | MP-5 | PIPE 2.0 | .439 | 5.75 | 26 | .190 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 14 | MP-12 | PIPE 2.0 | .426 | 5.75 | 18 | .146 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 15 | CP-3U | L2x2x3 | .423 | 1.034 | 32 | .116 | 1.0 | 22.173 | 23.393 | .558 | 1.239 | H2-1 |
| 16 | CP-3 | PL6x1/2 | .354 | .517 | 26 | .131 | 1.0 | 88.748 | 97.2 | 1.012 | 12.15 | H1-1b |
| 17 | CP-2 | PL6x1/2 | .353 | .517 | 33 | .150 | 0 | 88.748 | 97.2 | 1.012 | 12.15 | H1-1b |
| 18 | MP-4 | PIPE 2.0 | .346 | 5.75 | 24 | .164 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 19 | MP-8 | PIPE 2.0 | .344 | 5.75 | 18 | .138 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 20 | MP-1 | PIPE 2.0 | .316 | 5.75 | 20 | .192 | 5.75 | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 21 | CP-1 | PL6x1/2 | .291 | .517 | 19 | .157 | .517 | 88.748 | 97.2 | 1.012 | 12.15 | H1-1b |
| 22 | GSI-3 | HSS4X... | .195 | 2.562 | 34 | .140 | 4.8 | 104.0 | 106.1 | 12.311 | 12.311 | H1-1b |
| 23 | GSI-2 | HSS4X... | .193 | 2.562 | 41 | .141 | .32 | 104.0 | 106.1 | 12.311 | 12.311 | H1-1b |
| 24 | GSI-1 | HSS4X... | .189 | 2.562 | 43 | .152 | 4.8 | 104.0 | 106.1 | 12.311 | 12.311 | H1-1b |
| 25 | SA-3 | HSS4X... | .187 | 3.566 | 18 | .116 | 0 | 97.439 | 106.1 | 12.311 | 12.311 | H1-1b |
| 26 | GSSIP-2A | L2x2x3 | .182 | 2.046 | 25 | .009 | 0 | 10.114 | 23.393 | .558 | 1.085 | H2-1 |
| 27 | SF2-TH | PIPE 3.0 | .180 | 4.427 | 2 | .177 | 4.4 | 6.489 | 65.205 | 5.749 | 5.749 | H1-1a |
| 28 | SA-2 | HSS4X... | .176 | 3.566 | 25 | .146 | 0 | 97.439 | 106.1 | 12.311 | 12.311 | H1-1b |
| 29 | SA-1 | HSS4X... | .173 | 0 | 25 | .155 | 0 | 97.439 | 106.1 | 12.311 | 12.311 | H1-1b |
| 30 | GSSIP-3B | L2x2x3 | .172 | 2.088 | 33 | .008 | 0 | 10.114 | 23.393 | .558 | 1.167 | H2-1 |
| 31 | FFTH | PIPE 3.0 | .171 | 8.073 | 9 | .198 | 4.4 | 6.489 | 65.205 | 5.749 | 5.749 | H1-1a |
| 32 | SF1-TH | PIPE 3.0 | .169 | 8.073 | 2 | .142 | 4.4 | 6.489 | 65.205 | 5.749 | 5.749 | H1-1a |
| 33 | GSSIP-3A | L2x2x3 | .169 | 2.003 | 18 | .007 | 4.0 | 10.114 | 23.393 | .558 | 1.086 | H2-1 |
| 34 | GSSIP-1B | L2x2x3 | .158 | 2.046 | 27 | .008 | 0 | 10.114 | 23.393 | .558 | 1.085 | H2-1 |
| 35 | GSSIP-2B | L2x2x3 | .150 | 2.088 | 23 | .007 | 0 | 10.114 | 23.393 | .558 | 1.087 | H2-1 |
| 36 | GSSIP-1A | L2x2x3 | .144 | 2.046 | 31 | .008 | 4.0 | 10.114 | 23.393 | .558 | 1.067 | H2-1 |
| 37 | K3 | LL2.5x2... | .100 | 4.375 | 18 | .005 | 0 | 44.492 | 58.32 | 3.954 | 2.55 | H1-1a |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

June 19, 2020
 3:47 PM
 Checked By: HBC

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

| Member | Shape | Code Check | Loc [ft] | LC | Shear | Lo | phi*P | phi*P | phi*M | phi*M | Eqn | |
|--------|-------|------------|----------|----|-------|-------|-------|--------|-------|-------|------|-------|
| 38 | K2 | LL2.5x2... | .093 | 0 | 40 | 1.006 | 0 | 44.492 | 58.32 | 3.954 | 2.55 | H1-1a |
| 39 | K1 | LL2.5x2... | .089 | 0 | 44 | 1.007 | 0 | 44.492 | 58.32 | 3.954 | 2.55 | H1-1a |

Envelope None Cold Formed Steel Code Checks

| Member | Shape | Code | Loc [ft] | LC | Shear | Lo | Dir | Pn [k] | Tn [k] | Mny [k-ft] | Mnz [k-ft] | Cb | Cmy | Crz | Eqn |
|----------------------|-------|------|----------|----|-------|----|-----|--------|--------|------------|------------|----|-----|-----|-----|
| No Data to Print ... | | | | | | | | | | | | | | | |

APPENDIX B
ADDITIONAL CALCULATIONS



| | | |
|-----------------|-----------|----------|
| Code Revisions: | TIA-222-H | IBC 2018 |
| Tower Type: | Monopole | |

| Wind Inputs: | | |
|---------------------|-------|--------|
| Ult. Wind Velocity: | 125.0 | mph |
| Live Load Velocity: | 30.0 | mph |
| Ice Wind Velocity: | 50.0 | mph |
| Base Ice Thickness: | 1.50 | inches |
| Mount Centerline: | 123.0 | ft |
| Antenna Centerline: | 123.0 | ft |
| Exposure Category: | C | |
| Topo Category: | 1 | |
| Risk Category: | II | |
| Ground Elevation: | 19 | ft |

| Wind Calculations: | | |
|--------------------|-------|-------------------------|
| K_{zt} : | 1.000 | Section 2.6.6 |
| K_d : | 0.950 | |
| $K_{z-Mount}$: | 1.322 | Section 2.6.5.2 |
| $K_{z-Antenna}$: | 1.322 | Section 2.6.5.2 |
| K_{iz} : | 1.141 | Section 2.6.10 |
| Ice Thickness: | 1.454 | inches - Section 2.6.10 |
| $K_{es-wind}$: | 0.95 | Annex S (Table S-1) |
| K_{es-ice} : | 0.85 | Annex S (Table S-1) |

| Without Ice - (psf) | | With Ice - (psf) | |
|-------------------------|-------|-------------------------|------|
| $(q_z G_h)_{Mount}$: | 47.69 | $(q_z G_h)_{Mount}$: | 8.03 |
| $(q_z G_h)_{Antenna}$: | 47.69 | $(q_z G_h)_{Antenna}$: | 8.03 |



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

| MFR | Model | Height (in) | Width (in) | Depth (in) | Wt. (lbs) | Azimuth° | Qty | Shape | Member Label | Distance from start node of the member | | |
|----------|----------------------|-------------|------------|------------|-----------|----------|-----|-------|--------------|--|--------------------|--------------------|
| | | | | | | | | | | Location #1 (ft,%) | Location #2 (ft,%) | Location #3 (ft,%) |
| Ericsson | AIR32 B66Aa/B2a | 56.60 | 12.90 | 8.70 | 132.20 | 0.00 | 1 | Flat | MP-1 | 1.50 | 4.50 | |
| RFS | APXVAARR24_43-UNA20 | 95.90 | 24.00 | 8.70 | 127.90 | 0.00 | 1 | Flat | MP-2 | 1.50 | 7.50 | |
| Ericsson | RRUS 4415 B25 | 15.00 | 13.20 | 5.40 | 46.00 | 0.00 | 1 | Flat | MP-2 | 2.50 | | |
| Ericsson | Radio 4449 B71 B85A | 15.00 | 13.20 | 10.50 | 75.00 | 0.00 | 1 | Flat | MP-2 | 2.50 | | |
| Ericsson | Air6449 B41 | 33.10 | 20.60 | 8.60 | 104.00 | 0.00 | 1 | Flat | MP-3 | 1.50 | 4.00 | |
| RFS | APX16DWV16DWVS-E-A20 | 55.90 | 13.30 | 3.10 | 40.70 | 0.00 | 1 | Flat | MP-4 | 1.50 | 5.50 | |
| Ericsson | KRY 112 489/1 | 11.00 | 6.10 | 3.90 | 15.40 | 0.00 | 1 | Flat | MP-4 | 2.50 | | |
| Ericsson | KRY 112 144/1 | 6.90 | 6.10 | 2.70 | 11.00 | 0.00 | 1 | Flat | MP-4 | 3.50 | | |
| Ericsson | AIR32 B66Aa/B2a | 56.60 | 12.90 | 8.70 | 132.20 | 160.00 | 1 | Flat | MP-5 | 1.50 | 4.50 | |
| RFS | APXVAARR24_43-UNA20 | 95.90 | 24.00 | 8.70 | 127.90 | 160.00 | 1 | Flat | MP-6 | 1.50 | 7.50 | |
| Ericsson | RRUS 4415 B25 | 15.00 | 13.20 | 5.40 | 46.00 | 160.00 | 1 | Flat | MP-6 | 2.50 | | |
| Ericsson | Radio 4449 B71 B85A | 15.00 | 13.20 | 10.50 | 75.00 | 160.00 | 1 | Flat | MP-6 | 2.50 | | |
| Ericsson | Air6449 B41 | 33.10 | 20.60 | 8.60 | 104.00 | 160.00 | 1 | Flat | MP-7 | 1.50 | 4.00 | |
| RFS | APX16DWV16DWVS-E-A20 | 55.90 | 13.30 | 3.10 | 40.70 | 160.00 | 1 | Flat | MP-8 | 1.50 | 5.50 | |
| Ericsson | KRY 112 489/1 | 11.00 | 6.10 | 3.90 | 15.40 | 160.00 | 2 | Flat | MP-8 | 2.50 | | |
| Ericsson | KRY 112 144/1 | 6.90 | 6.10 | 2.70 | 11.00 | 160.00 | 1 | Flat | MP-8 | 3.50 | | |
| Ericsson | AIR32 B66Aa/B2a | 56.60 | 12.90 | 8.70 | 132.20 | 160.00 | 1 | Flat | MP-9 | 1.50 | 4.50 | |
| RFS | APXVAARR24_43-UNA20 | 95.90 | 24.00 | 8.70 | 127.90 | 160.00 | 1 | Flat | MP-10 | 1.50 | 7.50 | |
| Ericsson | RRUS 4415 B25 | 15.00 | 13.20 | 5.40 | 46.00 | 160.00 | 1 | Flat | MP-10 | 2.50 | | |
| Ericsson | Radio 4449 B71 B85A | 15.00 | 13.20 | 10.50 | 75.00 | 160.00 | 1 | Flat | MP-10 | 2.50 | | |
| Ericsson | Air6449 B41 | 33.10 | 20.60 | 8.60 | 104.00 | 160.00 | 1 | Flat | MP-11 | 1.50 | 4.00 | |
| RFS | APX16DWV16DWVS-E-A20 | 55.90 | 13.30 | 3.10 | 40.70 | 160.00 | 1 | Flat | MP-12 | 1.50 | 5.50 | |
| Ericsson | KRY 112 489/1 | 11.00 | 6.10 | 3.90 | 15.40 | 160.00 | 2 | Flat | MP-12 | 2.50 | | |
| Ericsson | KRY 112 144/1 | 6.90 | 6.10 | 2.70 | 11.00 | 160.00 | 1 | Flat | MP-12 | 3.50 | | |



Member Forces are Calculated in Accordance with TIA-222-H

| Member Name | Wind Proj. (in) | Length (in) | Shape | θ (°) | Perimeter (in) |
|-------------|-----------------|-------------|-------|--------|----------------|
| CP-1 | 6.000 | 12.41 | Flat | 30.00 | 24.00 |
| CP-1U | 2.000 | 12.41 | Flat | 30.00 | 8.00 |
| CP-2 | 6.000 | 12.41 | Flat | -30.00 | 24.00 |
| CP-2U | 2.000 | 12.41 | Flat | -30.00 | 8.00 |
| CP-3 | 6.000 | 12.41 | Flat | 90.00 | 24.00 |
| CP-3U | 2.000 | 12.41 | Flat | 90.00 | 8.00 |
| FF-HR | 2.375 | 150.00 | Round | 90.00 | 7.46 |
| FFTH | 3.500 | 150.00 | Round | 90.00 | 11.00 |
| GSI-1 | 4.000 | 61.50 | Flat | 30.00 | 16.00 |
| GSI-2 | 4.000 | 61.50 | Flat | -30.00 | 16.00 |
| GSI-3 | 4.000 | 61.50 | Flat | 90.00 | 16.00 |
| GSIP-1A | 2.000 | 49.09 | Flat | -30.00 | 8.00 |
| GSIP-1B | 2.000 | 49.09 | Flat | 90.00 | 8.00 |
| GSIP-2A | 2.000 | 49.09 | Flat | 90.00 | 8.00 |
| GSIP-2B | 2.000 | 49.09 | Flat | 30.00 | 8.00 |
| GSIP-3A | 2.000 | 49.09 | Flat | 30.00 | 8.00 |
| GSIP-3B | 2.000 | 49.09 | Flat | -30.00 | 8.00 |
| MP-1 | 2.375 | 96.00 | Round | | 7.46 |
| MP-2 | 2.375 | 96.00 | Round | | 7.46 |
| MP-3 | 2.375 | 96.00 | Round | | 7.46 |
| MP-4 | 2.375 | 96.00 | Round | | 7.46 |
| MP-5 | 2.375 | 96.00 | Round | | 7.46 |
| MP-6 | 2.375 | 96.00 | Round | | 7.46 |
| MP-7 | 2.375 | 96.00 | Round | | 7.46 |
| MP-8 | 2.375 | 96.00 | Round | | 7.46 |
| MP-9 | 2.375 | 96.00 | Round | | 7.46 |
| MP-10 | 2.375 | 96.00 | Round | | 7.46 |
| MP-11 | 2.375 | 96.00 | Round | | 7.46 |
| MP-12 | 2.375 | 96.00 | Round | | 7.46 |
| SA-1 | 4.000 | 62.25 | Flat | -60.00 | 16.00 |
| SA-2 | 4.000 | 62.25 | Flat | 60.00 | 16.00 |
| SA-3 | 4.000 | 62.25 | Flat | 0.00 | 16.00 |
| SF1-HR | 2.375 | 150.00 | Round | 30.00 | 7.46 |
| SF1-TH | 3.500 | 150.00 | Round | 30.00 | 11.00 |
| SF2-HR | 2.375 | 150.00 | Round | -30.00 | 7.46 |
| SF2-TH | 3.500 | 150.00 | Round | -30.00 | 11.00 |
| K1 | 2.500 | 52.50 | Flat | | 10.00 |
| K2 | 2.500 | 52.50 | Flat | | 10.00 |
| K3 | 2.500 | 52.50 | Flat | | 10.00 |

Moment Bolt Group - Support Arm

Bolt Size: 0.625 in
 # Bolts: 4
 Plate Width: 8 in
 Plate Height: 8 in
 Bolt H Gap: 6 in
 Bolt V Gap: 6 in
 Plate T: 0.75 in
 Slip Member Ø: N/A in
 Bolt Grade: A325N
 $F_{u_{bolt}}$: 120 ksi
 r: 4.2426 in
 J: 72.00 in⁴/in²
 $Bolt_{Area}$: 0.307 in²
 $Bolt_{Area, Net Tensile}$: 0.226 in²
 Pretension: 19 kips
 Slotted Holes: No

| Code Checks Per ANSI/TIA-222-H: | | |
|---------------------------------|-------|------|
| Bolt Capacity = | 38.1% | PASS |
| Plate Capacity = | 42.8% | PASS |

Plate Bending

Horizontal Member height: 4 in
 Horizontal Member width: 4 in

Plate Fy: 35 ksi

$M_y = 5.3905$ k - in $Z_y = 1.125$ in³ $S_y = 0.750$ in³
 $M_z = 15.1755$ k - in $Z_z = 1.125$ in³ $S_z = 0.750$ in³

$\emptyset M_{p_y} (Z)$: 35.438 k - in
 $\emptyset M_{p_y} (S)$: 37.800 k - in
 $\emptyset M_{p_z} (Z)$: 35.438 k - in
 $\emptyset M_{p_z} (S)$: 37.800 k - in

Exhibit E

Mount Analysis

June 19, 2020

Geoff Middlebrooks
American Tower Corporation
3500 Regency Pkwy, Suite 100
Cary, NC 27518
(919) 466-5149



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
Structures@tepgroup.net

Subject: Appurtenance Mount Analysis Report

Carrier Designation: *T-Mobile Reconfiguration*
Site Number: CT11661A
Site Name: Hartford South2/Frnklin Av

ATC Designation: **ATC Site Number:** 302468
ATC Site Name: Petro Lock

Engineering Firm Designation: **TEP Project Number:** 68495.424417

Site Data: 99 Meadow St., Hartford, Hartford County, CT 06114
Latitude 41° 44' 35.51", Longitude -72° 40' 03.00"
149 Foot - Monopole Tower

Table 1 - Mount Analysis Specification

| Ultimate Wind Speed (MPH) | Radial Ice (in.) | Ice Wind Speed (MPH) | Exposure Category | Risk Category | Topo Procedure | K _{zt} |
|---------------------------|------------------|----------------------|-------------------|---------------|----------------|-----------------|
| 125 | 1 1/2 | 50 | C | II | Method 2 | 1.0 |

Based on our analysis we have determined the stress level for the mount structure to be:

LC1: Existing + Proposed + Reserved Loading
Note: See Table 2 for the existing, proposed, and reserved loading

Sufficient Capacity – 70.5%

The analysis has been performed in accordance with the ANSI/TIA-222-H-2017 Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures.

Structural analysis prepared by: Austin E. Wilson, E.I.T.

Respectfully submitted by:

Aaron T. Rucker, P.E..



06/19/2020

Table 2 - Existing, Proposed, and Reserved Antenna Loading Configuration

| Existing/ Proposed/ Reserved | Mount Level (ft) | Ant CL (ft) | Qty | Antenna Model | Mount Type | Owner/ Tenant |
|------------------------------------|------------------------|-------------------|-----|------------------------------|-------------------------|------------------|
| Final Loading Config. | 123 | 123 | 3 | RFS APX16DWV16DWVS-E-A20 | SitePro1 RMQP-496-HK | T-Mobile |
| | | | 3 | Ericsson Air6449 B41 | | |
| | | | 3 | Ericsson AIR32 B66Aa/B2a | | |
| | | | 3 | RFS APXVAARR24_43-UNA20 | | |
| | | | 3 | Ericsson RRUS 4415 B25 | | |
| | | | 3 | Ericsson Radio 4449 B71 B85A | | |
| | | | 5 | Ericsson KRY 112 489/1 | | |
| | | | 3 | Ericsson KRY 112 144/1 | | |

Table 3 - Mount Component Stresses vs. Capacity

| Notes | Component | % Capacity | Pass / Fail |
|-------|------------------|------------|-------------|
| - | Face Horizontal | 18.0 | Pass |
| - | Handrail | 53.2 | Pass |
| - | Internal | 19.5 | Pass |
| - | Mount Pipe | 70.5 | Pass |
| - | Connection Bolts | 38.1 | Pass |
| - | Connection Plate | 42.8 | Pass |

| | |
|---|--------------|
| Structure Rating (max from all components) = | 70.5% |
|---|--------------|

Table 4 - Documents Provided

| Document | Remarks | Source |
|-----------------------------|--|--------|
| Mount Manufacturer Drawings | SitePro1, dated July 14, 2014 Dwg No. RMQP-496-HK | TEP |

RECOMMENDATIONS

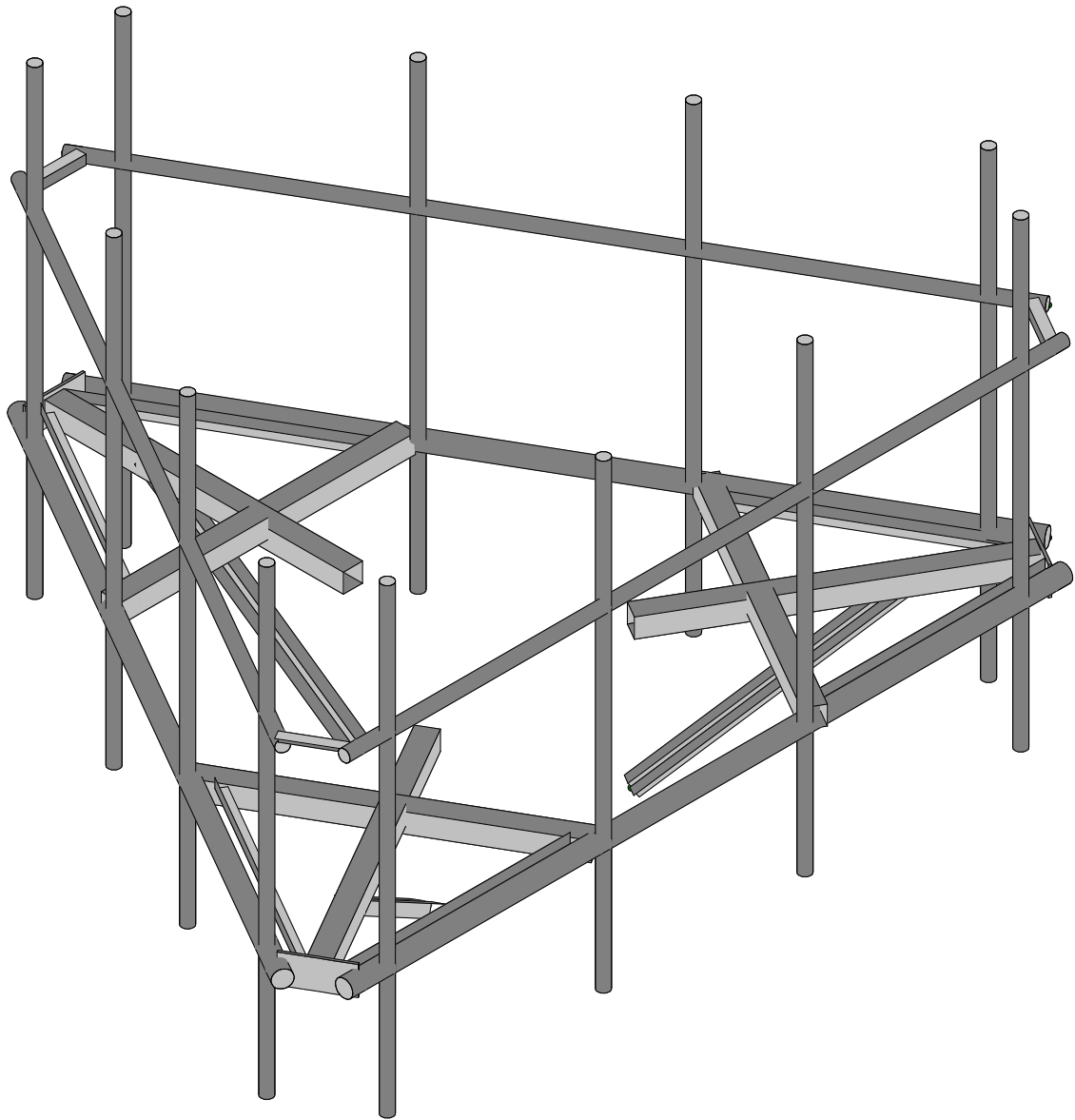
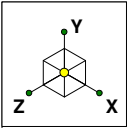
- 1) If the load differs from that described in Table 2 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required at this time.

ANALYSIS ASSUMPTIONS

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 2. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit.
- 4) Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA 3-D output for confirmation on grades used in this analysis.

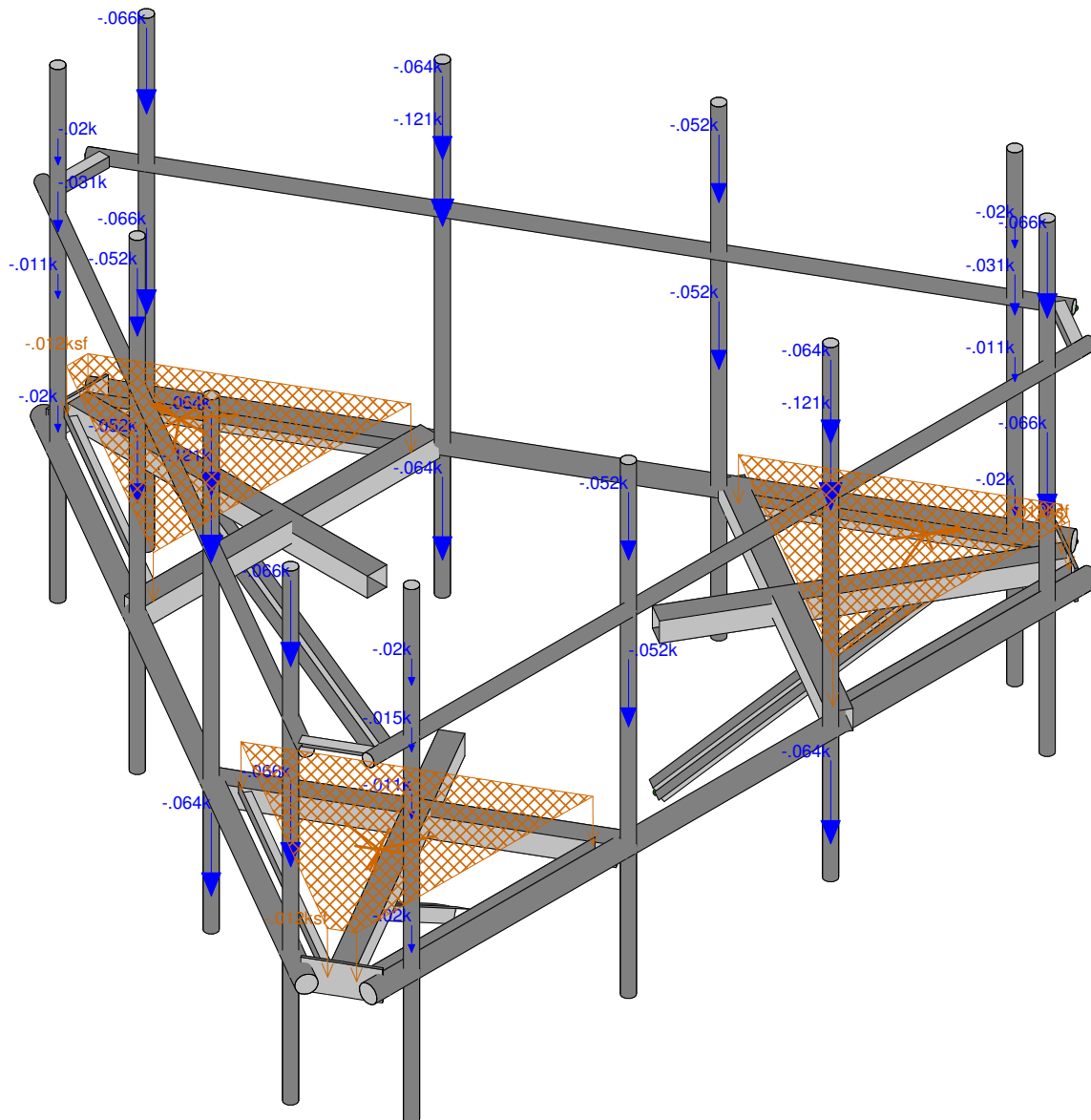
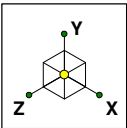
This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the mount.

APPENDIX A
RISA-3D OUTPUT



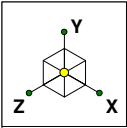
Envelope Only Solution

| | | |
|-----------------------------|-------------------|--------------------------------|
| Tower Engineering Profes... | 302468 Petro Lock | SK - 1 |
| AEW | | June 19, 2020 at 3:44 PM |
| TEP No. 68495.424417 | | 302468_Petro Lock_T-Mobile.r3d |



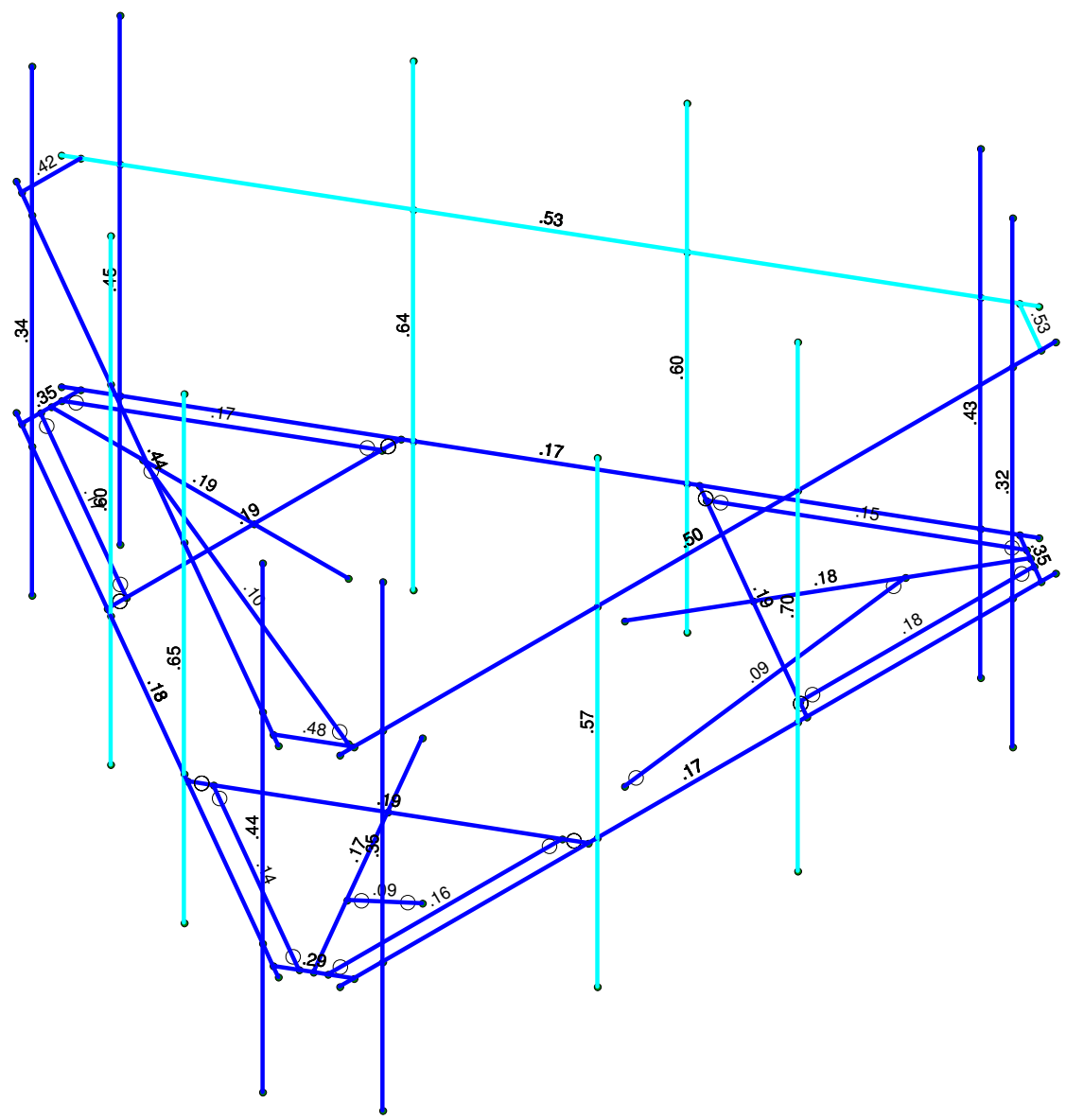
Loads: BLC 1, Dead
Envelope Only Solution

| | | |
|-----------------------------|-------------------|--------------------------------|
| Tower Engineering Profes... | 302468 Petro Lock | SK - 2 |
| AEW | | June 19, 2020 at 3:44 PM |
| TEP No. 68495.424417 | | 302468_Petro Lock_T-Mobile.r3d |



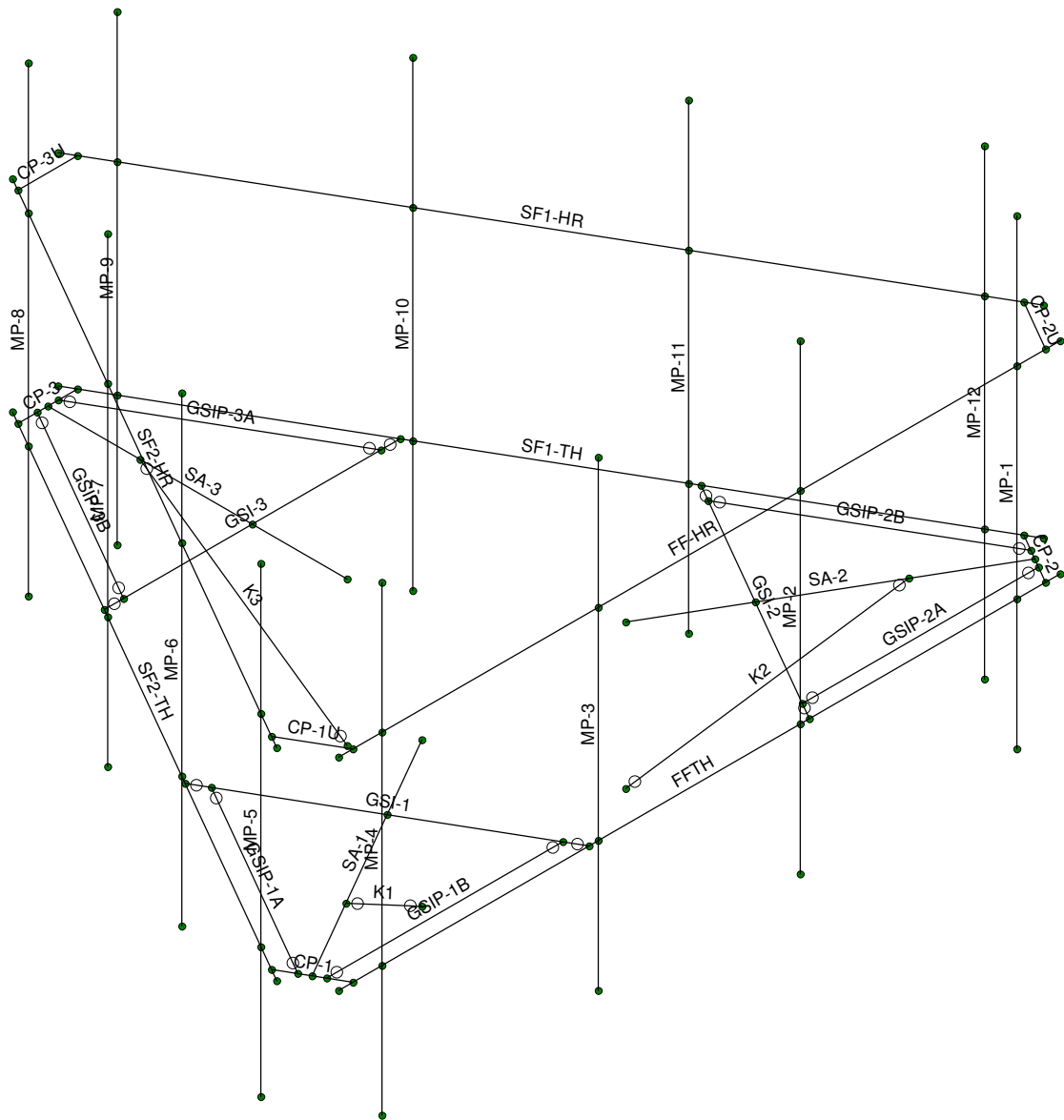
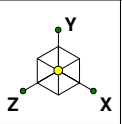
Code Check (Env)

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



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|-----------------------------|-------------------|--------------------------------|
| Tower Engineering Profes... | | SK - 3 |
| AEW | 302468 Petro Lock | June 19, 2020 at 3:45 PM |
| TEP No. 68495.424417 | | 302468_Petro Lock_T-Mobile.r3d |



Envelope Only Solution

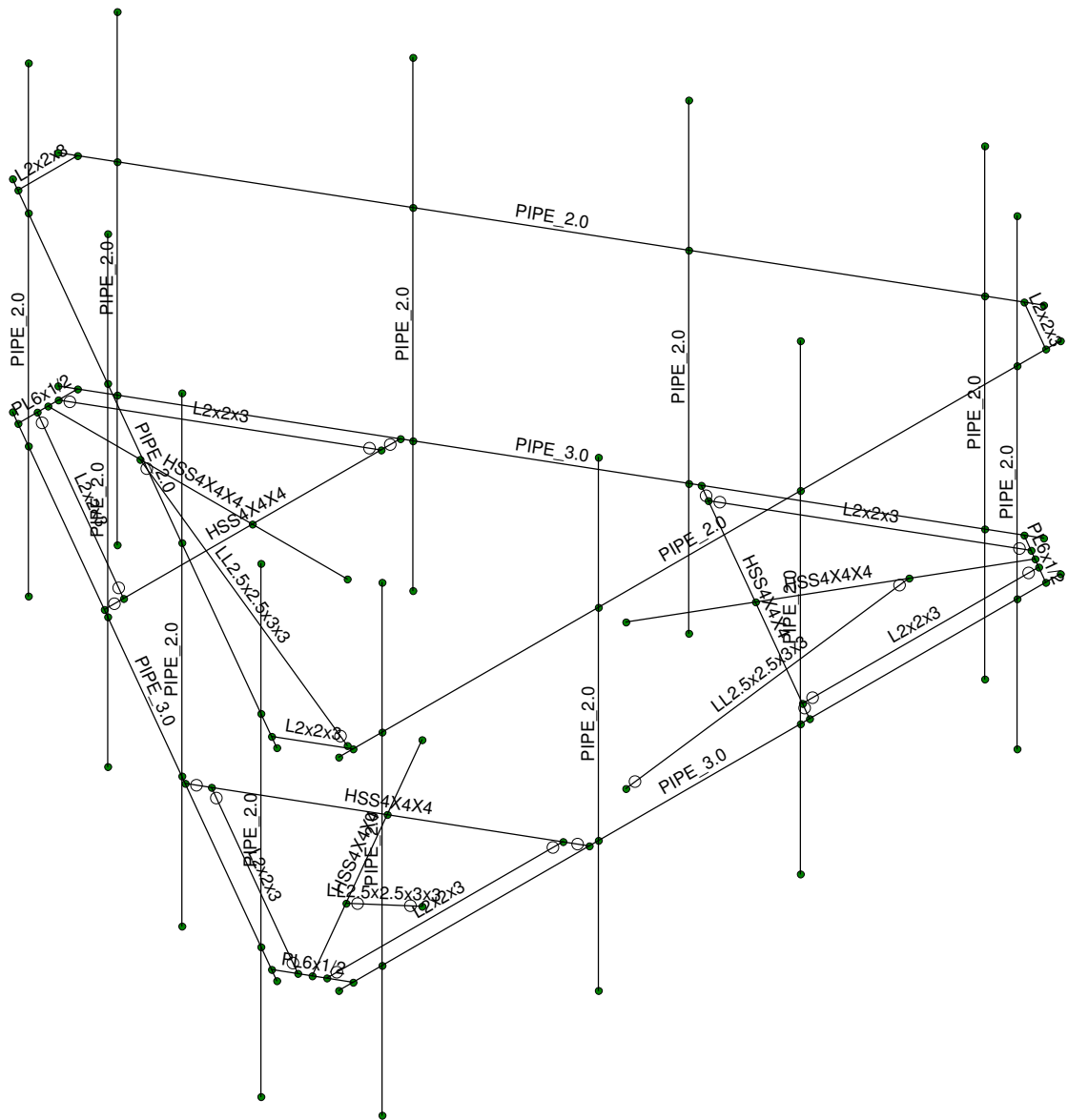
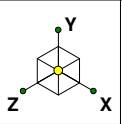
Tower Engineering Profes...
 AEW
 TEP No. 68495.424417

302468 Petro Lock

SK - 4

June 19, 2020 at 3:45 PM

302468_Petro Lock_T-Mobile.r3d



Envelope Only Solution

Tower Engineering Profes...

AEW

TEP No. 68495.424417

302468 Petro Lock

SK - 5

June 19, 2020 at 3:46 PM

302468_Petro Lock_T-Mobile.r3d



(Global) Model Settings

| | |
|--|--------------------|
| Display Sections for Member Calcs | 5 |
| Max Internal Sections for Member Calcs | 97 |
| Include Shear Deformation? | Yes |
| Increase Nailing Capacity for Wind? | Yes |
| Include Warping? | Yes |
| Trans Load Btwn Intersecting Wood Wall? | Yes |
| Area Load Mesh (in^2) | 144 |
| Merge Tolerance (in) | .12 |
| P-Delta Analysis Tolerance | 0.50% |
| Include P-Delta for Walls? | Yes |
| Automatically Iterate Stiffness for Walls? | Yes |
| Max Iterations for Wall Stiffness | 3 |
| Gravity Acceleration (ft/sec^2) | 32.2 |
| Wall Mesh Size (in) | 24 |
| Eigensolution Convergence Tol. (1.E-) | 4 |
| Vertical Axis | Y |
| Global Member Orientation Plane | XZ |
| Static Solver | Sparse Accelerated |
| Dynamic Solver | Accelerated Solver |

| | |
|------------------------|-------------------------|
| Hot Rolled Steel Code | AISC 15th(360-16): LRFD |
| Adjust Stiffness? | No |
| RISACONNECTION CODE | AISC 15th(360-16): LRFD |
| Cold Formed Steel Code | None |
| Wood Code | None |
| Wood Temperature | < 100F |
| Concrete Code | None |
| Masonry Code | None |
| Aluminum Code | None - Building |
| Stainless Steel Code | None |

| | |
|-------------------------------|--------------------|
| Number of Shear Regions | 4 |
| Region Spacing Increment (in) | 4 |
| Biaxial Column Method | Exact Integration |
| Parme Beta Factor (PCA) | .65 |
| Concrete Stress Block | Rectangular |
| Use Cracked Sections? | Yes |
| Use Cracked Sections Slab? | No |
| Bad Framing Warnings? | No |
| Unused Force Warnings? | Yes |
| Min 1 Bar Diam. Spacing? | No |
| Concrete Rebar Set | REBAR_SET_ASTMA615 |
| Min % Steel for Column | 1 |
| Max % Steel for Column | 8 |



(Global) Model Settings, Continued

| | |
|-----------------------------|-------------|
| Seismic Code | ASCE 7-10 |
| Seismic Base Elevation (ft) | Not Entered |
| Add Base Weight? | Yes |
| Ct X | .02 |
| Ct Z | .02 |
| T X (sec) | Not Entered |
| T Z (sec) | Not Entered |
| R X | 3 |
| R Z | 3 |
| Ct Exp. X | .75 |
| Ct Exp. Z | .75 |
| SD1 | 1 |
| SDS | 1 |
| S1 | 1 |
| TL (sec) | 5 |
| Risk Cat | I or II |
| Drift Cat | Other |
| Om Z | 1 |
| Om X | 1 |
| Cd Z | 1 |
| Cd X | 1 |
| Rho Z | 1 |
| Rho X | 1 |

Hot Rolled Steel Properties

| | Label | F [ksj] | G [ksj] | Nu | Therm (/1E..) | Density[k/ft..] | Yield[ksj] | Ry | Fu[ksj] | Rt |
|---|----------------|---------|---------|----|---------------|-----------------|------------|-----|---------|-----|
| 1 | A992 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 2 | A36 Gr.36 | 29000 | 11154 | .3 | .65 | .49 | 36 | 1.5 | 58 | 1.2 |
| 3 | A572 Gr.50 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 4 | A500 Gr.B RND | 29000 | 11154 | .3 | .65 | .527 | 42 | 1.4 | 58 | 1.3 |
| 5 | A500 Gr.B Rect | 29000 | 11154 | .3 | .65 | .527 | 46 | 1.4 | 58 | 1.3 |
| 6 | A53 Gr.B | 29000 | 11154 | .3 | .65 | .49 | 35 | 1.6 | 60 | 1.2 |
| 7 | A1085 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.4 | 65 | 1.3 |

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design R... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|-----------------|---------------|--------|-----------------------|-----------|-------------|---------|-----------|-----------|---------|
| 1 | Face Horizontal | PIPE 3.0 | Beam | Pipe | A53 Gr.B | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 2 | Mount Pipes | PIPE 2.0 | Column | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 3 | Support Arm | HSS4X4X4 | Beam | SquareTube | A53 Gr.B | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 4 | Internal | HSS4X4X4 | Beam | SquareTube | A53 Gr.B | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 5 | Grating Support | L2x2x3 | Beam | Single Angle | A36 Gr.36 | Typical | .722 | .271 | .271 | .009 |
| 6 | Corner Plate | PL6x1/2 | Beam | RECT | A36 Gr.36 | Typical | 3 | .063 | 9 | .237 |
| 7 | Handrail | PIPE 2.0 | Beam | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 8 | Handrail Plate | L2x2x3 | Beam | Single Angle | A36 Gr.36 | Typical | .722 | .271 | .271 | .009 |
| 9 | Kicker | LL2.5x2.5x3x3 | Beam | Double Angle (No Gap) | A36 Gr.36 | Typical | 1.8 | 2.46 | 1.07 | .023 |

Cold Formed Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design Rules | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|-------|-------------|------|-------------|--------------|--------------|---------|-----------|-----------|---------|
| 1 | CF1A | 8CU1.25X057 | Beam | None | A653 SS Gr33 | Typical | .581 | .057 | 4.41 | .00063 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Material Takeoff

| | Material | Size | Pieces | Length[ft] | Weight[K] |
|---|------------------|---------------|--------|------------|-----------|
| 1 | Hot Rolled Steel | | | | |
| 2 | A36 Gr.36 | L2x2x3 | 9 | 27.6 | .068 |
| 3 | A36 Gr.36 | LL2.5x2.5x3x3 | 3 | 13.1 | .08 |
| 4 | A36 Gr.36 | PL6x1/2 | 3 | 3.1 | .032 |
| 5 | A53 Gr.B | HSS4X4X4 | 6 | 30.9 | .355 |
| 6 | A53 Gr.B | PIPE 2.0 | 15 | 133.5 | .463 |
| 7 | A53 Gr.B | PIPE 3.0 | 3 | 37.5 | .264 |
| 8 | Total HR Steel | | 39 | 245.8 | 1.262 |

Joint Boundary Conditions

| | Joint Label | X [k/in] | Y [k/in] | Z [k/in] | X Rot.[k-ft/rad] | Y Rot.[k-ft/rad] | Z Rot.[k-ft/rad] |
|---|-------------|----------|----------|----------|------------------|------------------|------------------|
| 1 | SA1 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 2 | SA2 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 3 | SA3 | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 4 | K1-A | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 5 | K2-A | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |
| 6 | K3-A | Reaction | Reaction | Reaction | Reaction | Reaction | Reaction |

Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate[d...] | Section/Shape | Type | Design List | Material | Design Rul... |
|----|---------|---------|---------|---------|--------------|-----------------|--------|--------------|-----------|---------------|
| 1 | CP-1 | X11 | X12 | | | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 2 | CP-1U | X9 | X10 | | 90 | Handrail Plate | Beam | Single Angle | A36 Gr.36 | Typical |
| 3 | CP-2 | X5 | X3 | | | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 4 | CP-2U | X2 | X1 | | 90 | Handrail Plate | Beam | Single Angle | A36 Gr.36 | Typical |
| 5 | CP-3 | X7 | X8 | | | Corner Plate | Beam | RECT | A36 Gr.36 | Typical |
| 6 | CP-3U | X4 | X6 | | 90 | Handrail Plate | Beam | Single Angle | A36 Gr.36 | Typical |
| 7 | FF-HR | FF-4 | FF-3 | | | Handrail | Beam | Pipe | A53 Gr.B | Typical |
| 8 | FFTH | FF-2 | FF-1 | | | Face Horizontal | Beam | Pipe | A53 Gr.B | Typical |
| 9 | GSI-1 | GSI-1A | GSI-1B | | | Internal | Beam | SquareTube | A53 Gr.B | Typical |
| 10 | GSI-2 | GSI-2A | GSI-2B | | | Internal | Beam | SquareTube | A53 Gr.B | Typical |
| 11 | GSI-3 | GSI-3A | GSI-3B | | | Internal | Beam | SquareTube | A53 Gr.B | Typical |
| 12 | GSIP-1A | GSIP-1 | GSIP-2 | | 270 | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 13 | GSIP-1B | GSIP-3 | GSIP-4 | | 270 | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 14 | GSIP-2A | GSIP-5 | GSIP-6 | | 270 | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 15 | GSIP-2B | GSIP-7 | GSIP-8 | | 270 | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 16 | GSIP-3A | GSIP-9 | GSIP-10 | | 270 | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 17 | GSIP-3B | GSIP-11 | GSIP-12 | | 270 | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 18 | MP-1 | MP-1A | MP-1B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 19 | MP-2 | MP-2A | MP-2B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 20 | MP-3 | MP-3A | MP-3B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 21 | MP-4 | MP-4A | MP-4B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 22 | MP-5 | MP-9A | MP-9B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 23 | MP-6 | MP-10A | MP-10B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 24 | MP-7 | MP-11A | MP-11B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 25 | MP-8 | MP-12A | MP-12B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 26 | MP-9 | MP-17A | MP-17B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 27 | MP-10 | MP-18A | MP-18B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 28 | MP-11 | MP-19A | MP-19B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 29 | MP-12 | MP-20A | MP-20B | | | Mount Pipes | Column | Pipe | A53 Gr.B | Typical |
| 30 | SA-1 | SA1 | SA1-B | | | Support Arm | Beam | SquareTube | A53 Gr.B | Typical |
| 31 | SA-2 | SA2 | SA2-B | | | Support Arm | Beam | SquareTube | A53 Gr.B | Typical |
| 32 | SA-3 | SA3 | SA-3B | | | Support Arm | Beam | SquareTube | A53 Gr.B | Typical |
| 33 | SF1-HR | SF1-4 | SF1-3 | | | Handrail | Beam | Pipe | A53 Gr.B | Typical |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate[d...] | Section/Shape | Type | Design List | Material | Design Rul... |
|----|--------|---------|---------|---------|--------------|-----------------|------|----------------|-----------|---------------|
| 34 | SF1-TH | SF1-2 | SF1-1 | | | Face Horizontal | Beam | Pipe | A53 Gr.B | Typical |
| 35 | SF2-HR | SF2-4 | SF2-3 | | | Handrail | Beam | Pipe | A53 Gr.B | Typical |
| 36 | SF2-TH | SF2-2 | SF2-1 | | | Face Horizontal | Beam | Pipe | A53 Gr.B | Typical |
| 37 | K1 | K1-A | K1-B | | | Kicker | Beam | Double Angl... | A36 Gr.36 | Typical |
| 38 | K2 | K2-A | K2-B | | | Kicker | Beam | Double Angl... | A36 Gr.36 | Typical |
| 39 | K3 | K3-A | K3-B | | | Kicker | Beam | Double Angl... | A36 Gr.36 | Typical |

Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical Defl.R... | Analysis... | Inactive | Seismic Design Rules |
|----|---------|-----------|-----------|--------------|--------------|----------|--------------------|-------------|----------|----------------------|
| 1 | CP-1 | | | | | | Yes | | | None |
| 2 | CP-1U | | | | | | Yes | | | None |
| 3 | CP-2 | | | | | | Yes | | | None |
| 4 | CP-2U | | | | | | Yes | | | None |
| 5 | CP-3 | | | | | | Yes | | | None |
| 6 | CP-3U | | | | | | Yes | | | None |
| 7 | FF-HR | | | | | | Yes | | | None |
| 8 | FFTH | | | | | | Yes | | | None |
| 9 | GSI-1 | BenPIN | BenPIN | | | | Yes | | | None |
| 10 | GSI-2 | BenPIN | BenPIN | | | | Yes | | | None |
| 11 | GSI-3 | BenPIN | BenPIN | | | | Yes | | | None |
| 12 | GSIP-1A | BenPIN | BenPIN | | | | Yes | | | None |
| 13 | GSIP-1B | BenPIN | BenPIN | | | | Yes | | | None |
| 14 | GSIP-2A | BenPIN | BenPIN | | | | Yes | | | None |
| 15 | GSIP-2B | BenPIN | BenPIN | | | | Yes | | | None |
| 16 | GSIP-3A | BenPIN | BenPIN | | | | Yes | | | None |
| 17 | GSIP-3B | BenPIN | BenPIN | | | | Yes | | | None |
| 18 | MP-1 | | | | | | Yes | ** NA ** | | None |
| 19 | MP-2 | | | | | | Yes | ** NA ** | | None |
| 20 | MP-3 | | | | | | Yes | ** NA ** | | None |
| 21 | MP-4 | | | | | | Yes | ** NA ** | | None |
| 22 | MP-5 | | | | | | Yes | ** NA ** | | None |
| 23 | MP-6 | | | | | | Yes | ** NA ** | | None |
| 24 | MP-7 | | | | | | Yes | ** NA ** | | None |
| 25 | MP-8 | | | | | | Yes | ** NA ** | | None |
| 26 | MP-9 | | | | | | Yes | ** NA ** | | None |
| 27 | MP-10 | | | | | | Yes | ** NA ** | | None |
| 28 | MP-11 | | | | | | Yes | ** NA ** | | None |
| 29 | MP-12 | | | | | | Yes | ** NA ** | | None |
| 30 | SA-1 | | | | | | Yes | | | None |
| 31 | SA-2 | | | | | | Yes | | | None |
| 32 | SA-3 | | | | | | Yes | | | None |
| 33 | SF1-HR | | | | | | Yes | | | None |
| 34 | SF1-TH | | | | | | Yes | | | None |
| 35 | SF2-HR | | | | | | Yes | | | None |
| 36 | SF2-TH | | | | | | Yes | | | None |
| 37 | K1 | BenPIN | BenPIN | | | | Yes | | | None |
| 38 | K2 | BenPIN | BenPIN | | | | Yes | | | None |
| 39 | K3 | BenPIN | BenPIN | | | | Yes | | | None |

Hot Rolled Steel Design Parameters

| | Label | Shape | Length[ft] | Lbyz[ft] | Lbzz[ft] | Lcomp top[...] | Lcomp bot[...] | L-torq... | Kyy | Kzz | Cb | Function |
|---|-------|----------------|------------|----------|----------|----------------|----------------|-----------|-----|-----|----|----------|
| 1 | CP-1 | Corner Plate | 1.034 | .5 | .5 | | | | 1 | 1 | | Lateral |
| 2 | CP-1U | Handrail Pl... | 1.034 | | | | | | 1 | 1 | | Lateral |
| 3 | CP-2 | Corner Plate | 1.034 | .5 | .5 | | | | 1 | 1 | | Lateral |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Hot Rolled Steel Design Parameters (Continued)

| Label | Shape | Length[ft] | Lbwy[ft] | Lbzz[ft] | Lcomp top | Lcomp bot | L-torg | Kyy | Kzz | Cb | Function |
|-------|---------|----------------|----------|----------|-----------|-----------|--------|-----|-----|----|----------|
| 4 | CP-2U | Handrail Pl... | 1.034 | | | | | 1 | 1 | | Lateral |
| 5 | CP-3 | Corner Plate | 1.034 | .5 | .5 | | | 1 | 1 | | Lateral |
| 6 | CP-3U | Handrail Pl... | 1.034 | | | | | 1 | 1 | | Lateral |
| 7 | FF-HR | Handrail | 12.5 | | | | | 2.1 | 2.1 | | Lateral |
| 8 | FFTH | Face Horiz... | 12.5 | 4.09 | | | | 2.1 | 2.1 | | Lateral |
| 9 | GSI-1 | Internal | 5.125 | 2.5 | 2.5 | | | 1 | 1 | | Lateral |
| 10 | GSI-2 | Internal | 5.125 | 2.5 | 2.5 | | | 1 | 1 | | Lateral |
| 11 | GSI-3 | Internal | 5.125 | 2.5 | 2.5 | | | 1 | 1 | | Lateral |
| 12 | GSIP-1A | Grating Su... | 4.091 | | | | | 1 | 1 | | Lateral |
| 13 | GSIP-1B | Grating Su... | 4.091 | | | | | 1 | 1 | | Lateral |
| 14 | GSIP-2A | Grating Su... | 4.091 | | | | | 1 | 1 | | Lateral |
| 15 | GSIP-2B | Grating Su... | 4.091 | | | | | 1 | 1 | | Lateral |
| 16 | GSIP-3A | Grating Su... | 4.091 | | | | | 1 | 1 | | Lateral |
| 17 | GSIP-3B | Grating Su... | 4.091 | | | | | 1 | 1 | | Lateral |
| 18 | MP-1 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 19 | MP-2 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 20 | MP-3 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 21 | MP-4 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 22 | MP-5 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 23 | MP-6 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 24 | MP-7 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 25 | MP-8 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 26 | MP-9 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 27 | MP-10 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 28 | MP-11 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 29 | MP-12 | Mount Pipes | 8 | Segment | Segment | | | 2.1 | 2.1 | | Lateral |
| 30 | SA-1 | Support Arm | 5.187 | 3.54 | | | | 1 | 1 | | Lateral |
| 31 | SA-2 | Support Arm | 5.187 | 3.54 | | | | 1 | 1 | | Lateral |
| 32 | SA-3 | Support Arm | 5.187 | 3.54 | | | | 1 | 1 | | Lateral |
| 33 | SF1-HR | Handrail | 12.5 | | | | | 2.1 | 2.1 | | Lateral |
| 34 | SF1-TH | Face Horiz... | 12.5 | 4.09 | | | | 2.1 | 2.1 | | Lateral |
| 35 | SF2-HR | Handrail | 12.5 | | | | | 2.1 | 2.1 | | Lateral |
| 36 | SF2-TH | Face Horiz... | 12.5 | 4.09 | | | | 2.1 | 2.1 | | Lateral |
| 37 | K1 | Kicker | 4.375 | | | | | 1 | 1 | | Lateral |
| 38 | K2 | Kicker | 4.375 | | | | | 1 | 1 | | Lateral |
| 39 | K3 | Kicker | 4.375 | | | | | 1 | 1 | | Lateral |

Cold Formed Steel Design Parameters

| Label | Shape | Length | Lbwy[ft] | Lbzz[ft] | Lcomp to | Lcomp b | Kyy | Kzz | Cm-yy | Cm-zz | Cb | R | y sway | z sway |
|----------------------|-------|--------|----------|----------|----------|---------|-----|-----|-------|-------|----|---|--------|--------|
| No Data to Print ... | | | | | | | | | | | | | | |

Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|-------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 1 | Dead | None | | -1 | | | 36 | 3 | |
| 2 | 0 Wind - No Ice | None | | | | | 36 | 39 | |
| 3 | 30 Wind - No Ice | None | | | | | 72 | 78 | |
| 4 | 45 Wind - No Ice | None | | | | | 72 | 78 | |
| 5 | 60 Wind - No Ice | None | | | | | 72 | 78 | |
| 6 | 90 Wind - No Ice | None | | | | | 36 | 39 | |
| 7 | 120 Wind - No Ice | None | | | | | 72 | 78 | |
| 8 | 135 Wind - No Ice | None | | | | | 72 | 78 | |
| 9 | 150 Wind - No Ice | None | | | | | 72 | 78 | |
| 10 | 180 Wind - No Ice | None | | | | | 36 | 39 | |
| 11 | 210 Wind - No Ice | None | | | | | 72 | 78 | |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|----------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 12 | 225 Wind - No Ice | None | | | | | 72 | 78 | |
| 13 | 240 Wind - No Ice | None | | | | | 72 | 78 | |
| 14 | 270 Wind - No Ice | None | | | | | 36 | 39 | |
| 15 | 300 Wind - No Ice | None | | | | | 72 | 78 | |
| 16 | 315 Wind - No Ice | None | | | | | 72 | 78 | |
| 17 | 330 Wind - No Ice | None | | | | | 72 | 78 | |
| 18 | Ice Weight | None | | | | | 36 | 39 | |
| 19 | 0 Wind - Ice | None | | | | | 36 | 39 | |
| 20 | 30 Wind - Ice | None | | | | | 72 | 78 | |
| 21 | 45 Wind - Ice | None | | | | | 72 | 78 | |
| 22 | 60 Wind - Ice | None | | | | | 72 | 78 | |
| 23 | 90 Wind - Ice | None | | | | | 36 | 39 | |
| 24 | 120 Wind - Ice | None | | | | | 72 | 78 | |
| 25 | 135 Wind - Ice | None | | | | | 72 | 78 | |
| 26 | 150 Wind - Ice | None | | | | | 72 | 78 | |
| 27 | 180 Wind - Ice | None | | | | | 36 | 39 | |
| 28 | 210 Wind - Ice | None | | | | | 72 | 78 | |
| 29 | 225 Wind - Ice | None | | | | | 72 | 78 | |
| 30 | 240 Wind - Ice | None | | | | | 72 | 78 | |
| 31 | 270 Wind - Ice | None | | | | | 36 | 39 | |
| 32 | 300 Wind - Ice | None | | | | | 72 | 78 | |
| 33 | 315 Wind - Ice | None | | | | | 72 | 78 | |
| 34 | 330 Wind - Ice | None | | | | | 72 | 78 | |
| 35 | Lm | None | | | | 1 | | | |
| 36 | Lv | None | | | | 1 | | | |
| 37 | Seismic Load X | ELX | -1 | | | | 36 | | |
| 38 | Seismic Load Z | ELZ | | | -1 | | 36 | | |
| 39 | BLC 1 Transient Area | None | | | | | | 51 | |

Load Combinations

| Description | Solve | P | S | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... | BLC Fac... |
|-------------|------------------|-----|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 | 1,4D | Yes | Y | 1 | 1,4 | | | | | | | | |
| 2 | 0.9D+1.0 0-... | Yes | Y | 1 | .9 | 2 | 1 | | | | | | |
| 3 | 0.9D+1.0 30-... | Yes | Y | 1 | .9 | 3 | 1 | | | | | | |
| 4 | 0.9D+1.0 45-... | Yes | Y | 1 | .9 | 4 | 1 | | | | | | |
| 5 | 0.9D+1.0 60-... | Yes | Y | 1 | .9 | 5 | 1 | | | | | | |
| 6 | 0.9D+1.0 90-... | Yes | Y | 1 | .9 | 6 | 1 | | | | | | |
| 7 | 0.9D+1.0 120-... | Yes | Y | 1 | .9 | 7 | 1 | | | | | | |
| 8 | 0.9D+1.0 135-... | Yes | Y | 1 | .9 | 8 | 1 | | | | | | |
| 9 | 0.9D+1.0 150-... | Yes | Y | 1 | .9 | 9 | 1 | | | | | | |
| 10 | 0.9D+1.0 180-... | Yes | Y | 1 | .9 | 10 | 1 | | | | | | |
| 11 | 0.9D+1.0 210-... | Yes | Y | 1 | .9 | 11 | 1 | | | | | | |
| 12 | 0.9D+1.0 225-... | Yes | Y | 1 | .9 | 12 | 1 | | | | | | |
| 13 | 0.9D+1.0 240-... | Yes | Y | 1 | .9 | 13 | 1 | | | | | | |
| 14 | 0.9D+1.0 270-... | Yes | Y | 1 | .9 | 14 | 1 | | | | | | |
| 15 | 0.9D+1.0 300-... | Yes | Y | 1 | .9 | 15 | 1 | | | | | | |
| 16 | 0.9D+1.0 315-... | Yes | Y | 1 | .9 | 16 | 1 | | | | | | |
| 17 | 0.9D+1.0 330-... | Yes | Y | 1 | .9 | 17 | 1 | | | | | | |
| 18 | 1.2D+1.0 0-... | Yes | Y | 1 | 1,2 | 2 | 1 | | | | | | |
| 19 | 1.2D+1.0 30-... | Yes | Y | 1 | 1,2 | 3 | 1 | | | | | | |
| 20 | 1.2D+1.0 45-... | Yes | Y | 1 | 1,2 | 4 | 1 | | | | | | |
| 21 | 1.2D+1.0 60-... | Yes | Y | 1 | 1,2 | 5 | 1 | | | | | | |
| 22 | 1.2D+1.0 90-... | Yes | Y | 1 | 1,2 | 6 | 1 | | | | | | |
| 23 | 1.2D+1.0 120-... | Yes | Y | 1 | 1,2 | 7 | 1 | | | | | | |
| 24 | 1.2D+1.0 135-... | Yes | Y | 1 | 1,2 | 8 | 1 | | | | | | |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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 Checked By: HBC

Load Combinations (Continued)

| Description | Solve | P... | S... | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. |
|--------------------|-------|------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 25 1.2D+1.0 150... | Yes | Y | 1 | 1.2 | 9 | 1 | | | | | | | |
| 26 1.2D+1.0 180... | Yes | Y | 1 | 1.2 | 10 | 1 | | | | | | | |
| 27 1.2D+1.0 210... | Yes | Y | 1 | 1.2 | 11 | 1 | | | | | | | |
| 28 1.2D+1.0 225... | Yes | Y | 1 | 1.2 | 12 | 1 | | | | | | | |
| 29 1.2D+1.0 240... | Yes | Y | 1 | 1.2 | 13 | 1 | | | | | | | |
| 30 1.2D+1.0 270... | Yes | Y | 1 | 1.2 | 14 | 1 | | | | | | | |
| 31 1.2D+1.0 300... | Yes | Y | 1 | 1.2 | 15 | 1 | | | | | | | |
| 32 1.2D+1.0 315... | Yes | Y | 1 | 1.2 | 16 | 1 | | | | | | | |
| 33 1.2D+1.0 330... | Yes | Y | 1 | 1.2 | 17 | 1 | | | | | | | |
| 34 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 19 | 1 | | | | | |
| 35 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 20 | 1 | | | | | |
| 36 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 21 | 1 | | | | | |
| 37 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 22 | 1 | | | | | |
| 38 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 23 | 1 | | | | | |
| 39 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 24 | 1 | | | | | |
| 40 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 25 | 1 | | | | | |
| 41 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 26 | 1 | | | | | |
| 42 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 27 | 1 | | | | | |
| 43 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 28 | 1 | | | | | |
| 44 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 29 | 1 | | | | | |
| 45 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 30 | 1 | | | | | |
| 46 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 31 | 1 | | | | | |
| 47 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 32 | 1 | | | | | |
| 48 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 33 | 1 | | | | | |
| 49 1.2D+1.0Di+1... | Yes | Y | 1 | 1.2 | 18 | 1 | 34 | 1 | | | | | |
| 50 1.2D+1.5Lv | Yes | Y | 36 | 1.5 | 1 | 1.2 | | | | | | | |
| 51 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 2 | .058 | 35 | 1.5 | | | | | |
| 52 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 3 | .058 | 35 | 1.5 | | | | | |
| 53 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 4 | .058 | 35 | 1.5 | | | | | |
| 54 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 5 | .058 | 35 | 1.5 | | | | | |
| 55 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 6 | .058 | 35 | 1.5 | | | | | |
| 56 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 7 | .058 | 35 | 1.5 | | | | | |
| 57 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 8 | .058 | 35 | 1.5 | | | | | |
| 58 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 9 | .058 | 35 | 1.5 | | | | | |
| 59 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 10 | .058 | 35 | 1.5 | | | | | |
| 60 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 11 | .058 | 35 | 1.5 | | | | | |
| 61 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 12 | .058 | 35 | 1.5 | | | | | |
| 62 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 13 | .058 | 35 | 1.5 | | | | | |
| 63 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 14 | .058 | 35 | 1.5 | | | | | |
| 64 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 15 | .058 | 35 | 1.5 | | | | | |
| 65 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 16 | .058 | 35 | 1.5 | | | | | |
| 66 1.2D+1.5Lm+ | Yes | Y | 1 | 1.2 | 17 | .058 | 35 | 1.5 | | | | | |
| 67 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .07 | 0 | | | | | | |
| 68 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .06 | ELZ | .035 | | | | | |
| 69 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .049 | ELZ | .049 | | | | | |
| 70 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .035 | ELZ | .06 | | | | | |
| 71 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | 0 | | ELZ | .07 | | | | | |
| 72 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.035 | ELZ | .06 | | | | | |
| 73 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.049 | ELZ | .049 | | | | | |
| 74 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.06 | ELZ | .035 | | | | | |
| 75 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.07 | 0 | | | | | | |
| 76 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.06 | ELZ | -.035 | | | | | |
| 77 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.049 | ELZ | -.049 | | | | | |
| 78 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | -.035 | ELZ | -.06 | | | | | |
| 79 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | 0 | | ELZ | -.07 | | | | | |
| 80 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .035 | ELZ | -.06 | | | | | |
| 81 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .049 | ELZ | -.049 | | | | | |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Load Combinations (Continued)

| Description | Solve | P... | S... | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. | BLC Fac. |
|---------------------|-------|------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 82 (1.2+0.2Sds)... | Yes | Y | 1 | 1.228 | ELX | .06 | ELZ | -.035 | | | | | |
| 83 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .07 | 0 | | | | | | |
| 84 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .06 | ELZ | .035 | | | | | |
| 85 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .049 | ELZ | .049 | | | | | |
| 86 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .035 | ELZ | .06 | | | | | |
| 87 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | 0 | | ELZ | .07 | | | | | |
| 88 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.035 | ELZ | .06 | | | | | |
| 89 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.049 | ELZ | .049 | | | | | |
| 90 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.06 | ELZ | .035 | | | | | |
| 91 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.07 | 0 | | | | | | |
| 92 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.06 | ELZ | -.035 | | | | | |
| 93 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.049 | ELZ | -.049 | | | | | |
| 94 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | -.035 | ELZ | -.06 | | | | | |
| 95 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | 0 | | ELZ | -.07 | | | | | |
| 96 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .035 | ELZ | -.06 | | | | | |
| 97 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .049 | ELZ | -.049 | | | | | |
| 98 (0.9+0.2Sds)*... | Yes | Y | 1 | 1.872 | ELX | .06 | ELZ | -.035 | | | | | |

Joint Loads and Enforced Displacements (BLC 35 : Lm)

| Joint Label | L,D,M | Direction | Magnitude(k,k-ft), (in,rad), (k's*2/ft.. |
|-------------|-------|-----------|--|
| 1 | X83 | L | Y -5 |

Joint Loads and Enforced Displacements (BLC 36 : Lv)

| Joint Label | L,D,M | Direction | Magnitude(k,k-ft), (in,rad), (k's*2/ft.. |
|-------------|-------|-----------|--|
| 1 | FF-2 | L | Y -.25 |

Member Point Loads (BLC 1 : Dead)

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) | |
|--------------|-----------|-------------------|----------------|-----|
| 1 | MP-1 | Y | -0.66 | 1.5 |
| 2 | MP-2 | Y | -0.64 | 1.5 |
| 3 | MP-2 | Y | -0.46 | 2.5 |
| 4 | MP-2 | Y | -0.75 | 2.5 |
| 5 | MP-3 | Y | -0.52 | 1.5 |
| 6 | MP-4 | Y | -.02 | 1.5 |
| 7 | MP-4 | Y | -.015 | 2.5 |
| 8 | MP-4 | Y | -.011 | 3.5 |
| 9 | MP-5 | Y | -.066 | 1.5 |
| 10 | MP-6 | Y | -.064 | 1.5 |
| 11 | MP-6 | Y | -.046 | 2.5 |
| 12 | MP-6 | Y | -.075 | 2.5 |
| 13 | MP-7 | Y | -.052 | 1.5 |
| 14 | MP-8 | Y | -.02 | 1.5 |
| 15 | MP-8 | Y | -.031 | 2.5 |
| 16 | MP-8 | Y | -.011 | 3.5 |
| 17 | MP-9 | Y | -.066 | 1.5 |
| 18 | MP-10 | Y | -.064 | 1.5 |
| 19 | MP-10 | Y | -.046 | 2.5 |
| 20 | MP-10 | Y | -.075 | 2.5 |
| 21 | MP-11 | Y | -.052 | 1.5 |
| 22 | MP-12 | Y | -.02 | 1.5 |
| 23 | MP-12 | Y | -.031 | 2.5 |
| 24 | MP-12 | Y | -.011 | 3.5 |
| 25 | MP-1 | Y | -.066 | 4.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 1 : Dead) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 26 | MP-2 | Y | -064 | 7.5 |
| 27 | MP-3 | Y | -052 | 4 |
| 28 | MP-4 | Y | -02 | 5.5 |
| 29 | MP-5 | Y | -066 | 4.5 |
| 30 | MP-6 | Y | -064 | 7.5 |
| 31 | MP-7 | Y | -052 | 4 |
| 32 | MP-8 | Y | -02 | 5.5 |
| 33 | MP-9 | Y | -066 | 4.5 |
| 34 | MP-10 | Y | -064 | 7.5 |
| 35 | MP-11 | Y | -052 | 4 |
| 36 | MP-12 | Y | -02 | 5.5 |

Member Point Loads (BLC 2 : 0 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -14 | 1.5 |
| 2 | MP-2 | X | -434 | 1.5 |
| 3 | MP-2 | X | -071 | 2.5 |
| 4 | MP-2 | X | -071 | 2.5 |
| 5 | MP-3 | X | -122 | 1.5 |
| 6 | MP-4 | X | -141 | 1.5 |
| 7 | MP-4 | X | -024 | 2.5 |
| 8 | MP-4 | X | -015 | 3.5 |
| 9 | MP-5 | X | -135 | 1.5 |
| 10 | MP-6 | X | -406 | 1.5 |
| 11 | MP-6 | X | -066 | 2.5 |
| 12 | MP-6 | X | -069 | 2.5 |
| 13 | MP-7 | X | -114 | 1.5 |
| 14 | MP-8 | X | -13 | 1.5 |
| 15 | MP-8 | X | -046 | 2.5 |
| 16 | MP-8 | X | -014 | 3.5 |
| 17 | MP-9 | X | -135 | 1.5 |
| 18 | MP-10 | X | -406 | 1.5 |
| 19 | MP-10 | X | -066 | 2.5 |
| 20 | MP-10 | X | -069 | 2.5 |
| 21 | MP-11 | X | -114 | 1.5 |
| 22 | MP-12 | X | -13 | 1.5 |
| 23 | MP-12 | X | -046 | 2.5 |
| 24 | MP-12 | X | -014 | 3.5 |
| 25 | MP-1 | X | -14 | 4.5 |
| 26 | MP-2 | X | -434 | 7.5 |
| 27 | MP-3 | X | -122 | 4 |
| 28 | MP-4 | X | -141 | 5.5 |
| 29 | MP-5 | X | -135 | 4.5 |
| 30 | MP-6 | X | -406 | 7.5 |
| 31 | MP-7 | X | -114 | 4 |
| 32 | MP-8 | X | -13 | 5.5 |
| 33 | MP-9 | X | -135 | 4.5 |
| 34 | MP-10 | X | -406 | 7.5 |
| 35 | MP-11 | X | -114 | 4 |
| 36 | MP-12 | X | -13 | 5.5 |

Member Point Loads (BLC 3 : 30 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|---|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -113 | 1.5 |
| 2 | MP-2 | X | -323 | 1.5 |
| 3 | MP-2 | X | -052 | 2.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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 Checked By: HBC

Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 4 | MP-2 | X | -058 | 2.5 |
| 5 | MP-3 | X | -091 | 1.5 |
| 6 | MP-4 | X | -102 | 1.5 |
| 7 | MP-4 | X | -019 | 2.5 |
| 8 | MP-4 | X | -011 | 3.5 |
| 9 | MP-5 | X | -101 | 1.5 |
| 10 | MP-6 | X | -252 | 1.5 |
| 11 | MP-6 | X | -04 | 2.5 |
| 12 | MP-6 | X | -054 | 2.5 |
| 13 | MP-7 | X | -071 | 1.5 |
| 14 | MP-8 | X | -074 | 1.5 |
| 15 | MP-8 | X | -033 | 2.5 |
| 16 | MP-8 | X | -009 | 3.5 |
| 17 | MP-9 | X | -101 | 1.5 |
| 18 | MP-10 | X | -252 | 1.5 |
| 19 | MP-10 | X | -04 | 2.5 |
| 20 | MP-10 | X | -054 | 2.5 |
| 21 | MP-11 | X | -071 | 1.5 |
| 22 | MP-12 | X | -074 | 1.5 |
| 23 | MP-12 | X | -033 | 2.5 |
| 24 | MP-12 | X | -009 | 3.5 |
| 25 | MP-1 | X | -113 | 4.5 |
| 26 | MP-2 | X | -323 | 7.5 |
| 27 | MP-3 | X | -091 | 4 |
| 28 | MP-4 | X | -102 | 5.5 |
| 29 | MP-5 | X | -101 | 4.5 |
| 30 | MP-6 | X | -252 | 7.5 |
| 31 | MP-7 | X | -071 | 4 |
| 32 | MP-8 | X | -074 | 5.5 |
| 33 | MP-9 | X | -101 | 4.5 |
| 34 | MP-10 | X | -252 | 7.5 |
| 35 | MP-11 | X | -071 | 4 |
| 36 | MP-12 | X | -074 | 5.5 |
| 37 | MP-1 | Z | -065 | 1.5 |
| 38 | MP-2 | Z | -187 | 1.5 |
| 39 | MP-2 | Z | -03 | 2.5 |
| 40 | MP-2 | Z | -034 | 2.5 |
| 41 | MP-3 | Z | -052 | 1.5 |
| 42 | MP-4 | Z | -059 | 1.5 |
| 43 | MP-4 | Z | -011 | 2.5 |
| 44 | MP-4 | Z | -006 | 3.5 |
| 45 | MP-5 | Z | -059 | 1.5 |
| 46 | MP-6 | Z | -146 | 1.5 |
| 47 | MP-6 | Z | -023 | 2.5 |
| 48 | MP-6 | Z | -031 | 2.5 |
| 49 | MP-7 | Z | -041 | 1.5 |
| 50 | MP-8 | Z | -043 | 1.5 |
| 51 | MP-8 | Z | -019 | 2.5 |
| 52 | MP-8 | Z | -005 | 3.5 |
| 53 | MP-9 | Z | -059 | 1.5 |
| 54 | MP-10 | Z | -146 | 1.5 |
| 55 | MP-10 | Z | -023 | 2.5 |
| 56 | MP-10 | Z | -031 | 2.5 |
| 57 | MP-11 | Z | -041 | 1.5 |
| 58 | MP-12 | Z | -043 | 1.5 |
| 59 | MP-12 | Z | -019 | 2.5 |
| 60 | MP-12 | Z | -005 | 3.5 |



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 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 61 | MP-1 | Z | -0.065 | 4.5 |
| 62 | MP-2 | Z | -0.187 | 7.5 |
| 63 | MP-3 | Z | -0.052 | 4 |
| 64 | MP-4 | Z | -0.059 | 5.5 |
| 65 | MP-5 | Z | -0.059 | 4.5 |
| 66 | MP-6 | Z | -0.146 | 7.5 |
| 67 | MP-7 | Z | -0.041 | 4 |
| 68 | MP-8 | Z | -0.043 | 5.5 |
| 69 | MP-9 | Z | -0.059 | 4.5 |
| 70 | MP-10 | Z | -0.146 | 7.5 |
| 71 | MP-11 | Z | -0.041 | 4 |
| 72 | MP-12 | Z | -0.043 | 5.5 |

Member Point Loads (BLC 4 : 45 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.085 | 1.5 |
| 2 | MP-2 | X | -0.221 | 1.5 |
| 3 | MP-2 | X | -0.035 | 2.5 |
| 4 | MP-2 | X | -0.045 | 2.5 |
| 5 | MP-3 | X | -0.062 | 1.5 |
| 6 | MP-4 | X | -0.066 | 1.5 |
| 7 | MP-4 | X | -0.014 | 2.5 |
| 8 | MP-4 | X | -0.008 | 3.5 |
| 9 | MP-5 | X | -0.076 | 1.5 |
| 10 | MP-6 | X | -0.166 | 1.5 |
| 11 | MP-6 | X | -0.026 | 2.5 |
| 12 | MP-6 | X | -0.042 | 2.5 |
| 13 | MP-7 | X | -0.046 | 1.5 |
| 14 | MP-8 | X | -0.044 | 1.5 |
| 15 | MP-8 | X | -0.024 | 2.5 |
| 16 | MP-8 | X | -0.006 | 3.5 |
| 17 | MP-9 | X | -0.076 | 1.5 |
| 18 | MP-10 | X | -0.166 | 1.5 |
| 19 | MP-10 | X | -0.026 | 2.5 |
| 20 | MP-10 | X | -0.042 | 2.5 |
| 21 | MP-11 | X | -0.046 | 1.5 |
| 22 | MP-12 | X | -0.044 | 1.5 |
| 23 | MP-12 | X | -0.024 | 2.5 |
| 24 | MP-12 | X | -0.006 | 3.5 |
| 25 | MP-1 | X | -0.085 | 4.5 |
| 26 | MP-2 | X | -0.221 | 7.5 |
| 27 | MP-3 | X | -0.062 | 4 |
| 28 | MP-4 | X | -0.066 | 5.5 |
| 29 | MP-5 | X | -0.076 | 4.5 |
| 30 | MP-6 | X | -0.166 | 7.5 |
| 31 | MP-7 | X | -0.046 | 4 |
| 32 | MP-8 | X | -0.044 | 5.5 |
| 33 | MP-9 | X | -0.076 | 4.5 |
| 34 | MP-10 | X | -0.166 | 7.5 |
| 35 | MP-11 | X | -0.046 | 4 |
| 36 | MP-12 | X | -0.044 | 5.5 |
| 37 | MP-1 | Z | -0.085 | 1.5 |
| 38 | MP-2 | Z | -0.221 | 1.5 |
| 39 | MP-2 | Z | -0.035 | 2.5 |
| 40 | MP-2 | Z | -0.045 | 2.5 |
| 41 | MP-3 | Z | -0.062 | 1.5 |



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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 42 | MP-4 | Z | -0.066 | 1.5 |
| 43 | MP-4 | Z | -0.014 | 2.5 |
| 44 | MP-4 | Z | -0.008 | 3.5 |
| 45 | MP-5 | Z | -0.076 | 1.5 |
| 46 | MP-6 | Z | -0.166 | 1.5 |
| 47 | MP-6 | Z | -0.026 | 2.5 |
| 48 | MP-6 | Z | -0.042 | 2.5 |
| 49 | MP-7 | Z | -0.046 | 1.5 |
| 50 | MP-8 | Z | -0.044 | 1.5 |
| 51 | MP-8 | Z | -0.024 | 2.5 |
| 52 | MP-8 | Z | -0.006 | 3.5 |
| 53 | MP-9 | Z | -0.076 | 1.5 |
| 54 | MP-10 | Z | -0.166 | 1.5 |
| 55 | MP-10 | Z | -0.026 | 2.5 |
| 56 | MP-10 | Z | -0.042 | 2.5 |
| 57 | MP-11 | Z | -0.046 | 1.5 |
| 58 | MP-12 | Z | -0.044 | 1.5 |
| 59 | MP-12 | Z | -0.024 | 2.5 |
| 60 | MP-12 | Z | -0.006 | 3.5 |
| 61 | MP-1 | Z | -0.085 | 4.5 |
| 62 | MP-2 | Z | -0.221 | 7.5 |
| 63 | MP-3 | Z | -0.062 | 4 |
| 64 | MP-4 | Z | -0.066 | 5.5 |
| 65 | MP-5 | Z | -0.076 | 4.5 |
| 66 | MP-6 | Z | -0.166 | 7.5 |
| 67 | MP-7 | Z | -0.046 | 4 |
| 68 | MP-8 | Z | -0.044 | 5.5 |
| 69 | MP-9 | Z | -0.076 | 4.5 |
| 70 | MP-10 | Z | -0.166 | 7.5 |
| 71 | MP-11 | Z | -0.046 | 4 |
| 72 | MP-12 | Z | -0.044 | 5.5 |

Member Point Loads (BLC 5 : 60 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.055 | 1.5 |
| 2 | MP-2 | X | -0.126 | 1.5 |
| 3 | MP-2 | X | -0.02 | 2.5 |
| 4 | MP-2 | X | -0.03 | 2.5 |
| 5 | MP-3 | X | -0.035 | 1.5 |
| 6 | MP-4 | X | -0.035 | 1.5 |
| 7 | MP-4 | X | -0.009 | 2.5 |
| 8 | MP-4 | X | -0.004 | 3.5 |
| 9 | MP-5 | X | -0.051 | 1.5 |
| 10 | MP-6 | X | -0.099 | 1.5 |
| 11 | MP-6 | X | -0.015 | 2.5 |
| 12 | MP-6 | X | -0.028 | 2.5 |
| 13 | MP-7 | X | -0.028 | 1.5 |
| 14 | MP-8 | X | -0.024 | 1.5 |
| 15 | MP-8 | X | -0.016 | 2.5 |
| 16 | MP-8 | X | -0.003 | 3.5 |
| 17 | MP-9 | X | -0.051 | 1.5 |
| 18 | MP-10 | X | -0.099 | 1.5 |
| 19 | MP-10 | X | -0.015 | 2.5 |
| 20 | MP-10 | X | -0.028 | 2.5 |
| 21 | MP-11 | X | -0.028 | 1.5 |
| 22 | MP-12 | X | -0.024 | 1.5 |



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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 23 | MP-12 | X | -0.16 | 2.5 |
| 24 | MP-12 | X | -0.003 | 3.5 |
| 25 | MP-1 | X | -0.055 | 4.5 |
| 26 | MP-2 | X | -0.126 | 7.5 |
| 27 | MP-3 | X | -0.035 | 4 |
| 28 | MP-4 | X | -0.035 | 5.5 |
| 29 | MP-5 | X | -0.051 | 4.5 |
| 30 | MP-6 | X | -0.099 | 7.5 |
| 31 | MP-7 | X | -0.028 | 4 |
| 32 | MP-8 | X | -0.024 | 5.5 |
| 33 | MP-9 | X | -0.051 | 4.5 |
| 34 | MP-10 | X | -0.099 | 7.5 |
| 35 | MP-11 | X | -0.028 | 4 |
| 36 | MP-12 | X | -0.024 | 5.5 |
| 37 | MP-1 | Z | -0.096 | 1.5 |
| 38 | MP-2 | Z | -0.218 | 1.5 |
| 39 | MP-2 | Z | -0.034 | 2.5 |
| 40 | MP-2 | Z | -0.052 | 2.5 |
| 41 | MP-3 | Z | -0.061 | 1.5 |
| 42 | MP-4 | Z | -0.06 | 1.5 |
| 43 | MP-4 | Z | -0.015 | 2.5 |
| 44 | MP-4 | Z | -0.008 | 3.5 |
| 45 | MP-5 | Z | -0.089 | 1.5 |
| 46 | MP-6 | Z | -0.172 | 1.5 |
| 47 | MP-6 | Z | -0.026 | 2.5 |
| 48 | MP-6 | Z | -0.049 | 2.5 |
| 49 | MP-7 | Z | -0.048 | 1.5 |
| 50 | MP-8 | Z | -0.042 | 1.5 |
| 51 | MP-8 | Z | -0.027 | 2.5 |
| 52 | MP-8 | Z | -0.006 | 3.5 |
| 53 | MP-9 | Z | -0.089 | 1.5 |
| 54 | MP-10 | Z | -0.172 | 1.5 |
| 55 | MP-10 | Z | -0.026 | 2.5 |
| 56 | MP-10 | Z | -0.049 | 2.5 |
| 57 | MP-11 | Z | -0.048 | 1.5 |
| 58 | MP-12 | Z | -0.042 | 1.5 |
| 59 | MP-12 | Z | -0.027 | 2.5 |
| 60 | MP-12 | Z | -0.006 | 3.5 |
| 61 | MP-1 | Z | -0.096 | 4.5 |
| 62 | MP-2 | Z | -0.218 | 7.5 |
| 63 | MP-3 | Z | -0.061 | 4 |
| 64 | MP-4 | Z | -0.06 | 5.5 |
| 65 | MP-5 | Z | -0.089 | 4.5 |
| 66 | MP-6 | Z | -0.172 | 7.5 |
| 67 | MP-7 | Z | -0.048 | 4 |
| 68 | MP-8 | Z | -0.042 | 5.5 |
| 69 | MP-9 | Z | -0.089 | 4.5 |
| 70 | MP-10 | Z | -0.172 | 7.5 |
| 71 | MP-11 | Z | -0.048 | 4 |
| 72 | MP-12 | Z | -0.042 | 5.5 |

Member Point Loads (BLC 6 : 90 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|---|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | -0.101 | 1.5 |
| 2 | MP-2 | Z | -0.191 | 1.5 |
| 3 | MP-2 | Z | -0.029 | 2.5 |



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Member Point Loads (BLC 6 : 90 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 4 | MP-2 | Z | -0.056 | 2.5 |
| 5 | MP-3 | Z | -0.053 | 1.5 |
| 6 | MP-4 | Z | -0.046 | 1.5 |
| 7 | MP-4 | Z | -0.016 | 2.5 |
| 8 | MP-4 | Z | -0.007 | 3.5 |
| 9 | MP-5 | Z | -0.106 | 1.5 |
| 10 | MP-6 | Z | -0.219 | 1.5 |
| 11 | MP-6 | Z | -0.034 | 2.5 |
| 12 | MP-6 | Z | -0.058 | 2.5 |
| 13 | MP-7 | Z | -0.061 | 1.5 |
| 14 | MP-8 | Z | -0.057 | 1.5 |
| 15 | MP-8 | Z | -0.033 | 2.5 |
| 16 | MP-8 | Z | -0.008 | 3.5 |
| 17 | MP-9 | Z | -0.106 | 1.5 |
| 18 | MP-10 | Z | -0.219 | 1.5 |
| 19 | MP-10 | Z | -0.034 | 2.5 |
| 20 | MP-10 | Z | -0.058 | 2.5 |
| 21 | MP-11 | Z | -0.061 | 1.5 |
| 22 | MP-12 | Z | -0.057 | 1.5 |
| 23 | MP-12 | Z | -0.033 | 2.5 |
| 24 | MP-12 | Z | -0.008 | 3.5 |
| 25 | MP-1 | Z | -0.101 | 4.5 |
| 26 | MP-2 | Z | -0.191 | 7.5 |
| 27 | MP-3 | Z | -0.053 | 4 |
| 28 | MP-4 | Z | -0.046 | 5.5 |
| 29 | MP-5 | Z | -0.106 | 4.5 |
| 30 | MP-6 | Z | -0.219 | 7.5 |
| 31 | MP-7 | Z | -0.061 | 4 |
| 32 | MP-8 | Z | -0.057 | 5.5 |
| 33 | MP-9 | Z | -0.106 | 4.5 |
| 34 | MP-10 | Z | -0.219 | 7.5 |
| 35 | MP-11 | Z | -0.061 | 4 |
| 36 | MP-12 | Z | -0.057 | 5.5 |

Member Point Loads (BLC 7 : 120 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .055 | 1.5 |
| 2 | MP-2 | X | .126 | 1.5 |
| 3 | MP-2 | X | .02 | 2.5 |
| 4 | MP-2 | X | .03 | 2.5 |
| 5 | MP-3 | X | .035 | 1.5 |
| 6 | MP-4 | X | .035 | 1.5 |
| 7 | MP-4 | X | .009 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .062 | 1.5 |
| 10 | MP-6 | X | .167 | 1.5 |
| 11 | MP-6 | X | .027 | 2.5 |
| 12 | MP-6 | X | .032 | 2.5 |
| 13 | MP-7 | X | .047 | 1.5 |
| 14 | MP-8 | X | .051 | 1.5 |
| 15 | MP-8 | X | .02 | 2.5 |
| 16 | MP-8 | X | .006 | 3.5 |
| 17 | MP-9 | X | .062 | 1.5 |
| 18 | MP-10 | X | .167 | 1.5 |
| 19 | MP-10 | X | .027 | 2.5 |
| 20 | MP-10 | X | .032 | 2.5 |



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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 21 | MP-11 | X | .047 | 1.5 |
| 22 | MP-12 | X | .051 | 1.5 |
| 23 | MP-12 | X | .02 | 2.5 |
| 24 | MP-12 | X | .006 | 3.5 |
| 25 | MP-1 | X | .055 | 4.5 |
| 26 | MP-2 | X | .126 | 7.5 |
| 27 | MP-3 | X | .035 | 4 |
| 28 | MP-4 | X | .035 | 5.5 |
| 29 | MP-5 | X | .062 | 4.5 |
| 30 | MP-6 | X | .167 | 7.5 |
| 31 | MP-7 | X | .047 | 4 |
| 32 | MP-8 | X | .051 | 5.5 |
| 33 | MP-9 | X | .062 | 4.5 |
| 34 | MP-10 | X | .167 | 7.5 |
| 35 | MP-11 | X | .047 | 4 |
| 36 | MP-12 | X | .051 | 5.5 |
| 37 | MP-1 | Z | -.096 | 1.5 |
| 38 | MP-2 | Z | -.218 | 1.5 |
| 39 | MP-2 | Z | -.034 | 2.5 |
| 40 | MP-2 | Z | -.052 | 2.5 |
| 41 | MP-3 | Z | -.061 | 1.5 |
| 42 | MP-4 | Z | -.06 | 1.5 |
| 43 | MP-4 | Z | -.015 | 2.5 |
| 44 | MP-4 | Z | -.008 | 3.5 |
| 45 | MP-5 | Z | -.107 | 1.5 |
| 46 | MP-6 | Z | -.289 | 1.5 |
| 47 | MP-6 | Z | -.046 | 2.5 |
| 48 | MP-6 | Z | -.056 | 2.5 |
| 49 | MP-7 | Z | -.081 | 1.5 |
| 50 | MP-8 | Z | -.088 | 1.5 |
| 51 | MP-8 | Z | -.036 | 2.5 |
| 52 | MP-8 | Z | -.01 | 3.5 |
| 53 | MP-9 | Z | -.107 | 1.5 |
| 54 | MP-10 | Z | -.289 | 1.5 |
| 55 | MP-10 | Z | -.046 | 2.5 |
| 56 | MP-10 | Z | -.056 | 2.5 |
| 57 | MP-11 | Z | -.081 | 1.5 |
| 58 | MP-12 | Z | -.088 | 1.5 |
| 59 | MP-12 | Z | -.036 | 2.5 |
| 60 | MP-12 | Z | -.01 | 3.5 |
| 61 | MP-1 | Z | -.096 | 4.5 |
| 62 | MP-2 | Z | -.218 | 7.5 |
| 63 | MP-3 | Z | -.061 | 4 |
| 64 | MP-4 | Z | -.06 | 5.5 |
| 65 | MP-5 | Z | -.107 | 4.5 |
| 66 | MP-6 | Z | -.289 | 7.5 |
| 67 | MP-7 | Z | -.081 | 4 |
| 68 | MP-8 | Z | -.088 | 5.5 |
| 69 | MP-9 | Z | -.107 | 4.5 |
| 70 | MP-10 | Z | -.289 | 7.5 |
| 71 | MP-11 | Z | -.081 | 4 |
| 72 | MP-12 | Z | -.088 | 5.5 |

Member Point Loads (BLC 8 : 135 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|---|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .085 | 1.5 |



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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 2 | MP-2 | X | .221 | 1.5 |
| 3 | MP-2 | X | .035 | 2.5 |
| 4 | MP-2 | X | .045 | 2.5 |
| 5 | MP-3 | X | .062 | 1.5 |
| 6 | MP-4 | X | .066 | 1.5 |
| 7 | MP-4 | X | .014 | 2.5 |
| 8 | MP-4 | X | .008 | 3.5 |
| 9 | MP-5 | X | .094 | 1.5 |
| 10 | MP-6 | X | .276 | 1.5 |
| 11 | MP-6 | X | .045 | 2.5 |
| 12 | MP-6 | X | .048 | 2.5 |
| 13 | MP-7 | X | .078 | 1.5 |
| 14 | MP-8 | X | .088 | 1.5 |
| 15 | MP-8 | X | .032 | 2.5 |
| 16 | MP-8 | X | .01 | 3.5 |
| 17 | MP-9 | X | .094 | 1.5 |
| 18 | MP-10 | X | .276 | 1.5 |
| 19 | MP-10 | X | .045 | 2.5 |
| 20 | MP-10 | X | .048 | 2.5 |
| 21 | MP-11 | X | .078 | 1.5 |
| 22 | MP-12 | X | .088 | 1.5 |
| 23 | MP-12 | X | .032 | 2.5 |
| 24 | MP-12 | X | .01 | 3.5 |
| 25 | MP-1 | X | .085 | 4.5 |
| 26 | MP-2 | X | .221 | 7.5 |
| 27 | MP-3 | X | .062 | 4 |
| 28 | MP-4 | X | .066 | 5.5 |
| 29 | MP-5 | X | .094 | 4.5 |
| 30 | MP-6 | X | .276 | 7.5 |
| 31 | MP-7 | X | .078 | 4 |
| 32 | MP-8 | X | .088 | 5.5 |
| 33 | MP-9 | X | .094 | 4.5 |
| 34 | MP-10 | X | .276 | 7.5 |
| 35 | MP-11 | X | .078 | 4 |
| 36 | MP-12 | X | .088 | 5.5 |
| 37 | MP-1 | Z | -.085 | 1.5 |
| 38 | MP-2 | Z | -.221 | 1.5 |
| 39 | MP-2 | Z | -.035 | 2.5 |
| 40 | MP-2 | Z | -.045 | 2.5 |
| 41 | MP-3 | Z | -.062 | 1.5 |
| 42 | MP-4 | Z | -.066 | 1.5 |
| 43 | MP-4 | Z | -.014 | 2.5 |
| 44 | MP-4 | Z | -.008 | 3.5 |
| 45 | MP-5 | Z | -.094 | 1.5 |
| 46 | MP-6 | Z | -.276 | 1.5 |
| 47 | MP-6 | Z | -.045 | 2.5 |
| 48 | MP-6 | Z | -.048 | 2.5 |
| 49 | MP-7 | Z | -.078 | 1.5 |
| 50 | MP-8 | Z | -.088 | 1.5 |
| 51 | MP-8 | Z | -.032 | 2.5 |
| 52 | MP-8 | Z | -.01 | 3.5 |
| 53 | MP-9 | Z | -.094 | 1.5 |
| 54 | MP-10 | Z | -.276 | 1.5 |
| 55 | MP-10 | Z | -.045 | 2.5 |
| 56 | MP-10 | Z | -.048 | 2.5 |
| 57 | MP-11 | Z | -.078 | 1.5 |
| 58 | MP-12 | Z | -.088 | 1.5 |



Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 59 | MP-12 | Z | -.032 | 2.5 |
| 60 | MP-12 | Z | -.01 | 3.5 |
| 61 | MP-1 | Z | -.085 | 4.5 |
| 62 | MP-2 | Z | -.221 | 7.5 |
| 63 | MP-3 | Z | -.062 | 4 |
| 64 | MP-4 | Z | -.066 | 5.5 |
| 65 | MP-5 | Z | -.094 | 4.5 |
| 66 | MP-6 | Z | -.276 | 7.5 |
| 67 | MP-7 | Z | -.078 | 4 |
| 68 | MP-8 | Z | -.088 | 5.5 |
| 69 | MP-9 | Z | -.094 | 4.5 |
| 70 | MP-10 | Z | -.276 | 7.5 |
| 71 | MP-11 | Z | -.078 | 4 |
| 72 | MP-12 | Z | -.088 | 5.5 |

Member Point Loads (BLC 9 : 150 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .113 | 1.5 |
| 2 | MP-2 | X | .323 | 1.5 |
| 3 | MP-2 | X | .052 | 2.5 |
| 4 | MP-2 | X | .058 | 2.5 |
| 5 | MP-3 | X | .091 | 1.5 |
| 6 | MP-4 | X | .102 | 1.5 |
| 7 | MP-4 | X | .019 | 2.5 |
| 8 | MP-4 | X | .011 | 3.5 |
| 9 | MP-5 | X | .12 | 1.5 |
| 10 | MP-6 | X | .37 | 1.5 |
| 11 | MP-6 | X | .06 | 2.5 |
| 12 | MP-6 | X | .061 | 2.5 |
| 13 | MP-7 | X | .104 | 1.5 |
| 14 | MP-8 | X | .12 | 1.5 |
| 15 | MP-8 | X | .041 | 2.5 |
| 16 | MP-8 | X | .013 | 3.5 |
| 17 | MP-9 | X | .12 | 1.5 |
| 18 | MP-10 | X | .37 | 1.5 |
| 19 | MP-10 | X | .06 | 2.5 |
| 20 | MP-10 | X | .061 | 2.5 |
| 21 | MP-11 | X | .104 | 1.5 |
| 22 | MP-12 | X | .12 | 1.5 |
| 23 | MP-12 | X | .041 | 2.5 |
| 24 | MP-12 | X | .013 | 3.5 |
| 25 | MP-1 | X | .113 | 4.5 |
| 26 | MP-2 | X | .323 | 7.5 |
| 27 | MP-3 | X | .091 | 4 |
| 28 | MP-4 | X | .102 | 5.5 |
| 29 | MP-5 | X | .12 | 4.5 |
| 30 | MP-6 | X | .37 | 7.5 |
| 31 | MP-7 | X | .104 | 4 |
| 32 | MP-8 | X | .12 | 5.5 |
| 33 | MP-9 | X | .12 | 4.5 |
| 34 | MP-10 | X | .37 | 7.5 |
| 35 | MP-11 | X | .104 | 4 |
| 36 | MP-12 | X | .12 | 5.5 |
| 37 | MP-1 | Z | -.065 | 1.5 |
| 38 | MP-2 | Z | -.187 | 1.5 |
| 39 | MP-2 | Z | -.03 | 2.5 |



Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 40 | MP-2 | Z | -.034 | 2.5 |
| 41 | MP-3 | Z | -.052 | 1.5 |
| 42 | MP-4 | Z | -.059 | 1.5 |
| 43 | MP-4 | Z | -.011 | 2.5 |
| 44 | MP-4 | Z | -.006 | 3.5 |
| 45 | MP-5 | Z | -.069 | 1.5 |
| 46 | MP-6 | Z | -.214 | 1.5 |
| 47 | MP-6 | Z | -.035 | 2.5 |
| 48 | MP-6 | Z | -.035 | 2.5 |
| 49 | MP-7 | Z | -.06 | 1.5 |
| 50 | MP-8 | Z | -.069 | 1.5 |
| 51 | MP-8 | Z | -.024 | 2.5 |
| 52 | MP-8 | Z | -.007 | 3.5 |
| 53 | MP-9 | Z | -.069 | 1.5 |
| 54 | MP-10 | Z | -.214 | 1.5 |
| 55 | MP-10 | Z | -.035 | 2.5 |
| 56 | MP-10 | Z | -.035 | 2.5 |
| 57 | MP-11 | Z | -.06 | 1.5 |
| 58 | MP-12 | Z | -.069 | 1.5 |
| 59 | MP-12 | Z | -.024 | 2.5 |
| 60 | MP-12 | Z | -.007 | 3.5 |
| 61 | MP-1 | Z | -.065 | 4.5 |
| 62 | MP-2 | Z | -.187 | 7.5 |
| 63 | MP-3 | Z | -.052 | 4 |
| 64 | MP-4 | Z | -.059 | 5.5 |
| 65 | MP-5 | Z | -.069 | 4.5 |
| 66 | MP-6 | Z | -.214 | 7.5 |
| 67 | MP-7 | Z | -.06 | 4 |
| 68 | MP-8 | Z | -.069 | 5.5 |
| 69 | MP-9 | Z | -.069 | 4.5 |
| 70 | MP-10 | Z | -.214 | 7.5 |
| 71 | MP-11 | Z | -.06 | 4 |
| 72 | MP-12 | Z | -.069 | 5.5 |

Member Point Loads (BLC 10 : 180 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .14 | 1.5 |
| 2 | MP-2 | X | .434 | 1.5 |
| 3 | MP-2 | X | .071 | 2.5 |
| 4 | MP-2 | X | .071 | 2.5 |
| 5 | MP-3 | X | .122 | 1.5 |
| 6 | MP-4 | X | .141 | 1.5 |
| 7 | MP-4 | X | .024 | 2.5 |
| 8 | MP-4 | X | .015 | 3.5 |
| 9 | MP-5 | X | .135 | 1.5 |
| 10 | MP-6 | X | .406 | 1.5 |
| 11 | MP-6 | X | .066 | 2.5 |
| 12 | MP-6 | X | .069 | 2.5 |
| 13 | MP-7 | X | .114 | 1.5 |
| 14 | MP-8 | X | .13 | 1.5 |
| 15 | MP-8 | X | .046 | 2.5 |
| 16 | MP-8 | X | .014 | 3.5 |
| 17 | MP-9 | X | .135 | 1.5 |
| 18 | MP-10 | X | .406 | 1.5 |
| 19 | MP-10 | X | .066 | 2.5 |
| 20 | MP-10 | X | .069 | 2.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 21 | MP-11 | X | .114 | 1.5 |
| 22 | MP-12 | X | .13 | 1.5 |
| 23 | MP-12 | X | .046 | 2.5 |
| 24 | MP-12 | X | .014 | 3.5 |
| 25 | MP-1 | X | .14 | 4.5 |
| 26 | MP-2 | X | .434 | 7.5 |
| 27 | MP-3 | X | .122 | 4 |
| 28 | MP-4 | X | .141 | 5.5 |
| 29 | MP-5 | X | .135 | 4.5 |
| 30 | MP-6 | X | .406 | 7.5 |
| 31 | MP-7 | X | .114 | 4 |
| 32 | MP-8 | X | .13 | 5.5 |
| 33 | MP-9 | X | .135 | 4.5 |
| 34 | MP-10 | X | .406 | 7.5 |
| 35 | MP-11 | X | .114 | 4 |
| 36 | MP-12 | X | .13 | 5.5 |

Member Point Loads (BLC 11 : 210 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .113 | 1.5 |
| 2 | MP-2 | X | .323 | 1.5 |
| 3 | MP-2 | X | .052 | 2.5 |
| 4 | MP-2 | X | .058 | 2.5 |
| 5 | MP-3 | X | .091 | 1.5 |
| 6 | MP-4 | X | .102 | 1.5 |
| 7 | MP-4 | X | .019 | 2.5 |
| 8 | MP-4 | X | .011 | 3.5 |
| 9 | MP-5 | X | .101 | 1.5 |
| 10 | MP-6 | X | .252 | 1.5 |
| 11 | MP-6 | X | .04 | 2.5 |
| 12 | MP-6 | X | .054 | 2.5 |
| 13 | MP-7 | X | .071 | 1.5 |
| 14 | MP-8 | X | .074 | 1.5 |
| 15 | MP-8 | X | .033 | 2.5 |
| 16 | MP-8 | X | .009 | 3.5 |
| 17 | MP-9 | X | .101 | 1.5 |
| 18 | MP-10 | X | .252 | 1.5 |
| 19 | MP-10 | X | .04 | 2.5 |
| 20 | MP-10 | X | .054 | 2.5 |
| 21 | MP-11 | X | .071 | 1.5 |
| 22 | MP-12 | X | .074 | 1.5 |
| 23 | MP-12 | X | .033 | 2.5 |
| 24 | MP-12 | X | .009 | 3.5 |
| 25 | MP-1 | X | .113 | 4.5 |
| 26 | MP-2 | X | .323 | 7.5 |
| 27 | MP-3 | X | .091 | 4 |
| 28 | MP-4 | X | .102 | 5.5 |
| 29 | MP-5 | X | .101 | 4.5 |
| 30 | MP-6 | X | .252 | 7.5 |
| 31 | MP-7 | X | .071 | 4 |
| 32 | MP-8 | X | .074 | 5.5 |
| 33 | MP-9 | X | .101 | 4.5 |
| 34 | MP-10 | X | .252 | 7.5 |
| 35 | MP-11 | X | .071 | 4 |
| 36 | MP-12 | X | .074 | 5.5 |
| 37 | MP-1 | Z | .065 | 1.5 |



Company : Tower Engineering Professionals, Inc.
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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 38 | MP-2 | Z | .187 | 1.5 |
| 39 | MP-2 | Z | .03 | 2.5 |
| 40 | MP-2 | Z | .034 | 2.5 |
| 41 | MP-3 | Z | .052 | 1.5 |
| 42 | MP-4 | Z | .059 | 1.5 |
| 43 | MP-4 | Z | .011 | 2.5 |
| 44 | MP-4 | Z | .006 | 3.5 |
| 45 | MP-5 | Z | .059 | 1.5 |
| 46 | MP-6 | Z | .146 | 1.5 |
| 47 | MP-6 | Z | .023 | 2.5 |
| 48 | MP-6 | Z | .031 | 2.5 |
| 49 | MP-7 | Z | .041 | 1.5 |
| 50 | MP-8 | Z | .043 | 1.5 |
| 51 | MP-8 | Z | .019 | 2.5 |
| 52 | MP-8 | Z | .005 | 3.5 |
| 53 | MP-9 | Z | .059 | 1.5 |
| 54 | MP-10 | Z | .146 | 1.5 |
| 55 | MP-10 | Z | .023 | 2.5 |
| 56 | MP-10 | Z | .031 | 2.5 |
| 57 | MP-11 | Z | .041 | 1.5 |
| 58 | MP-12 | Z | .043 | 1.5 |
| 59 | MP-12 | Z | .019 | 2.5 |
| 60 | MP-12 | Z | .005 | 3.5 |
| 61 | MP-1 | Z | .065 | 4.5 |
| 62 | MP-2 | Z | .187 | 7.5 |
| 63 | MP-3 | Z | .052 | 4 |
| 64 | MP-4 | Z | .059 | 5.5 |
| 65 | MP-5 | Z | .059 | 4.5 |
| 66 | MP-6 | Z | .146 | 7.5 |
| 67 | MP-7 | Z | .041 | 4 |
| 68 | MP-8 | Z | .043 | 5.5 |
| 69 | MP-9 | Z | .059 | 4.5 |
| 70 | MP-10 | Z | .146 | 7.5 |
| 71 | MP-11 | Z | .041 | 4 |
| 72 | MP-12 | Z | .043 | 5.5 |

Member Point Loads (BLC 12 : 225 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .085 | 1.5 |
| 2 | MP-2 | X | .221 | 1.5 |
| 3 | MP-2 | X | .035 | 2.5 |
| 4 | MP-2 | X | .045 | 2.5 |
| 5 | MP-3 | X | .062 | 1.5 |
| 6 | MP-4 | X | .066 | 1.5 |
| 7 | MP-4 | X | .014 | 2.5 |
| 8 | MP-4 | X | .008 | 3.5 |
| 9 | MP-5 | X | .076 | 1.5 |
| 10 | MP-6 | X | .166 | 1.5 |
| 11 | MP-6 | X | .026 | 2.5 |
| 12 | MP-6 | X | .042 | 2.5 |
| 13 | MP-7 | X | .046 | 1.5 |
| 14 | MP-8 | X | .044 | 1.5 |
| 15 | MP-8 | X | .024 | 2.5 |
| 16 | MP-8 | X | .006 | 3.5 |
| 17 | MP-9 | X | .076 | 1.5 |
| 18 | MP-10 | X | .166 | 1.5 |



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Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 19 | MP-10 | X | .026 | 2.5 |
| 20 | MP-10 | X | .042 | 2.5 |
| 21 | MP-11 | X | .046 | 1.5 |
| 22 | MP-12 | X | .044 | 1.5 |
| 23 | MP-12 | X | .024 | 2.5 |
| 24 | MP-12 | X | .006 | 3.5 |
| 25 | MP-1 | X | .085 | 4.5 |
| 26 | MP-2 | X | .221 | 7.5 |
| 27 | MP-3 | X | .062 | 4 |
| 28 | MP-4 | X | .066 | 5.5 |
| 29 | MP-5 | X | .076 | 4.5 |
| 30 | MP-6 | X | .166 | 7.5 |
| 31 | MP-7 | X | .046 | 4 |
| 32 | MP-8 | X | .044 | 5.5 |
| 33 | MP-9 | X | .076 | 4.5 |
| 34 | MP-10 | X | .166 | 7.5 |
| 35 | MP-11 | X | .046 | 4 |
| 36 | MP-12 | X | .044 | 5.5 |
| 37 | MP-1 | Z | .085 | 1.5 |
| 38 | MP-2 | Z | .221 | 1.5 |
| 39 | MP-2 | Z | .035 | 2.5 |
| 40 | MP-2 | Z | .045 | 2.5 |
| 41 | MP-3 | Z | .062 | 1.5 |
| 42 | MP-4 | Z | .066 | 1.5 |
| 43 | MP-4 | Z | .014 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .076 | 1.5 |
| 46 | MP-6 | Z | .166 | 1.5 |
| 47 | MP-6 | Z | .026 | 2.5 |
| 48 | MP-6 | Z | .042 | 2.5 |
| 49 | MP-7 | Z | .046 | 1.5 |
| 50 | MP-8 | Z | .044 | 1.5 |
| 51 | MP-8 | Z | .024 | 2.5 |
| 52 | MP-8 | Z | .006 | 3.5 |
| 53 | MP-9 | Z | .076 | 1.5 |
| 54 | MP-10 | Z | .166 | 1.5 |
| 55 | MP-10 | Z | .026 | 2.5 |
| 56 | MP-10 | Z | .042 | 2.5 |
| 57 | MP-11 | Z | .046 | 1.5 |
| 58 | MP-12 | Z | .044 | 1.5 |
| 59 | MP-12 | Z | .024 | 2.5 |
| 60 | MP-12 | Z | .006 | 3.5 |
| 61 | MP-1 | Z | .085 | 4.5 |
| 62 | MP-2 | Z | .221 | 7.5 |
| 63 | MP-3 | Z | .062 | 4 |
| 64 | MP-4 | Z | .066 | 5.5 |
| 65 | MP-5 | Z | .076 | 4.5 |
| 66 | MP-6 | Z | .166 | 7.5 |
| 67 | MP-7 | Z | .046 | 4 |
| 68 | MP-8 | Z | .044 | 5.5 |
| 69 | MP-9 | Z | .076 | 4.5 |
| 70 | MP-10 | Z | .166 | 7.5 |
| 71 | MP-11 | Z | .046 | 4 |
| 72 | MP-12 | Z | .044 | 5.5 |

Member Point Loads (BLC 13 : 240 Wind - No Ice)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|--------------|-----------|-------------------|----------------|
|--------------|-----------|-------------------|----------------|



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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .055 | 1.5 |
| 2 | MP-2 | X | .126 | 1.5 |
| 3 | MP-2 | X | .02 | 2.5 |
| 4 | MP-2 | X | .03 | 2.5 |
| 5 | MP-3 | X | .035 | 1.5 |
| 6 | MP-4 | X | .035 | 1.5 |
| 7 | MP-4 | X | .009 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .051 | 1.5 |
| 10 | MP-6 | X | .099 | 1.5 |
| 11 | MP-6 | X | .015 | 2.5 |
| 12 | MP-6 | X | .028 | 2.5 |
| 13 | MP-7 | X | .028 | 1.5 |
| 14 | MP-8 | X | .024 | 1.5 |
| 15 | MP-8 | X | .016 | 2.5 |
| 16 | MP-8 | X | .003 | 3.5 |
| 17 | MP-9 | X | .051 | 1.5 |
| 18 | MP-10 | X | .099 | 1.5 |
| 19 | MP-10 | X | .015 | 2.5 |
| 20 | MP-10 | X | .028 | 2.5 |
| 21 | MP-11 | X | .028 | 1.5 |
| 22 | MP-12 | X | .024 | 1.5 |
| 23 | MP-12 | X | .016 | 2.5 |
| 24 | MP-12 | X | .003 | 3.5 |
| 25 | MP-1 | X | .055 | 4.5 |
| 26 | MP-2 | X | .126 | 7.5 |
| 27 | MP-3 | X | .035 | 4 |
| 28 | MP-4 | X | .035 | 5.5 |
| 29 | MP-5 | X | .051 | 4.5 |
| 30 | MP-6 | X | .099 | 7.5 |
| 31 | MP-7 | X | .028 | 4 |
| 32 | MP-8 | X | .024 | 5.5 |
| 33 | MP-9 | X | .051 | 4.5 |
| 34 | MP-10 | X | .099 | 7.5 |
| 35 | MP-11 | X | .028 | 4 |
| 36 | MP-12 | X | .024 | 5.5 |
| 37 | MP-1 | Z | .096 | 1.5 |
| 38 | MP-2 | Z | .218 | 1.5 |
| 39 | MP-2 | Z | .034 | 2.5 |
| 40 | MP-2 | Z | .052 | 2.5 |
| 41 | MP-3 | Z | .061 | 1.5 |
| 42 | MP-4 | Z | .06 | 1.5 |
| 43 | MP-4 | Z | .015 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .089 | 1.5 |
| 46 | MP-6 | Z | .172 | 1.5 |
| 47 | MP-6 | Z | .026 | 2.5 |
| 48 | MP-6 | Z | .049 | 2.5 |
| 49 | MP-7 | Z | .048 | 1.5 |
| 50 | MP-8 | Z | .042 | 1.5 |
| 51 | MP-8 | Z | .027 | 2.5 |
| 52 | MP-8 | Z | .006 | 3.5 |
| 53 | MP-9 | Z | .089 | 1.5 |
| 54 | MP-10 | Z | .172 | 1.5 |
| 55 | MP-10 | Z | .026 | 2.5 |
| 56 | MP-10 | Z | .049 | 2.5 |
| 57 | MP-11 | Z | .048 | 1.5 |



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 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | .042 | 1.5 |
| 59 | MP-12 | Z | .027 | 2.5 |
| 60 | MP-12 | Z | .006 | 3.5 |
| 61 | MP-1 | Z | .096 | 4.5 |
| 62 | MP-2 | Z | .218 | 7.5 |
| 63 | MP-3 | Z | .061 | 4 |
| 64 | MP-4 | Z | .06 | 5.5 |
| 65 | MP-5 | Z | .089 | 4.5 |
| 66 | MP-6 | Z | .172 | 7.5 |
| 67 | MP-7 | Z | .048 | 4 |
| 68 | MP-8 | Z | .042 | 5.5 |
| 69 | MP-9 | Z | .089 | 4.5 |
| 70 | MP-10 | Z | .172 | 7.5 |
| 71 | MP-11 | Z | .048 | 4 |
| 72 | MP-12 | Z | .042 | 5.5 |

Member Point Loads (BLC 14 : 270 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | .101 | 1.5 |
| 2 | MP-2 | Z | .191 | 1.5 |
| 3 | MP-2 | Z | .029 | 2.5 |
| 4 | MP-2 | Z | .056 | 2.5 |
| 5 | MP-3 | Z | .053 | 1.5 |
| 6 | MP-4 | Z | .046 | 1.5 |
| 7 | MP-4 | Z | .016 | 2.5 |
| 8 | MP-4 | Z | .007 | 3.5 |
| 9 | MP-5 | Z | .106 | 1.5 |
| 10 | MP-6 | Z | .219 | 1.5 |
| 11 | MP-6 | Z | .034 | 2.5 |
| 12 | MP-6 | Z | .058 | 2.5 |
| 13 | MP-7 | Z | .061 | 1.5 |
| 14 | MP-8 | Z | .057 | 1.5 |
| 15 | MP-8 | Z | .033 | 2.5 |
| 16 | MP-8 | Z | .008 | 3.5 |
| 17 | MP-9 | Z | .106 | 1.5 |
| 18 | MP-10 | Z | .219 | 1.5 |
| 19 | MP-10 | Z | .034 | 2.5 |
| 20 | MP-10 | Z | .058 | 2.5 |
| 21 | MP-11 | Z | .061 | 1.5 |
| 22 | MP-12 | Z | .057 | 1.5 |
| 23 | MP-12 | Z | .033 | 2.5 |
| 24 | MP-12 | Z | .008 | 3.5 |
| 25 | MP-1 | Z | .101 | 4.5 |
| 26 | MP-2 | Z | .191 | 7.5 |
| 27 | MP-3 | Z | .053 | 4 |
| 28 | MP-4 | Z | .046 | 5.5 |
| 29 | MP-5 | Z | .106 | 4.5 |
| 30 | MP-6 | Z | .219 | 7.5 |
| 31 | MP-7 | Z | .061 | 4 |
| 32 | MP-8 | Z | .057 | 5.5 |
| 33 | MP-9 | Z | .106 | 4.5 |
| 34 | MP-10 | Z | .219 | 7.5 |
| 35 | MP-11 | Z | .061 | 4 |
| 36 | MP-12 | Z | .057 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 15 : 300 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.055 | 1.5 |
| 2 | MP-2 | X | -.126 | 1.5 |
| 3 | MP-2 | X | -.02 | 2.5 |
| 4 | MP-2 | X | -.03 | 2.5 |
| 5 | MP-3 | X | -.035 | 1.5 |
| 6 | MP-4 | X | -.035 | 1.5 |
| 7 | MP-4 | X | -.009 | 2.5 |
| 8 | MP-4 | X | -.004 | 3.5 |
| 9 | MP-5 | X | -.062 | 1.5 |
| 10 | MP-6 | X | -.167 | 1.5 |
| 11 | MP-6 | X | -.027 | 2.5 |
| 12 | MP-6 | X | -.032 | 2.5 |
| 13 | MP-7 | X | -.047 | 1.5 |
| 14 | MP-8 | X | -.051 | 1.5 |
| 15 | MP-8 | X | -.02 | 2.5 |
| 16 | MP-8 | X | -.006 | 3.5 |
| 17 | MP-9 | X | -.062 | 1.5 |
| 18 | MP-10 | X | -.167 | 1.5 |
| 19 | MP-10 | X | -.027 | 2.5 |
| 20 | MP-10 | X | -.032 | 2.5 |
| 21 | MP-11 | X | -.047 | 1.5 |
| 22 | MP-12 | X | -.051 | 1.5 |
| 23 | MP-12 | X | -.02 | 2.5 |
| 24 | MP-12 | X | -.006 | 3.5 |
| 25 | MP-1 | X | -.055 | 4.5 |
| 26 | MP-2 | X | -.126 | 7.5 |
| 27 | MP-3 | X | -.035 | 4 |
| 28 | MP-4 | X | -.035 | 5.5 |
| 29 | MP-5 | X | -.062 | 4.5 |
| 30 | MP-6 | X | -.167 | 7.5 |
| 31 | MP-7 | X | -.047 | 4 |
| 32 | MP-8 | X | -.051 | 5.5 |
| 33 | MP-9 | X | -.062 | 4.5 |
| 34 | MP-10 | X | -.167 | 7.5 |
| 35 | MP-11 | X | -.047 | 4 |
| 36 | MP-12 | X | -.051 | 5.5 |
| 37 | MP-1 | Z | .096 | 1.5 |
| 38 | MP-2 | Z | .218 | 1.5 |
| 39 | MP-2 | Z | .034 | 2.5 |
| 40 | MP-2 | Z | .052 | 2.5 |
| 41 | MP-3 | Z | .061 | 1.5 |
| 42 | MP-4 | Z | .06 | 1.5 |
| 43 | MP-4 | Z | .015 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .107 | 1.5 |
| 46 | MP-6 | Z | .289 | 1.5 |
| 47 | MP-6 | Z | .046 | 2.5 |
| 48 | MP-6 | Z | .056 | 2.5 |
| 49 | MP-7 | Z | .081 | 1.5 |
| 50 | MP-8 | Z | .088 | 1.5 |
| 51 | MP-8 | Z | .036 | 2.5 |
| 52 | MP-8 | Z | .01 | 3.5 |
| 53 | MP-9 | Z | .107 | 1.5 |
| 54 | MP-10 | Z | .289 | 1.5 |
| 55 | MP-10 | Z | .046 | 2.5 |
| 56 | MP-10 | Z | .056 | 2.5 |
| 57 | MP-11 | Z | .081 | 1.5 |



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 Designer : AEW
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Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | .088 | 1.5 |
| 59 | MP-12 | Z | .036 | 2.5 |
| 60 | MP-12 | Z | .01 | 3.5 |
| 61 | MP-1 | Z | .096 | 4.5 |
| 62 | MP-2 | Z | .218 | 7.5 |
| 63 | MP-3 | Z | .061 | 4 |
| 64 | MP-4 | Z | .06 | 5.5 |
| 65 | MP-5 | Z | .107 | 4.5 |
| 66 | MP-6 | Z | .289 | 7.5 |
| 67 | MP-7 | Z | .081 | 4 |
| 68 | MP-8 | Z | .088 | 5.5 |
| 69 | MP-9 | Z | .107 | 4.5 |
| 70 | MP-10 | Z | .289 | 7.5 |
| 71 | MP-11 | Z | .081 | 4 |
| 72 | MP-12 | Z | .088 | 5.5 |

Member Point Loads (BLC 16 : 315 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.085 | 1.5 |
| 2 | MP-2 | X | -.221 | 1.5 |
| 3 | MP-2 | X | -.035 | 2.5 |
| 4 | MP-2 | X | -.045 | 2.5 |
| 5 | MP-3 | X | -.062 | 1.5 |
| 6 | MP-4 | X | -.066 | 1.5 |
| 7 | MP-4 | X | -.014 | 2.5 |
| 8 | MP-4 | X | -.008 | 3.5 |
| 9 | MP-5 | X | -.094 | 1.5 |
| 10 | MP-6 | X | -.276 | 1.5 |
| 11 | MP-6 | X | -.045 | 2.5 |
| 12 | MP-6 | X | -.048 | 2.5 |
| 13 | MP-7 | X | -.078 | 1.5 |
| 14 | MP-8 | X | -.088 | 1.5 |
| 15 | MP-8 | X | -.032 | 2.5 |
| 16 | MP-8 | X | -.01 | 3.5 |
| 17 | MP-9 | X | -.094 | 1.5 |
| 18 | MP-10 | X | -.276 | 1.5 |
| 19 | MP-10 | X | -.045 | 2.5 |
| 20 | MP-10 | X | -.048 | 2.5 |
| 21 | MP-11 | X | -.078 | 1.5 |
| 22 | MP-12 | X | -.088 | 1.5 |
| 23 | MP-12 | X | -.032 | 2.5 |
| 24 | MP-12 | X | -.01 | 3.5 |
| 25 | MP-1 | X | -.085 | 4.5 |
| 26 | MP-2 | X | -.221 | 7.5 |
| 27 | MP-3 | X | -.062 | 4 |
| 28 | MP-4 | X | -.066 | 5.5 |
| 29 | MP-5 | X | -.094 | 4.5 |
| 30 | MP-6 | X | -.276 | 7.5 |
| 31 | MP-7 | X | -.078 | 4 |
| 32 | MP-8 | X | -.088 | 5.5 |
| 33 | MP-9 | X | -.094 | 4.5 |
| 34 | MP-10 | X | -.276 | 7.5 |
| 35 | MP-11 | X | -.078 | 4 |
| 36 | MP-12 | X | -.088 | 5.5 |
| 37 | MP-1 | Z | .085 | 1.5 |
| 38 | MP-2 | Z | .221 | 1.5 |



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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 39 | MP-2 | Z | .035 | 2.5 |
| 40 | MP-2 | Z | .045 | 2.5 |
| 41 | MP-3 | Z | .062 | 1.5 |
| 42 | MP-4 | Z | .066 | 1.5 |
| 43 | MP-4 | Z | .014 | 2.5 |
| 44 | MP-4 | Z | .008 | 3.5 |
| 45 | MP-5 | Z | .094 | 1.5 |
| 46 | MP-6 | Z | .276 | 1.5 |
| 47 | MP-6 | Z | .045 | 2.5 |
| 48 | MP-6 | Z | .048 | 2.5 |
| 49 | MP-7 | Z | .078 | 1.5 |
| 50 | MP-8 | Z | .088 | 1.5 |
| 51 | MP-8 | Z | .032 | 2.5 |
| 52 | MP-8 | Z | .01 | 3.5 |
| 53 | MP-9 | Z | .094 | 1.5 |
| 54 | MP-10 | Z | .276 | 1.5 |
| 55 | MP-10 | Z | .045 | 2.5 |
| 56 | MP-10 | Z | .048 | 2.5 |
| 57 | MP-11 | Z | .078 | 1.5 |
| 58 | MP-12 | Z | .088 | 1.5 |
| 59 | MP-12 | Z | .032 | 2.5 |
| 60 | MP-12 | Z | .01 | 3.5 |
| 61 | MP-1 | Z | .085 | 4.5 |
| 62 | MP-2 | Z | .221 | 7.5 |
| 63 | MP-3 | Z | .062 | 4 |
| 64 | MP-4 | Z | .066 | 5.5 |
| 65 | MP-5 | Z | .094 | 4.5 |
| 66 | MP-6 | Z | .276 | 7.5 |
| 67 | MP-7 | Z | .078 | 4 |
| 68 | MP-8 | Z | .088 | 5.5 |
| 69 | MP-9 | Z | .094 | 4.5 |
| 70 | MP-10 | Z | .276 | 7.5 |
| 71 | MP-11 | Z | .078 | 4 |
| 72 | MP-12 | Z | .088 | 5.5 |

Member Point Loads (BLC 17 : 330 Wind - No Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.113 | 1.5 |
| 2 | MP-2 | X | -.323 | 1.5 |
| 3 | MP-2 | X | -.052 | 2.5 |
| 4 | MP-2 | X | -.058 | 2.5 |
| 5 | MP-3 | X | -.091 | 1.5 |
| 6 | MP-4 | X | -.102 | 1.5 |
| 7 | MP-4 | X | -.019 | 2.5 |
| 8 | MP-4 | X | -.011 | 3.5 |
| 9 | MP-5 | X | -.12 | 1.5 |
| 10 | MP-6 | X | -.37 | 1.5 |
| 11 | MP-6 | X | -.06 | 2.5 |
| 12 | MP-6 | X | -.061 | 2.5 |
| 13 | MP-7 | X | -.104 | 1.5 |
| 14 | MP-8 | X | -.12 | 1.5 |
| 15 | MP-8 | X | -.041 | 2.5 |
| 16 | MP-8 | X | -.013 | 3.5 |
| 17 | MP-9 | X | -.12 | 1.5 |
| 18 | MP-10 | X | -.37 | 1.5 |
| 19 | MP-10 | X | -.06 | 2.5 |



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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 20 | MP-10 | X | -061 | 2.5 |
| 21 | MP-11 | X | -104 | 1.5 |
| 22 | MP-12 | X | -12 | 1.5 |
| 23 | MP-12 | X | -041 | 2.5 |
| 24 | MP-12 | X | -013 | 3.5 |
| 25 | MP-1 | X | -113 | 4.5 |
| 26 | MP-2 | X | -323 | 7.5 |
| 27 | MP-3 | X | -091 | 4 |
| 28 | MP-4 | X | -102 | 5.5 |
| 29 | MP-5 | X | -12 | 4.5 |
| 30 | MP-6 | X | -37 | 7.5 |
| 31 | MP-7 | X | -104 | 4 |
| 32 | MP-8 | X | -12 | 5.5 |
| 33 | MP-9 | X | -12 | 4.5 |
| 34 | MP-10 | X | -37 | 7.5 |
| 35 | MP-11 | X | -104 | 4 |
| 36 | MP-12 | X | -12 | 5.5 |
| 37 | MP-1 | Z | .065 | 1.5 |
| 38 | MP-2 | Z | .187 | 1.5 |
| 39 | MP-2 | Z | .03 | 2.5 |
| 40 | MP-2 | Z | .034 | 2.5 |
| 41 | MP-3 | Z | .052 | 1.5 |
| 42 | MP-4 | Z | .059 | 1.5 |
| 43 | MP-4 | Z | .011 | 2.5 |
| 44 | MP-4 | Z | .006 | 3.5 |
| 45 | MP-5 | Z | .069 | 1.5 |
| 46 | MP-6 | Z | .214 | 1.5 |
| 47 | MP-6 | Z | .035 | 2.5 |
| 48 | MP-6 | Z | .035 | 2.5 |
| 49 | MP-7 | Z | .06 | 1.5 |
| 50 | MP-8 | Z | .069 | 1.5 |
| 51 | MP-8 | Z | .024 | 2.5 |
| 52 | MP-8 | Z | .007 | 3.5 |
| 53 | MP-9 | Z | .069 | 1.5 |
| 54 | MP-10 | Z | .214 | 1.5 |
| 55 | MP-10 | Z | .035 | 2.5 |
| 56 | MP-10 | Z | .035 | 2.5 |
| 57 | MP-11 | Z | .06 | 1.5 |
| 58 | MP-12 | Z | .069 | 1.5 |
| 59 | MP-12 | Z | .024 | 2.5 |
| 60 | MP-12 | Z | .007 | 3.5 |
| 61 | MP-1 | Z | .065 | 4.5 |
| 62 | MP-2 | Z | .187 | 7.5 |
| 63 | MP-3 | Z | .052 | 4 |
| 64 | MP-4 | Z | .059 | 5.5 |
| 65 | MP-5 | Z | .069 | 4.5 |
| 66 | MP-6 | Z | .214 | 7.5 |
| 67 | MP-7 | Z | .06 | 4 |
| 68 | MP-8 | Z | .069 | 5.5 |
| 69 | MP-9 | Z | .069 | 4.5 |
| 70 | MP-10 | Z | .214 | 7.5 |
| 71 | MP-11 | Z | .06 | 4 |
| 72 | MP-12 | Z | .069 | 5.5 |

Member Point Loads (BLC 18 : Ice Weight)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|--|--------------|-----------|-------------------|----------------|
|--|--------------|-----------|-------------------|----------------|



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Member Point Loads (BLC 18 : Ice Weight) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Y | -074 | 1.5 |
| 2 | MP-2 | Y | -176 | 1.5 |
| 3 | MP-2 | Y | -043 | 2.5 |
| 4 | MP-2 | Y | -058 | 2.5 |
| 5 | MP-3 | Y | -063 | 1.5 |
| 6 | MP-4 | Y | -055 | 1.5 |
| 7 | MP-4 | Y | -019 | 2.5 |
| 8 | MP-4 | Y | -012 | 3.5 |
| 9 | MP-5 | Y | -074 | 1.5 |
| 10 | MP-6 | Y | -176 | 1.5 |
| 11 | MP-6 | Y | -043 | 2.5 |
| 12 | MP-6 | Y | -058 | 2.5 |
| 13 | MP-7 | Y | -063 | 1.5 |
| 14 | MP-8 | Y | -055 | 1.5 |
| 15 | MP-8 | Y | -038 | 2.5 |
| 16 | MP-8 | Y | -012 | 3.5 |
| 17 | MP-9 | Y | -074 | 1.5 |
| 18 | MP-10 | Y | -176 | 1.5 |
| 19 | MP-10 | Y | -043 | 2.5 |
| 20 | MP-10 | Y | -058 | 2.5 |
| 21 | MP-11 | Y | -063 | 1.5 |
| 22 | MP-12 | Y | -055 | 1.5 |
| 23 | MP-12 | Y | -038 | 2.5 |
| 24 | MP-12 | Y | -012 | 3.5 |
| 25 | MP-1 | Y | -074 | 4.5 |
| 26 | MP-2 | Y | -176 | 7.5 |
| 27 | MP-3 | Y | -063 | 4 |
| 28 | MP-4 | Y | -055 | 5.5 |
| 29 | MP-5 | Y | -074 | 4.5 |
| 30 | MP-6 | Y | -176 | 7.5 |
| 31 | MP-7 | Y | -063 | 4 |
| 32 | MP-8 | Y | -055 | 5.5 |
| 33 | MP-9 | Y | -074 | 4.5 |
| 34 | MP-10 | Y | -176 | 7.5 |
| 35 | MP-11 | Y | -063 | 4 |
| 36 | MP-12 | Y | -055 | 5.5 |

Member Point Loads (BLC 19 : 0 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -03 | 1.5 |
| 2 | MP-2 | X | -084 | 1.5 |
| 3 | MP-2 | X | -017 | 2.5 |
| 4 | MP-2 | X | -017 | 2.5 |
| 5 | MP-3 | X | -025 | 1.5 |
| 6 | MP-4 | X | -03 | 1.5 |
| 7 | MP-4 | X | -008 | 2.5 |
| 8 | MP-4 | X | -005 | 3.5 |
| 9 | MP-5 | X | -03 | 1.5 |
| 10 | MP-6 | X | -084 | 1.5 |
| 11 | MP-6 | X | -017 | 2.5 |
| 12 | MP-6 | X | -017 | 2.5 |
| 13 | MP-7 | X | -025 | 1.5 |
| 14 | MP-8 | X | -03 | 1.5 |
| 15 | MP-8 | X | -015 | 2.5 |
| 16 | MP-8 | X | -005 | 3.5 |
| 17 | MP-9 | X | -03 | 1.5 |



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Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 18 | MP-10 | X | -084 | 1.5 |
| 19 | MP-10 | X | -017 | 2.5 |
| 20 | MP-10 | X | -017 | 2.5 |
| 21 | MP-11 | X | -025 | 1.5 |
| 22 | MP-12 | X | -03 | 1.5 |
| 23 | MP-12 | X | -015 | 2.5 |
| 24 | MP-12 | X | -005 | 3.5 |
| 25 | MP-1 | X | -03 | 4.5 |
| 26 | MP-2 | X | -084 | 7.5 |
| 27 | MP-3 | X | -025 | 4 |
| 28 | MP-4 | X | -03 | 5.5 |
| 29 | MP-5 | X | -03 | 4.5 |
| 30 | MP-6 | X | -084 | 7.5 |
| 31 | MP-7 | X | -025 | 4 |
| 32 | MP-8 | X | -03 | 5.5 |
| 33 | MP-9 | X | -03 | 4.5 |
| 34 | MP-10 | X | -084 | 7.5 |
| 35 | MP-11 | X | -025 | 4 |
| 36 | MP-12 | X | -03 | 5.5 |

Member Point Loads (BLC 20 : 30 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -024 | 1.5 |
| 2 | MP-2 | X | -063 | 1.5 |
| 3 | MP-2 | X | -013 | 2.5 |
| 4 | MP-2 | X | -014 | 2.5 |
| 5 | MP-3 | X | -019 | 1.5 |
| 6 | MP-4 | X | -022 | 1.5 |
| 7 | MP-4 | X | -006 | 2.5 |
| 8 | MP-4 | X | -004 | 3.5 |
| 9 | MP-5 | X | -022 | 1.5 |
| 10 | MP-6 | X | -051 | 1.5 |
| 11 | MP-6 | X | -011 | 2.5 |
| 12 | MP-6 | X | -014 | 2.5 |
| 13 | MP-7 | X | -016 | 1.5 |
| 14 | MP-8 | X | -017 | 1.5 |
| 15 | MP-8 | X | -011 | 2.5 |
| 16 | MP-8 | X | -004 | 3.5 |
| 17 | MP-9 | X | -022 | 1.5 |
| 18 | MP-10 | X | -051 | 1.5 |
| 19 | MP-10 | X | -011 | 2.5 |
| 20 | MP-10 | X | -014 | 2.5 |
| 21 | MP-11 | X | -016 | 1.5 |
| 22 | MP-12 | X | -017 | 1.5 |
| 23 | MP-12 | X | -011 | 2.5 |
| 24 | MP-12 | X | -004 | 3.5 |
| 25 | MP-1 | X | -024 | 4.5 |
| 26 | MP-2 | X | -063 | 7.5 |
| 27 | MP-3 | X | -019 | 4 |
| 28 | MP-4 | X | -022 | 5.5 |
| 29 | MP-5 | X | -022 | 4.5 |
| 30 | MP-6 | X | -051 | 7.5 |
| 31 | MP-7 | X | -016 | 4 |
| 32 | MP-8 | X | -017 | 5.5 |
| 33 | MP-9 | X | -022 | 4.5 |
| 34 | MP-10 | X | -051 | 7.5 |



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Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 35 | MP-11 | X | -016 | 4 |
| 36 | MP-12 | X | -017 | 5.5 |
| 37 | MP-1 | Z | -014 | 1.5 |
| 38 | MP-2 | Z | -037 | 1.5 |
| 39 | MP-2 | Z | -008 | 2.5 |
| 40 | MP-2 | Z | -008 | 2.5 |
| 41 | MP-3 | Z | -011 | 1.5 |
| 42 | MP-4 | Z | -013 | 1.5 |
| 43 | MP-4 | Z | -004 | 2.5 |
| 44 | MP-4 | Z | -002 | 3.5 |
| 45 | MP-5 | Z | -013 | 1.5 |
| 46 | MP-6 | Z | -03 | 1.5 |
| 47 | MP-6 | Z | -006 | 2.5 |
| 48 | MP-6 | Z | -008 | 2.5 |
| 49 | MP-7 | Z | -009 | 1.5 |
| 50 | MP-8 | Z | -01 | 1.5 |
| 51 | MP-8 | Z | -006 | 2.5 |
| 52 | MP-8 | Z | -002 | 3.5 |
| 53 | MP-9 | Z | -013 | 1.5 |
| 54 | MP-10 | Z | -03 | 1.5 |
| 55 | MP-10 | Z | -006 | 2.5 |
| 56 | MP-10 | Z | -008 | 2.5 |
| 57 | MP-11 | Z | -009 | 1.5 |
| 58 | MP-12 | Z | -01 | 1.5 |
| 59 | MP-12 | Z | -006 | 2.5 |
| 60 | MP-12 | Z | -002 | 3.5 |
| 61 | MP-1 | Z | -014 | 4.5 |
| 62 | MP-2 | Z | -037 | 7.5 |
| 63 | MP-3 | Z | -011 | 4 |
| 64 | MP-4 | Z | -013 | 5.5 |
| 65 | MP-5 | Z | -013 | 4.5 |
| 66 | MP-6 | Z | -03 | 7.5 |
| 67 | MP-7 | Z | -009 | 4 |
| 68 | MP-8 | Z | -01 | 5.5 |
| 69 | MP-9 | Z | -013 | 4.5 |
| 70 | MP-10 | Z | -03 | 7.5 |
| 71 | MP-11 | Z | -009 | 4 |
| 72 | MP-12 | Z | -01 | 5.5 |

Member Point Loads (BLC 21 : 45 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -019 | 1.5 |
| 2 | MP-2 | X | -044 | 1.5 |
| 3 | MP-2 | X | -009 | 2.5 |
| 4 | MP-2 | X | -011 | 2.5 |
| 5 | MP-3 | X | -014 | 1.5 |
| 6 | MP-4 | X | -015 | 1.5 |
| 7 | MP-4 | X | -005 | 2.5 |
| 8 | MP-4 | X | -003 | 3.5 |
| 9 | MP-5 | X | -017 | 1.5 |
| 10 | MP-6 | X | -035 | 1.5 |
| 11 | MP-6 | X | -007 | 2.5 |
| 12 | MP-6 | X | -011 | 2.5 |
| 13 | MP-7 | X | -011 | 1.5 |
| 14 | MP-8 | X | -011 | 1.5 |
| 15 | MP-8 | X | -009 | 2.5 |



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 Designer : AEW
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Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 16 | MP-8 | X | -0.03 | 3.5 |
| 17 | MP-9 | X | -0.17 | 1.5 |
| 18 | MP-10 | X | -0.35 | 1.5 |
| 19 | MP-10 | X | -0.07 | 2.5 |
| 20 | MP-10 | X | -0.11 | 2.5 |
| 21 | MP-11 | X | -0.11 | 1.5 |
| 22 | MP-12 | X | -0.11 | 1.5 |
| 23 | MP-12 | X | -0.09 | 2.5 |
| 24 | MP-12 | X | -0.03 | 3.5 |
| 25 | MP-1 | X | -0.19 | 4.5 |
| 26 | MP-2 | X | -0.44 | 7.5 |
| 27 | MP-3 | X | -0.14 | 4 |
| 28 | MP-4 | X | -0.15 | 5.5 |
| 29 | MP-5 | X | -0.17 | 4.5 |
| 30 | MP-6 | X | -0.35 | 7.5 |
| 31 | MP-7 | X | -0.11 | 4 |
| 32 | MP-8 | X | -0.11 | 5.5 |
| 33 | MP-9 | X | -0.17 | 4.5 |
| 34 | MP-10 | X | -0.35 | 7.5 |
| 35 | MP-11 | X | -0.11 | 4 |
| 36 | MP-12 | X | -0.11 | 5.5 |
| 37 | MP-1 | Z | -0.19 | 1.5 |
| 38 | MP-2 | Z | -0.44 | 1.5 |
| 39 | MP-2 | Z | -0.09 | 2.5 |
| 40 | MP-2 | Z | -0.11 | 2.5 |
| 41 | MP-3 | Z | -0.14 | 1.5 |
| 42 | MP-4 | Z | -0.15 | 1.5 |
| 43 | MP-4 | Z | -0.05 | 2.5 |
| 44 | MP-4 | Z | -0.03 | 3.5 |
| 45 | MP-5 | Z | -0.17 | 1.5 |
| 46 | MP-6 | Z | -0.35 | 1.5 |
| 47 | MP-6 | Z | -0.07 | 2.5 |
| 48 | MP-6 | Z | -0.11 | 2.5 |
| 49 | MP-7 | Z | -0.11 | 1.5 |
| 50 | MP-8 | Z | -0.11 | 1.5 |
| 51 | MP-8 | Z | -0.09 | 2.5 |
| 52 | MP-8 | Z | -0.03 | 3.5 |
| 53 | MP-9 | Z | -0.17 | 1.5 |
| 54 | MP-10 | Z | -0.35 | 1.5 |
| 55 | MP-10 | Z | -0.07 | 2.5 |
| 56 | MP-10 | Z | -0.11 | 2.5 |
| 57 | MP-11 | Z | -0.11 | 1.5 |
| 58 | MP-12 | Z | -0.11 | 1.5 |
| 59 | MP-12 | Z | -0.09 | 2.5 |
| 60 | MP-12 | Z | -0.03 | 3.5 |
| 61 | MP-1 | Z | -0.19 | 4.5 |
| 62 | MP-2 | Z | -0.44 | 7.5 |
| 63 | MP-3 | Z | -0.14 | 4 |
| 64 | MP-4 | Z | -0.15 | 5.5 |
| 65 | MP-5 | Z | -0.17 | 4.5 |
| 66 | MP-6 | Z | -0.35 | 7.5 |
| 67 | MP-7 | Z | -0.11 | 4 |
| 68 | MP-8 | Z | -0.11 | 5.5 |
| 69 | MP-9 | Z | -0.17 | 4.5 |
| 70 | MP-10 | Z | -0.35 | 7.5 |
| 71 | MP-11 | Z | -0.11 | 4 |
| 72 | MP-12 | Z | -0.11 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 22 : 60 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -0.12 | 1.5 |
| 2 | MP-2 | X | -0.26 | 1.5 |
| 3 | MP-2 | X | -0.06 | 2.5 |
| 4 | MP-2 | X | -0.08 | 2.5 |
| 5 | MP-3 | X | -0.08 | 1.5 |
| 6 | MP-4 | X | -0.09 | 1.5 |
| 7 | MP-4 | X | -0.03 | 2.5 |
| 8 | MP-4 | X | -0.02 | 3.5 |
| 9 | MP-5 | X | -0.12 | 1.5 |
| 10 | MP-6 | X | -0.22 | 1.5 |
| 11 | MP-6 | X | -0.05 | 2.5 |
| 12 | MP-6 | X | -0.07 | 2.5 |
| 13 | MP-7 | X | -0.07 | 1.5 |
| 14 | MP-8 | X | -0.07 | 1.5 |
| 15 | MP-8 | X | -0.06 | 2.5 |
| 16 | MP-8 | X | -0.02 | 3.5 |
| 17 | MP-9 | X | -0.12 | 1.5 |
| 18 | MP-10 | X | -0.22 | 1.5 |
| 19 | MP-10 | X | -0.05 | 2.5 |
| 20 | MP-10 | X | -0.07 | 2.5 |
| 21 | MP-11 | X | -0.07 | 1.5 |
| 22 | MP-12 | X | -0.07 | 1.5 |
| 23 | MP-12 | X | -0.06 | 2.5 |
| 24 | MP-12 | X | -0.02 | 3.5 |
| 25 | MP-1 | X | -0.12 | 4.5 |
| 26 | MP-2 | X | -0.26 | 7.5 |
| 27 | MP-3 | X | -0.08 | 4 |
| 28 | MP-4 | X | -0.09 | 5.5 |
| 29 | MP-5 | X | -0.12 | 4.5 |
| 30 | MP-6 | X | -0.22 | 7.5 |
| 31 | MP-7 | X | -0.07 | 4 |
| 32 | MP-8 | X | -0.07 | 5.5 |
| 33 | MP-9 | X | -0.12 | 4.5 |
| 34 | MP-10 | X | -0.22 | 7.5 |
| 35 | MP-11 | X | -0.07 | 4 |
| 36 | MP-12 | X | -0.07 | 5.5 |
| 37 | MP-1 | Z | -0.21 | 1.5 |
| 38 | MP-2 | Z | -0.45 | 1.5 |
| 39 | MP-2 | Z | -0.1 | 2.5 |
| 40 | MP-2 | Z | -0.13 | 2.5 |
| 41 | MP-3 | Z | -0.14 | 1.5 |
| 42 | MP-4 | Z | -0.15 | 1.5 |
| 43 | MP-4 | Z | -0.05 | 2.5 |
| 44 | MP-4 | Z | -0.03 | 3.5 |
| 45 | MP-5 | Z | -0.2 | 1.5 |
| 46 | MP-6 | Z | -0.37 | 1.5 |
| 47 | MP-6 | Z | -0.08 | 2.5 |
| 48 | MP-6 | Z | -0.13 | 2.5 |
| 49 | MP-7 | Z | -0.11 | 1.5 |
| 50 | MP-8 | Z | -0.12 | 1.5 |
| 51 | MP-8 | Z | -0.1 | 2.5 |
| 52 | MP-8 | Z | -0.03 | 3.5 |
| 53 | MP-9 | Z | -0.2 | 1.5 |
| 54 | MP-10 | Z | -0.37 | 1.5 |
| 55 | MP-10 | Z | -0.08 | 2.5 |
| 56 | MP-10 | Z | -0.13 | 2.5 |
| 57 | MP-11 | Z | -0.11 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | -0.12 | 1.5 |
| 59 | MP-12 | Z | -0.01 | 2.5 |
| 60 | MP-12 | Z | -0.003 | 3.5 |
| 61 | MP-1 | Z | -0.21 | 4.5 |
| 62 | MP-2 | Z | -0.45 | 7.5 |
| 63 | MP-3 | Z | -0.14 | 4 |
| 64 | MP-4 | Z | -0.15 | 5.5 |
| 65 | MP-5 | Z | -0.02 | 4.5 |
| 66 | MP-6 | Z | -0.037 | 7.5 |
| 67 | MP-7 | Z | -0.11 | 4 |
| 68 | MP-8 | Z | -0.12 | 5.5 |
| 69 | MP-9 | Z | -0.02 | 4.5 |
| 70 | MP-10 | Z | -0.037 | 7.5 |
| 71 | MP-11 | Z | -0.11 | 4 |
| 72 | MP-12 | Z | -0.12 | 5.5 |

Member Point Loads (BLC 23 : 90 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | -0.23 | 1.5 |
| 2 | MP-2 | Z | -0.42 | 1.5 |
| 3 | MP-2 | Z | -0.009 | 2.5 |
| 4 | MP-2 | Z | -0.14 | 2.5 |
| 5 | MP-3 | Z | -0.13 | 1.5 |
| 6 | MP-4 | Z | -0.13 | 1.5 |
| 7 | MP-4 | Z | -0.006 | 2.5 |
| 8 | MP-4 | Z | -0.003 | 3.5 |
| 9 | MP-5 | Z | -0.23 | 1.5 |
| 10 | MP-6 | Z | -0.42 | 1.5 |
| 11 | MP-6 | Z | -0.009 | 2.5 |
| 12 | MP-6 | Z | -0.14 | 2.5 |
| 13 | MP-7 | Z | -0.13 | 1.5 |
| 14 | MP-8 | Z | -0.13 | 1.5 |
| 15 | MP-8 | Z | -0.11 | 2.5 |
| 16 | MP-8 | Z | -0.003 | 3.5 |
| 17 | MP-9 | Z | -0.23 | 1.5 |
| 18 | MP-10 | Z | -0.42 | 1.5 |
| 19 | MP-10 | Z | -0.009 | 2.5 |
| 20 | MP-10 | Z | -0.14 | 2.5 |
| 21 | MP-11 | Z | -0.13 | 1.5 |
| 22 | MP-12 | Z | -0.13 | 1.5 |
| 23 | MP-12 | Z | -0.11 | 2.5 |
| 24 | MP-12 | Z | -0.003 | 3.5 |
| 25 | MP-1 | Z | -0.23 | 4.5 |
| 26 | MP-2 | Z | -0.42 | 7.5 |
| 27 | MP-3 | Z | -0.13 | 4 |
| 28 | MP-4 | Z | -0.13 | 5.5 |
| 29 | MP-5 | Z | -0.23 | 4.5 |
| 30 | MP-6 | Z | -0.42 | 7.5 |
| 31 | MP-7 | Z | -0.13 | 4 |
| 32 | MP-8 | Z | -0.13 | 5.5 |
| 33 | MP-9 | Z | -0.23 | 4.5 |
| 34 | MP-10 | Z | -0.42 | 7.5 |
| 35 | MP-11 | Z | -0.13 | 4 |
| 36 | MP-12 | Z | -0.13 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 24 : 120 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .012 | 1.5 |
| 2 | MP-2 | X | .026 | 1.5 |
| 3 | MP-2 | X | .006 | 2.5 |
| 4 | MP-2 | X | .008 | 2.5 |
| 5 | MP-3 | X | .008 | 1.5 |
| 6 | MP-4 | X | .009 | 1.5 |
| 7 | MP-4 | X | .003 | 2.5 |
| 8 | MP-4 | X | .002 | 3.5 |
| 9 | MP-5 | X | .013 | 1.5 |
| 10 | MP-6 | X | .033 | 1.5 |
| 11 | MP-6 | X | .007 | 2.5 |
| 12 | MP-6 | X | .008 | 2.5 |
| 13 | MP-7 | X | .01 | 1.5 |
| 14 | MP-8 | X | .012 | 1.5 |
| 15 | MP-8 | X | .007 | 2.5 |
| 16 | MP-8 | X | .002 | 3.5 |
| 17 | MP-9 | X | .013 | 1.5 |
| 18 | MP-10 | X | .033 | 1.5 |
| 19 | MP-10 | X | .007 | 2.5 |
| 20 | MP-10 | X | .008 | 2.5 |
| 21 | MP-11 | X | .01 | 1.5 |
| 22 | MP-12 | X | .012 | 1.5 |
| 23 | MP-12 | X | .007 | 2.5 |
| 24 | MP-12 | X | .002 | 3.5 |
| 25 | MP-1 | X | .012 | 4.5 |
| 26 | MP-2 | X | .026 | 7.5 |
| 27 | MP-3 | X | .008 | 4 |
| 28 | MP-4 | X | .009 | 5.5 |
| 29 | MP-5 | X | .013 | 4.5 |
| 30 | MP-6 | X | .033 | 7.5 |
| 31 | MP-7 | X | .01 | 4 |
| 32 | MP-8 | X | .012 | 5.5 |
| 33 | MP-9 | X | .013 | 4.5 |
| 34 | MP-10 | X | .033 | 7.5 |
| 35 | MP-11 | X | .01 | 4 |
| 36 | MP-12 | X | .012 | 5.5 |
| 37 | MP-1 | Z | -0.21 | 1.5 |
| 38 | MP-2 | Z | -0.45 | 1.5 |
| 39 | MP-2 | Z | -0.01 | 2.5 |
| 40 | MP-2 | Z | -0.13 | 2.5 |
| 41 | MP-3 | Z | -0.14 | 1.5 |
| 42 | MP-4 | Z | -0.15 | 1.5 |
| 43 | MP-4 | Z | -0.005 | 2.5 |
| 44 | MP-4 | Z | -0.003 | 3.5 |
| 45 | MP-5 | Z | -0.23 | 1.5 |
| 46 | MP-6 | Z | -0.057 | 1.5 |
| 47 | MP-6 | Z | -0.12 | 2.5 |
| 48 | MP-6 | Z | -0.14 | 2.5 |
| 49 | MP-7 | Z | -0.18 | 1.5 |
| 50 | MP-8 | Z | -0.02 | 1.5 |
| 51 | MP-8 | Z | -0.12 | 2.5 |
| 52 | MP-8 | Z | -0.004 | 3.5 |
| 53 | MP-9 | Z | -0.23 | 1.5 |
| 54 | MP-10 | Z | -0.057 | 1.5 |
| 55 | MP-10 | Z | -0.12 | 2.5 |
| 56 | MP-10 | Z | -0.14 | 2.5 |
| 57 | MP-11 | Z | -0.18 | 1.5 |



Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | -02 | 1.5 |
| 59 | MP-12 | Z | -012 | 2.5 |
| 60 | MP-12 | Z | -004 | 3.5 |
| 61 | MP-1 | Z | -021 | 4.5 |
| 62 | MP-2 | Z | -045 | 7.5 |
| 63 | MP-3 | Z | -014 | 4 |
| 64 | MP-4 | Z | -015 | 5.5 |
| 65 | MP-5 | Z | -023 | 4.5 |
| 66 | MP-6 | Z | -057 | 7.5 |
| 67 | MP-7 | Z | -018 | 4 |
| 68 | MP-8 | Z | -02 | 5.5 |
| 69 | MP-9 | Z | -023 | 4.5 |
| 70 | MP-10 | Z | -057 | 7.5 |
| 71 | MP-11 | Z | -018 | 4 |
| 72 | MP-12 | Z | -02 | 5.5 |

Member Point Loads (BLC 25 : 135 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .019 | 1.5 |
| 2 | MP-2 | X | .044 | 1.5 |
| 3 | MP-2 | X | .009 | 2.5 |
| 4 | MP-2 | X | .011 | 2.5 |
| 5 | MP-3 | X | .014 | 1.5 |
| 6 | MP-4 | X | .015 | 1.5 |
| 7 | MP-4 | X | .005 | 2.5 |
| 8 | MP-4 | X | .003 | 3.5 |
| 9 | MP-5 | X | .02 | 1.5 |
| 10 | MP-6 | X | .054 | 1.5 |
| 11 | MP-6 | X | .011 | 2.5 |
| 12 | MP-6 | X | .012 | 2.5 |
| 13 | MP-7 | X | .016 | 1.5 |
| 14 | MP-8 | X | .019 | 1.5 |
| 15 | MP-8 | X | .01 | 2.5 |
| 16 | MP-8 | X | .004 | 3.5 |
| 17 | MP-9 | X | .02 | 1.5 |
| 18 | MP-10 | X | .054 | 1.5 |
| 19 | MP-10 | X | .011 | 2.5 |
| 20 | MP-10 | X | .012 | 2.5 |
| 21 | MP-11 | X | .016 | 1.5 |
| 22 | MP-12 | X | .019 | 1.5 |
| 23 | MP-12 | X | .01 | 2.5 |
| 24 | MP-12 | X | .004 | 3.5 |
| 25 | MP-1 | X | .019 | 4.5 |
| 26 | MP-2 | X | .044 | 7.5 |
| 27 | MP-3 | X | .014 | 4 |
| 28 | MP-4 | X | .015 | 5.5 |
| 29 | MP-5 | X | .02 | 4.5 |
| 30 | MP-6 | X | .054 | 7.5 |
| 31 | MP-7 | X | .016 | 4 |
| 32 | MP-8 | X | .019 | 5.5 |
| 33 | MP-9 | X | .02 | 4.5 |
| 34 | MP-10 | X | .054 | 7.5 |
| 35 | MP-11 | X | .016 | 4 |
| 36 | MP-12 | X | .019 | 5.5 |
| 37 | MP-1 | Z | -019 | 1.5 |
| 38 | MP-2 | Z | -044 | 1.5 |



Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 39 | MP-2 | Z | -009 | 2.5 |
| 40 | MP-2 | Z | -011 | 2.5 |
| 41 | MP-3 | Z | -014 | 1.5 |
| 42 | MP-4 | Z | -015 | 1.5 |
| 43 | MP-4 | Z | -005 | 2.5 |
| 44 | MP-4 | Z | -003 | 3.5 |
| 45 | MP-5 | Z | -02 | 1.5 |
| 46 | MP-6 | Z | -054 | 1.5 |
| 47 | MP-6 | Z | -011 | 2.5 |
| 48 | MP-6 | Z | -012 | 2.5 |
| 49 | MP-7 | Z | -016 | 1.5 |
| 50 | MP-8 | Z | -019 | 1.5 |
| 51 | MP-8 | Z | -01 | 2.5 |
| 52 | MP-8 | Z | -004 | 3.5 |
| 53 | MP-9 | Z | -02 | 1.5 |
| 54 | MP-10 | Z | -054 | 1.5 |
| 55 | MP-10 | Z | -011 | 2.5 |
| 56 | MP-10 | Z | -012 | 2.5 |
| 57 | MP-11 | Z | -016 | 1.5 |
| 58 | MP-12 | Z | -019 | 1.5 |
| 59 | MP-12 | Z | -01 | 2.5 |
| 60 | MP-12 | Z | -004 | 3.5 |
| 61 | MP-1 | Z | -019 | 4.5 |
| 62 | MP-2 | Z | -044 | 7.5 |
| 63 | MP-3 | Z | -014 | 4 |
| 64 | MP-4 | Z | -015 | 5.5 |
| 65 | MP-5 | Z | -02 | 4.5 |
| 66 | MP-6 | Z | -054 | 7.5 |
| 67 | MP-7 | Z | -016 | 4 |
| 68 | MP-8 | Z | -019 | 5.5 |
| 69 | MP-9 | Z | -02 | 4.5 |
| 70 | MP-10 | Z | -054 | 7.5 |
| 71 | MP-11 | Z | -016 | 4 |
| 72 | MP-12 | Z | -019 | 5.5 |

Member Point Loads (BLC 26 : 150 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .024 | 1.5 |
| 2 | MP-2 | X | .063 | 1.5 |
| 3 | MP-2 | X | .013 | 2.5 |
| 4 | MP-2 | X | .014 | 2.5 |
| 5 | MP-3 | X | .019 | 1.5 |
| 6 | MP-4 | X | .022 | 1.5 |
| 7 | MP-4 | X | .006 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .026 | 1.5 |
| 10 | MP-6 | X | .071 | 1.5 |
| 11 | MP-6 | X | .015 | 2.5 |
| 12 | MP-6 | X | .015 | 2.5 |
| 13 | MP-7 | X | .022 | 1.5 |
| 14 | MP-8 | X | .025 | 1.5 |
| 15 | MP-8 | X | .013 | 2.5 |
| 16 | MP-8 | X | .005 | 3.5 |
| 17 | MP-9 | X | .026 | 1.5 |
| 18 | MP-10 | X | .071 | 1.5 |
| 19 | MP-10 | X | .015 | 2.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 20 | MP-10 | X | .015 | 2.5 |
| 21 | MP-11 | X | .022 | 1.5 |
| 22 | MP-12 | X | .025 | 1.5 |
| 23 | MP-12 | X | .013 | 2.5 |
| 24 | MP-12 | X | .005 | 3.5 |
| 25 | MP-1 | X | .024 | 4.5 |
| 26 | MP-2 | X | .063 | 7.5 |
| 27 | MP-3 | X | .019 | 4 |
| 28 | MP-4 | X | .022 | 5.5 |
| 29 | MP-5 | X | .026 | 4.5 |
| 30 | MP-6 | X | .071 | 7.5 |
| 31 | MP-7 | X | .022 | 4 |
| 32 | MP-8 | X | .025 | 5.5 |
| 33 | MP-9 | X | .026 | 4.5 |
| 34 | MP-10 | X | .071 | 7.5 |
| 35 | MP-11 | X | .022 | 4 |
| 36 | MP-12 | X | .025 | 5.5 |
| 37 | MP-1 | Z | -.014 | 1.5 |
| 38 | MP-2 | Z | -.037 | 1.5 |
| 39 | MP-2 | Z | -.008 | 2.5 |
| 40 | MP-2 | Z | -.008 | 2.5 |
| 41 | MP-3 | Z | -.011 | 1.5 |
| 42 | MP-4 | Z | -.013 | 1.5 |
| 43 | MP-4 | Z | -.004 | 2.5 |
| 44 | MP-4 | Z | -.002 | 3.5 |
| 45 | MP-5 | Z | -.015 | 1.5 |
| 46 | MP-6 | Z | -.041 | 1.5 |
| 47 | MP-6 | Z | -.009 | 2.5 |
| 48 | MP-6 | Z | -.009 | 2.5 |
| 49 | MP-7 | Z | -.013 | 1.5 |
| 50 | MP-8 | Z | -.015 | 1.5 |
| 51 | MP-8 | Z | -.007 | 2.5 |
| 52 | MP-8 | Z | -.003 | 3.5 |
| 53 | MP-9 | Z | -.015 | 1.5 |
| 54 | MP-10 | Z | -.041 | 1.5 |
| 55 | MP-10 | Z | -.009 | 2.5 |
| 56 | MP-10 | Z | -.009 | 2.5 |
| 57 | MP-11 | Z | -.013 | 1.5 |
| 58 | MP-12 | Z | -.015 | 1.5 |
| 59 | MP-12 | Z | -.007 | 2.5 |
| 60 | MP-12 | Z | -.003 | 3.5 |
| 61 | MP-1 | Z | -.014 | 4.5 |
| 62 | MP-2 | Z | -.037 | 7.5 |
| 63 | MP-3 | Z | -.011 | 4 |
| 64 | MP-4 | Z | -.013 | 5.5 |
| 65 | MP-5 | Z | -.015 | 4.5 |
| 66 | MP-6 | Z | -.041 | 7.5 |
| 67 | MP-7 | Z | -.013 | 4 |
| 68 | MP-8 | Z | -.015 | 5.5 |
| 69 | MP-9 | Z | -.015 | 4.5 |
| 70 | MP-10 | Z | -.041 | 7.5 |
| 71 | MP-11 | Z | -.013 | 4 |
| 72 | MP-12 | Z | -.015 | 5.5 |

Member Point Loads (BLC 27 : 180 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|--|--------------|-----------|-------------------|----------------|
|--|--------------|-----------|-------------------|----------------|



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 27 : 180 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .03 | 1.5 |
| 2 | MP-2 | X | .084 | 1.5 |
| 3 | MP-2 | X | .017 | 2.5 |
| 4 | MP-2 | X | .017 | 2.5 |
| 5 | MP-3 | X | .025 | 1.5 |
| 6 | MP-4 | X | .03 | 1.5 |
| 7 | MP-4 | X | .008 | 2.5 |
| 8 | MP-4 | X | .005 | 3.5 |
| 9 | MP-5 | X | .03 | 1.5 |
| 10 | MP-6 | X | .084 | 1.5 |
| 11 | MP-6 | X | .017 | 2.5 |
| 12 | MP-6 | X | .017 | 2.5 |
| 13 | MP-7 | X | .025 | 1.5 |
| 14 | MP-8 | X | .03 | 1.5 |
| 15 | MP-8 | X | .015 | 2.5 |
| 16 | MP-8 | X | .005 | 3.5 |
| 17 | MP-9 | X | .03 | 1.5 |
| 18 | MP-10 | X | .084 | 1.5 |
| 19 | MP-10 | X | .017 | 2.5 |
| 20 | MP-10 | X | .017 | 2.5 |
| 21 | MP-11 | X | .025 | 1.5 |
| 22 | MP-12 | X | .03 | 1.5 |
| 23 | MP-12 | X | .015 | 2.5 |
| 24 | MP-12 | X | .005 | 3.5 |
| 25 | MP-1 | X | .03 | 4.5 |
| 26 | MP-2 | X | .084 | 7.5 |
| 27 | MP-3 | X | .025 | 4 |
| 28 | MP-4 | X | .03 | 5.5 |
| 29 | MP-5 | X | .03 | 4.5 |
| 30 | MP-6 | X | .084 | 7.5 |
| 31 | MP-7 | X | .025 | 4 |
| 32 | MP-8 | X | .03 | 5.5 |
| 33 | MP-9 | X | .03 | 4.5 |
| 34 | MP-10 | X | .084 | 7.5 |
| 35 | MP-11 | X | .025 | 4 |
| 36 | MP-12 | X | .03 | 5.5 |

Member Point Loads (BLC 28 : 210 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .024 | 1.5 |
| 2 | MP-2 | X | .063 | 1.5 |
| 3 | MP-2 | X | .013 | 2.5 |
| 4 | MP-2 | X | .014 | 2.5 |
| 5 | MP-3 | X | .019 | 1.5 |
| 6 | MP-4 | X | .022 | 1.5 |
| 7 | MP-4 | X | .006 | 2.5 |
| 8 | MP-4 | X | .004 | 3.5 |
| 9 | MP-5 | X | .022 | 1.5 |
| 10 | MP-6 | X | .051 | 1.5 |
| 11 | MP-6 | X | .011 | 2.5 |
| 12 | MP-6 | X | .014 | 2.5 |
| 13 | MP-7 | X | .016 | 1.5 |
| 14 | MP-8 | X | .017 | 1.5 |
| 15 | MP-8 | X | .011 | 2.5 |
| 16 | MP-8 | X | .004 | 3.5 |
| 17 | MP-9 | X | .022 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 18 | MP-10 | X | .051 | 1.5 |
| 19 | MP-10 | X | .011 | 2.5 |
| 20 | MP-10 | X | .014 | 2.5 |
| 21 | MP-11 | X | .016 | 1.5 |
| 22 | MP-12 | X | .017 | 1.5 |
| 23 | MP-12 | X | .011 | 2.5 |
| 24 | MP-12 | X | .004 | 3.5 |
| 25 | MP-1 | X | .024 | 4.5 |
| 26 | MP-2 | X | .063 | 7.5 |
| 27 | MP-3 | X | .019 | 4 |
| 28 | MP-4 | X | .022 | 5.5 |
| 29 | MP-5 | X | .022 | 4.5 |
| 30 | MP-6 | X | .051 | 7.5 |
| 31 | MP-7 | X | .016 | 4 |
| 32 | MP-8 | X | .017 | 5.5 |
| 33 | MP-9 | X | .022 | 4.5 |
| 34 | MP-10 | X | .051 | 7.5 |
| 35 | MP-11 | X | .016 | 4 |
| 36 | MP-12 | X | .017 | 5.5 |
| 37 | MP-1 | Z | .014 | 1.5 |
| 38 | MP-2 | Z | .037 | 1.5 |
| 39 | MP-2 | Z | .008 | 2.5 |
| 40 | MP-2 | Z | .008 | 2.5 |
| 41 | MP-3 | Z | .011 | 1.5 |
| 42 | MP-4 | Z | .013 | 1.5 |
| 43 | MP-4 | Z | .004 | 2.5 |
| 44 | MP-4 | Z | .002 | 3.5 |
| 45 | MP-5 | Z | .013 | 1.5 |
| 46 | MP-6 | Z | .03 | 1.5 |
| 47 | MP-6 | Z | .006 | 2.5 |
| 48 | MP-6 | Z | .008 | 2.5 |
| 49 | MP-7 | Z | .009 | 1.5 |
| 50 | MP-8 | Z | .01 | 1.5 |
| 51 | MP-8 | Z | .006 | 2.5 |
| 52 | MP-8 | Z | .002 | 3.5 |
| 53 | MP-9 | Z | .013 | 1.5 |
| 54 | MP-10 | Z | .03 | 1.5 |
| 55 | MP-10 | Z | .006 | 2.5 |
| 56 | MP-10 | Z | .008 | 2.5 |
| 57 | MP-11 | Z | .009 | 1.5 |
| 58 | MP-12 | Z | .01 | 1.5 |
| 59 | MP-12 | Z | .006 | 2.5 |
| 60 | MP-12 | Z | .002 | 3.5 |
| 61 | MP-1 | Z | .014 | 4.5 |
| 62 | MP-2 | Z | .037 | 7.5 |
| 63 | MP-3 | Z | .011 | 4 |
| 64 | MP-4 | Z | .013 | 5.5 |
| 65 | MP-5 | Z | .013 | 4.5 |
| 66 | MP-6 | Z | .03 | 7.5 |
| 67 | MP-7 | Z | .009 | 4 |
| 68 | MP-8 | Z | .01 | 5.5 |
| 69 | MP-9 | Z | .013 | 4.5 |
| 70 | MP-10 | Z | .03 | 7.5 |
| 71 | MP-11 | Z | .009 | 4 |
| 72 | MP-12 | Z | .01 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 29 : 225 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .019 | 1.5 |
| 2 | MP-2 | X | .044 | 1.5 |
| 3 | MP-2 | X | .009 | 2.5 |
| 4 | MP-2 | X | .011 | 2.5 |
| 5 | MP-3 | X | .014 | 1.5 |
| 6 | MP-4 | X | .015 | 1.5 |
| 7 | MP-4 | X | .005 | 2.5 |
| 8 | MP-4 | X | .003 | 3.5 |
| 9 | MP-5 | X | .017 | 1.5 |
| 10 | MP-6 | X | .035 | 1.5 |
| 11 | MP-6 | X | .007 | 2.5 |
| 12 | MP-6 | X | .011 | 2.5 |
| 13 | MP-7 | X | .011 | 1.5 |
| 14 | MP-8 | X | .011 | 1.5 |
| 15 | MP-8 | X | .009 | 2.5 |
| 16 | MP-8 | X | .003 | 3.5 |
| 17 | MP-9 | X | .017 | 1.5 |
| 18 | MP-10 | X | .035 | 1.5 |
| 19 | MP-10 | X | .007 | 2.5 |
| 20 | MP-10 | X | .011 | 2.5 |
| 21 | MP-11 | X | .011 | 1.5 |
| 22 | MP-12 | X | .011 | 1.5 |
| 23 | MP-12 | X | .009 | 2.5 |
| 24 | MP-12 | X | .003 | 3.5 |
| 25 | MP-1 | X | .019 | 4.5 |
| 26 | MP-2 | X | .044 | 7.5 |
| 27 | MP-3 | X | .014 | 4 |
| 28 | MP-4 | X | .015 | 5.5 |
| 29 | MP-5 | X | .017 | 4.5 |
| 30 | MP-6 | X | .035 | 7.5 |
| 31 | MP-7 | X | .011 | 4 |
| 32 | MP-8 | X | .011 | 5.5 |
| 33 | MP-9 | X | .017 | 4.5 |
| 34 | MP-10 | X | .035 | 7.5 |
| 35 | MP-11 | X | .011 | 4 |
| 36 | MP-12 | X | .011 | 5.5 |
| 37 | MP-1 | Z | .019 | 1.5 |
| 38 | MP-2 | Z | .044 | 1.5 |
| 39 | MP-2 | Z | .009 | 2.5 |
| 40 | MP-2 | Z | .011 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .017 | 1.5 |
| 46 | MP-6 | Z | .035 | 1.5 |
| 47 | MP-6 | Z | .007 | 2.5 |
| 48 | MP-6 | Z | .011 | 2.5 |
| 49 | MP-7 | Z | .011 | 1.5 |
| 50 | MP-8 | Z | .011 | 1.5 |
| 51 | MP-8 | Z | .009 | 2.5 |
| 52 | MP-8 | Z | .003 | 3.5 |
| 53 | MP-9 | Z | .017 | 1.5 |
| 54 | MP-10 | Z | .035 | 1.5 |
| 55 | MP-10 | Z | .007 | 2.5 |
| 56 | MP-10 | Z | .011 | 2.5 |
| 57 | MP-11 | Z | .011 | 1.5 |



Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-12 | Z | .011 | 1.5 |
| 59 | MP-12 | Z | .009 | 2.5 |
| 60 | MP-12 | Z | .003 | 3.5 |
| 61 | MP-1 | Z | .019 | 4.5 |
| 62 | MP-2 | Z | .044 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .017 | 4.5 |
| 66 | MP-6 | Z | .035 | 7.5 |
| 67 | MP-7 | Z | .011 | 4 |
| 68 | MP-8 | Z | .011 | 5.5 |
| 69 | MP-9 | Z | .017 | 4.5 |
| 70 | MP-10 | Z | .035 | 7.5 |
| 71 | MP-11 | Z | .011 | 4 |
| 72 | MP-12 | Z | .011 | 5.5 |

Member Point Loads (BLC 30 : 240 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | .012 | 1.5 |
| 2 | MP-2 | X | .026 | 1.5 |
| 3 | MP-2 | X | .006 | 2.5 |
| 4 | MP-2 | X | .008 | 2.5 |
| 5 | MP-3 | X | .008 | 1.5 |
| 6 | MP-4 | X | .009 | 1.5 |
| 7 | MP-4 | X | .003 | 2.5 |
| 8 | MP-4 | X | .002 | 3.5 |
| 9 | MP-5 | X | .012 | 1.5 |
| 10 | MP-6 | X | .022 | 1.5 |
| 11 | MP-6 | X | .005 | 2.5 |
| 12 | MP-6 | X | .007 | 2.5 |
| 13 | MP-7 | X | .007 | 1.5 |
| 14 | MP-8 | X | .007 | 1.5 |
| 15 | MP-8 | X | .006 | 2.5 |
| 16 | MP-8 | X | .002 | 3.5 |
| 17 | MP-9 | X | .012 | 1.5 |
| 18 | MP-10 | X | .022 | 1.5 |
| 19 | MP-10 | X | .005 | 2.5 |
| 20 | MP-10 | X | .007 | 2.5 |
| 21 | MP-11 | X | .007 | 1.5 |
| 22 | MP-12 | X | .007 | 1.5 |
| 23 | MP-12 | X | .006 | 2.5 |
| 24 | MP-12 | X | .002 | 3.5 |
| 25 | MP-1 | X | .012 | 4.5 |
| 26 | MP-2 | X | .026 | 7.5 |
| 27 | MP-3 | X | .008 | 4 |
| 28 | MP-4 | X | .009 | 5.5 |
| 29 | MP-5 | X | .012 | 4.5 |
| 30 | MP-6 | X | .022 | 7.5 |
| 31 | MP-7 | X | .007 | 4 |
| 32 | MP-8 | X | .007 | 5.5 |
| 33 | MP-9 | X | .012 | 4.5 |
| 34 | MP-10 | X | .022 | 7.5 |
| 35 | MP-11 | X | .007 | 4 |
| 36 | MP-12 | X | .007 | 5.5 |
| 37 | MP-1 | Z | .021 | 1.5 |
| 38 | MP-2 | Z | .045 | 1.5 |



Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 39 | MP-2 | Z | .01 | 2.5 |
| 40 | MP-2 | Z | .013 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .02 | 1.5 |
| 46 | MP-6 | Z | .037 | 1.5 |
| 47 | MP-6 | Z | .008 | 2.5 |
| 48 | MP-6 | Z | .013 | 2.5 |
| 49 | MP-7 | Z | .011 | 1.5 |
| 50 | MP-8 | Z | .012 | 1.5 |
| 51 | MP-8 | Z | .01 | 2.5 |
| 52 | MP-8 | Z | .003 | 3.5 |
| 53 | MP-9 | Z | .02 | 1.5 |
| 54 | MP-10 | Z | .037 | 1.5 |
| 55 | MP-10 | Z | .008 | 2.5 |
| 56 | MP-10 | Z | .013 | 2.5 |
| 57 | MP-11 | Z | .011 | 1.5 |
| 58 | MP-12 | Z | .012 | 1.5 |
| 59 | MP-12 | Z | .01 | 2.5 |
| 60 | MP-12 | Z | .003 | 3.5 |
| 61 | MP-1 | Z | .021 | 4.5 |
| 62 | MP-2 | Z | .045 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .02 | 4.5 |
| 66 | MP-6 | Z | .037 | 7.5 |
| 67 | MP-7 | Z | .011 | 4 |
| 68 | MP-8 | Z | .012 | 5.5 |
| 69 | MP-9 | Z | .02 | 4.5 |
| 70 | MP-10 | Z | .037 | 7.5 |
| 71 | MP-11 | Z | .011 | 4 |
| 72 | MP-12 | Z | .012 | 5.5 |

Member Point Loads (BLC 31 : 270 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | Z | .023 | 1.5 |
| 2 | MP-2 | Z | .042 | 1.5 |
| 3 | MP-2 | Z | .009 | 2.5 |
| 4 | MP-2 | Z | .014 | 2.5 |
| 5 | MP-3 | Z | .013 | 1.5 |
| 6 | MP-4 | Z | .013 | 1.5 |
| 7 | MP-4 | Z | .006 | 2.5 |
| 8 | MP-4 | Z | .003 | 3.5 |
| 9 | MP-5 | Z | .023 | 1.5 |
| 10 | MP-6 | Z | .042 | 1.5 |
| 11 | MP-6 | Z | .009 | 2.5 |
| 12 | MP-6 | Z | .014 | 2.5 |
| 13 | MP-7 | Z | .013 | 1.5 |
| 14 | MP-8 | Z | .013 | 1.5 |
| 15 | MP-8 | Z | .011 | 2.5 |
| 16 | MP-8 | Z | .003 | 3.5 |
| 17 | MP-9 | Z | .023 | 1.5 |
| 18 | MP-10 | Z | .042 | 1.5 |
| 19 | MP-10 | Z | .009 | 2.5 |



Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 20 | MP-10 | Z | .014 | 2.5 |
| 21 | MP-11 | Z | .013 | 1.5 |
| 22 | MP-12 | Z | .013 | 1.5 |
| 23 | MP-12 | Z | .011 | 2.5 |
| 24 | MP-12 | Z | .003 | 3.5 |
| 25 | MP-1 | Z | .023 | 4.5 |
| 26 | MP-2 | Z | .042 | 7.5 |
| 27 | MP-3 | Z | .013 | 4 |
| 28 | MP-4 | Z | .013 | 5.5 |
| 29 | MP-5 | Z | .023 | 4.5 |
| 30 | MP-6 | Z | .042 | 7.5 |
| 31 | MP-7 | Z | .013 | 4 |
| 32 | MP-8 | Z | .013 | 5.5 |
| 33 | MP-9 | Z | .023 | 4.5 |
| 34 | MP-10 | Z | .042 | 7.5 |
| 35 | MP-11 | Z | .013 | 4 |
| 36 | MP-12 | Z | .013 | 5.5 |

Member Point Loads (BLC 32 : 300 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.012 | 1.5 |
| 2 | MP-2 | X | -.026 | 1.5 |
| 3 | MP-2 | X | -.006 | 2.5 |
| 4 | MP-2 | X | -.008 | 2.5 |
| 5 | MP-3 | X | -.008 | 1.5 |
| 6 | MP-4 | X | -.009 | 1.5 |
| 7 | MP-4 | X | -.003 | 2.5 |
| 8 | MP-4 | X | -.002 | 3.5 |
| 9 | MP-5 | X | -.013 | 1.5 |
| 10 | MP-6 | X | -.033 | 1.5 |
| 11 | MP-6 | X | -.007 | 2.5 |
| 12 | MP-6 | X | -.008 | 2.5 |
| 13 | MP-7 | X | -.01 | 1.5 |
| 14 | MP-8 | X | -.012 | 1.5 |
| 15 | MP-8 | X | -.007 | 2.5 |
| 16 | MP-8 | X | -.002 | 3.5 |
| 17 | MP-9 | X | -.013 | 1.5 |
| 18 | MP-10 | X | -.033 | 1.5 |
| 19 | MP-10 | X | -.007 | 2.5 |
| 20 | MP-10 | X | -.008 | 2.5 |
| 21 | MP-11 | X | -.01 | 1.5 |
| 22 | MP-12 | X | -.012 | 1.5 |
| 23 | MP-12 | X | -.007 | 2.5 |
| 24 | MP-12 | X | -.002 | 3.5 |
| 25 | MP-1 | X | -.012 | 4.5 |
| 26 | MP-2 | X | -.026 | 7.5 |
| 27 | MP-3 | X | -.008 | 4 |
| 28 | MP-4 | X | -.009 | 5.5 |
| 29 | MP-5 | X | -.013 | 4.5 |
| 30 | MP-6 | X | -.033 | 7.5 |
| 31 | MP-7 | X | -.01 | 4 |
| 32 | MP-8 | X | -.012 | 5.5 |
| 33 | MP-9 | X | -.013 | 4.5 |
| 34 | MP-10 | X | -.033 | 7.5 |
| 35 | MP-11 | X | -.01 | 4 |
| 36 | MP-12 | X | -.012 | 5.5 |



Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 37 | MP-1 | Z | .021 | 1.5 |
| 38 | MP-2 | Z | .045 | 1.5 |
| 39 | MP-2 | Z | .01 | 2.5 |
| 40 | MP-2 | Z | .013 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .023 | 1.5 |
| 46 | MP-6 | Z | .057 | 1.5 |
| 47 | MP-6 | Z | .012 | 2.5 |
| 48 | MP-6 | Z | .014 | 2.5 |
| 49 | MP-7 | Z | .018 | 1.5 |
| 50 | MP-8 | Z | .02 | 1.5 |
| 51 | MP-8 | Z | .012 | 2.5 |
| 52 | MP-8 | Z | .004 | 3.5 |
| 53 | MP-9 | Z | .023 | 1.5 |
| 54 | MP-10 | Z | .057 | 1.5 |
| 55 | MP-10 | Z | .012 | 2.5 |
| 56 | MP-10 | Z | .014 | 2.5 |
| 57 | MP-11 | Z | .018 | 1.5 |
| 58 | MP-12 | Z | .02 | 1.5 |
| 59 | MP-12 | Z | .012 | 2.5 |
| 60 | MP-12 | Z | .004 | 3.5 |
| 61 | MP-1 | Z | .021 | 4.5 |
| 62 | MP-2 | Z | .045 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .023 | 4.5 |
| 66 | MP-6 | Z | .057 | 7.5 |
| 67 | MP-7 | Z | .018 | 4 |
| 68 | MP-8 | Z | .02 | 5.5 |
| 69 | MP-9 | Z | .023 | 4.5 |
| 70 | MP-10 | Z | .057 | 7.5 |
| 71 | MP-11 | Z | .018 | 4 |
| 72 | MP-12 | Z | .02 | 5.5 |

Member Point Loads (BLC 33 : 315 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -.019 | 1.5 |
| 2 | MP-2 | X | -.044 | 1.5 |
| 3 | MP-2 | X | -.009 | 2.5 |
| 4 | MP-2 | X | -.011 | 2.5 |
| 5 | MP-3 | X | -.014 | 1.5 |
| 6 | MP-4 | X | -.015 | 1.5 |
| 7 | MP-4 | X | -.005 | 2.5 |
| 8 | MP-4 | X | -.003 | 3.5 |
| 9 | MP-5 | X | -.02 | 1.5 |
| 10 | MP-6 | X | -.054 | 1.5 |
| 11 | MP-6 | X | -.011 | 2.5 |
| 12 | MP-6 | X | -.012 | 2.5 |
| 13 | MP-7 | X | -.016 | 1.5 |
| 14 | MP-8 | X | -.019 | 1.5 |
| 15 | MP-8 | X | -.01 | 2.5 |
| 16 | MP-8 | X | -.004 | 3.5 |
| 17 | MP-9 | X | -.02 | 1.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 18 | MP-10 | X | -054 | 1.5 |
| 19 | MP-10 | X | -011 | 2.5 |
| 20 | MP-10 | X | -012 | 2.5 |
| 21 | MP-11 | X | -016 | 1.5 |
| 22 | MP-12 | X | -019 | 1.5 |
| 23 | MP-12 | X | -01 | 2.5 |
| 24 | MP-12 | X | -004 | 3.5 |
| 25 | MP-1 | X | -019 | 4.5 |
| 26 | MP-2 | X | -044 | 7.5 |
| 27 | MP-3 | X | -014 | 4 |
| 28 | MP-4 | X | -015 | 5.5 |
| 29 | MP-5 | X | -02 | 4.5 |
| 30 | MP-6 | X | -054 | 7.5 |
| 31 | MP-7 | X | -016 | 4 |
| 32 | MP-8 | X | -019 | 5.5 |
| 33 | MP-9 | X | -02 | 4.5 |
| 34 | MP-10 | X | -054 | 7.5 |
| 35 | MP-11 | X | -016 | 4 |
| 36 | MP-12 | X | -019 | 5.5 |
| 37 | MP-1 | Z | .019 | 1.5 |
| 38 | MP-2 | Z | .044 | 1.5 |
| 39 | MP-2 | Z | .009 | 2.5 |
| 40 | MP-2 | Z | .011 | 2.5 |
| 41 | MP-3 | Z | .014 | 1.5 |
| 42 | MP-4 | Z | .015 | 1.5 |
| 43 | MP-4 | Z | .005 | 2.5 |
| 44 | MP-4 | Z | .003 | 3.5 |
| 45 | MP-5 | Z | .02 | 1.5 |
| 46 | MP-6 | Z | .054 | 1.5 |
| 47 | MP-6 | Z | .011 | 2.5 |
| 48 | MP-6 | Z | .012 | 2.5 |
| 49 | MP-7 | Z | .016 | 1.5 |
| 50 | MP-8 | Z | .019 | 1.5 |
| 51 | MP-8 | Z | .01 | 2.5 |
| 52 | MP-8 | Z | .004 | 3.5 |
| 53 | MP-9 | Z | .02 | 1.5 |
| 54 | MP-10 | Z | .054 | 1.5 |
| 55 | MP-10 | Z | .011 | 2.5 |
| 56 | MP-10 | Z | .012 | 2.5 |
| 57 | MP-11 | Z | .016 | 1.5 |
| 58 | MP-12 | Z | .019 | 1.5 |
| 59 | MP-12 | Z | .01 | 2.5 |
| 60 | MP-12 | Z | .004 | 3.5 |
| 61 | MP-1 | Z | .019 | 4.5 |
| 62 | MP-2 | Z | .044 | 7.5 |
| 63 | MP-3 | Z | .014 | 4 |
| 64 | MP-4 | Z | .015 | 5.5 |
| 65 | MP-5 | Z | .02 | 4.5 |
| 66 | MP-6 | Z | .054 | 7.5 |
| 67 | MP-7 | Z | .016 | 4 |
| 68 | MP-8 | Z | .019 | 5.5 |
| 69 | MP-9 | Z | .02 | 4.5 |
| 70 | MP-10 | Z | .054 | 7.5 |
| 71 | MP-11 | Z | .016 | 4 |
| 72 | MP-12 | Z | .019 | 5.5 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Point Loads (BLC 34 : 330 Wind - Ice)

| | Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-1 | X | -024 | 1.5 |
| 2 | MP-2 | X | -063 | 1.5 |
| 3 | MP-2 | X | -013 | 2.5 |
| 4 | MP-2 | X | -014 | 2.5 |
| 5 | MP-3 | X | -019 | 1.5 |
| 6 | MP-4 | X | -022 | 1.5 |
| 7 | MP-4 | X | -006 | 2.5 |
| 8 | MP-4 | X | -004 | 3.5 |
| 9 | MP-5 | X | -026 | 1.5 |
| 10 | MP-6 | X | -071 | 1.5 |
| 11 | MP-6 | X | -015 | 2.5 |
| 12 | MP-6 | X | -015 | 2.5 |
| 13 | MP-7 | X | -022 | 1.5 |
| 14 | MP-8 | X | -025 | 1.5 |
| 15 | MP-8 | X | -013 | 2.5 |
| 16 | MP-8 | X | -005 | 3.5 |
| 17 | MP-9 | X | -026 | 1.5 |
| 18 | MP-10 | X | -071 | 1.5 |
| 19 | MP-10 | X | -015 | 2.5 |
| 20 | MP-10 | X | -015 | 2.5 |
| 21 | MP-11 | X | -022 | 1.5 |
| 22 | MP-12 | X | -025 | 1.5 |
| 23 | MP-12 | X | -013 | 2.5 |
| 24 | MP-12 | X | -005 | 3.5 |
| 25 | MP-1 | X | -024 | 4.5 |
| 26 | MP-2 | X | -063 | 7.5 |
| 27 | MP-3 | X | -019 | 4 |
| 28 | MP-4 | X | -022 | 5.5 |
| 29 | MP-5 | X | -026 | 4.5 |
| 30 | MP-6 | X | -071 | 7.5 |
| 31 | MP-7 | X | -022 | 4 |
| 32 | MP-8 | X | -025 | 5.5 |
| 33 | MP-9 | X | -026 | 4.5 |
| 34 | MP-10 | X | -071 | 7.5 |
| 35 | MP-11 | X | -022 | 4 |
| 36 | MP-12 | X | -025 | 5.5 |
| 37 | MP-1 | Z | .014 | 1.5 |
| 38 | MP-2 | Z | .037 | 1.5 |
| 39 | MP-2 | Z | .008 | 2.5 |
| 40 | MP-2 | Z | .008 | 2.5 |
| 41 | MP-3 | Z | .011 | 1.5 |
| 42 | MP-4 | Z | .013 | 1.5 |
| 43 | MP-4 | Z | .004 | 2.5 |
| 44 | MP-4 | Z | .002 | 3.5 |
| 45 | MP-5 | Z | .015 | 1.5 |
| 46 | MP-6 | Z | .041 | 1.5 |
| 47 | MP-6 | Z | .009 | 2.5 |
| 48 | MP-6 | Z | .009 | 2.5 |
| 49 | MP-7 | Z | .013 | 1.5 |
| 50 | MP-8 | Z | .015 | 1.5 |
| 51 | MP-8 | Z | .007 | 2.5 |
| 52 | MP-8 | Z | .003 | 3.5 |
| 53 | MP-9 | Z | .015 | 1.5 |
| 54 | MP-10 | Z | .041 | 1.5 |
| 55 | MP-10 | Z | .009 | 2.5 |
| 56 | MP-10 | Z | .009 | 2.5 |
| 57 | MP-11 | Z | .013 | 1.5 |



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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] | |
|--------------|-----------|-------------------|----------------|-----|
| 58 | MP-12 | Z | .015 | 1.5 |
| 59 | MP-12 | Z | .007 | 2.5 |
| 60 | MP-12 | Z | .003 | 3.5 |
| 61 | MP-1 | Z | .014 | 4.5 |
| 62 | MP-2 | Z | .037 | 7.5 |
| 63 | MP-3 | Z | .011 | 4 |
| 64 | MP-4 | Z | .013 | 5.5 |
| 65 | MP-5 | Z | .015 | 4.5 |
| 66 | MP-6 | Z | .041 | 7.5 |
| 67 | MP-7 | Z | .013 | 4 |
| 68 | MP-8 | Z | .015 | 5.5 |
| 69 | MP-9 | Z | .015 | 4.5 |
| 70 | MP-10 | Z | .041 | 7.5 |
| 71 | MP-11 | Z | .013 | 4 |
| 72 | MP-12 | Z | .015 | 5.5 |

Member Point Loads (BLC 37 : Seismic Load X)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] | |
|--------------|-----------|-------------------|----------------|-----|
| 1 | MP-1 | X | -.066 | 1.5 |
| 2 | MP-2 | X | -.064 | 1.5 |
| 3 | MP-2 | X | -.046 | 2.5 |
| 4 | MP-2 | X | -.075 | 2.5 |
| 5 | MP-3 | X | -.052 | 1.5 |
| 6 | MP-4 | X | -.02 | 1.5 |
| 7 | MP-4 | X | -.015 | 2.5 |
| 8 | MP-4 | X | -.011 | 3.5 |
| 9 | MP-5 | X | -.066 | 1.5 |
| 10 | MP-6 | X | -.064 | 1.5 |
| 11 | MP-6 | X | -.046 | 2.5 |
| 12 | MP-6 | X | -.075 | 2.5 |
| 13 | MP-7 | X | -.052 | 1.5 |
| 14 | MP-8 | X | -.02 | 1.5 |
| 15 | MP-8 | X | -.031 | 2.5 |
| 16 | MP-8 | X | -.011 | 3.5 |
| 17 | MP-9 | X | -.066 | 1.5 |
| 18 | MP-10 | X | -.064 | 1.5 |
| 19 | MP-10 | X | -.046 | 2.5 |
| 20 | MP-10 | X | -.075 | 2.5 |
| 21 | MP-11 | X | -.052 | 1.5 |
| 22 | MP-12 | X | -.02 | 1.5 |
| 23 | MP-12 | X | -.031 | 2.5 |
| 24 | MP-12 | X | -.011 | 3.5 |
| 25 | MP-1 | X | -.066 | 4.5 |
| 26 | MP-2 | X | -.064 | 7.5 |
| 27 | MP-3 | X | -.052 | 4 |
| 28 | MP-4 | X | -.02 | 5.5 |
| 29 | MP-5 | X | -.066 | 4.5 |
| 30 | MP-6 | X | -.064 | 7.5 |
| 31 | MP-7 | X | -.052 | 4 |
| 32 | MP-8 | X | -.02 | 5.5 |
| 33 | MP-9 | X | -.066 | 4.5 |
| 34 | MP-10 | X | -.064 | 7.5 |
| 35 | MP-11 | X | -.052 | 4 |
| 36 | MP-12 | X | -.02 | 5.5 |



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Member Point Loads (BLC 38 : Seismic Load Z)

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.%] | |
|--------------|-----------|-------------------|----------------|-----|
| 1 | MP-1 | Z | -.066 | 1.5 |
| 2 | MP-2 | Z | -.064 | 1.5 |
| 3 | MP-2 | Z | -.046 | 2.5 |
| 4 | MP-2 | Z | -.075 | 2.5 |
| 5 | MP-3 | Z | -.052 | 1.5 |
| 6 | MP-4 | Z | -.02 | 1.5 |
| 7 | MP-4 | Z | -.015 | 2.5 |
| 8 | MP-4 | Z | -.011 | 3.5 |
| 9 | MP-5 | Z | -.066 | 1.5 |
| 10 | MP-6 | Z | -.064 | 1.5 |
| 11 | MP-6 | Z | -.046 | 2.5 |
| 12 | MP-6 | Z | -.075 | 2.5 |
| 13 | MP-7 | Z | -.052 | 1.5 |
| 14 | MP-8 | Z | -.02 | 1.5 |
| 15 | MP-8 | Z | -.031 | 2.5 |
| 16 | MP-8 | Z | -.011 | 3.5 |
| 17 | MP-9 | Z | -.066 | 1.5 |
| 18 | MP-10 | Z | -.064 | 1.5 |
| 19 | MP-10 | Z | -.046 | 2.5 |
| 20 | MP-10 | Z | -.075 | 2.5 |
| 21 | MP-11 | Z | -.052 | 1.5 |
| 22 | MP-12 | Z | -.02 | 1.5 |
| 23 | MP-12 | Z | -.031 | 2.5 |
| 24 | MP-12 | Z | -.011 | 3.5 |
| 25 | MP-1 | Z | -.066 | 4.5 |
| 26 | MP-2 | Z | -.064 | 7.5 |
| 27 | MP-3 | Z | -.052 | 4 |
| 28 | MP-4 | Z | -.02 | 5.5 |
| 29 | MP-5 | Z | -.066 | 4.5 |
| 30 | MP-6 | Z | -.064 | 7.5 |
| 31 | MP-7 | Z | -.052 | 4 |
| 32 | MP-8 | Z | -.02 | 5.5 |
| 33 | MP-9 | Z | -.066 | 4.5 |
| 34 | MP-10 | Z | -.064 | 7.5 |
| 35 | MP-11 | Z | -.052 | 4 |
| 36 | MP-12 | Z | -.02 | 5.5 |

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -.013 | -.013 | 0 | %100 |
| 2 | CP-1U | X | -.004 | -.004 | 0 | %100 |
| 3 | CP-2 | X | -.013 | -.013 | 0 | %100 |
| 4 | CP-2U | X | -.004 | -.004 | 0 | %100 |
| 5 | CP-3 | X | -.026 | -.026 | 0 | %100 |
| 6 | CP-3U | X | -.01 | -.01 | 0 | %100 |
| 7 | FF-HR | X | -.01 | -.01 | 0 | %100 |
| 8 | FFTH | X | -.011 | -.011 | 0 | %100 |
| 9 | GS1-1 | X | -.01 | -.01 | 0 | %100 |
| 10 | GS1-2 | X | -.01 | -.01 | 0 | %100 |
| 11 | GS1-3 | X | -.024 | -.024 | 0 | %100 |
| 12 | GSIP-1A | X | -.006 | -.006 | 0 | %100 |
| 13 | GSIP-1B | X | -.014 | -.014 | 0 | %100 |
| 14 | GSIP-2A | X | -.014 | -.014 | 0 | %100 |
| 15 | GSIP-2B | X | -.006 | -.006 | 0 | %100 |
| 16 | GSIP-3A | X | -.006 | -.006 | 0 | %100 |



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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 17 | GSIP-3B | X | -0.06 | -0.06 | 0 | %100 |
| 18 | MP-1 | X | -0.01 | -0.01 | 0 | %100 |
| 19 | MP-2 | X | -0.01 | -0.01 | 0 | %100 |
| 20 | MP-3 | X | -0.01 | -0.01 | 0 | %100 |
| 21 | MP-4 | X | -0.01 | -0.01 | 0 | %100 |
| 22 | MP-5 | X | -0.01 | -0.01 | 0 | %100 |
| 23 | MP-6 | X | -0.01 | -0.01 | 0 | %100 |
| 24 | MP-7 | X | -0.01 | -0.01 | 0 | %100 |
| 25 | MP-8 | X | -0.01 | -0.01 | 0 | %100 |
| 26 | MP-9 | X | -0.01 | -0.01 | 0 | %100 |
| 27 | MP-10 | X | -0.01 | -0.01 | 0 | %100 |
| 28 | MP-11 | X | -0.01 | -0.01 | 0 | %100 |
| 29 | MP-12 | X | -0.01 | -0.01 | 0 | %100 |
| 30 | SA-1 | X | -0.02 | -0.02 | 0 | %100 |
| 31 | SA-2 | X | -0.02 | -0.02 | 0 | %100 |
| 32 | SA-3 | X | 0 | 0 | 0 | %100 |
| 33 | SF1-HR | X | -0.005 | -0.005 | 0 | %100 |
| 34 | SF1-TH | X | -0.005 | -0.005 | 0 | %100 |
| 35 | SF2-HR | X | -0.005 | -0.005 | 0 | %100 |
| 36 | SF2-TH | X | -0.005 | -0.005 | 0 | %100 |
| 37 | K1 | X | -0.017 | -0.017 | 0 | %100 |
| 38 | K2 | X | -0.017 | -0.017 | 0 | %100 |
| 39 | K3 | X | -0.017 | -0.017 | 0 | %100 |

Member Distributed Loads (BLC 3 : 30 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.019 | -0.019 | 0 | %100 |
| 2 | CP-1U | X | -0.007 | -0.007 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | -0.019 | -0.019 | 0 | %100 |
| 6 | CP-3U | X | -0.007 | -0.007 | 0 | %100 |
| 7 | FF-HR | X | -0.008 | -0.008 | 0 | %100 |
| 8 | FFTH | X | -0.009 | -0.009 | 0 | %100 |
| 9 | GSI-1 | X | -0.015 | -0.015 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | -0.018 | -0.018 | 0 | %100 |
| 12 | GSIP-1A | X | -1e-6 | -1e-6 | 0 | %100 |
| 13 | GSIP-1B | X | -0.011 | -0.011 | 0 | %100 |
| 14 | GSIP-2A | X | -0.011 | -0.011 | 0 | %100 |
| 15 | GSIP-2B | X | -0.008 | -0.008 | 0 | %100 |
| 16 | GSIP-3A | X | -0.008 | -0.008 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | -0.009 | -0.009 | 0 | %100 |
| 19 | MP-2 | X | -0.009 | -0.009 | 0 | %100 |
| 20 | MP-3 | X | -0.009 | -0.009 | 0 | %100 |
| 21 | MP-4 | X | -0.009 | -0.009 | 0 | %100 |
| 22 | MP-5 | X | -0.009 | -0.009 | 0 | %100 |
| 23 | MP-6 | X | -0.009 | -0.009 | 0 | %100 |
| 24 | MP-7 | X | -0.009 | -0.009 | 0 | %100 |
| 25 | MP-8 | X | -0.009 | -0.009 | 0 | %100 |
| 26 | MP-9 | X | -0.009 | -0.009 | 0 | %100 |
| 27 | MP-10 | X | -0.009 | -0.009 | 0 | %100 |
| 28 | MP-11 | X | -0.009 | -0.009 | 0 | %100 |
| 29 | MP-12 | X | -0.009 | -0.009 | 0 | %100 |
| 30 | SA-1 | X | -0.01 | -0.01 | 0 | %100 |



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Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 31 | SA-2 | X | -0.02 | -0.02 | 0 | %100 |
| 32 | SA-3 | X | -0.007 | -0.007 | 0 | %100 |
| 33 | SF1-HR | X | -0.008 | -0.008 | 0 | %100 |
| 34 | SF1-TH | X | -0.008 | -0.008 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |
| 36 | SF2-TH | X | 0 | 0 | 0 | %100 |
| 37 | K1 | X | -0.014 | -0.014 | 0 | %100 |
| 38 | K2 | X | -0.014 | -0.014 | 0 | %100 |
| 39 | K3 | X | -0.014 | -0.014 | 0 | %100 |
| 40 | CP-1 | Z | -0.011 | -0.011 | 0 | %100 |
| 41 | CP-1U | Z | -0.004 | -0.004 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | -0.011 | -0.011 | 0 | %100 |
| 45 | CP-3U | Z | -0.004 | -0.004 | 0 | %100 |
| 46 | FF-HR | Z | -0.004 | -0.004 | 0 | %100 |
| 47 | FFTH | Z | -0.005 | -0.005 | 0 | %100 |
| 48 | GSI-1 | Z | -0.01 | -0.01 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | -0.01 | -0.01 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.006 | -0.006 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.006 | -0.006 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.006 | -0.006 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.006 | -0.006 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 58 | MP-2 | Z | -0.005 | -0.005 | 0 | %100 |
| 59 | MP-3 | Z | -0.005 | -0.005 | 0 | %100 |
| 60 | MP-4 | Z | -0.005 | -0.005 | 0 | %100 |
| 61 | MP-5 | Z | -0.005 | -0.005 | 0 | %100 |
| 62 | MP-6 | Z | -0.005 | -0.005 | 0 | %100 |
| 63 | MP-7 | Z | -0.005 | -0.005 | 0 | %100 |
| 64 | MP-8 | Z | -0.005 | -0.005 | 0 | %100 |
| 65 | MP-9 | Z | -0.005 | -0.005 | 0 | %100 |
| 66 | MP-10 | Z | -0.005 | -0.005 | 0 | %100 |
| 67 | MP-11 | Z | -0.005 | -0.005 | 0 | %100 |
| 68 | MP-12 | Z | -0.005 | -0.005 | 0 | %100 |
| 69 | SA-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 70 | SA-2 | Z | -0.01 | -0.01 | 0 | %100 |
| 71 | SA-3 | Z | -0.006 | -0.006 | 0 | %100 |
| 72 | SF1-HR | Z | -0.004 | -0.004 | 0 | %100 |
| 73 | SF1-TH | Z | -0.005 | -0.005 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | -0.008 | -0.008 | 0 | %100 |
| 77 | K2 | Z | -0.008 | -0.008 | 0 | %100 |
| 78 | K3 | Z | -0.008 | -0.008 | 0 | %100 |

Member Distributed Loads (BLC 4 : 45 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.018 | -0.018 | 0 | %100 |
| 2 | CP-1U | X | -0.006 | -0.006 | 0 | %100 |
| 3 | CP-2 | X | -0.005 | -0.005 | 0 | %100 |
| 4 | CP-2U | X | -0.002 | -0.002 | 0 | %100 |
| 5 | CP-3 | X | -0.013 | -0.013 | 0 | %100 |



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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 6 | CP-3U | X | -0.05 | -0.05 | 0 %100 |
| 7 | FF-HR | X | -0.05 | -0.05 | 0 %100 |
| 8 | FFTH | X | -0.06 | -0.06 | 0 %100 |
| 9 | GSI-1 | X | -0.14 | -0.14 | 0 %100 |
| 10 | GSI-2 | X | -0.04 | -0.04 | 0 %100 |
| 11 | GSI-3 | X | -0.12 | -0.12 | 0 %100 |
| 12 | GSIP-1A | X | -0.02 | -0.02 | 0 %100 |
| 13 | GSIP-1B | X | -0.07 | -0.07 | 0 %100 |
| 14 | GSIP-2A | X | -0.07 | -0.07 | 0 %100 |
| 15 | GSIP-2B | X | -0.08 | -0.08 | 0 %100 |
| 16 | GSIP-3A | X | -0.08 | -0.08 | 0 %100 |
| 17 | GSIP-3B | X | -0.02 | -0.02 | 0 %100 |
| 18 | MP-1 | X | -0.07 | -0.07 | 0 %100 |
| 19 | MP-2 | X | -0.07 | -0.07 | 0 %100 |
| 20 | MP-3 | X | -0.07 | -0.07 | 0 %100 |
| 21 | MP-4 | X | -0.07 | -0.07 | 0 %100 |
| 22 | MP-5 | X | -0.07 | -0.07 | 0 %100 |
| 23 | MP-6 | X | -0.07 | -0.07 | 0 %100 |
| 24 | MP-7 | X | -0.07 | -0.07 | 0 %100 |
| 25 | MP-8 | X | -0.07 | -0.07 | 0 %100 |
| 26 | MP-9 | X | -0.07 | -0.07 | 0 %100 |
| 27 | MP-10 | X | -0.07 | -0.07 | 0 %100 |
| 28 | MP-11 | X | -0.07 | -0.07 | 0 %100 |
| 29 | MP-12 | X | -0.07 | -0.07 | 0 %100 |
| 30 | SA-1 | X | -0.04 | -0.04 | 0 %100 |
| 31 | SA-2 | X | -0.16 | -0.16 | 0 %100 |
| 32 | SA-3 | X | -0.09 | -0.09 | 0 %100 |
| 33 | SF1-HR | X | -0.07 | -0.07 | 0 %100 |
| 34 | SF1-TH | X | -0.07 | -0.07 | 0 %100 |
| 35 | SF2-HR | X | -0.02 | -0.02 | 0 %100 |
| 36 | SF2-TH | X | -0.02 | -0.02 | 0 %100 |
| 37 | K1 | X | -0.12 | -0.12 | 0 %100 |
| 38 | K2 | X | -0.12 | -0.12 | 0 %100 |
| 39 | K3 | X | -0.12 | -0.12 | 0 %100 |
| 40 | CP-1 | Z | -0.18 | -0.18 | 0 %100 |
| 41 | CP-1U | Z | -0.06 | -0.06 | 0 %100 |
| 42 | CP-2 | Z | -0.05 | -0.05 | 0 %100 |
| 43 | CP-2U | Z | -0.02 | -0.02 | 0 %100 |
| 44 | CP-3 | Z | -0.13 | -0.13 | 0 %100 |
| 45 | CP-3U | Z | -0.05 | -0.05 | 0 %100 |
| 46 | FF-HR | Z | -0.05 | -0.05 | 0 %100 |
| 47 | FFTH | Z | -0.06 | -0.06 | 0 %100 |
| 48 | GSI-1 | Z | -0.16 | -0.16 | 0 %100 |
| 49 | GSI-2 | Z | -0.04 | -0.04 | 0 %100 |
| 50 | GSI-3 | Z | -0.12 | -0.12 | 0 %100 |
| 51 | GSIP-1A | Z | -0.02 | -0.02 | 0 %100 |
| 52 | GSIP-1B | Z | -0.07 | -0.07 | 0 %100 |
| 53 | GSIP-2A | Z | -0.07 | -0.07 | 0 %100 |
| 54 | GSIP-2B | Z | -0.09 | -0.09 | 0 %100 |
| 55 | GSIP-3A | Z | -0.09 | -0.09 | 0 %100 |
| 56 | GSIP-3B | Z | -0.02 | -0.02 | 0 %100 |
| 57 | MP-1 | Z | -0.07 | -0.07 | 0 %100 |
| 58 | MP-2 | Z | -0.07 | -0.07 | 0 %100 |
| 59 | MP-3 | Z | -0.07 | -0.07 | 0 %100 |
| 60 | MP-4 | Z | -0.07 | -0.07 | 0 %100 |
| 61 | MP-5 | Z | -0.07 | -0.07 | 0 %100 |
| 62 | MP-6 | Z | -0.07 | -0.07 | 0 %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
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Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 63 | MP-7 | Z | -0.07 | -0.07 | 0 %100 |
| 64 | MP-8 | Z | -0.07 | -0.07 | 0 %100 |
| 65 | MP-9 | Z | -0.07 | -0.07 | 0 %100 |
| 66 | MP-10 | Z | -0.07 | -0.07 | 0 %100 |
| 67 | MP-11 | Z | -0.07 | -0.07 | 0 %100 |
| 68 | MP-12 | Z | -0.07 | -0.07 | 0 %100 |
| 69 | SA-1 | Z | -0.04 | -0.04 | 0 %100 |
| 70 | SA-2 | Z | -0.14 | -0.14 | 0 %100 |
| 71 | SA-3 | Z | -0.12 | -0.12 | 0 %100 |
| 72 | SF1-HR | Z | -0.07 | -0.07 | 0 %100 |
| 73 | SF1-TH | Z | -0.08 | -0.08 | 0 %100 |
| 74 | SF2-HR | Z | -0.02 | -0.02 | 0 %100 |
| 75 | SF2-TH | Z | -0.02 | -0.02 | 0 %100 |
| 76 | K1 | Z | -0.12 | -0.12 | 0 %100 |
| 77 | K2 | Z | -0.12 | -0.12 | 0 %100 |
| 78 | K3 | Z | -0.12 | -0.12 | 0 %100 |

Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 | CP-1 | X | -0.13 | -0.13 | 0 %100 |
| 2 | CP-1U | X | -0.04 | -0.04 | 0 %100 |
| 3 | CP-2 | X | -0.06 | -0.06 | 0 %100 |
| 4 | CP-2U | X | -0.02 | -0.02 | 0 %100 |
| 5 | CP-3 | X | -0.06 | -0.06 | 0 %100 |
| 6 | CP-3U | X | -0.02 | -0.02 | 0 %100 |
| 7 | FF-HR | X | -0.03 | -0.03 | 0 %100 |
| 8 | FFTH | X | -0.03 | -0.03 | 0 %100 |
| 9 | GSI-1 | X | -0.1 | -0.1 | 0 %100 |
| 10 | GSI-2 | X | -0.05 | -0.05 | 0 %100 |
| 11 | GSI-3 | X | -0.06 | -0.06 | 0 %100 |
| 12 | GSIP-1A | X | -0.03 | -0.03 | 0 %100 |
| 13 | GSIP-1B | X | -0.04 | -0.04 | 0 %100 |
| 14 | GSIP-2A | X | -0.04 | -0.04 | 0 %100 |
| 15 | GSIP-2B | X | -0.06 | -0.06 | 0 %100 |
| 16 | GSIP-3A | X | -0.06 | -0.06 | 0 %100 |
| 17 | GSIP-3B | X | -0.03 | -0.03 | 0 %100 |
| 18 | MP-1 | X | -0.05 | -0.05 | 0 %100 |
| 19 | MP-2 | X | -0.05 | -0.05 | 0 %100 |
| 20 | MP-3 | X | -0.05 | -0.05 | 0 %100 |
| 21 | MP-4 | X | -0.05 | -0.05 | 0 %100 |
| 22 | MP-5 | X | -0.05 | -0.05 | 0 %100 |
| 23 | MP-6 | X | -0.05 | -0.05 | 0 %100 |
| 24 | MP-7 | X | -0.05 | -0.05 | 0 %100 |
| 25 | MP-8 | X | -0.05 | -0.05 | 0 %100 |
| 26 | MP-9 | X | -0.05 | -0.05 | 0 %100 |
| 27 | MP-10 | X | -0.05 | -0.05 | 0 %100 |
| 28 | MP-11 | X | -0.05 | -0.05 | 0 %100 |
| 29 | MP-12 | X | -0.05 | -0.05 | 0 %100 |
| 30 | SA-1 | X | 0 | 0 | 0 %100 |
| 31 | SA-2 | X | -0.1 | -0.1 | 0 %100 |
| 32 | SA-3 | X | -0.07 | -0.07 | 0 %100 |
| 33 | SF1-HR | X | -0.05 | -0.05 | 0 %100 |
| 34 | SF1-TH | X | -0.05 | -0.05 | 0 %100 |
| 35 | SF2-HR | X | -0.03 | -0.03 | 0 %100 |
| 36 | SF2-TH | X | -0.03 | -0.03 | 0 %100 |
| 37 | K1 | X | -0.08 | -0.08 | 0 %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 38 | K2 | X | -0.08 | -0.08 | 0 | %100 |
| 39 | K3 | X | -0.08 | -0.08 | 0 | %100 |
| 40 | CP-1 | Z | -0.22 | -0.22 | 0 | %100 |
| 41 | CP-1U | Z | -0.08 | -0.08 | 0 | %100 |
| 42 | CP-2 | Z | -0.11 | -0.11 | 0 | %100 |
| 43 | CP-2U | Z | -0.04 | -0.04 | 0 | %100 |
| 44 | CP-3 | Z | -0.11 | -0.11 | 0 | %100 |
| 45 | CP-3U | Z | -0.04 | -0.04 | 0 | %100 |
| 46 | FF-HR | Z | -0.04 | -0.04 | 0 | %100 |
| 47 | FFTH | Z | -0.05 | -0.05 | 0 | %100 |
| 48 | GSI-1 | Z | -0.2 | -0.2 | 0 | %100 |
| 49 | GSI-2 | Z | -0.1 | -0.1 | 0 | %100 |
| 50 | GSI-3 | Z | -0.1 | -0.1 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.06 | -0.06 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.06 | -0.06 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.06 | -0.06 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.12 | -0.12 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.12 | -0.12 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.06 | -0.06 | 0 | %100 |
| 57 | MP-1 | Z | -0.09 | -0.09 | 0 | %100 |
| 58 | MP-2 | Z | -0.09 | -0.09 | 0 | %100 |
| 59 | MP-3 | Z | -0.09 | -0.09 | 0 | %100 |
| 60 | MP-4 | Z | -0.09 | -0.09 | 0 | %100 |
| 61 | MP-5 | Z | -0.09 | -0.09 | 0 | %100 |
| 62 | MP-6 | Z | -0.09 | -0.09 | 0 | %100 |
| 63 | MP-7 | Z | -0.09 | -0.09 | 0 | %100 |
| 64 | MP-8 | Z | -0.09 | -0.09 | 0 | %100 |
| 65 | MP-9 | Z | -0.09 | -0.09 | 0 | %100 |
| 66 | MP-10 | Z | -0.09 | -0.09 | 0 | %100 |
| 67 | MP-11 | Z | -0.09 | -0.09 | 0 | %100 |
| 68 | MP-12 | Z | -0.09 | -0.09 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | -0.15 | -0.15 | 0 | %100 |
| 71 | SA-3 | Z | -0.18 | -0.18 | 0 | %100 |
| 72 | SF1-HR | Z | -0.09 | -0.09 | 0 | %100 |
| 73 | SF1-TH | Z | -0.1 | -0.1 | 0 | %100 |
| 74 | SF2-HR | Z | -0.04 | -0.04 | 0 | %100 |
| 75 | SF2-TH | Z | -0.05 | -0.05 | 0 | %100 |
| 76 | K1 | Z | -0.14 | -0.14 | 0 | %100 |
| 77 | K2 | Z | -0.14 | -0.14 | 0 | %100 |
| 78 | K3 | Z | -0.14 | -0.14 | 0 | %100 |

Member Distributed Loads (BLC 6 : 90 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | -0.22 | -0.22 | 0 | %100 |
| 2 | CP-1U | Z | -0.08 | -0.08 | 0 | %100 |
| 3 | CP-2 | Z | -0.22 | -0.22 | 0 | %100 |
| 4 | CP-2U | Z | -0.08 | -0.08 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | -0.2 | -0.2 | 0 | %100 |
| 10 | GSI-2 | Z | -0.2 | -0.2 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | -0.12 | -0.12 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | -0.12 | -0.12 | 0 | %100 |
| 16 | GSIP-3A | Z | -0.12 | -0.12 | 0 | %100 |
| 17 | GSIP-3B | Z | -0.12 | -0.12 | 0 | %100 |
| 18 | MP-1 | Z | -0.1 | -0.1 | 0 | %100 |
| 19 | MP-2 | Z | -0.1 | -0.1 | 0 | %100 |
| 20 | MP-3 | Z | -0.1 | -0.1 | 0 | %100 |
| 21 | MP-4 | Z | -0.1 | -0.1 | 0 | %100 |
| 22 | MP-5 | Z | -0.1 | -0.1 | 0 | %100 |
| 23 | MP-6 | Z | -0.1 | -0.1 | 0 | %100 |
| 24 | MP-7 | Z | -0.1 | -0.1 | 0 | %100 |
| 25 | MP-8 | Z | -0.1 | -0.1 | 0 | %100 |
| 26 | MP-9 | Z | -0.1 | -0.1 | 0 | %100 |
| 27 | MP-10 | Z | -0.1 | -0.1 | 0 | %100 |
| 28 | MP-11 | Z | -0.1 | -0.1 | 0 | %100 |
| 29 | MP-12 | Z | -0.1 | -0.1 | 0 | %100 |
| 30 | SA-1 | Z | -0.1 | -0.1 | 0 | %100 |
| 31 | SA-2 | Z | -0.1 | -0.1 | 0 | %100 |
| 32 | SA-3 | Z | -0.24 | -0.24 | 0 | %100 |
| 33 | SF1-HR | Z | -0.09 | -0.09 | 0 | %100 |
| 34 | SF1-TH | Z | -0.1 | -0.1 | 0 | %100 |
| 35 | SF2-HR | Z | -0.09 | -0.09 | 0 | %100 |
| 36 | SF2-TH | Z | -0.1 | -0.1 | 0 | %100 |
| 37 | K1 | Z | -0.17 | -0.17 | 0 | %100 |
| 38 | K2 | Z | -0.17 | -0.17 | 0 | %100 |
| 39 | K3 | Z | -0.17 | -0.17 | 0 | %100 |

Member Distributed Loads (BLC 7 : 120 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|-------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0.06 | 0.06 | 0 | %100 |
| 2 | CP-1U | X | 0.02 | 0.02 | 0 | %100 |
| 3 | CP-2 | X | 0.13 | 0.13 | 0 | %100 |
| 4 | CP-2U | X | 0.04 | 0.04 | 0 | %100 |
| 5 | CP-3 | X | 0.06 | 0.06 | 0 | %100 |
| 6 | CP-3U | X | 0.02 | 0.02 | 0 | %100 |
| 7 | FF-HR | X | 0.03 | 0.03 | 0 | %100 |
| 8 | FFTH | X | 0.03 | 0.03 | 0 | %100 |
| 9 | GSI-1 | X | 0.05 | 0.05 | 0 | %100 |
| 10 | GSI-2 | X | 0.1 | 0.1 | 0 | %100 |
| 11 | GSI-3 | X | 0.06 | 0.06 | 0 | %100 |
| 12 | GSIP-1A | X | 0.06 | 0.06 | 0 | %100 |
| 13 | GSIP-1B | X | 0.04 | 0.04 | 0 | %100 |
| 14 | GSIP-2A | X | 0.04 | 0.04 | 0 | %100 |
| 15 | GSIP-2B | X | 0.03 | 0.03 | 0 | %100 |
| 16 | GSIP-3A | X | 0.03 | 0.03 | 0 | %100 |
| 17 | GSIP-3B | X | 0.06 | 0.06 | 0 | %100 |
| 18 | MP-1 | X | 0.05 | 0.05 | 0 | %100 |
| 19 | MP-2 | X | 0.05 | 0.05 | 0 | %100 |
| 20 | MP-3 | X | 0.05 | 0.05 | 0 | %100 |
| 21 | MP-4 | X | 0.05 | 0.05 | 0 | %100 |
| 22 | MP-5 | X | 0.05 | 0.05 | 0 | %100 |
| 23 | MP-6 | X | 0.05 | 0.05 | 0 | %100 |
| 24 | MP-7 | X | 0.05 | 0.05 | 0 | %100 |
| 25 | MP-8 | X | 0.05 | 0.05 | 0 | %100 |
| 26 | MP-9 | X | 0.05 | 0.05 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 27 | MP-10 | X | .005 | .005 | 0 | %100 |
| 28 | MP-11 | X | .005 | .005 | 0 | %100 |
| 29 | MP-12 | X | .005 | .005 | 0 | %100 |
| 30 | SA-1 | X | .01 | .01 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |
| 33 | SF1-HR | X | .003 | .003 | 0 | %100 |
| 34 | SF1-TH | X | .003 | .003 | 0 | %100 |
| 35 | SF2-HR | X | .005 | .005 | 0 | %100 |
| 36 | SF2-TH | X | .005 | .005 | 0 | %100 |
| 37 | K1 | X | .008 | .008 | 0 | %100 |
| 38 | K2 | X | .008 | .008 | 0 | %100 |
| 39 | K3 | X | .008 | .008 | 0 | %100 |
| 40 | CP-1 | Z | -.011 | -.011 | 0 | %100 |
| 41 | CP-1U | Z | -.004 | -.004 | 0 | %100 |
| 42 | CP-2 | Z | -.022 | -.022 | 0 | %100 |
| 43 | CP-2U | Z | -.008 | -.008 | 0 | %100 |
| 44 | CP-3 | Z | -.011 | -.011 | 0 | %100 |
| 45 | CP-3U | Z | -.004 | -.004 | 0 | %100 |
| 46 | FF-HR | Z | -.004 | -.004 | 0 | %100 |
| 47 | FFTH | Z | -.005 | -.005 | 0 | %100 |
| 48 | GSI-1 | Z | -.01 | -.01 | 0 | %100 |
| 49 | GSI-2 | Z | -.02 | -.02 | 0 | %100 |
| 50 | GSI-3 | Z | -.01 | -.01 | 0 | %100 |
| 51 | GSIP-1A | Z | -.012 | -.012 | 0 | %100 |
| 52 | GSIP-1B | Z | -.006 | -.006 | 0 | %100 |
| 53 | GSIP-2A | Z | -.006 | -.006 | 0 | %100 |
| 54 | GSIP-2B | Z | -.006 | -.006 | 0 | %100 |
| 55 | GSIP-3A | Z | -.006 | -.006 | 0 | %100 |
| 56 | GSIP-3B | Z | -.012 | -.012 | 0 | %100 |
| 57 | MP-1 | Z | -.009 | -.009 | 0 | %100 |
| 58 | MP-2 | Z | -.009 | -.009 | 0 | %100 |
| 59 | MP-3 | Z | -.009 | -.009 | 0 | %100 |
| 60 | MP-4 | Z | -.009 | -.009 | 0 | %100 |
| 61 | MP-5 | Z | -.009 | -.009 | 0 | %100 |
| 62 | MP-6 | Z | -.009 | -.009 | 0 | %100 |
| 63 | MP-7 | Z | -.009 | -.009 | 0 | %100 |
| 64 | MP-8 | Z | -.009 | -.009 | 0 | %100 |
| 65 | MP-9 | Z | -.009 | -.009 | 0 | %100 |
| 66 | MP-10 | Z | -.009 | -.009 | 0 | %100 |
| 67 | MP-11 | Z | -.009 | -.009 | 0 | %100 |
| 68 | MP-12 | Z | -.009 | -.009 | 0 | %100 |
| 69 | SA-1 | Z | -.015 | -.015 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | -.018 | -.018 | 0 | %100 |
| 72 | SF1-HR | Z | -.004 | -.004 | 0 | %100 |
| 73 | SF1-TH | Z | -.005 | -.005 | 0 | %100 |
| 74 | SF2-HR | Z | -.009 | -.009 | 0 | %100 |
| 75 | SF2-TH | Z | -.01 | -.01 | 0 | %100 |
| 76 | K1 | Z | -.014 | -.014 | 0 | %100 |
| 77 | K2 | Z | -.014 | -.014 | 0 | %100 |
| 78 | K3 | Z | -.014 | -.014 | 0 | %100 |

Member Distributed Loads (BLC 8 : 135 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .005 | .005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 2 | CP-1U | X | .002 | .002 | 0 | %100 |
| 3 | CP-2 | X | .018 | .018 | 0 | %100 |
| 4 | CP-2U | X | .006 | .006 | 0 | %100 |
| 5 | CP-3 | X | .013 | .013 | 0 | %100 |
| 6 | CP-3U | X | .005 | .005 | 0 | %100 |
| 7 | FF-HR | X | .005 | .005 | 0 | %100 |
| 8 | FFTH | X | .006 | .006 | 0 | %100 |
| 9 | GSI-1 | X | .004 | .004 | 0 | %100 |
| 10 | GSI-2 | X | .014 | .014 | 0 | %100 |
| 11 | GSI-3 | X | .012 | .012 | 0 | %100 |
| 12 | GSIP-1A | X | .008 | .008 | 0 | %100 |
| 13 | GSIP-1B | X | .007 | .007 | 0 | %100 |
| 14 | GSIP-2A | X | .007 | .007 | 0 | %100 |
| 15 | GSIP-2B | X | .002 | .002 | 0 | %100 |
| 16 | GSIP-3A | X | .002 | .002 | 0 | %100 |
| 17 | GSIP-3B | X | .008 | .008 | 0 | %100 |
| 18 | MP-1 | X | .007 | .007 | 0 | %100 |
| 19 | MP-2 | X | .007 | .007 | 0 | %100 |
| 20 | MP-3 | X | .007 | .007 | 0 | %100 |
| 21 | MP-4 | X | .007 | .007 | 0 | %100 |
| 22 | MP-5 | X | .007 | .007 | 0 | %100 |
| 23 | MP-6 | X | .007 | .007 | 0 | %100 |
| 24 | MP-7 | X | .007 | .007 | 0 | %100 |
| 25 | MP-8 | X | .007 | .007 | 0 | %100 |
| 26 | MP-9 | X | .007 | .007 | 0 | %100 |
| 27 | MP-10 | X | .007 | .007 | 0 | %100 |
| 28 | MP-11 | X | .007 | .007 | 0 | %100 |
| 29 | MP-12 | X | .007 | .007 | 0 | %100 |
| 30 | SA-1 | X | .016 | .016 | 0 | %100 |
| 31 | SA-2 | X | .004 | .004 | 0 | %100 |
| 32 | SA-3 | X | .009 | .009 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .002 | .002 | 0 | %100 |
| 35 | SF2-HR | X | .007 | .007 | 0 | %100 |
| 36 | SF2-TH | X | .007 | .007 | 0 | %100 |
| 37 | K1 | X | .012 | .012 | 0 | %100 |
| 38 | K2 | X | .012 | .012 | 0 | %100 |
| 39 | K3 | X | .012 | .012 | 0 | %100 |
| 40 | CP-1 | Z | -.005 | -.005 | 0 | %100 |
| 41 | CP-1U | Z | -.002 | -.002 | 0 | %100 |
| 42 | CP-2 | Z | -.018 | -.018 | 0 | %100 |
| 43 | CP-2U | Z | -.006 | -.006 | 0 | %100 |
| 44 | CP-3 | Z | -.013 | -.013 | 0 | %100 |
| 45 | CP-3U | Z | -.005 | -.005 | 0 | %100 |
| 46 | FF-HR | Z | -.005 | -.005 | 0 | %100 |
| 47 | FFTH | Z | -.006 | -.006 | 0 | %100 |
| 48 | GSI-1 | Z | -.004 | -.004 | 0 | %100 |
| 49 | GSI-2 | Z | -.016 | -.016 | 0 | %100 |
| 50 | GSI-3 | Z | -.012 | -.012 | 0 | %100 |
| 51 | GSIP-1A | Z | -.009 | -.009 | 0 | %100 |
| 52 | GSIP-1B | Z | -.007 | -.007 | 0 | %100 |
| 53 | GSIP-2A | Z | -.007 | -.007 | 0 | %100 |
| 54 | GSIP-2B | Z | -.002 | -.002 | 0 | %100 |
| 55 | GSIP-3A | Z | -.002 | -.002 | 0 | %100 |
| 56 | GSIP-3B | Z | -.009 | -.009 | 0 | %100 |
| 57 | MP-1 | Z | -.007 | -.007 | 0 | %100 |
| 58 | MP-2 | Z | -.007 | -.007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 59 | MP-3 | Z | -0.07 | -0.07 | 0 | %100 |
| 60 | MP-4 | Z | -0.07 | -0.07 | 0 | %100 |
| 61 | MP-5 | Z | -0.07 | -0.07 | 0 | %100 |
| 62 | MP-6 | Z | -0.07 | -0.07 | 0 | %100 |
| 63 | MP-7 | Z | -0.07 | -0.07 | 0 | %100 |
| 64 | MP-8 | Z | -0.07 | -0.07 | 0 | %100 |
| 65 | MP-9 | Z | -0.07 | -0.07 | 0 | %100 |
| 66 | MP-10 | Z | -0.07 | -0.07 | 0 | %100 |
| 67 | MP-11 | Z | -0.07 | -0.07 | 0 | %100 |
| 68 | MP-12 | Z | -0.07 | -0.07 | 0 | %100 |
| 69 | SA-1 | Z | -0.14 | -0.14 | 0 | %100 |
| 70 | SA-2 | Z | -0.04 | -0.04 | 0 | %100 |
| 71 | SA-3 | Z | -0.12 | -0.12 | 0 | %100 |
| 72 | SF1-HR | Z | -0.02 | -0.02 | 0 | %100 |
| 73 | SF1-TH | Z | -0.02 | -0.02 | 0 | %100 |
| 74 | SF2-HR | Z | -0.07 | -0.07 | 0 | %100 |
| 75 | SF2-TH | Z | -0.08 | -0.08 | 0 | %100 |
| 76 | K1 | Z | -0.12 | -0.12 | 0 | %100 |
| 77 | K2 | Z | -0.12 | -0.12 | 0 | %100 |
| 78 | K3 | Z | -0.12 | -0.12 | 0 | %100 |

Member Distributed Loads (BLC 9 : 150 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0 | 0 | 0 | %100 |
| 2 | CP-1U | X | 0 | 0 | 0 | %100 |
| 3 | CP-2 | X | .019 | .019 | 0 | %100 |
| 4 | CP-2U | X | .007 | .007 | 0 | %100 |
| 5 | CP-3 | X | .019 | .019 | 0 | %100 |
| 6 | CP-3U | X | .007 | .007 | 0 | %100 |
| 7 | FF-HR | X | .008 | .008 | 0 | %100 |
| 8 | FFTH | X | .009 | .009 | 0 | %100 |
| 9 | GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 | GSI-2 | X | .015 | .015 | 0 | %100 |
| 11 | GSI-3 | X | .018 | .018 | 0 | %100 |
| 12 | GSIP-1A | X | .008 | .008 | 0 | %100 |
| 13 | GSIP-1B | X | .011 | .011 | 0 | %100 |
| 14 | GSIP-2A | X | .011 | .011 | 0 | %100 |
| 15 | GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 | GSIP-3A | X | 1e-6 | 1e-6 | 0 | %100 |
| 17 | GSIP-3B | X | .008 | .008 | 0 | %100 |
| 18 | MP-1 | X | .009 | .009 | 0 | %100 |
| 19 | MP-2 | X | .009 | .009 | 0 | %100 |
| 20 | MP-3 | X | .009 | .009 | 0 | %100 |
| 21 | MP-4 | X | .009 | .009 | 0 | %100 |
| 22 | MP-5 | X | .009 | .009 | 0 | %100 |
| 23 | MP-6 | X | .009 | .009 | 0 | %100 |
| 24 | MP-7 | X | .009 | .009 | 0 | %100 |
| 25 | MP-8 | X | .009 | .009 | 0 | %100 |
| 26 | MP-9 | X | .009 | .009 | 0 | %100 |
| 27 | MP-10 | X | .009 | .009 | 0 | %100 |
| 28 | MP-11 | X | .009 | .009 | 0 | %100 |
| 29 | MP-12 | X | .009 | .009 | 0 | %100 |
| 30 | SA-1 | X | .02 | .02 | 0 | %100 |
| 31 | SA-2 | X | .01 | .01 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |
| 33 | SF1-HR | X | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 34 | SF1-TH | X | 0 | 0 | 0 | %100 |
| 35 | SF2-HR | X | .008 | .008 | 0 | %100 |
| 36 | SF2-TH | X | .008 | .008 | 0 | %100 |
| 37 | K1 | X | .014 | .014 | 0 | %100 |
| 38 | K2 | X | .014 | .014 | 0 | %100 |
| 39 | K3 | X | .014 | .014 | 0 | %100 |
| 40 | CP-1 | Z | 0 | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | 0 | %100 |
| 42 | CP-2 | Z | -.011 | -.011 | 0 | %100 |
| 43 | CP-2U | Z | -.004 | -.004 | 0 | %100 |
| 44 | CP-3 | Z | -.011 | -.011 | 0 | %100 |
| 45 | CP-3U | Z | -.004 | -.004 | 0 | %100 |
| 46 | FF-HR | Z | -.004 | -.004 | 0 | %100 |
| 47 | FFTH | Z | -.005 | -.005 | 0 | %100 |
| 48 | GSI-1 | Z | 0 | 0 | 0 | %100 |
| 49 | GSI-2 | Z | -.01 | -.01 | 0 | %100 |
| 50 | GSI-3 | Z | -.01 | -.01 | 0 | %100 |
| 51 | GSIP-1A | Z | -.006 | -.006 | 0 | %100 |
| 52 | GSIP-1B | Z | -.006 | -.006 | 0 | %100 |
| 53 | GSIP-2A | Z | -.006 | -.006 | 0 | %100 |
| 54 | GSIP-2B | Z | 0 | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | -.006 | -.006 | 0 | %100 |
| 57 | MP-1 | Z | -.005 | -.005 | 0 | %100 |
| 58 | MP-2 | Z | -.005 | -.005 | 0 | %100 |
| 59 | MP-3 | Z | -.005 | -.005 | 0 | %100 |
| 60 | MP-4 | Z | -.005 | -.005 | 0 | %100 |
| 61 | MP-5 | Z | -.005 | -.005 | 0 | %100 |
| 62 | MP-6 | Z | -.005 | -.005 | 0 | %100 |
| 63 | MP-7 | Z | -.005 | -.005 | 0 | %100 |
| 64 | MP-8 | Z | -.005 | -.005 | 0 | %100 |
| 65 | MP-9 | Z | -.005 | -.005 | 0 | %100 |
| 66 | MP-10 | Z | -.005 | -.005 | 0 | %100 |
| 67 | MP-11 | Z | -.005 | -.005 | 0 | %100 |
| 68 | MP-12 | Z | -.005 | -.005 | 0 | %100 |
| 69 | SA-1 | Z | -.01 | -.01 | 0 | %100 |
| 70 | SA-2 | Z | -.005 | -.005 | 0 | %100 |
| 71 | SA-3 | Z | -.006 | -.006 | 0 | %100 |
| 72 | SF1-HR | Z | 0 | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | 0 | %100 |
| 74 | SF2-HR | Z | -.004 | -.004 | 0 | %100 |
| 75 | SF2-TH | Z | -.005 | -.005 | 0 | %100 |
| 76 | K1 | Z | -.008 | -.008 | 0 | %100 |
| 77 | K2 | Z | -.008 | -.008 | 0 | %100 |
| 78 | K3 | Z | -.008 | -.008 | 0 | %100 |

Member Distributed Loads (BLC 10 : 180 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .013 | .013 | 0 | %100 |
| 2 | CP-1U | X | .004 | .004 | 0 | %100 |
| 3 | CP-2 | X | .013 | .013 | 0 | %100 |
| 4 | CP-2U | X | .004 | .004 | 0 | %100 |
| 5 | CP-3 | X | .026 | .026 | 0 | %100 |
| 6 | CP-3U | X | .01 | .01 | 0 | %100 |
| 7 | FF-HR | X | .01 | .01 | 0 | %100 |
| 8 | FFTH | X | .011 | .011 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 9 | GSI-1 | X | .01 | .01 | 0 | %100 |
| 10 | GSI-2 | X | .01 | .01 | 0 | %100 |
| 11 | GSI-3 | X | .024 | .024 | 0 | %100 |
| 12 | GSIP-1A | X | .006 | .006 | 0 | %100 |
| 13 | GSIP-1B | X | .014 | .014 | 0 | %100 |
| 14 | GSIP-2A | X | .014 | .014 | 0 | %100 |
| 15 | GSIP-2B | X | .006 | .006 | 0 | %100 |
| 16 | GSIP-3A | X | .006 | .006 | 0 | %100 |
| 17 | GSIP-3B | X | .006 | .006 | 0 | %100 |
| 18 | MP-1 | X | .01 | .01 | 0 | %100 |
| 19 | MP-2 | X | .01 | .01 | 0 | %100 |
| 20 | MP-3 | X | .01 | .01 | 0 | %100 |
| 21 | MP-4 | X | .01 | .01 | 0 | %100 |
| 22 | MP-5 | X | .01 | .01 | 0 | %100 |
| 23 | MP-6 | X | .01 | .01 | 0 | %100 |
| 24 | MP-7 | X | .01 | .01 | 0 | %100 |
| 25 | MP-8 | X | .01 | .01 | 0 | %100 |
| 26 | MP-9 | X | .01 | .01 | 0 | %100 |
| 27 | MP-10 | X | .01 | .01 | 0 | %100 |
| 28 | MP-11 | X | .01 | .01 | 0 | %100 |
| 29 | MP-12 | X | .01 | .01 | 0 | %100 |
| 30 | SA-1 | X | .02 | .02 | 0 | %100 |
| 31 | SA-2 | X | .02 | .02 | 0 | %100 |
| 32 | SA-3 | X | 0 | 0 | 0 | %100 |
| 33 | SF1-HR | X | .005 | .005 | 0 | %100 |
| 34 | SF1-TH | X | .005 | .005 | 0 | %100 |
| 35 | SF2-HR | X | .005 | .005 | 0 | %100 |
| 36 | SF2-TH | X | .005 | .005 | 0 | %100 |
| 37 | K1 | X | .017 | .017 | 0 | %100 |
| 38 | K2 | X | .017 | .017 | 0 | %100 |
| 39 | K3 | X | .017 | .017 | 0 | %100 |

Member Distributed Loads (BLC 11 : 210 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .019 | .019 | 0 | %100 |
| 2 | CP-1U | X | .007 | .007 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | .019 | .019 | 0 | %100 |
| 6 | CP-3U | X | .007 | .007 | 0 | %100 |
| 7 | FF-HR | X | .008 | .008 | 0 | %100 |
| 8 | FFTH | X | .009 | .009 | 0 | %100 |
| 9 | GSI-1 | X | .015 | .015 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | .018 | .018 | 0 | %100 |
| 12 | GSIP-1A | X | 1e-6 | 1e-6 | 0 | %100 |
| 13 | GSIP-1B | X | .011 | .011 | 0 | %100 |
| 14 | GSIP-2A | X | .011 | .011 | 0 | %100 |
| 15 | GSIP-2B | X | .008 | .008 | 0 | %100 |
| 16 | GSIP-3A | X | .008 | .008 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | .009 | .009 | 0 | %100 |
| 19 | MP-2 | X | .009 | .009 | 0 | %100 |
| 20 | MP-3 | X | .009 | .009 | 0 | %100 |
| 21 | MP-4 | X | .009 | .009 | 0 | %100 |
| 22 | MP-5 | X | .009 | .009 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 23 | MP-6 | X | .009 | .009 | 0 | %100 |
| 24 | MP-7 | X | .009 | .009 | 0 | %100 |
| 25 | MP-8 | X | .009 | .009 | 0 | %100 |
| 26 | MP-9 | X | .009 | .009 | 0 | %100 |
| 27 | MP-10 | X | .009 | .009 | 0 | %100 |
| 28 | MP-11 | X | .009 | .009 | 0 | %100 |
| 29 | MP-12 | X | .009 | .009 | 0 | %100 |
| 30 | SA-1 | X | .01 | .01 | 0 | %100 |
| 31 | SA-2 | X | .02 | .02 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |
| 33 | SF1-HR | X | .008 | .008 | 0 | %100 |
| 34 | SF1-TH | X | .008 | .008 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |
| 36 | SF2-TH | X | 0 | 0 | 0 | %100 |
| 37 | K1 | X | .014 | .014 | 0 | %100 |
| 38 | K2 | X | .014 | .014 | 0 | %100 |
| 39 | K3 | X | .014 | .014 | 0 | %100 |
| 40 | CP-1 | Z | .011 | .011 | 0 | %100 |
| 41 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | .01 | .01 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | .006 | .006 | 0 | %100 |
| 55 | GSIP-3A | Z | .006 | .006 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | .005 | .005 | 0 | %100 |
| 58 | MP-2 | Z | .005 | .005 | 0 | %100 |
| 59 | MP-3 | Z | .005 | .005 | 0 | %100 |
| 60 | MP-4 | Z | .005 | .005 | 0 | %100 |
| 61 | MP-5 | Z | .005 | .005 | 0 | %100 |
| 62 | MP-6 | Z | .005 | .005 | 0 | %100 |
| 63 | MP-7 | Z | .005 | .005 | 0 | %100 |
| 64 | MP-8 | Z | .005 | .005 | 0 | %100 |
| 65 | MP-9 | Z | .005 | .005 | 0 | %100 |
| 66 | MP-10 | Z | .005 | .005 | 0 | %100 |
| 67 | MP-11 | Z | .005 | .005 | 0 | %100 |
| 68 | MP-12 | Z | .005 | .005 | 0 | %100 |
| 69 | SA-1 | Z | .005 | .005 | 0 | %100 |
| 70 | SA-2 | Z | .01 | .01 | 0 | %100 |
| 71 | SA-3 | Z | .006 | .006 | 0 | %100 |
| 72 | SF1-HR | Z | .004 | .004 | 0 | %100 |
| 73 | SF1-TH | Z | .005 | .005 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | .008 | .008 | 0 | %100 |
| 77 | K2 | Z | .008 | .008 | 0 | %100 |
| 78 | K3 | Z | .008 | .008 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 12 : 225 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .018 | .018 | 0 | %100 |
| 2 | CP-1U | X | .006 | .006 | 0 | %100 |
| 3 | CP-2 | X | .005 | .005 | 0 | %100 |
| 4 | CP-2U | X | .002 | .002 | 0 | %100 |
| 5 | CP-3 | X | .013 | .013 | 0 | %100 |
| 6 | CP-3U | X | .005 | .005 | 0 | %100 |
| 7 | FF-HR | X | .005 | .005 | 0 | %100 |
| 8 | FFTH | X | .006 | .006 | 0 | %100 |
| 9 | GSI-1 | X | .014 | .014 | 0 | %100 |
| 10 | GSI-2 | X | .004 | .004 | 0 | %100 |
| 11 | GSI-3 | X | .012 | .012 | 0 | %100 |
| 12 | GSIP-1A | X | .002 | .002 | 0 | %100 |
| 13 | GSIP-1B | X | .007 | .007 | 0 | %100 |
| 14 | GSIP-2A | X | .007 | .007 | 0 | %100 |
| 15 | GSIP-2B | X | .008 | .008 | 0 | %100 |
| 16 | GSIP-3A | X | .008 | .008 | 0 | %100 |
| 17 | GSIP-3B | X | .002 | .002 | 0 | %100 |
| 18 | MP-1 | X | .007 | .007 | 0 | %100 |
| 19 | MP-2 | X | .007 | .007 | 0 | %100 |
| 20 | MP-3 | X | .007 | .007 | 0 | %100 |
| 21 | MP-4 | X | .007 | .007 | 0 | %100 |
| 22 | MP-5 | X | .007 | .007 | 0 | %100 |
| 23 | MP-6 | X | .007 | .007 | 0 | %100 |
| 24 | MP-7 | X | .007 | .007 | 0 | %100 |
| 25 | MP-8 | X | .007 | .007 | 0 | %100 |
| 26 | MP-9 | X | .007 | .007 | 0 | %100 |
| 27 | MP-10 | X | .007 | .007 | 0 | %100 |
| 28 | MP-11 | X | .007 | .007 | 0 | %100 |
| 29 | MP-12 | X | .007 | .007 | 0 | %100 |
| 30 | SA-1 | X | .004 | .004 | 0 | %100 |
| 31 | SA-2 | X | .016 | .016 | 0 | %100 |
| 32 | SA-3 | X | .009 | .009 | 0 | %100 |
| 33 | SF1-HR | X | .007 | .007 | 0 | %100 |
| 34 | SF1-TH | X | .007 | .007 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .002 | .002 | 0 | %100 |
| 37 | K1 | X | .012 | .012 | 0 | %100 |
| 38 | K2 | X | .012 | .012 | 0 | %100 |
| 39 | K3 | X | .012 | .012 | 0 | %100 |
| 40 | CP-1 | Z | .018 | .018 | 0 | %100 |
| 41 | CP-1U | Z | .005 | .005 | 0 | %100 |
| 42 | CP-2 | Z | .005 | .005 | 0 | %100 |
| 43 | CP-2U | Z | .002 | .002 | 0 | %100 |
| 44 | CP-3 | Z | .013 | .013 | 0 | %100 |
| 45 | CP-3U | Z | .005 | .005 | 0 | %100 |
| 46 | FF-HR | Z | .005 | .005 | 0 | %100 |
| 47 | FFTH | Z | .006 | .006 | 0 | %100 |
| 48 | GSI-1 | Z | .016 | .016 | 0 | %100 |
| 49 | GSI-2 | Z | .004 | .004 | 0 | %100 |
| 50 | GSI-3 | Z | .012 | .012 | 0 | %100 |
| 51 | GSIP-1A | Z | .002 | .002 | 0 | %100 |
| 52 | GSIP-1B | Z | .007 | .007 | 0 | %100 |
| 53 | GSIP-2A | Z | .007 | .007 | 0 | %100 |
| 54 | GSIP-2B | Z | .009 | .009 | 0 | %100 |
| 55 | GSIP-3A | Z | .009 | .009 | 0 | %100 |
| 56 | GSIP-3B | Z | .002 | .002 | 0 | %100 |
| 57 | MP-1 | Z | .007 | .007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 58 | MP-2 | Z | .007 | .007 | 0 | %100 |
| 59 | MP-3 | Z | .007 | .007 | 0 | %100 |
| 60 | MP-4 | Z | .007 | .007 | 0 | %100 |
| 61 | MP-5 | Z | .007 | .007 | 0 | %100 |
| 62 | MP-6 | Z | .007 | .007 | 0 | %100 |
| 63 | MP-7 | Z | .007 | .007 | 0 | %100 |
| 64 | MP-8 | Z | .007 | .007 | 0 | %100 |
| 65 | MP-9 | Z | .007 | .007 | 0 | %100 |
| 66 | MP-10 | Z | .007 | .007 | 0 | %100 |
| 67 | MP-11 | Z | .007 | .007 | 0 | %100 |
| 68 | MP-12 | Z | .007 | .007 | 0 | %100 |
| 69 | SA-1 | Z | .004 | .004 | 0 | %100 |
| 70 | SA-2 | Z | .014 | .014 | 0 | %100 |
| 71 | SA-3 | Z | .012 | .012 | 0 | %100 |
| 72 | SF1-HR | Z | .007 | .007 | 0 | %100 |
| 73 | SF1-TH | Z | .008 | .008 | 0 | %100 |
| 74 | SF2-HR | Z | .002 | .002 | 0 | %100 |
| 75 | SF2-TH | Z | .002 | .002 | 0 | %100 |
| 76 | K1 | Z | .012 | .012 | 0 | %100 |
| 77 | K2 | Z | .012 | .012 | 0 | %100 |
| 78 | K3 | Z | .012 | .012 | 0 | %100 |

Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .013 | .013 | 0 | %100 |
| 2 | CP-1U | X | .004 | .004 | 0 | %100 |
| 3 | CP-2 | X | .006 | .006 | 0 | %100 |
| 4 | CP-2U | X | .002 | .002 | 0 | %100 |
| 5 | CP-3 | X | .006 | .006 | 0 | %100 |
| 6 | CP-3U | X | .002 | .002 | 0 | %100 |
| 7 | FF-HR | X | .003 | .003 | 0 | %100 |
| 8 | FFTH | X | .003 | .003 | 0 | %100 |
| 9 | GSI-1 | X | .01 | .01 | 0 | %100 |
| 10 | GSI-2 | X | .005 | .005 | 0 | %100 |
| 11 | GSI-3 | X | .006 | .006 | 0 | %100 |
| 12 | GSIP-1A | X | .003 | .003 | 0 | %100 |
| 13 | GSIP-1B | X | .004 | .004 | 0 | %100 |
| 14 | GSIP-2A | X | .004 | .004 | 0 | %100 |
| 15 | GSIP-2B | X | .006 | .006 | 0 | %100 |
| 16 | GSIP-3A | X | .006 | .006 | 0 | %100 |
| 17 | GSIP-3B | X | .003 | .003 | 0 | %100 |
| 18 | MP-1 | X | .005 | .005 | 0 | %100 |
| 19 | MP-2 | X | .005 | .005 | 0 | %100 |
| 20 | MP-3 | X | .005 | .005 | 0 | %100 |
| 21 | MP-4 | X | .005 | .005 | 0 | %100 |
| 22 | MP-5 | X | .005 | .005 | 0 | %100 |
| 23 | MP-6 | X | .005 | .005 | 0 | %100 |
| 24 | MP-7 | X | .005 | .005 | 0 | %100 |
| 25 | MP-8 | X | .005 | .005 | 0 | %100 |
| 26 | MP-9 | X | .005 | .005 | 0 | %100 |
| 27 | MP-10 | X | .005 | .005 | 0 | %100 |
| 28 | MP-11 | X | .005 | .005 | 0 | %100 |
| 29 | MP-12 | X | .005 | .005 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | .01 | .01 | 0 | %100 |
| 32 | SA-3 | X | .007 | .007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 33 | SF1-HR | X | .005 | .005 | 0 | %100 |
| 34 | SF1-TH | X | .005 | .005 | 0 | %100 |
| 35 | SF2-HR | X | .003 | .003 | 0 | %100 |
| 36 | SF2-TH | X | .003 | .003 | 0 | %100 |
| 37 | K1 | X | .008 | .008 | 0 | %100 |
| 38 | K2 | X | .008 | .008 | 0 | %100 |
| 39 | K3 | X | .008 | .008 | 0 | %100 |
| 40 | CP-1 | Z | .022 | .022 | 0 | %100 |
| 41 | CP-1U | Z | .008 | .008 | 0 | %100 |
| 42 | CP-2 | Z | .011 | .011 | 0 | %100 |
| 43 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | .02 | .02 | 0 | %100 |
| 49 | GSI-2 | Z | .01 | .01 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | .006 | .006 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | .012 | .012 | 0 | %100 |
| 55 | GSIP-3A | Z | .012 | .012 | 0 | %100 |
| 56 | GSIP-3B | Z | .006 | .006 | 0 | %100 |
| 57 | MP-1 | Z | .009 | .009 | 0 | %100 |
| 58 | MP-2 | Z | .009 | .009 | 0 | %100 |
| 59 | MP-3 | Z | .009 | .009 | 0 | %100 |
| 60 | MP-4 | Z | .009 | .009 | 0 | %100 |
| 61 | MP-5 | Z | .009 | .009 | 0 | %100 |
| 62 | MP-6 | Z | .009 | .009 | 0 | %100 |
| 63 | MP-7 | Z | .009 | .009 | 0 | %100 |
| 64 | MP-8 | Z | .009 | .009 | 0 | %100 |
| 65 | MP-9 | Z | .009 | .009 | 0 | %100 |
| 66 | MP-10 | Z | .009 | .009 | 0 | %100 |
| 67 | MP-11 | Z | .009 | .009 | 0 | %100 |
| 68 | MP-12 | Z | .009 | .009 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | .015 | .015 | 0 | %100 |
| 71 | SA-3 | Z | .018 | .018 | 0 | %100 |
| 72 | SF1-HR | Z | .009 | .009 | 0 | %100 |
| 73 | SF1-TH | Z | .01 | .01 | 0 | %100 |
| 74 | SF2-HR | Z | .004 | .004 | 0 | %100 |
| 75 | SF2-TH | Z | .005 | .005 | 0 | %100 |
| 76 | K1 | Z | .014 | .014 | 0 | %100 |
| 77 | K2 | Z | .014 | .014 | 0 | %100 |
| 78 | K3 | Z | .014 | .014 | 0 | %100 |

Member Distributed Loads (BLC 14 : 270 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | .022 | .022 | 0 | %100 |
| 2 | CP-1U | Z | .008 | .008 | 0 | %100 |
| 3 | CP-2 | Z | .022 | .022 | 0 | %100 |
| 4 | CP-2U | Z | .008 | .008 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |



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 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | .02 | .02 | 0 | %100 |
| 10 | GSI-2 | Z | .02 | .02 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | .012 | .012 | 0 | %100 |
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | .012 | .012 | 0 | %100 |
| 16 | GSIP-3A | Z | .012 | .012 | 0 | %100 |
| 17 | GSIP-3B | Z | .012 | .012 | 0 | %100 |
| 18 | MP-1 | Z | .01 | .01 | 0 | %100 |
| 19 | MP-2 | Z | .01 | .01 | 0 | %100 |
| 20 | MP-3 | Z | .01 | .01 | 0 | %100 |
| 21 | MP-4 | Z | .01 | .01 | 0 | %100 |
| 22 | MP-5 | Z | .01 | .01 | 0 | %100 |
| 23 | MP-6 | Z | .01 | .01 | 0 | %100 |
| 24 | MP-7 | Z | .01 | .01 | 0 | %100 |
| 25 | MP-8 | Z | .01 | .01 | 0 | %100 |
| 26 | MP-9 | Z | .01 | .01 | 0 | %100 |
| 27 | MP-10 | Z | .01 | .01 | 0 | %100 |
| 28 | MP-11 | Z | .01 | .01 | 0 | %100 |
| 29 | MP-12 | Z | .01 | .01 | 0 | %100 |
| 30 | SA-1 | Z | .01 | .01 | 0 | %100 |
| 31 | SA-2 | Z | .01 | .01 | 0 | %100 |
| 32 | SA-3 | Z | .024 | .024 | 0 | %100 |
| 33 | SF1-HR | Z | .009 | .009 | 0 | %100 |
| 34 | SF1-TH | Z | .01 | .01 | 0 | %100 |
| 35 | SF2-HR | Z | .009 | .009 | 0 | %100 |
| 36 | SF2-TH | Z | .01 | .01 | 0 | %100 |
| 37 | K1 | Z | .017 | .017 | 0 | %100 |
| 38 | K2 | Z | .017 | .017 | 0 | %100 |
| 39 | K3 | Z | .017 | .017 | 0 | %100 |

Member Distributed Loads (BLC 15 : 300 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -.006 | -.006 | 0 | %100 |
| 2 | CP-1U | X | -.002 | -.002 | 0 | %100 |
| 3 | CP-2 | X | -.013 | -.013 | 0 | %100 |
| 4 | CP-2U | X | -.004 | -.004 | 0 | %100 |
| 5 | CP-3 | X | -.006 | -.006 | 0 | %100 |
| 6 | CP-3U | X | -.002 | -.002 | 0 | %100 |
| 7 | FF-HR | X | -.003 | -.003 | 0 | %100 |
| 8 | FFTH | X | -.003 | -.003 | 0 | %100 |
| 9 | GSI-1 | X | -.005 | -.005 | 0 | %100 |
| 10 | GSI-2 | X | -.01 | -.01 | 0 | %100 |
| 11 | GSI-3 | X | -.006 | -.006 | 0 | %100 |
| 12 | GSIP-1A | X | -.006 | -.006 | 0 | %100 |
| 13 | GSIP-1B | X | -.004 | -.004 | 0 | %100 |
| 14 | GSIP-2A | X | -.004 | -.004 | 0 | %100 |
| 15 | GSIP-2B | X | -.003 | -.003 | 0 | %100 |
| 16 | GSIP-3A | X | -.003 | -.003 | 0 | %100 |
| 17 | GSIP-3B | X | -.006 | -.006 | 0 | %100 |
| 18 | MP-1 | X | -.005 | -.005 | 0 | %100 |
| 19 | MP-2 | X | -.005 | -.005 | 0 | %100 |
| 20 | MP-3 | X | -.005 | -.005 | 0 | %100 |
| 21 | MP-4 | X | -.005 | -.005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 22 | MP-5 | X | -0.05 | -0.05 | 0 %100 |
| 23 | MP-6 | X | -0.05 | -0.05 | 0 %100 |
| 24 | MP-7 | X | -0.05 | -0.05 | 0 %100 |
| 25 | MP-8 | X | -0.05 | -0.05 | 0 %100 |
| 26 | MP-9 | X | -0.05 | -0.05 | 0 %100 |
| 27 | MP-10 | X | -0.05 | -0.05 | 0 %100 |
| 28 | MP-11 | X | -0.05 | -0.05 | 0 %100 |
| 29 | MP-12 | X | -0.05 | -0.05 | 0 %100 |
| 30 | SA-1 | X | -.01 | -.01 | 0 %100 |
| 31 | SA-2 | X | 0 | 0 | 0 %100 |
| 32 | SA-3 | X | -.007 | -.007 | 0 %100 |
| 33 | SF1-HR | X | -.003 | -.003 | 0 %100 |
| 34 | SF1-TH | X | -.003 | -.003 | 0 %100 |
| 35 | SF2-HR | X | -.005 | -.005 | 0 %100 |
| 36 | SF2-TH | X | -.005 | -.005 | 0 %100 |
| 37 | K1 | X | -.008 | -.008 | 0 %100 |
| 38 | K2 | X | -.008 | -.008 | 0 %100 |
| 39 | K3 | X | -.008 | -.008 | 0 %100 |
| 40 | CP-1 | Z | .011 | .011 | 0 %100 |
| 41 | CP-1U | Z | .004 | .004 | 0 %100 |
| 42 | CP-2 | Z | .022 | .022 | 0 %100 |
| 43 | CP-2U | Z | .008 | .008 | 0 %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 %100 |
| 47 | FFTH | Z | .005 | .005 | 0 %100 |
| 48 | GSI-1 | Z | .01 | .01 | 0 %100 |
| 49 | GSI-2 | Z | .02 | .02 | 0 %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 %100 |
| 51 | GSIP-1A | Z | .012 | .012 | 0 %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 %100 |
| 54 | GSIP-2B | Z | .006 | .006 | 0 %100 |
| 55 | GSIP-3A | Z | .006 | .006 | 0 %100 |
| 56 | GSIP-3B | Z | .012 | .012 | 0 %100 |
| 57 | MP-1 | Z | .009 | .009 | 0 %100 |
| 58 | MP-2 | Z | .009 | .009 | 0 %100 |
| 59 | MP-3 | Z | .009 | .009 | 0 %100 |
| 60 | MP-4 | Z | .009 | .009 | 0 %100 |
| 61 | MP-5 | Z | .009 | .009 | 0 %100 |
| 62 | MP-6 | Z | .009 | .009 | 0 %100 |
| 63 | MP-7 | Z | .009 | .009 | 0 %100 |
| 64 | MP-8 | Z | .009 | .009 | 0 %100 |
| 65 | MP-9 | Z | .009 | .009 | 0 %100 |
| 66 | MP-10 | Z | .009 | .009 | 0 %100 |
| 67 | MP-11 | Z | .009 | .009 | 0 %100 |
| 68 | MP-12 | Z | .009 | .009 | 0 %100 |
| 69 | SA-1 | Z | .015 | .015 | 0 %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 %100 |
| 71 | SA-3 | Z | .018 | .018 | 0 %100 |
| 72 | SF1-HR | Z | .004 | .004 | 0 %100 |
| 73 | SF1-TH | Z | .005 | .005 | 0 %100 |
| 74 | SF2-HR | Z | .009 | .009 | 0 %100 |
| 75 | SF2-TH | Z | .01 | .01 | 0 %100 |
| 76 | K1 | Z | .014 | .014 | 0 %100 |
| 77 | K2 | Z | .014 | .014 | 0 %100 |
| 78 | K3 | Z | .014 | .014 | 0 %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 | CP-1 | X | -0.05 | -0.05 | 0 %100 |
| 2 | CP-1U | X | -.002 | -.002 | 0 %100 |
| 3 | CP-2 | X | -.018 | -.018 | 0 %100 |
| 4 | CP-2U | X | -.006 | -.006 | 0 %100 |
| 5 | CP-3 | X | -.013 | -.013 | 0 %100 |
| 6 | CP-3U | X | -.005 | -.005 | 0 %100 |
| 7 | FF-HR | X | -.005 | -.005 | 0 %100 |
| 8 | FFTH | X | -.006 | -.006 | 0 %100 |
| 9 | GSI-1 | X | -.004 | -.004 | 0 %100 |
| 10 | GSI-2 | X | -.014 | -.014 | 0 %100 |
| 11 | GSI-3 | X | -.012 | -.012 | 0 %100 |
| 12 | GSIP-1A | X | -.008 | -.008 | 0 %100 |
| 13 | GSIP-1B | X | -.007 | -.007 | 0 %100 |
| 14 | GSIP-2A | X | -.007 | -.007 | 0 %100 |
| 15 | GSIP-2B | X | -.002 | -.002 | 0 %100 |
| 16 | GSIP-3A | X | -.002 | -.002 | 0 %100 |
| 17 | GSIP-3B | X | -.008 | -.008 | 0 %100 |
| 18 | MP-1 | X | -.007 | -.007 | 0 %100 |
| 19 | MP-2 | X | -.007 | -.007 | 0 %100 |
| 20 | MP-3 | X | -.007 | -.007 | 0 %100 |
| 21 | MP-4 | X | -.007 | -.007 | 0 %100 |
| 22 | MP-5 | X | -.007 | -.007 | 0 %100 |
| 23 | MP-6 | X | -.007 | -.007 | 0 %100 |
| 24 | MP-7 | X | -.007 | -.007 | 0 %100 |
| 25 | MP-8 | X | -.007 | -.007 | 0 %100 |
| 26 | MP-9 | X | -.007 | -.007 | 0 %100 |
| 27 | MP-10 | X | -.007 | -.007 | 0 %100 |
| 28 | MP-11 | X | -.007 | -.007 | 0 %100 |
| 29 | MP-12 | X | -.007 | -.007 | 0 %100 |
| 30 | SA-1 | X | -.016 | -.016 | 0 %100 |
| 31 | SA-2 | X | -.004 | -.004 | 0 %100 |
| 32 | SA-3 | X | -.009 | -.009 | 0 %100 |
| 33 | SF1-HR | X | -.002 | -.002 | 0 %100 |
| 34 | SF1-TH | X | -.002 | -.002 | 0 %100 |
| 35 | SF2-HR | X | -.007 | -.007 | 0 %100 |
| 36 | SF2-TH | X | -.007 | -.007 | 0 %100 |
| 37 | K1 | X | -.012 | -.012 | 0 %100 |
| 38 | K2 | X | -.012 | -.012 | 0 %100 |
| 39 | K3 | X | -.012 | -.012 | 0 %100 |
| 40 | CP-1 | Z | .005 | .005 | 0 %100 |
| 41 | CP-1U | Z | .002 | .002 | 0 %100 |
| 42 | CP-2 | Z | .018 | .018 | 0 %100 |
| 43 | CP-2U | Z | .006 | .006 | 0 %100 |
| 44 | CP-3 | Z | .013 | .013 | 0 %100 |
| 45 | CP-3U | Z | .005 | .005 | 0 %100 |
| 46 | FF-HR | Z | .005 | .005 | 0 %100 |
| 47 | FFTH | Z | .006 | .006 | 0 %100 |
| 48 | GSI-1 | Z | .004 | .004 | 0 %100 |
| 49 | GSI-2 | Z | .016 | .016 | 0 %100 |
| 50 | GSI-3 | Z | .012 | .012 | 0 %100 |
| 51 | GSIP-1A | Z | .009 | .009 | 0 %100 |
| 52 | GSIP-1B | Z | .007 | .007 | 0 %100 |
| 53 | GSIP-2A | Z | .007 | .007 | 0 %100 |
| 54 | GSIP-2B | Z | .002 | .002 | 0 %100 |
| 55 | GSIP-3A | Z | .002 | .002 | 0 %100 |
| 56 | GSIP-3B | Z | .009 | .009 | 0 %100 |
| 57 | MP-1 | Z | .007 | .007 | 0 %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 58 | MP-2 | Z | .007 | .007 | 0 | %100 |
| 59 | MP-3 | Z | .007 | .007 | 0 | %100 |
| 60 | MP-4 | Z | .007 | .007 | 0 | %100 |
| 61 | MP-5 | Z | .007 | .007 | 0 | %100 |
| 62 | MP-6 | Z | .007 | .007 | 0 | %100 |
| 63 | MP-7 | Z | .007 | .007 | 0 | %100 |
| 64 | MP-8 | Z | .007 | .007 | 0 | %100 |
| 65 | MP-9 | Z | .007 | .007 | 0 | %100 |
| 66 | MP-10 | Z | .007 | .007 | 0 | %100 |
| 67 | MP-11 | Z | .007 | .007 | 0 | %100 |
| 68 | MP-12 | Z | .007 | .007 | 0 | %100 |
| 69 | SA-1 | Z | .014 | .014 | 0 | %100 |
| 70 | SA-2 | Z | .004 | .004 | 0 | %100 |
| 71 | SA-3 | Z | .012 | .012 | 0 | %100 |
| 72 | SF1-HR | Z | .002 | .002 | 0 | %100 |
| 73 | SF1-TH | Z | .002 | .002 | 0 | %100 |
| 74 | SF2-HR | Z | .007 | .007 | 0 | %100 |
| 75 | SF2-TH | Z | .008 | .008 | 0 | %100 |
| 76 | K1 | Z | .012 | .012 | 0 | %100 |
| 77 | K2 | Z | .012 | .012 | 0 | %100 |
| 78 | K3 | Z | .012 | .012 | 0 | %100 |

Member Distributed Loads (BLC 17 : 330 Wind - No Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0 | 0 | 0 | %100 |
| 2 | CP-1U | X | 0 | 0 | 0 | %100 |
| 3 | CP-2 | X | -.019 | -.019 | 0 | %100 |
| 4 | CP-2U | X | -.007 | -.007 | 0 | %100 |
| 5 | CP-3 | X | -.019 | -.019 | 0 | %100 |
| 6 | CP-3U | X | -.007 | -.007 | 0 | %100 |
| 7 | FF-HR | X | -.008 | -.008 | 0 | %100 |
| 8 | FFTH | X | -.009 | -.009 | 0 | %100 |
| 9 | GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 | GSI-2 | X | -.015 | -.015 | 0 | %100 |
| 11 | GSI-3 | X | -.018 | -.018 | 0 | %100 |
| 12 | GSIP-1A | X | -.008 | -.008 | 0 | %100 |
| 13 | GSIP-1B | X | -.011 | -.011 | 0 | %100 |
| 14 | GSIP-2A | X | -.011 | -.011 | 0 | %100 |
| 15 | GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 | GSIP-3A | X | -1e-6 | -1e-6 | 0 | %100 |
| 17 | GSIP-3B | X | -.008 | -.008 | 0 | %100 |
| 18 | MP-1 | X | -.009 | -.009 | 0 | %100 |
| 19 | MP-2 | X | -.009 | -.009 | 0 | %100 |
| 20 | MP-3 | X | -.009 | -.009 | 0 | %100 |
| 21 | MP-4 | X | -.009 | -.009 | 0 | %100 |
| 22 | MP-5 | X | -.009 | -.009 | 0 | %100 |
| 23 | MP-6 | X | -.009 | -.009 | 0 | %100 |
| 24 | MP-7 | X | -.009 | -.009 | 0 | %100 |
| 25 | MP-8 | X | -.009 | -.009 | 0 | %100 |
| 26 | MP-9 | X | -.009 | -.009 | 0 | %100 |
| 27 | MP-10 | X | -.009 | -.009 | 0 | %100 |
| 28 | MP-11 | X | -.009 | -.009 | 0 | %100 |
| 29 | MP-12 | X | -.009 | -.009 | 0 | %100 |
| 30 | SA-1 | X | -.02 | -.02 | 0 | %100 |
| 31 | SA-2 | X | -.01 | -.01 | 0 | %100 |
| 32 | SA-3 | X | -.007 | -.007 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 33 | SF1-HR | X | 0 | 0 | 0 | %100 |
| 34 | SF1-TH | X | 0 | 0 | 0 | %100 |
| 35 | SF2-HR | X | -.008 | -.008 | 0 | %100 |
| 36 | SF2-TH | X | -.008 | -.008 | 0 | %100 |
| 37 | K1 | X | -.014 | -.014 | 0 | %100 |
| 38 | K2 | X | -.014 | -.014 | 0 | %100 |
| 39 | K3 | X | -.014 | -.014 | 0 | %100 |
| 40 | CP-1 | Z | 0 | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | 0 | %100 |
| 42 | CP-2 | Z | .011 | .011 | 0 | %100 |
| 43 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 44 | CP-3 | Z | .011 | .011 | 0 | %100 |
| 45 | CP-3U | Z | .004 | .004 | 0 | %100 |
| 46 | FF-HR | Z | .004 | .004 | 0 | %100 |
| 47 | FFTH | Z | .005 | .005 | 0 | %100 |
| 48 | GSI-1 | Z | 0 | 0 | 0 | %100 |
| 49 | GSI-2 | Z | .01 | .01 | 0 | %100 |
| 50 | GSI-3 | Z | .01 | .01 | 0 | %100 |
| 51 | GSIP-1A | Z | .006 | .006 | 0 | %100 |
| 52 | GSIP-1B | Z | .006 | .006 | 0 | %100 |
| 53 | GSIP-2A | Z | .006 | .006 | 0 | %100 |
| 54 | GSIP-2B | Z | 0 | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | .006 | .006 | 0 | %100 |
| 57 | MP-1 | Z | .005 | .005 | 0 | %100 |
| 58 | MP-2 | Z | .005 | .005 | 0 | %100 |
| 59 | MP-3 | Z | .005 | .005 | 0 | %100 |
| 60 | MP-4 | Z | .005 | .005 | 0 | %100 |
| 61 | MP-5 | Z | .005 | .005 | 0 | %100 |
| 62 | MP-6 | Z | .005 | .005 | 0 | %100 |
| 63 | MP-7 | Z | .005 | .005 | 0 | %100 |
| 64 | MP-8 | Z | .005 | .005 | 0 | %100 |
| 65 | MP-9 | Z | .005 | .005 | 0 | %100 |
| 66 | MP-10 | Z | .005 | .005 | 0 | %100 |
| 67 | MP-11 | Z | .005 | .005 | 0 | %100 |
| 68 | MP-12 | Z | .005 | .005 | 0 | %100 |
| 69 | SA-1 | Z | .01 | .01 | 0 | %100 |
| 70 | SA-2 | Z | .005 | .005 | 0 | %100 |
| 71 | SA-3 | Z | .006 | .006 | 0 | %100 |
| 72 | SF1-HR | Z | 0 | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | 0 | %100 |
| 74 | SF2-HR | Z | .004 | .004 | 0 | %100 |
| 75 | SF2-TH | Z | .005 | .005 | 0 | %100 |
| 76 | K1 | Z | .008 | .008 | 0 | %100 |
| 77 | K2 | Z | .008 | .008 | 0 | %100 |
| 78 | K3 | Z | .008 | .008 | 0 | %100 |

Member Distributed Loads (BLC 18 : Ice Weight)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Y | -.017 | -.017 | 0 | %100 |
| 2 | CP-1U | Y | -.006 | -.006 | 0 | %100 |
| 3 | CP-2 | Y | -.017 | -.017 | 0 | %100 |
| 4 | CP-2U | Y | -.006 | -.006 | 0 | %100 |
| 5 | CP-3 | Y | -.017 | -.017 | 0 | %100 |
| 6 | CP-3U | Y | -.006 | -.006 | 0 | %100 |
| 7 | FF-HR | Y | -.007 | -.007 | 0 | %100 |



Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 8 | FFTH | Y | -0.09 | -0.09 | 0 | %100 |
| 9 | GSI-1 | Y | -0.09 | -0.09 | 0 | %100 |
| 10 | GSI-2 | Y | -0.09 | -0.09 | 0 | %100 |
| 11 | GSI-3 | Y | -0.09 | -0.09 | 0 | %100 |
| 12 | GSIP-1A | Y | -0.05 | -0.05 | 0 | %100 |
| 13 | GSIP-1B | Y | -0.05 | -0.05 | 0 | %100 |
| 14 | GSIP-2A | Y | -0.05 | -0.05 | 0 | %100 |
| 15 | GSIP-2B | Y | -0.05 | -0.05 | 0 | %100 |
| 16 | GSIP-3A | Y | -0.05 | -0.05 | 0 | %100 |
| 17 | GSIP-3B | Y | -0.05 | -0.05 | 0 | %100 |
| 18 | MP-1 | Y | -0.07 | -0.07 | 0 | %100 |
| 19 | MP-2 | Y | -0.07 | -0.07 | 0 | %100 |
| 20 | MP-3 | Y | -0.07 | -0.07 | 0 | %100 |
| 21 | MP-4 | Y | -0.07 | -0.07 | 0 | %100 |
| 22 | MP-5 | Y | -0.07 | -0.07 | 0 | %100 |
| 23 | MP-6 | Y | -0.07 | -0.07 | 0 | %100 |
| 24 | MP-7 | Y | -0.07 | -0.07 | 0 | %100 |
| 25 | MP-8 | Y | -0.07 | -0.07 | 0 | %100 |
| 26 | MP-9 | Y | -0.07 | -0.07 | 0 | %100 |
| 27 | MP-10 | Y | -0.07 | -0.07 | 0 | %100 |
| 28 | MP-11 | Y | -0.07 | -0.07 | 0 | %100 |
| 29 | MP-12 | Y | -0.07 | -0.07 | 0 | %100 |
| 30 | SA-1 | Y | -0.09 | -0.09 | 0 | %100 |
| 31 | SA-2 | Y | -0.09 | -0.09 | 0 | %100 |
| 32 | SA-3 | Y | -0.09 | -0.09 | 0 | %100 |
| 33 | SF1-HR | Y | -0.07 | -0.07 | 0 | %100 |
| 34 | SF1-TH | Y | -0.09 | -0.09 | 0 | %100 |
| 35 | SF2-HR | Y | -0.07 | -0.07 | 0 | %100 |
| 36 | SF2-TH | Y | -0.09 | -0.09 | 0 | %100 |
| 37 | K1 | Y | -0.06 | -0.06 | 0 | %100 |
| 38 | K2 | Y | -0.06 | -0.06 | 0 | %100 |
| 39 | K3 | Y | -0.06 | -0.06 | 0 | %100 |

Member Distributed Loads (BLC 19 : 0 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.08 | -0.08 | 0 | %100 |
| 2 | CP-1U | X | -0.04 | -0.04 | 0 | %100 |
| 3 | CP-2 | X | -0.08 | -0.08 | 0 | %100 |
| 4 | CP-2U | X | -0.04 | -0.04 | 0 | %100 |
| 5 | CP-3 | X | -0.08 | -0.08 | 0 | %100 |
| 6 | CP-3U | X | -0.04 | -0.04 | 0 | %100 |
| 7 | FF-HR | X | -0.04 | -0.04 | 0 | %100 |
| 8 | FFTH | X | -0.05 | -0.05 | 0 | %100 |
| 9 | GSI-1 | X | -0.06 | -0.06 | 0 | %100 |
| 10 | GSI-2 | X | -0.06 | -0.06 | 0 | %100 |
| 11 | GSI-3 | X | -0.06 | -0.06 | 0 | %100 |
| 12 | GSIP-1A | X | -0.04 | -0.04 | 0 | %100 |
| 13 | GSIP-1B | X | -0.05 | -0.05 | 0 | %100 |
| 14 | GSIP-2A | X | -0.05 | -0.05 | 0 | %100 |
| 15 | GSIP-2B | X | -0.04 | -0.04 | 0 | %100 |
| 16 | GSIP-3A | X | -0.04 | -0.04 | 0 | %100 |
| 17 | GSIP-3B | X | -0.04 | -0.04 | 0 | %100 |
| 18 | MP-1 | X | -0.03 | -0.03 | 0 | %100 |
| 19 | MP-2 | X | -0.03 | -0.03 | 0 | %100 |
| 20 | MP-3 | X | -0.03 | -0.03 | 0 | %100 |
| 21 | MP-4 | X | -0.03 | -0.03 | 0 | %100 |



Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 22 | MP-5 | X | -0.03 | -0.03 | 0 | %100 |
| 23 | MP-6 | X | -0.03 | -0.03 | 0 | %100 |
| 24 | MP-7 | X | -0.03 | -0.03 | 0 | %100 |
| 25 | MP-8 | X | -0.03 | -0.03 | 0 | %100 |
| 26 | MP-9 | X | -0.03 | -0.03 | 0 | %100 |
| 27 | MP-10 | X | -0.03 | -0.03 | 0 | %100 |
| 28 | MP-11 | X | -0.03 | -0.03 | 0 | %100 |
| 29 | MP-12 | X | -0.03 | -0.03 | 0 | %100 |
| 30 | SA-1 | X | -0.06 | -0.06 | 0 | %100 |
| 31 | SA-2 | X | -0.06 | -0.06 | 0 | %100 |
| 32 | SA-3 | X | -0.05 | -0.05 | 0 | %100 |
| 33 | SF1-HR | X | -0.03 | -0.03 | 0 | %100 |
| 34 | SF1-TH | X | -0.04 | -0.04 | 0 | %100 |
| 35 | SF2-HR | X | -0.03 | -0.03 | 0 | %100 |
| 36 | SF2-TH | X | -0.04 | -0.04 | 0 | %100 |
| 37 | K1 | X | -0.05 | -0.05 | 0 | %100 |
| 38 | K2 | X | -0.05 | -0.05 | 0 | %100 |
| 39 | K3 | X | -0.05 | -0.05 | 0 | %100 |

Member Distributed Loads (BLC 20 : 30 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.06 | -0.06 | 0 | %100 |
| 2 | CP-1U | X | -0.03 | -0.03 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | -0.06 | -0.06 | 0 | %100 |
| 6 | CP-3U | X | -0.03 | -0.03 | 0 | %100 |
| 7 | FF-HR | X | -0.03 | -0.03 | 0 | %100 |
| 8 | FFTH | X | -0.03 | -0.03 | 0 | %100 |
| 9 | GSI-1 | X | -0.04 | -0.04 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | -0.05 | -0.05 | 0 | %100 |
| 12 | GSIP-1A | X | 0 | 0 | 0 | %100 |
| 13 | GSIP-1B | X | -0.04 | -0.04 | 0 | %100 |
| 14 | GSIP-2A | X | -0.04 | -0.04 | 0 | %100 |
| 15 | GSIP-2B | X | -0.03 | -0.03 | 0 | %100 |
| 16 | GSIP-3A | X | -0.03 | -0.03 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | -0.03 | -0.03 | 0 | %100 |
| 19 | MP-2 | X | -0.03 | -0.03 | 0 | %100 |
| 20 | MP-3 | X | -0.03 | -0.03 | 0 | %100 |
| 21 | MP-4 | X | -0.03 | -0.03 | 0 | %100 |
| 22 | MP-5 | X | -0.03 | -0.03 | 0 | %100 |
| 23 | MP-6 | X | -0.03 | -0.03 | 0 | %100 |
| 24 | MP-7 | X | -0.03 | -0.03 | 0 | %100 |
| 25 | MP-8 | X | -0.03 | -0.03 | 0 | %100 |
| 26 | MP-9 | X | -0.03 | -0.03 | 0 | %100 |
| 27 | MP-10 | X | -0.03 | -0.03 | 0 | %100 |
| 28 | MP-11 | X | -0.03 | -0.03 | 0 | %100 |
| 29 | MP-12 | X | -0.03 | -0.03 | 0 | %100 |
| 30 | SA-1 | X | -0.03 | -0.03 | 0 | %100 |
| 31 | SA-2 | X | -0.05 | -0.05 | 0 | %100 |
| 32 | SA-3 | X | -0.02 | -0.02 | 0 | %100 |
| 33 | SF1-HR | X | -0.02 | -0.02 | 0 | %100 |
| 34 | SF1-TH | X | -0.03 | -0.03 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

June 19, 2020
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 Checked By: HBC

Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 36 | SF2-TH | X | 0 | 0 | %100 | |
| 37 | K1 | X | -0.004 | -0.004 | 0 | %100 |
| 38 | K2 | X | -0.004 | -0.004 | 0 | %100 |
| 39 | K3 | X | -0.004 | -0.004 | 0 | %100 |
| 40 | CP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 41 | CP-1U | Z | -0.002 | -0.002 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 | %100 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 | %100 |
| 48 | GSI-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.002 | -0.002 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.002 | -0.002 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | -0.002 | -0.002 | 0 | %100 |
| 58 | MP-2 | Z | -0.002 | -0.002 | 0 | %100 |
| 59 | MP-3 | Z | -0.002 | -0.002 | 0 | %100 |
| 60 | MP-4 | Z | -0.002 | -0.002 | 0 | %100 |
| 61 | MP-5 | Z | -0.002 | -0.002 | 0 | %100 |
| 62 | MP-6 | Z | -0.002 | -0.002 | 0 | %100 |
| 63 | MP-7 | Z | -0.002 | -0.002 | 0 | %100 |
| 64 | MP-8 | Z | -0.002 | -0.002 | 0 | %100 |
| 65 | MP-9 | Z | -0.002 | -0.002 | 0 | %100 |
| 66 | MP-10 | Z | -0.002 | -0.002 | 0 | %100 |
| 67 | MP-11 | Z | -0.002 | -0.002 | 0 | %100 |
| 68 | MP-12 | Z | -0.002 | -0.002 | 0 | %100 |
| 69 | SA-1 | Z | -0.001 | -0.001 | 0 | %100 |
| 70 | SA-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 71 | SA-3 | Z | -0.002 | -0.002 | 0 | %100 |
| 72 | SF1-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 73 | SF1-TH | Z | -0.002 | -0.002 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | -0.003 | -0.003 | 0 | %100 |
| 77 | K2 | Z | -0.003 | -0.003 | 0 | %100 |
| 78 | K3 | Z | -0.003 | -0.003 | 0 | %100 |

Member Distributed Loads (BLC 21 : 45 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.005 | -0.005 | 0 | %100 |
| 2 | CP-1U | X | -0.003 | -0.003 | 0 | %100 |
| 3 | CP-2 | X | -0.001 | -0.001 | 0 | %100 |
| 4 | CP-2U | X | -0.00802 | -0.00802 | 0 | %100 |
| 5 | CP-3 | X | -0.004 | -0.004 | 0 | %100 |
| 6 | CP-3U | X | -0.002 | -0.002 | 0 | %100 |
| 7 | FF-HR | X | -0.002 | -0.002 | 0 | %100 |
| 8 | FFTH | X | -0.002 | -0.002 | 0 | %100 |
| 9 | GSI-1 | X | -0.004 | -0.004 | 0 | %100 |
| 10 | GSI-2 | X | -0.001 | -0.001 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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 Checked By: HBC

Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 11 | GSI-3 | X | -0.003 | -0.003 | 0 | %100 |
| 12 | GSIP-1A | X | -0.000767 | -0.000767 | 0 | %100 |
| 13 | GSIP-1B | X | -0.002 | -0.002 | 0 | %100 |
| 14 | GSIP-2A | X | -0.002 | -0.002 | 0 | %100 |
| 15 | GSIP-2B | X | -0.003 | -0.003 | 0 | %100 |
| 16 | GSIP-3A | X | -0.003 | -0.003 | 0 | %100 |
| 17 | GSIP-3B | X | -0.000767 | -0.000767 | 0 | %100 |
| 18 | MP-1 | X | -0.002 | -0.002 | 0 | %100 |
| 19 | MP-2 | X | -0.002 | -0.002 | 0 | %100 |
| 20 | MP-3 | X | -0.002 | -0.002 | 0 | %100 |
| 21 | MP-4 | X | -0.002 | -0.002 | 0 | %100 |
| 22 | MP-5 | X | -0.002 | -0.002 | 0 | %100 |
| 23 | MP-6 | X | -0.002 | -0.002 | 0 | %100 |
| 24 | MP-7 | X | -0.002 | -0.002 | 0 | %100 |
| 25 | MP-8 | X | -0.002 | -0.002 | 0 | %100 |
| 26 | MP-9 | X | -0.002 | -0.002 | 0 | %100 |
| 27 | MP-10 | X | -0.002 | -0.002 | 0 | %100 |
| 28 | MP-11 | X | -0.002 | -0.002 | 0 | %100 |
| 29 | MP-12 | X | -0.002 | -0.002 | 0 | %100 |
| 30 | SA-1 | X | -0.001 | -0.001 | 0 | %100 |
| 31 | SA-2 | X | -0.004 | -0.004 | 0 | %100 |
| 32 | SA-3 | X | -0.003 | -0.003 | 0 | %100 |
| 33 | SF1-HR | X | -0.002 | -0.002 | 0 | %100 |
| 34 | SF1-TH | X | -0.002 | -0.002 | 0 | %100 |
| 35 | SF2-HR | X | -0.000577 | -0.000577 | 0 | %100 |
| 36 | SF2-TH | X | -0.000659 | -0.000659 | 0 | %100 |
| 37 | K1 | X | -0.003 | -0.003 | 0 | %100 |
| 38 | K2 | X | -0.003 | -0.003 | 0 | %100 |
| 39 | K3 | X | -0.003 | -0.003 | 0 | %100 |
| 40 | CP-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 41 | CP-1U | Z | -0.003 | -0.003 | 0 | %100 |
| 42 | CP-2 | Z | -0.001 | -0.001 | 0 | %100 |
| 43 | CP-2U | Z | -0.00081 | -0.00081 | 0 | %100 |
| 44 | CP-3 | Z | -0.004 | -0.004 | 0 | %100 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 | %100 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 | %100 |
| 48 | GSI-1 | Z | -0.004 | -0.004 | 0 | %100 |
| 49 | GSI-2 | Z | -0.001 | -0.001 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.000845 | -0.000845 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.003 | -0.003 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.003 | -0.003 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.000846 | -0.000846 | 0 | %100 |
| 57 | MP-1 | Z | -0.002 | -0.002 | 0 | %100 |
| 58 | MP-2 | Z | -0.002 | -0.002 | 0 | %100 |
| 59 | MP-3 | Z | -0.002 | -0.002 | 0 | %100 |
| 60 | MP-4 | Z | -0.002 | -0.002 | 0 | %100 |
| 61 | MP-5 | Z | -0.002 | -0.002 | 0 | %100 |
| 62 | MP-6 | Z | -0.002 | -0.002 | 0 | %100 |
| 63 | MP-7 | Z | -0.002 | -0.002 | 0 | %100 |
| 64 | MP-8 | Z | -0.002 | -0.002 | 0 | %100 |
| 65 | MP-9 | Z | -0.002 | -0.002 | 0 | %100 |
| 66 | MP-10 | Z | -0.002 | -0.002 | 0 | %100 |
| 67 | MP-11 | Z | -0.002 | -0.002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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 Checked By: HBC

Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 68 | MP-12 | Z | -0.02 | -0.02 | 0 | %100 |
| 69 | SA-1 | Z | -0.001 | -0.001 | 0 | %100 |
| 70 | SA-2 | Z | -0.004 | -0.004 | 0 | %100 |
| 71 | SA-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 72 | SF1-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 73 | SF1-TH | Z | -0.003 | -0.003 | 0 | %100 |
| 74 | SF2-HR | Z | -0.000713 | -0.000713 | 0 | %100 |
| 75 | SF2-TH | Z | -0.000796 | -0.000796 | 0 | %100 |
| 76 | K1 | Z | -0.004 | -0.004 | 0 | %100 |
| 77 | K2 | Z | -0.004 | -0.004 | 0 | %100 |
| 78 | K3 | Z | -0.004 | -0.004 | 0 | %100 |

Member Distributed Loads (BLC 22 : 60 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -0.004 | -0.004 | 0 | %100 |
| 2 | CP-1U | X | -0.002 | -0.002 | 0 | %100 |
| 3 | CP-2 | X | -0.002 | -0.002 | 0 | %100 |
| 4 | CP-2U | X | -0.001 | -0.001 | 0 | %100 |
| 5 | CP-3 | X | -0.002 | -0.002 | 0 | %100 |
| 6 | CP-3U | X | -0.001 | -0.001 | 0 | %100 |
| 7 | FF-HR | X | -0.000973 | -0.000973 | 0 | %100 |
| 8 | FFTH | X | -0.001 | -0.001 | 0 | %100 |
| 9 | GSI-1 | X | -0.003 | -0.003 | 0 | %100 |
| 10 | GSI-2 | X | -0.001 | -0.001 | 0 | %100 |
| 11 | GSI-3 | X | -0.002 | -0.002 | 0 | %100 |
| 12 | GSIP-1A | X | -0.001 | -0.001 | 0 | %100 |
| 13 | GSIP-1B | X | -0.001 | -0.001 | 0 | %100 |
| 14 | GSIP-2A | X | -0.001 | -0.001 | 0 | %100 |
| 15 | GSIP-2B | X | -0.002 | -0.002 | 0 | %100 |
| 16 | GSIP-3A | X | -0.002 | -0.002 | 0 | %100 |
| 17 | GSIP-3B | X | -0.001 | -0.001 | 0 | %100 |
| 18 | MP-1 | X | -0.002 | -0.002 | 0 | %100 |
| 19 | MP-2 | X | -0.002 | -0.002 | 0 | %100 |
| 20 | MP-3 | X | -0.002 | -0.002 | 0 | %100 |
| 21 | MP-4 | X | -0.002 | -0.002 | 0 | %100 |
| 22 | MP-5 | X | -0.002 | -0.002 | 0 | %100 |
| 23 | MP-6 | X | -0.002 | -0.002 | 0 | %100 |
| 24 | MP-7 | X | -0.002 | -0.002 | 0 | %100 |
| 25 | MP-8 | X | -0.002 | -0.002 | 0 | %100 |
| 26 | MP-9 | X | -0.002 | -0.002 | 0 | %100 |
| 27 | MP-10 | X | -0.002 | -0.002 | 0 | %100 |
| 28 | MP-11 | X | -0.002 | -0.002 | 0 | %100 |
| 29 | MP-12 | X | -0.002 | -0.002 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | -0.003 | -0.003 | 0 | %100 |
| 32 | SA-3 | X | -0.002 | -0.002 | 0 | %100 |
| 33 | SF1-HR | X | -0.002 | -0.002 | 0 | %100 |
| 34 | SF1-TH | X | -0.002 | -0.002 | 0 | %100 |
| 35 | SF2-HR | X | -0.000789 | -0.000789 | 0 | %100 |
| 36 | SF2-TH | X | -0.0009 | -0.0009 | 0 | %100 |
| 37 | K1 | X | -0.002 | -0.002 | 0 | %100 |
| 38 | K2 | X | -0.002 | -0.002 | 0 | %100 |
| 39 | K3 | X | -0.002 | -0.002 | 0 | %100 |
| 40 | CP-1 | Z | -0.007 | -0.007 | 0 | %100 |
| 41 | CP-1U | Z | -0.004 | -0.004 | 0 | %100 |
| 42 | CP-2 | Z | -0.003 | -0.003 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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 Checked By: HBC

Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 43 | CP-2U | Z | -0.002 | -0.002 | 0 | %100 |
| 44 | CP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 | %100 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 | %100 |
| 48 | GSI-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 49 | GSI-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.002 | -0.002 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.004 | -0.004 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.004 | -0.004 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.002 | -0.002 | 0 | %100 |
| 57 | MP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 58 | MP-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 59 | MP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 60 | MP-4 | Z | -0.003 | -0.003 | 0 | %100 |
| 61 | MP-5 | Z | -0.003 | -0.003 | 0 | %100 |
| 62 | MP-6 | Z | -0.003 | -0.003 | 0 | %100 |
| 63 | MP-7 | Z | -0.003 | -0.003 | 0 | %100 |
| 64 | MP-8 | Z | -0.003 | -0.003 | 0 | %100 |
| 65 | MP-9 | Z | -0.003 | -0.003 | 0 | %100 |
| 66 | MP-10 | Z | -0.003 | -0.003 | 0 | %100 |
| 67 | MP-11 | Z | -0.003 | -0.003 | 0 | %100 |
| 68 | MP-12 | Z | -0.003 | -0.003 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | -0.004 | -0.004 | 0 | %100 |
| 71 | SA-3 | Z | -0.005 | -0.005 | 0 | %100 |
| 72 | SF1-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 73 | SF1-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 74 | SF2-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 75 | SF2-TH | Z | -0.002 | -0.002 | 0 | %100 |
| 76 | K1 | Z | -0.004 | -0.004 | 0 | %100 |
| 77 | K2 | Z | -0.004 | -0.004 | 0 | %100 |
| 78 | K3 | Z | -0.004 | -0.004 | 0 | %100 |

Member Distributed Loads (BLC 23 : 90 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | -0.007 | -0.007 | 0 | %100 |
| 2 | CP-1U | Z | -0.004 | -0.004 | 0 | %100 |
| 3 | CP-2 | Z | -0.007 | -0.007 | 0 | %100 |
| 4 | CP-2U | Z | -0.004 | -0.004 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | -0.005 | -0.005 | 0 | %100 |
| 10 | GSI-2 | Z | -0.005 | -0.005 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | -0.004 | -0.004 | 0 | %100 |
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | -0.004 | -0.004 | 0 | %100 |
| 16 | GSIP-3A | Z | -0.004 | -0.004 | 0 | %100 |
| 17 | GSIP-3B | Z | -0.004 | -0.004 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 18 | MP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 19 | MP-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 20 | MP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 21 | MP-4 | Z | -0.003 | -0.003 | 0 | %100 |
| 22 | MP-5 | Z | -0.003 | -0.003 | 0 | %100 |
| 23 | MP-6 | Z | -0.003 | -0.003 | 0 | %100 |
| 24 | MP-7 | Z | -0.003 | -0.003 | 0 | %100 |
| 25 | MP-8 | Z | -0.003 | -0.003 | 0 | %100 |
| 26 | MP-9 | Z | -0.003 | -0.003 | 0 | %100 |
| 27 | MP-10 | Z | -0.003 | -0.003 | 0 | %100 |
| 28 | MP-11 | Z | -0.003 | -0.003 | 0 | %100 |
| 29 | MP-12 | Z | -0.003 | -0.003 | 0 | %100 |
| 30 | SA-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 31 | SA-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 32 | SA-3 | Z | -0.006 | -0.006 | 0 | %100 |
| 33 | SF1-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 34 | SF1-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 35 | SF2-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 36 | SF2-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 37 | K1 | Z | -0.005 | -0.005 | 0 | %100 |
| 38 | K2 | Z | -0.005 | -0.005 | 0 | %100 |
| 39 | K3 | Z | -0.005 | -0.005 | 0 | %100 |

Member Distributed Loads (BLC 24 : 120 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .002 | .002 | 0 | %100 |
| 2 | CP-1U | X | .001 | .001 | 0 | %100 |
| 3 | CP-2 | X | .004 | .004 | 0 | %100 |
| 4 | CP-2U | X | .002 | .002 | 0 | %100 |
| 5 | CP-3 | X | .002 | .002 | 0 | %100 |
| 6 | CP-3U | X | .001 | .001 | 0 | %100 |
| 7 | FF-HR | X | .000973 | .000973 | 0 | %100 |
| 8 | FFTH | X | .001 | .001 | 0 | %100 |
| 9 | GSI-1 | X | .001 | .001 | 0 | %100 |
| 10 | GSI-2 | X | .003 | .003 | 0 | %100 |
| 11 | GSI-3 | X | .002 | .002 | 0 | %100 |
| 12 | GSIP-1A | X | .002 | .002 | 0 | %100 |
| 13 | GSIP-1B | X | .001 | .001 | 0 | %100 |
| 14 | GSIP-2A | X | .001 | .001 | 0 | %100 |
| 15 | GSIP-2B | X | .001 | .001 | 0 | %100 |
| 16 | GSIP-3A | X | .001 | .001 | 0 | %100 |
| 17 | GSIP-3B | X | .002 | .002 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | .003 | .003 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | .000789 | .000789 | 0 | %100 |
| 34 | SF1-TH | X | .0009 | .0009 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .002 | .002 | 0 | %100 |
| 37 | K1 | X | .002 | .002 | 0 | %100 |
| 38 | K2 | X | .002 | .002 | 0 | %100 |
| 39 | K3 | X | .002 | .002 | 0 | %100 |
| 40 | CP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 41 | CP-1U | Z | -0.002 | -0.002 | 0 | %100 |
| 42 | CP-2 | Z | -0.007 | -0.007 | 0 | %100 |
| 43 | CP-2U | Z | -0.004 | -0.004 | 0 | %100 |
| 44 | CP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 45 | CP-3U | Z | -0.002 | -0.002 | 0 | %100 |
| 46 | FF-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 47 | FFTH | Z | -0.002 | -0.002 | 0 | %100 |
| 48 | GSI-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 49 | GSI-2 | Z | -0.005 | -0.005 | 0 | %100 |
| 50 | GSI-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -0.004 | -0.004 | 0 | %100 |
| 52 | GSIP-1B | Z | -0.002 | -0.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -0.002 | -0.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -0.002 | -0.002 | 0 | %100 |
| 55 | GSIP-3A | Z | -0.002 | -0.002 | 0 | %100 |
| 56 | GSIP-3B | Z | -0.004 | -0.004 | 0 | %100 |
| 57 | MP-1 | Z | -0.003 | -0.003 | 0 | %100 |
| 58 | MP-2 | Z | -0.003 | -0.003 | 0 | %100 |
| 59 | MP-3 | Z | -0.003 | -0.003 | 0 | %100 |
| 60 | MP-4 | Z | -0.003 | -0.003 | 0 | %100 |
| 61 | MP-5 | Z | -0.003 | -0.003 | 0 | %100 |
| 62 | MP-6 | Z | -0.003 | -0.003 | 0 | %100 |
| 63 | MP-7 | Z | -0.003 | -0.003 | 0 | %100 |
| 64 | MP-8 | Z | -0.003 | -0.003 | 0 | %100 |
| 65 | MP-9 | Z | -0.003 | -0.003 | 0 | %100 |
| 66 | MP-10 | Z | -0.003 | -0.003 | 0 | %100 |
| 67 | MP-11 | Z | -0.003 | -0.003 | 0 | %100 |
| 68 | MP-12 | Z | -0.003 | -0.003 | 0 | %100 |
| 69 | SA-1 | Z | -0.004 | -0.004 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | -0.005 | -0.005 | 0 | %100 |
| 72 | SF1-HR | Z | -0.002 | -0.002 | 0 | %100 |
| 73 | SF1-TH | Z | -0.002 | -0.002 | 0 | %100 |
| 74 | SF2-HR | Z | -0.003 | -0.003 | 0 | %100 |
| 75 | SF2-TH | Z | -0.004 | -0.004 | 0 | %100 |
| 76 | K1 | Z | -0.004 | -0.004 | 0 | %100 |
| 77 | K2 | Z | -0.004 | -0.004 | 0 | %100 |
| 78 | K3 | Z | -0.004 | -0.004 | 0 | %100 |

Member Distributed Loads (BLC 25 : 135 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .001 | .001 | 0 | %100 |
| 2 | CP-1U | X | .000802 | .000802 | 0 | %100 |
| 3 | CP-2 | X | .005 | .005 | 0 | %100 |
| 4 | CP-2U | X | .003 | .003 | 0 | %100 |
| 5 | CP-3 | X | .004 | .004 | 0 | %100 |
| 6 | CP-3U | X | .002 | .002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 7 | FF-HR | X | .002 | .002 | 0 | %100 |
| 8 | FFTH | X | .002 | .002 | 0 | %100 |
| 9 | GSI-1 | X | .001 | .001 | 0 | %100 |
| 10 | GSI-2 | X | .004 | .004 | 0 | %100 |
| 11 | GSI-3 | X | .003 | .003 | 0 | %100 |
| 12 | GSIP-1A | X | .003 | .003 | 0 | %100 |
| 13 | GSIP-1B | X | .002 | .002 | 0 | %100 |
| 14 | GSIP-2A | X | .002 | .002 | 0 | %100 |
| 15 | GSIP-2B | X | .000767 | .000767 | 0 | %100 |
| 16 | GSIP-3A | X | .000767 | .000767 | 0 | %100 |
| 17 | GSIP-3B | X | .003 | .003 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | .004 | .004 | 0 | %100 |
| 31 | SA-2 | X | .001 | .001 | 0 | %100 |
| 32 | SA-3 | X | .003 | .003 | 0 | %100 |
| 33 | SF1-HR | X | .000577 | .000577 | 0 | %100 |
| 34 | SF1-TH | X | .000659 | .000659 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .002 | .002 | 0 | %100 |
| 37 | K1 | X | .003 | .003 | 0 | %100 |
| 38 | K2 | X | .003 | .003 | 0 | %100 |
| 39 | K3 | X | .003 | .003 | 0 | %100 |
| 40 | CP-1 | Z | -.001 | -.001 | 0 | %100 |
| 41 | CP-1U | Z | -.00081 | -.00081 | 0 | %100 |
| 42 | CP-2 | Z | -.005 | -.005 | 0 | %100 |
| 43 | CP-2U | Z | -.003 | -.003 | 0 | %100 |
| 44 | CP-3 | Z | -.004 | -.004 | 0 | %100 |
| 45 | CP-3U | Z | -.002 | -.002 | 0 | %100 |
| 46 | FF-HR | Z | -.002 | -.002 | 0 | %100 |
| 47 | FFTH | Z | -.002 | -.002 | 0 | %100 |
| 48 | GSI-1 | Z | -.001 | -.001 | 0 | %100 |
| 49 | GSI-2 | Z | -.004 | -.004 | 0 | %100 |
| 50 | GSI-3 | Z | -.003 | -.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -.003 | -.003 | 0 | %100 |
| 52 | GSIP-1B | Z | -.002 | -.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -.002 | -.002 | 0 | %100 |
| 54 | GSIP-2B | Z | -.000846 | -.000846 | 0 | %100 |
| 55 | GSIP-3A | Z | -.000846 | -.000846 | 0 | %100 |
| 56 | GSIP-3B | Z | -.003 | -.003 | 0 | %100 |
| 57 | MP-1 | Z | -.002 | -.002 | 0 | %100 |
| 58 | MP-2 | Z | -.002 | -.002 | 0 | %100 |
| 59 | MP-3 | Z | -.002 | -.002 | 0 | %100 |
| 60 | MP-4 | Z | -.002 | -.002 | 0 | %100 |
| 61 | MP-5 | Z | -.002 | -.002 | 0 | %100 |
| 62 | MP-6 | Z | -.002 | -.002 | 0 | %100 |
| 63 | MP-7 | Z | -.002 | -.002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 64 | MP-8 | Z | -.002 | -.002 | 0 | %100 |
| 65 | MP-9 | Z | -.002 | -.002 | 0 | %100 |
| 66 | MP-10 | Z | -.002 | -.002 | 0 | %100 |
| 67 | MP-11 | Z | -.002 | -.002 | 0 | %100 |
| 68 | MP-12 | Z | -.002 | -.002 | 0 | %100 |
| 69 | SA-1 | Z | -.004 | -.004 | 0 | %100 |
| 70 | SA-2 | Z | -.001 | -.001 | 0 | %100 |
| 71 | SA-3 | Z | -.003 | -.003 | 0 | %100 |
| 72 | SF1-HR | Z | -.000713 | -.000713 | 0 | %100 |
| 73 | SF1-TH | Z | -.000796 | -.000796 | 0 | %100 |
| 74 | SF2-HR | Z | -.003 | -.003 | 0 | %100 |
| 75 | SF2-TH | Z | -.003 | -.003 | 0 | %100 |
| 76 | K1 | Z | -.004 | -.004 | 0 | %100 |
| 77 | K2 | Z | -.004 | -.004 | 0 | %100 |
| 78 | K3 | Z | -.004 | -.004 | 0 | %100 |

Member Distributed Loads (BLC 26 : 150 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | 0 | 0 | 0 | %100 |
| 2 | CP-1U | X | 0 | 0 | 0 | %100 |
| 3 | CP-2 | X | .006 | .006 | 0 | %100 |
| 4 | CP-2U | X | .003 | .003 | 0 | %100 |
| 5 | CP-3 | X | .006 | .006 | 0 | %100 |
| 6 | CP-3U | X | .003 | .003 | 0 | %100 |
| 7 | FF-HR | X | .003 | .003 | 0 | %100 |
| 8 | FFTH | X | .003 | .003 | 0 | %100 |
| 9 | GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 | GSI-2 | X | .004 | .004 | 0 | %100 |
| 11 | GSI-3 | X | .005 | .005 | 0 | %100 |
| 12 | GSIP-1A | X | .003 | .003 | 0 | %100 |
| 13 | GSIP-1B | X | .004 | .004 | 0 | %100 |
| 14 | GSIP-2A | X | .004 | .004 | 0 | %100 |
| 15 | GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 | GSIP-3A | X | 0 | 0 | 0 | %100 |
| 17 | GSIP-3B | X | .003 | .003 | 0 | %100 |
| 18 | MP-1 | X | .003 | .003 | 0 | %100 |
| 19 | MP-2 | X | .003 | .003 | 0 | %100 |
| 20 | MP-3 | X | .003 | .003 | 0 | %100 |
| 21 | MP-4 | X | .003 | .003 | 0 | %100 |
| 22 | MP-5 | X | .003 | .003 | 0 | %100 |
| 23 | MP-6 | X | .003 | .003 | 0 | %100 |
| 24 | MP-7 | X | .003 | .003 | 0 | %100 |
| 25 | MP-8 | X | .003 | .003 | 0 | %100 |
| 26 | MP-9 | X | .003 | .003 | 0 | %100 |
| 27 | MP-10 | X | .003 | .003 | 0 | %100 |
| 28 | MP-11 | X | .003 | .003 | 0 | %100 |
| 29 | MP-12 | X | .003 | .003 | 0 | %100 |
| 30 | SA-1 | X | .005 | .005 | 0 | %100 |
| 31 | SA-2 | X | .003 | .003 | 0 | %100 |
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | 0 | 0 | 0 | %100 |
| 34 | SF1-TH | X | 0 | 0 | 0 | %100 |
| 35 | SF2-HR | X | .002 | .002 | 0 | %100 |
| 36 | SF2-TH | X | .003 | .003 | 0 | %100 |
| 37 | K1 | X | .004 | .004 | 0 | %100 |
| 38 | K2 | X | .004 | .004 | 0 | %100 |



Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 39 | K3 | X | .004 | .004 | 0 | %100 |
| 40 | CP-1 | Z | 0 | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | 0 | %100 |
| 42 | CP-2 | Z | -.003 | -.003 | 0 | %100 |
| 43 | CP-2U | Z | -.002 | -.002 | 0 | %100 |
| 44 | CP-3 | Z | -.003 | -.003 | 0 | %100 |
| 45 | CP-3U | Z | -.002 | -.002 | 0 | %100 |
| 46 | FF-HR | Z | -.002 | -.002 | 0 | %100 |
| 47 | FFTH | Z | -.002 | -.002 | 0 | %100 |
| 48 | GSI-1 | Z | 0 | 0 | 0 | %100 |
| 49 | GSI-2 | Z | -.003 | -.003 | 0 | %100 |
| 50 | GSI-3 | Z | -.003 | -.003 | 0 | %100 |
| 51 | GSIP-1A | Z | -.002 | -.002 | 0 | %100 |
| 52 | GSIP-1B | Z | -.002 | -.002 | 0 | %100 |
| 53 | GSIP-2A | Z | -.002 | -.002 | 0 | %100 |
| 54 | GSIP-2B | Z | 0 | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | -.002 | -.002 | 0 | %100 |
| 57 | MP-1 | Z | -.002 | -.002 | 0 | %100 |
| 58 | MP-2 | Z | -.002 | -.002 | 0 | %100 |
| 59 | MP-3 | Z | -.002 | -.002 | 0 | %100 |
| 60 | MP-4 | Z | -.002 | -.002 | 0 | %100 |
| 61 | MP-5 | Z | -.002 | -.002 | 0 | %100 |
| 62 | MP-6 | Z | -.002 | -.002 | 0 | %100 |
| 63 | MP-7 | Z | -.002 | -.002 | 0 | %100 |
| 64 | MP-8 | Z | -.002 | -.002 | 0 | %100 |
| 65 | MP-9 | Z | -.002 | -.002 | 0 | %100 |
| 66 | MP-10 | Z | -.002 | -.002 | 0 | %100 |
| 67 | MP-11 | Z | -.002 | -.002 | 0 | %100 |
| 68 | MP-12 | Z | -.002 | -.002 | 0 | %100 |
| 69 | SA-1 | Z | -.003 | -.003 | 0 | %100 |
| 70 | SA-2 | Z | -.001 | -.001 | 0 | %100 |
| 71 | SA-3 | Z | -.002 | -.002 | 0 | %100 |
| 72 | SF1-HR | Z | 0 | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | 0 | %100 |
| 74 | SF2-HR | Z | -.002 | -.002 | 0 | %100 |
| 75 | SF2-TH | Z | -.002 | -.002 | 0 | %100 |
| 76 | K1 | Z | -.003 | -.003 | 0 | %100 |
| 77 | K2 | Z | -.003 | -.003 | 0 | %100 |
| 78 | K3 | Z | -.003 | -.003 | 0 | %100 |

Member Distributed Loads (BLC 27 : 180 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .008 | .008 | 0 | %100 |
| 2 | CP-1U | X | .004 | .004 | 0 | %100 |
| 3 | CP-2 | X | .008 | .008 | 0 | %100 |
| 4 | CP-2U | X | .004 | .004 | 0 | %100 |
| 5 | CP-3 | X | .008 | .008 | 0 | %100 |
| 6 | CP-3U | X | .004 | .004 | 0 | %100 |
| 7 | FF-HR | X | .004 | .004 | 0 | %100 |
| 8 | FFTH | X | .005 | .005 | 0 | %100 |
| 9 | GSI-1 | X | .006 | .006 | 0 | %100 |
| 10 | GSI-2 | X | .006 | .006 | 0 | %100 |
| 11 | GSI-3 | X | .006 | .006 | 0 | %100 |
| 12 | GSIP-1A | X | .004 | .004 | 0 | %100 |
| 13 | GSIP-1B | X | .005 | .005 | 0 | %100 |



Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 14 | GSIP-2A | X | .005 | .005 | 0 | %100 |
| 15 | GSIP-2B | X | .004 | .004 | 0 | %100 |
| 16 | GSIP-3A | X | .004 | .004 | 0 | %100 |
| 17 | GSIP-3B | X | .004 | .004 | 0 | %100 |
| 18 | MP-1 | X | .003 | .003 | 0 | %100 |
| 19 | MP-2 | X | .003 | .003 | 0 | %100 |
| 20 | MP-3 | X | .003 | .003 | 0 | %100 |
| 21 | MP-4 | X | .003 | .003 | 0 | %100 |
| 22 | MP-5 | X | .003 | .003 | 0 | %100 |
| 23 | MP-6 | X | .003 | .003 | 0 | %100 |
| 24 | MP-7 | X | .003 | .003 | 0 | %100 |
| 25 | MP-8 | X | .003 | .003 | 0 | %100 |
| 26 | MP-9 | X | .003 | .003 | 0 | %100 |
| 27 | MP-10 | X | .003 | .003 | 0 | %100 |
| 28 | MP-11 | X | .003 | .003 | 0 | %100 |
| 29 | MP-12 | X | .003 | .003 | 0 | %100 |
| 30 | SA-1 | X | .006 | .006 | 0 | %100 |
| 31 | SA-2 | X | .006 | .006 | 0 | %100 |
| 32 | SA-3 | X | .005 | .005 | 0 | %100 |
| 33 | SF1-HR | X | .003 | .003 | 0 | %100 |
| 34 | SF1-TH | X | .004 | .004 | 0 | %100 |
| 35 | SF2-HR | X | .003 | .003 | 0 | %100 |
| 36 | SF2-TH | X | .004 | .004 | 0 | %100 |
| 37 | K1 | X | .005 | .005 | 0 | %100 |
| 38 | K2 | X | .005 | .005 | 0 | %100 |
| 39 | K3 | X | .005 | .005 | 0 | %100 |

Member Distributed Loads (BLC 28 : 210 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .006 | .006 | 0 | %100 |
| 2 | CP-1U | X | .003 | .003 | 0 | %100 |
| 3 | CP-2 | X | 0 | 0 | 0 | %100 |
| 4 | CP-2U | X | 0 | 0 | 0 | %100 |
| 5 | CP-3 | X | .006 | .006 | 0 | %100 |
| 6 | CP-3U | X | .003 | .003 | 0 | %100 |
| 7 | FF-HR | X | .003 | .003 | 0 | %100 |
| 8 | FFTH | X | .003 | .003 | 0 | %100 |
| 9 | GSI-1 | X | .004 | .004 | 0 | %100 |
| 10 | GSI-2 | X | 0 | 0 | 0 | %100 |
| 11 | GSI-3 | X | .005 | .005 | 0 | %100 |
| 12 | GSIP-1A | X | 0 | 0 | 0 | %100 |
| 13 | GSIP-1B | X | .004 | .004 | 0 | %100 |
| 14 | GSIP-2A | X | .004 | .004 | 0 | %100 |
| 15 | GSIP-2B | X | .003 | .003 | 0 | %100 |
| 16 | GSIP-3A | X | .003 | .003 | 0 | %100 |
| 17 | GSIP-3B | X | 0 | 0 | 0 | %100 |
| 18 | MP-1 | X | .003 | .003 | 0 | %100 |
| 19 | MP-2 | X | .003 | .003 | 0 | %100 |
| 20 | MP-3 | X | .003 | .003 | 0 | %100 |
| 21 | MP-4 | X | .003 | .003 | 0 | %100 |
| 22 | MP-5 | X | .003 | .003 | 0 | %100 |
| 23 | MP-6 | X | .003 | .003 | 0 | %100 |
| 24 | MP-7 | X | .003 | .003 | 0 | %100 |
| 25 | MP-8 | X | .003 | .003 | 0 | %100 |
| 26 | MP-9 | X | .003 | .003 | 0 | %100 |
| 27 | MP-10 | X | .003 | .003 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 28 | MP-11 | X | .003 | .003 | 0 | %100 |
| 29 | MP-12 | X | .003 | .003 | 0 | %100 |
| 30 | SA-1 | X | .003 | .003 | 0 | %100 |
| 31 | SA-2 | X | .005 | .005 | 0 | %100 |
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .003 | .003 | 0 | %100 |
| 35 | SF2-HR | X | 0 | 0 | 0 | %100 |
| 36 | SF2-TH | X | 0 | 0 | 0 | %100 |
| 37 | K1 | X | .004 | .004 | 0 | %100 |
| 38 | K2 | X | .004 | .004 | 0 | %100 |
| 39 | K3 | X | .004 | .004 | 0 | %100 |
| 40 | CP-1 | Z | .003 | .003 | 0 | %100 |
| 41 | CP-1U | Z | .002 | .002 | 0 | %100 |
| 42 | CP-2 | Z | 0 | 0 | 0 | %100 |
| 43 | CP-2U | Z | 0 | 0 | 0 | %100 |
| 44 | CP-3 | Z | .003 | .003 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .003 | .003 | 0 | %100 |
| 49 | GSI-2 | Z | 0 | 0 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | 0 | 0 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .002 | .002 | 0 | %100 |
| 55 | GSIP-3A | Z | .002 | .002 | 0 | %100 |
| 56 | GSIP-3B | Z | 0 | 0 | 0 | %100 |
| 57 | MP-1 | Z | .002 | .002 | 0 | %100 |
| 58 | MP-2 | Z | .002 | .002 | 0 | %100 |
| 59 | MP-3 | Z | .002 | .002 | 0 | %100 |
| 60 | MP-4 | Z | .002 | .002 | 0 | %100 |
| 61 | MP-5 | Z | .002 | .002 | 0 | %100 |
| 62 | MP-6 | Z | .002 | .002 | 0 | %100 |
| 63 | MP-7 | Z | .002 | .002 | 0 | %100 |
| 64 | MP-8 | Z | .002 | .002 | 0 | %100 |
| 65 | MP-9 | Z | .002 | .002 | 0 | %100 |
| 66 | MP-10 | Z | .002 | .002 | 0 | %100 |
| 67 | MP-11 | Z | .002 | .002 | 0 | %100 |
| 68 | MP-12 | Z | .002 | .002 | 0 | %100 |
| 69 | SA-1 | Z | .001 | .001 | 0 | %100 |
| 70 | SA-2 | Z | .003 | .003 | 0 | %100 |
| 71 | SA-3 | Z | .002 | .002 | 0 | %100 |
| 72 | SF1-HR | Z | .002 | .002 | 0 | %100 |
| 73 | SF1-TH | Z | .002 | .002 | 0 | %100 |
| 74 | SF2-HR | Z | 0 | 0 | 0 | %100 |
| 75 | SF2-TH | Z | 0 | 0 | 0 | %100 |
| 76 | K1 | Z | .003 | .003 | 0 | %100 |
| 77 | K2 | Z | .003 | .003 | 0 | %100 |
| 78 | K3 | Z | .003 | .003 | 0 | %100 |

Member Distributed Loads (BLC 29 : 225 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .005 | .005 | 0 | %100 |
| 2 | CP-1U | X | .003 | .003 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 3 | CP-2 | X | .001 | .001 | 0 | %100 |
| 4 | CP-2U | X | .000802 | .000802 | 0 | %100 |
| 5 | CP-3 | X | .004 | .004 | 0 | %100 |
| 6 | CP-3U | X | .002 | .002 | 0 | %100 |
| 7 | FF-HR | X | .002 | .002 | 0 | %100 |
| 8 | FFTH | X | .002 | .002 | 0 | %100 |
| 9 | GSI-1 | X | .004 | .004 | 0 | %100 |
| 10 | GSI-2 | X | .001 | .001 | 0 | %100 |
| 11 | GSI-3 | X | .003 | .003 | 0 | %100 |
| 12 | GSIP-1A | X | .000767 | .000767 | 0 | %100 |
| 13 | GSIP-1B | X | .002 | .002 | 0 | %100 |
| 14 | GSIP-2A | X | .002 | .002 | 0 | %100 |
| 15 | GSIP-2B | X | .003 | .003 | 0 | %100 |
| 16 | GSIP-3A | X | .003 | .003 | 0 | %100 |
| 17 | GSIP-3B | X | .000767 | .000767 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | .001 | .001 | 0 | %100 |
| 31 | SA-2 | X | .004 | .004 | 0 | %100 |
| 32 | SA-3 | X | .003 | .003 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .002 | .002 | 0 | %100 |
| 35 | SF2-HR | X | .000577 | .000577 | 0 | %100 |
| 36 | SF2-TH | X | .000659 | .000659 | 0 | %100 |
| 37 | K1 | X | .003 | .003 | 0 | %100 |
| 38 | K2 | X | .003 | .003 | 0 | %100 |
| 39 | K3 | X | .003 | .003 | 0 | %100 |
| 40 | CP-1 | Z | .005 | .005 | 0 | %100 |
| 41 | CP-1U | Z | .003 | .003 | 0 | %100 |
| 42 | CP-2 | Z | .001 | .001 | 0 | %100 |
| 43 | CP-2U | Z | .00081 | .00081 | 0 | %100 |
| 44 | CP-3 | Z | .004 | .004 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .004 | .004 | 0 | %100 |
| 49 | GSI-2 | Z | .001 | .001 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | .000845 | .000845 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .003 | .003 | 0 | %100 |
| 55 | GSIP-3A | Z | .003 | .003 | 0 | %100 |
| 56 | GSIP-3B | Z | .000846 | .000846 | 0 | %100 |
| 57 | MP-1 | Z | .002 | .002 | 0 | %100 |
| 58 | MP-2 | Z | .002 | .002 | 0 | %100 |
| 59 | MP-3 | Z | .002 | .002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 60 | MP-4 | Z | .002 | .002 | 0 | %100 |
| 61 | MP-5 | Z | .002 | .002 | 0 | %100 |
| 62 | MP-6 | Z | .002 | .002 | 0 | %100 |
| 63 | MP-7 | Z | .002 | .002 | 0 | %100 |
| 64 | MP-8 | Z | .002 | .002 | 0 | %100 |
| 65 | MP-9 | Z | .002 | .002 | 0 | %100 |
| 66 | MP-10 | Z | .002 | .002 | 0 | %100 |
| 67 | MP-11 | Z | .002 | .002 | 0 | %100 |
| 68 | MP-12 | Z | .002 | .002 | 0 | %100 |
| 69 | SA-1 | Z | .001 | .001 | 0 | %100 |
| 70 | SA-2 | Z | .004 | .004 | 0 | %100 |
| 71 | SA-3 | Z | .003 | .003 | 0 | %100 |
| 72 | SF1-HR | Z | .003 | .003 | 0 | %100 |
| 73 | SF1-TH | Z | .003 | .003 | 0 | %100 |
| 74 | SF2-HR | Z | .000713 | .000713 | 0 | %100 |
| 75 | SF2-TH | Z | .000796 | .000796 | 0 | %100 |
| 76 | K1 | Z | .004 | .004 | 0 | %100 |
| 77 | K2 | Z | .004 | .004 | 0 | %100 |
| 78 | K3 | Z | .004 | .004 | 0 | %100 |

Member Distributed Loads (BLC 30 : 240 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | .004 | .004 | 0 | %100 |
| 2 | CP-1U | X | .002 | .002 | 0 | %100 |
| 3 | CP-2 | X | .002 | .002 | 0 | %100 |
| 4 | CP-2U | X | .001 | .001 | 0 | %100 |
| 5 | CP-3 | X | .002 | .002 | 0 | %100 |
| 6 | CP-3U | X | .001 | .001 | 0 | %100 |
| 7 | FF-HR | X | .000973 | .000973 | 0 | %100 |
| 8 | FFTH | X | .001 | .001 | 0 | %100 |
| 9 | GSI-1 | X | .003 | .003 | 0 | %100 |
| 10 | GSI-2 | X | .001 | .001 | 0 | %100 |
| 11 | GSI-3 | X | .002 | .002 | 0 | %100 |
| 12 | GSIP-1A | X | .001 | .001 | 0 | %100 |
| 13 | GSIP-1B | X | .001 | .001 | 0 | %100 |
| 14 | GSIP-2A | X | .001 | .001 | 0 | %100 |
| 15 | GSIP-2B | X | .002 | .002 | 0 | %100 |
| 16 | GSIP-3A | X | .002 | .002 | 0 | %100 |
| 17 | GSIP-3B | X | .001 | .001 | 0 | %100 |
| 18 | MP-1 | X | .002 | .002 | 0 | %100 |
| 19 | MP-2 | X | .002 | .002 | 0 | %100 |
| 20 | MP-3 | X | .002 | .002 | 0 | %100 |
| 21 | MP-4 | X | .002 | .002 | 0 | %100 |
| 22 | MP-5 | X | .002 | .002 | 0 | %100 |
| 23 | MP-6 | X | .002 | .002 | 0 | %100 |
| 24 | MP-7 | X | .002 | .002 | 0 | %100 |
| 25 | MP-8 | X | .002 | .002 | 0 | %100 |
| 26 | MP-9 | X | .002 | .002 | 0 | %100 |
| 27 | MP-10 | X | .002 | .002 | 0 | %100 |
| 28 | MP-11 | X | .002 | .002 | 0 | %100 |
| 29 | MP-12 | X | .002 | .002 | 0 | %100 |
| 30 | SA-1 | X | 0 | 0 | 0 | %100 |
| 31 | SA-2 | X | .003 | .003 | 0 | %100 |
| 32 | SA-3 | X | .002 | .002 | 0 | %100 |
| 33 | SF1-HR | X | .002 | .002 | 0 | %100 |
| 34 | SF1-TH | X | .002 | .002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 35 | SF2-HR | X | .000789 | .000789 | 0 | %100 |
| 36 | SF2-TH | X | .0009 | .0009 | 0 | %100 |
| 37 | K1 | X | .002 | .002 | 0 | %100 |
| 38 | K2 | X | .002 | .002 | 0 | %100 |
| 39 | K3 | X | .002 | .002 | 0 | %100 |
| 40 | CP-1 | Z | .007 | .007 | 0 | %100 |
| 41 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 42 | CP-2 | Z | .003 | .003 | 0 | %100 |
| 43 | CP-2U | Z | .002 | .002 | 0 | %100 |
| 44 | CP-3 | Z | .003 | .003 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .005 | .005 | 0 | %100 |
| 49 | GSI-2 | Z | .003 | .003 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | .002 | .002 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .004 | .004 | 0 | %100 |
| 55 | GSIP-3A | Z | .004 | .004 | 0 | %100 |
| 56 | GSIP-3B | Z | .002 | .002 | 0 | %100 |
| 57 | MP-1 | Z | .003 | .003 | 0 | %100 |
| 58 | MP-2 | Z | .003 | .003 | 0 | %100 |
| 59 | MP-3 | Z | .003 | .003 | 0 | %100 |
| 60 | MP-4 | Z | .003 | .003 | 0 | %100 |
| 61 | MP-5 | Z | .003 | .003 | 0 | %100 |
| 62 | MP-6 | Z | .003 | .003 | 0 | %100 |
| 63 | MP-7 | Z | .003 | .003 | 0 | %100 |
| 64 | MP-8 | Z | .003 | .003 | 0 | %100 |
| 65 | MP-9 | Z | .003 | .003 | 0 | %100 |
| 66 | MP-10 | Z | .003 | .003 | 0 | %100 |
| 67 | MP-11 | Z | .003 | .003 | 0 | %100 |
| 68 | MP-12 | Z | .003 | .003 | 0 | %100 |
| 69 | SA-1 | Z | 0 | 0 | 0 | %100 |
| 70 | SA-2 | Z | .004 | .004 | 0 | %100 |
| 71 | SA-3 | Z | .005 | .005 | 0 | %100 |
| 72 | SF1-HR | Z | .003 | .003 | 0 | %100 |
| 73 | SF1-TH | Z | .004 | .004 | 0 | %100 |
| 74 | SF2-HR | Z | .002 | .002 | 0 | %100 |
| 75 | SF2-TH | Z | .002 | .002 | 0 | %100 |
| 76 | K1 | Z | .004 | .004 | 0 | %100 |
| 77 | K2 | Z | .004 | .004 | 0 | %100 |
| 78 | K3 | Z | .004 | .004 | 0 | %100 |

Member Distributed Loads (BLC 31 : 270 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | Z | .007 | .007 | 0 | %100 |
| 2 | CP-1U | Z | .004 | .004 | 0 | %100 |
| 3 | CP-2 | Z | .007 | .007 | 0 | %100 |
| 4 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 5 | CP-3 | Z | 0 | 0 | 0 | %100 |
| 6 | CP-3U | Z | 0 | 0 | 0 | %100 |
| 7 | FF-HR | Z | 0 | 0 | 0 | %100 |
| 8 | FFTH | Z | 0 | 0 | 0 | %100 |
| 9 | GSI-1 | Z | .005 | .005 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 10 | GSI-2 | Z | .005 | .005 | 0 | %100 |
| 11 | GSI-3 | Z | 0 | 0 | 0 | %100 |
| 12 | GSIP-1A | Z | .004 | .004 | 0 | %100 |
| 13 | GSIP-1B | Z | 0 | 0 | 0 | %100 |
| 14 | GSIP-2A | Z | 0 | 0 | 0 | %100 |
| 15 | GSIP-2B | Z | .004 | .004 | 0 | %100 |
| 16 | GSIP-3A | Z | .004 | .004 | 0 | %100 |
| 17 | GSIP-3B | Z | .004 | .004 | 0 | %100 |
| 18 | MP-1 | Z | .003 | .003 | 0 | %100 |
| 19 | MP-2 | Z | .003 | .003 | 0 | %100 |
| 20 | MP-3 | Z | .003 | .003 | 0 | %100 |
| 21 | MP-4 | Z | .003 | .003 | 0 | %100 |
| 22 | MP-5 | Z | .003 | .003 | 0 | %100 |
| 23 | MP-6 | Z | .003 | .003 | 0 | %100 |
| 24 | MP-7 | Z | .003 | .003 | 0 | %100 |
| 25 | MP-8 | Z | .003 | .003 | 0 | %100 |
| 26 | MP-9 | Z | .003 | .003 | 0 | %100 |
| 27 | MP-10 | Z | .003 | .003 | 0 | %100 |
| 28 | MP-11 | Z | .003 | .003 | 0 | %100 |
| 29 | MP-12 | Z | .003 | .003 | 0 | %100 |
| 30 | SA-1 | Z | .003 | .003 | 0 | %100 |
| 31 | SA-2 | Z | .003 | .003 | 0 | %100 |
| 32 | SA-3 | Z | .006 | .006 | 0 | %100 |
| 33 | SF1-HR | Z | .003 | .003 | 0 | %100 |
| 34 | SF1-TH | Z | .004 | .004 | 0 | %100 |
| 35 | SF2-HR | Z | .003 | .003 | 0 | %100 |
| 36 | SF2-TH | Z | .004 | .004 | 0 | %100 |
| 37 | K1 | Z | .005 | .005 | 0 | %100 |
| 38 | K2 | Z | .005 | .005 | 0 | %100 |
| 39 | K3 | Z | .005 | .005 | 0 | %100 |

Member Distributed Loads (BLC 32 : 300 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 1 | CP-1 | X | -.002 | -.002 | 0 | %100 |
| 2 | CP-1U | X | -.001 | -.001 | 0 | %100 |
| 3 | CP-2 | X | -.004 | -.004 | 0 | %100 |
| 4 | CP-2U | X | -.002 | -.002 | 0 | %100 |
| 5 | CP-3 | X | -.002 | -.002 | 0 | %100 |
| 6 | CP-3U | X | -.001 | -.001 | 0 | %100 |
| 7 | FF-HR | X | -.000973 | -.000973 | 0 | %100 |
| 8 | FFTH | X | -.001 | -.001 | 0 | %100 |
| 9 | GSI-1 | X | -.001 | -.001 | 0 | %100 |
| 10 | GSI-2 | X | -.003 | -.003 | 0 | %100 |
| 11 | GSI-3 | X | -.002 | -.002 | 0 | %100 |
| 12 | GSIP-1A | X | -.002 | -.002 | 0 | %100 |
| 13 | GSIP-1B | X | -.001 | -.001 | 0 | %100 |
| 14 | GSIP-2A | X | -.001 | -.001 | 0 | %100 |
| 15 | GSIP-2B | X | -.001 | -.001 | 0 | %100 |
| 16 | GSIP-3A | X | -.001 | -.001 | 0 | %100 |
| 17 | GSIP-3B | X | -.002 | -.002 | 0 | %100 |
| 18 | MP-1 | X | -.002 | -.002 | 0 | %100 |
| 19 | MP-2 | X | -.002 | -.002 | 0 | %100 |
| 20 | MP-3 | X | -.002 | -.002 | 0 | %100 |
| 21 | MP-4 | X | -.002 | -.002 | 0 | %100 |
| 22 | MP-5 | X | -.002 | -.002 | 0 | %100 |
| 23 | MP-6 | X | -.002 | -.002 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] | |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|------|
| 24 | MP-7 | X | -.002 | -.002 | 0 | %100 |
| 25 | MP-8 | X | -.002 | -.002 | 0 | %100 |
| 26 | MP-9 | X | -.002 | -.002 | 0 | %100 |
| 27 | MP-10 | X | -.002 | -.002 | 0 | %100 |
| 28 | MP-11 | X | -.002 | -.002 | 0 | %100 |
| 29 | MP-12 | X | -.002 | -.002 | 0 | %100 |
| 30 | SA-1 | X | -.003 | -.003 | 0 | %100 |
| 31 | SA-2 | X | 0 | 0 | 0 | %100 |
| 32 | SA-3 | X | -.002 | -.002 | 0 | %100 |
| 33 | SF1-HR | X | -.000789 | -.000789 | 0 | %100 |
| 34 | SF1-TH | X | -.0009 | -.0009 | 0 | %100 |
| 35 | SF2-HR | X | -.002 | -.002 | 0 | %100 |
| 36 | SF2-TH | X | -.002 | -.002 | 0 | %100 |
| 37 | K1 | X | -.002 | -.002 | 0 | %100 |
| 38 | K2 | X | -.002 | -.002 | 0 | %100 |
| 39 | K3 | X | -.002 | -.002 | 0 | %100 |
| 40 | CP-1 | Z | .003 | .003 | 0 | %100 |
| 41 | CP-1U | Z | .002 | .002 | 0 | %100 |
| 42 | CP-2 | Z | .007 | .007 | 0 | %100 |
| 43 | CP-2U | Z | .004 | .004 | 0 | %100 |
| 44 | CP-3 | Z | .003 | .003 | 0 | %100 |
| 45 | CP-3U | Z | .002 | .002 | 0 | %100 |
| 46 | FF-HR | Z | .002 | .002 | 0 | %100 |
| 47 | FFTH | Z | .002 | .002 | 0 | %100 |
| 48 | GSI-1 | Z | .003 | .003 | 0 | %100 |
| 49 | GSI-2 | Z | .005 | .005 | 0 | %100 |
| 50 | GSI-3 | Z | .003 | .003 | 0 | %100 |
| 51 | GSIP-1A | Z | .004 | .004 | 0 | %100 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 | %100 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 | %100 |
| 54 | GSIP-2B | Z | .002 | .002 | 0 | %100 |
| 55 | GSIP-3A | Z | .002 | .002 | 0 | %100 |
| 56 | GSIP-3B | Z | .004 | .004 | 0 | %100 |
| 57 | MP-1 | Z | .003 | .003 | 0 | %100 |
| 58 | MP-2 | Z | .003 | .003 | 0 | %100 |
| 59 | MP-3 | Z | .003 | .003 | 0 | %100 |
| 60 | MP-4 | Z | .003 | .003 | 0 | %100 |
| 61 | MP-5 | Z | .003 | .003 | 0 | %100 |
| 62 | MP-6 | Z | .003 | .003 | 0 | %100 |
| 63 | MP-7 | Z | .003 | .003 | 0 | %100 |
| 64 | MP-8 | Z | .003 | .003 | 0 | %100 |
| 65 | MP-9 | Z | .003 | .003 | 0 | %100 |
| 66 | MP-10 | Z | .003 | .003 | 0 | %100 |
| 67 | MP-11 | Z | .003 | .003 | 0 | %100 |
| 68 | MP-12 | Z | .003 | .003 | 0 | %100 |
| 69 | SA-1 | Z | .004 | .004 | 0 | %100 |
| 70 | SA-2 | Z | 0 | 0 | 0 | %100 |
| 71 | SA-3 | Z | .005 | .005 | 0 | %100 |
| 72 | SF1-HR | Z | .002 | .002 | 0 | %100 |
| 73 | SF1-TH | Z | .002 | .002 | 0 | %100 |
| 74 | SF2-HR | Z | .003 | .003 | 0 | %100 |
| 75 | SF2-TH | Z | .004 | .004 | 0 | %100 |
| 76 | K1 | Z | .004 | .004 | 0 | %100 |
| 77 | K2 | Z | .004 | .004 | 0 | %100 |
| 78 | K3 | Z | .004 | .004 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 33 : 315 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 CP-1 | X | -0.01 | -0.01 | 0 | %100 |
| 2 CP-1U | X | -0.00802 | -0.00802 | 0 | %100 |
| 3 CP-2 | X | -0.05 | -0.05 | 0 | %100 |
| 4 CP-2U | X | -0.03 | -0.03 | 0 | %100 |
| 5 CP-3 | X | -0.04 | -0.04 | 0 | %100 |
| 6 CP-3U | X | -0.02 | -0.02 | 0 | %100 |
| 7 FF-HR | X | -0.02 | -0.02 | 0 | %100 |
| 8 FFTH | X | -0.02 | -0.02 | 0 | %100 |
| 9 GSI-1 | X | -0.01 | -0.01 | 0 | %100 |
| 10 GSI-2 | X | -0.04 | -0.04 | 0 | %100 |
| 11 GSI-3 | X | -0.03 | -0.03 | 0 | %100 |
| 12 GSIP-1A | X | -0.03 | -0.03 | 0 | %100 |
| 13 GSIP-1B | X | -0.02 | -0.02 | 0 | %100 |
| 14 GSIP-2A | X | -0.02 | -0.02 | 0 | %100 |
| 15 GSIP-2B | X | -0.00767 | -0.00767 | 0 | %100 |
| 16 GSIP-3A | X | -0.00767 | -0.00767 | 0 | %100 |
| 17 GSIP-3B | X | -0.03 | -0.03 | 0 | %100 |
| 18 MP-1 | X | -0.02 | -0.02 | 0 | %100 |
| 19 MP-2 | X | -0.02 | -0.02 | 0 | %100 |
| 20 MP-3 | X | -0.02 | -0.02 | 0 | %100 |
| 21 MP-4 | X | -0.02 | -0.02 | 0 | %100 |
| 22 MP-5 | X | -0.02 | -0.02 | 0 | %100 |
| 23 MP-6 | X | -0.02 | -0.02 | 0 | %100 |
| 24 MP-7 | X | -0.02 | -0.02 | 0 | %100 |
| 25 MP-8 | X | -0.02 | -0.02 | 0 | %100 |
| 26 MP-9 | X | -0.02 | -0.02 | 0 | %100 |
| 27 MP-10 | X | -0.02 | -0.02 | 0 | %100 |
| 28 MP-11 | X | -0.02 | -0.02 | 0 | %100 |
| 29 MP-12 | X | -0.02 | -0.02 | 0 | %100 |
| 30 SA-1 | X | -0.04 | -0.04 | 0 | %100 |
| 31 SA-2 | X | -0.01 | -0.01 | 0 | %100 |
| 32 SA-3 | X | -0.03 | -0.03 | 0 | %100 |
| 33 SF1-HR | X | -0.00577 | -0.00577 | 0 | %100 |
| 34 SF1-TH | X | -0.00659 | -0.00659 | 0 | %100 |
| 35 SF2-HR | X | -0.02 | -0.02 | 0 | %100 |
| 36 SF2-TH | X | -0.02 | -0.02 | 0 | %100 |
| 37 K1 | X | -0.03 | -0.03 | 0 | %100 |
| 38 K2 | X | -0.03 | -0.03 | 0 | %100 |
| 39 K3 | X | -0.03 | -0.03 | 0 | %100 |
| 40 CP-1 | Z | 0.01 | 0.01 | 0 | %100 |
| 41 CP-1U | Z | 0.0081 | 0.0081 | 0 | %100 |
| 42 CP-2 | Z | 0.05 | 0.05 | 0 | %100 |
| 43 CP-2U | Z | 0.03 | 0.03 | 0 | %100 |
| 44 CP-3 | Z | 0.04 | 0.04 | 0 | %100 |
| 45 CP-3U | Z | 0.02 | 0.02 | 0 | %100 |
| 46 FF-HR | Z | 0.02 | 0.02 | 0 | %100 |
| 47 FFTH | Z | 0.02 | 0.02 | 0 | %100 |
| 48 GSI-1 | Z | 0.01 | 0.01 | 0 | %100 |
| 49 GSI-2 | Z | 0.04 | 0.04 | 0 | %100 |
| 50 GSI-3 | Z | 0.03 | 0.03 | 0 | %100 |
| 51 GSIP-1A | Z | 0.03 | 0.03 | 0 | %100 |
| 52 GSIP-1B | Z | 0.02 | 0.02 | 0 | %100 |
| 53 GSIP-2A | Z | 0.02 | 0.02 | 0 | %100 |
| 54 GSIP-2B | Z | 0.00846 | 0.00846 | 0 | %100 |
| 55 GSIP-3A | Z | 0.00846 | 0.00846 | 0 | %100 |
| 56 GSIP-3B | Z | 0.03 | 0.03 | 0 | %100 |
| 57 MP-1 | Z | 0.02 | 0.02 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 58 MP-2 | Z | 0.02 | 0.02 | 0 | %100 |
| 59 MP-3 | Z | 0.02 | 0.02 | 0 | %100 |
| 60 MP-4 | Z | 0.02 | 0.02 | 0 | %100 |
| 61 MP-5 | Z | 0.02 | 0.02 | 0 | %100 |
| 62 MP-6 | Z | 0.02 | 0.02 | 0 | %100 |
| 63 MP-7 | Z | 0.02 | 0.02 | 0 | %100 |
| 64 MP-8 | Z | 0.02 | 0.02 | 0 | %100 |
| 65 MP-9 | Z | 0.02 | 0.02 | 0 | %100 |
| 66 MP-10 | Z | 0.02 | 0.02 | 0 | %100 |
| 67 MP-11 | Z | 0.02 | 0.02 | 0 | %100 |
| 68 MP-12 | Z | 0.02 | 0.02 | 0 | %100 |
| 69 SA-1 | Z | 0.04 | 0.04 | 0 | %100 |
| 70 SA-2 | Z | 0.01 | 0.01 | 0 | %100 |
| 71 SA-3 | Z | 0.03 | 0.03 | 0 | %100 |
| 72 SF1-HR | Z | 0.00713 | 0.00713 | 0 | %100 |
| 73 SF1-TH | Z | 0.00796 | 0.00796 | 0 | %100 |
| 74 SF2-HR | Z | 0.03 | 0.03 | 0 | %100 |
| 75 SF2-TH | Z | 0.03 | 0.03 | 0 | %100 |
| 76 K1 | Z | 0.04 | 0.04 | 0 | %100 |
| 77 K2 | Z | 0.04 | 0.04 | 0 | %100 |
| 78 K3 | Z | 0.04 | 0.04 | 0 | %100 |

Member Distributed Loads (BLC 34 : 330 Wind - Ice)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 CP-1 | X | 0 | 0 | 0 | %100 |
| 2 CP-1U | X | 0 | 0 | 0 | %100 |
| 3 CP-2 | X | -0.06 | -0.06 | 0 | %100 |
| 4 CP-2U | X | -0.03 | -0.03 | 0 | %100 |
| 5 CP-3 | X | -0.06 | -0.06 | 0 | %100 |
| 6 CP-3U | X | -0.03 | -0.03 | 0 | %100 |
| 7 FF-HR | X | -0.03 | -0.03 | 0 | %100 |
| 8 FFTH | X | -0.03 | -0.03 | 0 | %100 |
| 9 GSI-1 | X | 0 | 0 | 0 | %100 |
| 10 GSI-2 | X | -0.04 | -0.04 | 0 | %100 |
| 11 GSI-3 | X | -0.05 | -0.05 | 0 | %100 |
| 12 GSIP-1A | X | -0.03 | -0.03 | 0 | %100 |
| 13 GSIP-1B | X | -0.04 | -0.04 | 0 | %100 |
| 14 GSIP-2A | X | -0.04 | -0.04 | 0 | %100 |
| 15 GSIP-2B | X | 0 | 0 | 0 | %100 |
| 16 GSIP-3A | X | 0 | 0 | 0 | %100 |
| 17 GSIP-3B | X | -0.03 | -0.03 | 0 | %100 |
| 18 MP-1 | X | -0.03 | -0.03 | 0 | %100 |
| 19 MP-2 | X | -0.03 | -0.03 | 0 | %100 |
| 20 MP-3 | X | -0.03 | -0.03 | 0 | %100 |
| 21 MP-4 | X | -0.03 | -0.03 | 0 | %100 |
| 22 MP-5 | X | -0.03 | -0.03 | 0 | %100 |
| 23 MP-6 | X | -0.03 | -0.03 | 0 | %100 |
| 24 MP-7 | X | -0.03 | -0.03 | 0 | %100 |
| 25 MP-8 | X | -0.03 | -0.03 | 0 | %100 |
| 26 MP-9 | X | -0.03 | -0.03 | 0 | %100 |
| 27 MP-10 | X | -0.03 | -0.03 | 0 | %100 |
| 28 MP-11 | X | -0.03 | -0.03 | 0 | %100 |
| 29 MP-12 | X | -0.03 | -0.03 | 0 | %100 |
| 30 SA-1 | X | -0.05 | -0.05 | 0 | %100 |
| 31 SA-2 | X | -0.03 | -0.03 | 0 | %100 |
| 32 SA-3 | X | -0.02 | -0.02 | 0 | %100 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 33 | SF1-HR | X | 0 | 0 | %100 |
| 34 | SF1-TH | X | 0 | 0 | %100 |
| 35 | SF2-HR | X | -0.002 | -0.002 | 0 |
| 36 | SF2-TH | X | -0.003 | -0.003 | 0 |
| 37 | K1 | X | -0.004 | -0.004 | 0 |
| 38 | K2 | X | -0.004 | -0.004 | 0 |
| 39 | K3 | X | -0.004 | -0.004 | 0 |
| 40 | CP-1 | Z | 0 | 0 | %100 |
| 41 | CP-1U | Z | 0 | 0 | %100 |
| 42 | CP-2 | Z | .003 | .003 | 0 |
| 43 | CP-2U | Z | .002 | .002 | 0 |
| 44 | CP-3 | Z | .003 | .003 | 0 |
| 45 | CP-3U | Z | .002 | .002 | 0 |
| 46 | FF-HR | Z | .002 | .002 | 0 |
| 47 | FFTH | Z | .002 | .002 | 0 |
| 48 | GSI-1 | Z | 0 | 0 | %100 |
| 49 | GSI-2 | Z | .003 | .003 | 0 |
| 50 | GSI-3 | Z | .003 | .003 | 0 |
| 51 | GSIP-1A | Z | .002 | .002 | 0 |
| 52 | GSIP-1B | Z | .002 | .002 | 0 |
| 53 | GSIP-2A | Z | .002 | .002 | 0 |
| 54 | GSIP-2B | Z | 0 | 0 | %100 |
| 55 | GSIP-3A | Z | 0 | 0 | %100 |
| 56 | GSIP-3B | Z | .002 | .002 | 0 |
| 57 | MP-1 | Z | .002 | .002 | 0 |
| 58 | MP-2 | Z | .002 | .002 | 0 |
| 59 | MP-3 | Z | .002 | .002 | 0 |
| 60 | MP-4 | Z | .002 | .002 | 0 |
| 61 | MP-5 | Z | .002 | .002 | 0 |
| 62 | MP-6 | Z | .002 | .002 | 0 |
| 63 | MP-7 | Z | .002 | .002 | 0 |
| 64 | MP-8 | Z | .002 | .002 | 0 |
| 65 | MP-9 | Z | .002 | .002 | 0 |
| 66 | MP-10 | Z | .002 | .002 | 0 |
| 67 | MP-11 | Z | .002 | .002 | 0 |
| 68 | MP-12 | Z | .002 | .002 | 0 |
| 69 | SA-1 | Z | .003 | .003 | 0 |
| 70 | SA-2 | Z | .001 | .001 | 0 |
| 71 | SA-3 | Z | .002 | .002 | 0 |
| 72 | SF1-HR | Z | 0 | 0 | %100 |
| 73 | SF1-TH | Z | 0 | 0 | %100 |
| 74 | SF2-HR | Z | .002 | .002 | 0 |
| 75 | SF2-TH | Z | .002 | .002 | 0 |
| 76 | K1 | Z | .003 | .003 | 0 |
| 77 | K2 | Z | .003 | .003 | 0 |
| 78 | K3 | Z | .003 | .003 | 0 |

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 1 | CP-2 | Y | -.001 | -.001 | .411 |
| 2 | GSI-2 | Y | -.008 | -.008 | .549 |
| 3 | GSIP-2A | Y | -.00017 | -.007 | .409 |
| 4 | GSIP-2A | Y | -.007 | -.009 | 1.146 |
| 5 | GSIP-2A | Y | -.009 | -.005 | 1.882 |
| 6 | GSIP-2A | Y | -.005 | -.004 | 2.618 |
| 7 | GSIP-2A | Y | -.004 | -.0007068 | 3.355 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

| Member Label | Direction | Start Magnitude[k/ft....] | End Magnitude[k/ft.F....] | Start Location[ft.%] | End Location[ft.%] |
|--------------|-----------|---------------------------|---------------------------|----------------------|--------------------|
| 8 | GSIP-2B | Y | -.0007068 | -.004 | 0 |
| 9 | GSIP-2B | Y | -.004 | -.005 | .736 |
| 10 | GSIP-2B | Y | -.005 | -.009 | 1.473 |
| 11 | GSIP-2B | Y | -.009 | -.007 | 2.209 |
| 12 | GSIP-2B | Y | -.007 | -.00017 | 2.946 |
| 13 | SA-2 | Y | -.0003559 | -.008 | 1.556 |
| 14 | SA-2 | Y | -.008 | -.017 | 2.282 |
| 15 | SA-2 | Y | -.017 | -.015 | 3.009 |
| 16 | SA-2 | Y | -.015 | -.008 | 3.735 |
| 17 | SA-2 | Y | -.008 | -.001 | 4.461 |
| 18 | CP-1 | Y | -.001 | -.001 | .41 |
| 19 | GSI-1 | Y | -.008 | -.008 | .549 |
| 20 | GSIP-1A | Y | -.00017 | -.007 | .409 |
| 21 | GSIP-1A | Y | -.007 | -.009 | 1.145 |
| 22 | GSIP-1A | Y | -.009 | -.005 | 1.882 |
| 23 | GSIP-1A | Y | -.005 | -.004 | 2.618 |
| 24 | GSIP-1A | Y | -.004 | -.0007093 | 3.355 |
| 25 | GSIP-1B | Y | -.0007068 | -.004 | 0 |
| 26 | GSIP-1B | Y | -.004 | -.005 | .736 |
| 27 | GSIP-1B | Y | -.005 | -.009 | 1.473 |
| 28 | GSIP-1B | Y | -.009 | -.007 | 2.209 |
| 29 | GSIP-1B | Y | -.007 | -.00017 | 2.946 |
| 30 | SA-1 | Y | -.0003559 | -.008 | 1.556 |
| 31 | SA-1 | Y | -.008 | -.017 | 2.282 |
| 32 | SA-1 | Y | -.017 | -.015 | 3.009 |
| 33 | SA-1 | Y | -.015 | -.008 | 3.735 |
| 34 | SA-1 | Y | -.008 | -.001 | 4.461 |
| 35 | CP-3 | Y | -.001 | -.001 | .41 |
| 36 | GSI-3 | Y | -.008 | -.008 | .549 |
| 37 | GSIP-3A | Y | -.00017 | -.007 | .409 |
| 38 | GSIP-3A | Y | -.007 | -.009 | 1.145 |
| 39 | GSIP-3A | Y | -.009 | -.005 | 1.882 |
| 40 | GSIP-3A | Y | -.005 | -.004 | 2.618 |
| 41 | GSIP-3A | Y | -.004 | -.0007093 | 3.355 |
| 42 | GSIP-3B | Y | -.0007068 | -.004 | 0 |
| 43 | GSIP-3B | Y | -.004 | -.005 | .736 |
| 44 | GSIP-3B | Y | -.005 | -.009 | 1.473 |
| 45 | GSIP-3B | Y | -.009 | -.007 | 2.209 |
| 46 | GSIP-3B | Y | -.007 | -.00017 | 2.946 |
| 47 | SA-3 | Y | -.0003559 | -.008 | 1.556 |
| 48 | SA-3 | Y | -.008 | -.017 | 2.282 |
| 49 | SA-3 | Y | -.017 | -.015 | 3.009 |
| 50 | SA-3 | Y | -.015 | -.008 | 3.735 |
| 51 | SA-3 | Y | -.008 | -.001 | 4.461 |

Member Area Loads (BLC 1 : Dead)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | GSIP-6 | GSIP-5 | GSIP-8 | GSIP-7 | Y | Two Way | -.012 |
| 2 | GSIP-2 | GSIP-1 | GSIP-4 | GSIP-3 | Y | Two Way | -.012 |
| 3 | GSIP-10 | GSIP-9 | GSIP-12 | GSIP-11 | Y | Two Way | -.012 |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

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Envelope Joint Reactions

| Joint | X [k] | LC | Y [k] | LC | Z [k] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|------------|-------|--------|-------|-------|-------|--------|-----------|-------|-----------|--------|-----------|-------|
| 1 SA1 | max | 2.084 | 2 | .851 | 36 | 2.775 | 4 | .213 | 9 | 1.717 | 17 | .949 |
| | min | -3.093 | 26 | .021 | 11 | -4.522 | 28 | -.828 | 49 | -1.716 | 9 | -.74 |
| 3 SA2 | max | 2.859 | 17 | .848 | 48 | 5.186 | 24 | .757 | 18 | 1.735 | 11 | .971 |
| | min | -3.897 | 25 | -.032 | 8 | -3.39 | 16 | -.288 | 10 | -1.734 | 3 | -.579 |
| 5 SA3 | max | 6.893 | 18 | .865 | 42 | 1.303 | 23 | .739 | 23 | 1.45 | 7 | -.194 |
| | min | -4.816 | 10 | -.061 | 2 | -1.303 | 15 | -.635 | 15 | -1.446 | 15 | -.742 |
| 7 K1-A | max | 1.609 | 44 | 2.279 | 44 | 2.791 | 44 | 0 | 9 | 0 | 9 | 0 |
| | min | -.305 | 4 | -.455 | 3 | -.563 | 3 | 0 | 33 | 0 | 33 | 0 |
| 9 K2-A | max | 1.68 | 40 | 2.378 | 40 | .864 | 16 | 0 | 2 | 0 | 2 | 0 |
| | min | -.488 | 16 | -.703 | 16 | -2.914 | 40 | 0 | 26 | 0 | 26 | 0 |
| 11 K3-A | max | 1.248 | 10 | 2.535 | 18 | .036 | 6 | 0 | 23 | 0 | 15 | 0 |
| | min | -3.582 | 18 | -.883 | 10 | -.036 | 14 | 0 | 15 | 0 | 23 | 0 |
| 13 Totals: | max | 7.831 | 18 | 8.381 | 49 | 5.68 | 23 | | | | | |
| 14 | min | -7.831 | 10 | 2.841 | 83 | -5.68 | 15 | | | | | |

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

| Member | Shape | Code Check | Loc [ft] | LC | Shear | Lo | phi*P | phi*P | phi*M | phi*M | Eqn | | |
|--------|---------|------------|----------|--------|-------|-------|-------|-------|--------|--------|--------|--------|-------|
| 1 | MP-2 | PIPE 2.0 | .705 | 5.75 | 18 | 1.01 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 2 | MP-6 | PIPE 2.0 | .652 | 5.75 | 25 | .086 | 2.25 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 3 | MP-10 | PIPE 2.0 | .639 | 5.75 | 26 | 1.08 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 4 | MP-7 | PIPE 2.0 | .603 | 5.75 | 18 | .132 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 5 | MP-11 | PIPE 2.0 | .597 | 5.75 | 25 | 1.06 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 6 | MP-3 | PIPE 2.0 | .568 | 5.75 | 18 | 1.23 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 7 | SF1-HR | PIPE 2.0 | .532 | .651 | 18 | 2.01 | .651 | ... | 1.428 | 32.13 | 1.872 | 1.872 | H1-1a |
| 8 | CP-2U | L2x2x3 | .530 | 0 | 18 | 1.44 | 1.0 | z | 22.173 | 23.393 | .558 | 1.239 | H2-1 |
| 9 | FF-HR | PIPE 2.0 | .499 | .651 | 25 | 2.30 | .651 | ... | 1.428 | 32.13 | 1.872 | 1.872 | H1-1a |
| 10 | CP-1U | L2x2x3 | .481 | 1.034 | 26 | 1.56 | 1.0 | z | 22.173 | 23.393 | .558 | 1.239 | H2-1 |
| 11 | MP-9 | PIPE 2.0 | .451 | 5.75 | 33 | 1.29 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 12 | SF2-HR | PIPE 2.0 | .443 | 11.849 | 18 | 2.25 | 12 | ... | 1.428 | 32.13 | 1.872 | 1.872 | H1-1a |
| 13 | MP-5 | PIPE 2.0 | .439 | 5.75 | 26 | 1.90 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 14 | MP-12 | PIPE 2.0 | .426 | 5.75 | 18 | 1.46 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 15 | CP-3U | L2x2x3 | .423 | 1.034 | 32 | 1.16 | 1.0 | z | 22.173 | 23.393 | .558 | 1.239 | H2-1 |
| 16 | CP-3 | PL6x1/2 | .354 | .517 | 26 | 1.31 | 1.0 | y | 88.748 | 97.2 | 1.012 | 12.15 | H1-1b |
| 17 | CP-2 | PL6x1/2 | .353 | .517 | 33 | 1.50 | 0 | y | 88.748 | 97.2 | 1.012 | 12.15 | H1-1b |
| 18 | MP-4 | PIPE 2.0 | .346 | 5.75 | 24 | 1.64 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 19 | MP-8 | PIPE 2.0 | .344 | 5.75 | 18 | 1.38 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 20 | MP-1 | PIPE 2.0 | .316 | 5.75 | 20 | 1.92 | 5.75 | ... | 16.812 | 32.13 | 1.872 | 1.872 | H1-1b |
| 21 | CP-1 | PL6x1/2 | .291 | .517 | 19 | 1.57 | 1.57 | y | 88.748 | 97.2 | 1.012 | 12.15 | H1-1b |
| 22 | GSI-3 | HSS4X... | .195 | 2.562 | 34 | 1.40 | 4.8 | z | 104.0 | 106.1 | 12.311 | 12.311 | H1-1b |
| 23 | GSI-2 | HSS4X... | .193 | 2.562 | 41 | 1.41 | 3.2 | z | 104.0 | 106.1 | 12.311 | 12.311 | H1-1b |
| 24 | GSI-1 | HSS4X... | .189 | 2.562 | 43 | 1.52 | 4.8 | z | 104.0 | 106.1 | 12.311 | 12.311 | H1-1b |
| 25 | SA-3 | HSS4X... | .187 | 3.566 | 18 | 1.16 | 0 | z | 97.439 | 106.1 | 12.311 | 12.311 | H1-1b |
| 26 | GSIP-2A | L2x2x3 | .182 | 2.046 | 25 | .009 | 0 | y | 10.114 | 23.393 | .558 | 1.085 | H2-1 |
| 27 | SF2-TH | PIPE 3.0 | .180 | 4.427 | 2 | 1.77 | 4.4 | ... | 6.489 | 65.205 | 5.749 | 5.749 | H1-1a |
| 28 | SA-2 | HSS4X... | .176 | 3.566 | 25 | 1.46 | 0 | z | 97.439 | 106.1 | 12.311 | 12.311 | H1-1b |
| 29 | SA-1 | HSS4X... | .173 | 0 | 25 | 1.55 | 0 | z | 97.439 | 106.1 | 12.311 | 12.311 | H1-1b |
| 30 | GSIP-3B | L2x2x3 | .172 | 2.088 | 33 | .008 | 0 | y | 10.114 | 23.393 | .558 | 1.167 | H2-1 |
| 31 | FFTH | PIPE 3.0 | .171 | 8.073 | 9 | 1.98 | 4.4 | ... | 6.489 | 65.205 | 5.749 | 5.749 | H1-1a |
| 32 | SF1-TH | PIPE 3.0 | .169 | 8.073 | 2 | 1.42 | 4.4 | ... | 6.489 | 65.205 | 5.749 | 5.749 | H1-1a |
| 33 | GSIP-3A | L2x2x3 | .169 | 2.003 | 18 | .007 | 4.0 | y | 10.114 | 23.393 | .558 | 1.086 | H2-1 |
| 34 | GSIP-1B | L2x2x3 | .158 | 2.046 | 27 | .008 | 0 | y | 10.114 | 23.393 | .558 | 1.085 | H2-1 |
| 35 | GSIP-2B | L2x2x3 | .150 | 2.088 | 23 | .007 | 0 | z | 10.114 | 23.393 | .558 | 1.087 | H2-1 |
| 36 | GSIP-1A | L2x2x3 | .144 | 2.046 | 31 | .008 | 4.0 | y | 10.114 | 23.393 | .558 | 1.067 | H2-1 |
| 37 | K3 | LL2.5x2.. | .100 | 4.375 | 18 | 1.005 | 0 | z | 44.492 | 58.32 | 3.954 | 2.55 | H1-1a |



Company : Tower Engineering Professionals, Inc.
 Designer : AEW
 Job Number : TEP No. 68495.424417
 Model Name : 302468 Petro Lock

June 19, 2020
 3:47 PM
 Checked By: HBC

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

| Member | Shape | Code Check | Loc [ft] | LC | Shear | Lo | phi*P | phi*P | phi*M | phi*M | Eqn | | |
|--------|-------|------------|----------|----|-------|-------|-------|-------|--------|-------|-------|------|-------|
| 38 | K2 | LL2.5x2.. | .093 | 0 | 40 | 1.006 | 0 | z | 44.492 | 58.32 | 3.954 | 2.55 | H1-1a |
| 39 | K1 | LL2.5x2.. | .089 | 0 | 44 | 1.007 | 0 | z | 44.492 | 58.32 | 3.954 | 2.55 | H1-1a |

Envelope None Cold Formed Steel Code Checks

| Member | Shape | Code | Loc [ft] | LC | Shear | Dir | LC | Pn [k] | Tn [k] | Mny [k-ft] | Mnz [k-ft] | Cb | Cmy | Cmz | Eqn |
|----------------------|-------|------|----------|----|-------|-----|----|--------|--------|------------|------------|----|-----|-----|-----|
| No Data to Print ... | | | | | | | | | | | | | | | |

APPENDIX B
ADDITIONAL CALCULATIONS



| | | |
|------------------------|------------------|-----------------|
| Code Revisions: | TIA-222-H | IBC 2018 |
| Tower Type: | Monopole | |

| Wind Inputs: | | |
|----------------------------|--------------|--------|
| Ult. Wind Velocity: | 125.0 | mph |
| Live Load Velocity: | 30.0 | mph |
| Ice Wind Velocity: | 50.0 | mph |
| Base Ice Thickness: | 1.50 | inches |
| Mount Centerline: | 123.0 | ft |
| Antenna Centerline: | 123.0 | ft |
| Exposure Category: | C | |
| Topo Category: | 1 | |
| Risk Category: | II | |
| Ground Elevation: | 19 | ft |

| Wind Calculations: | | |
|-------------------------------|--------------|-------------------------|
| K_{zt}: | 1.000 | Section 2.6.6 |
| K_d: | 0.950 | |
| K_{z-Mount}: | 1.322 | Section 2.6.5.2 |
| K_{z-Antenna}: | 1.322 | Section 2.6.5.2 |
| K_{iz}: | 1.141 | Section 2.6.10 |
| Ice Thickness: | 1.454 | inches - Section 2.6.10 |
| K_{es-wind}: | 0.95 | Annex S (Table S-1) |
| K_{es-ice}: | 0.85 | Annex S (Table S-1) |

| Without Ice - (psf) | | With Ice - (psf) | |
|--|-------|--|------|
| (q_zG_h)_{Mount}: | 47.69 | (q_zG_h)_{Mount}: | 8.03 |
| (q_zG_h)_{Antenna}: | 47.69 | (q_zG_h)_{Antenna}: | 8.03 |



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

| MFR | Model | Height (in) | Width (in) | Depth (in) | Wt. (lbs) | Azimuth° | Qty | Shape | Member Label | Distance from start node of the member | | |
|----------|----------------------|-------------|------------|------------|-----------|----------|-----|-------|--------------|--|--------------------|--------------------|
| | | | | | | | | | | Location #1 (ft,%) | Location #2 (ft,%) | Location #3 (ft,%) |
| Ericsson | AIR32 B66Aa/B2a | 56.60 | 12.90 | 8.70 | 132.20 | 0.00 | 1 | Flat | MP-1 | 1.50 | 4.50 | |
| RFS | APXVAARR24_43-UNA20 | 95.90 | 24.00 | 8.70 | 127.90 | 0.00 | 1 | Flat | MP-2 | 1.50 | 7.50 | |
| Ericsson | RRUS 4415 B25 | 15.00 | 13.20 | 5.40 | 46.00 | 0.00 | 1 | Flat | MP-2 | 2.50 | | |
| Ericsson | Radio 4449 B71 B85A | 15.00 | 13.20 | 10.50 | 75.00 | 0.00 | 1 | Flat | MP-2 | 2.50 | | |
| Ericsson | Air6449 B41 | 33.10 | 20.60 | 8.60 | 104.00 | 0.00 | 1 | Flat | MP-3 | 1.50 | 4.00 | |
| RFS | APX16DWV16DWVS-E-A20 | 55.90 | 13.30 | 3.10 | 40.70 | 0.00 | 1 | Flat | MP-4 | 1.50 | 5.50 | |
| Ericsson | KRY 112 489/1 | 11.00 | 6.10 | 3.90 | 15.40 | 0.00 | 1 | Flat | MP-4 | 2.50 | | |
| Ericsson | KRY 112 144/1 | 6.90 | 6.10 | 2.70 | 11.00 | 0.00 | 1 | Flat | MP-4 | 3.50 | | |
| Ericsson | AIR32 B66Aa/B2a | 56.60 | 12.90 | 8.70 | 132.20 | 160.00 | 1 | Flat | MP-5 | 1.50 | 4.50 | |
| RFS | APXVAARR24_43-UNA20 | 95.90 | 24.00 | 8.70 | 127.90 | 160.00 | 1 | Flat | MP-6 | 1.50 | 7.50 | |
| Ericsson | RRUS 4415 B25 | 15.00 | 13.20 | 5.40 | 46.00 | 160.00 | 1 | Flat | MP-6 | 2.50 | | |
| Ericsson | Radio 4449 B71 B85A | 15.00 | 13.20 | 10.50 | 75.00 | 160.00 | 1 | Flat | MP-6 | 2.50 | | |
| Ericsson | Air6449 B41 | 33.10 | 20.60 | 8.60 | 104.00 | 160.00 | 1 | Flat | MP-7 | 1.50 | 4.00 | |
| RFS | APX16DWV16DWVS-E-A20 | 55.90 | 13.30 | 3.10 | 40.70 | 160.00 | 1 | Flat | MP-8 | 1.50 | 5.50 | |
| Ericsson | KRY 112 489/1 | 11.00 | 6.10 | 3.90 | 15.40 | 160.00 | 2 | Flat | MP-8 | 2.50 | | |
| Ericsson | KRY 112 144/1 | 6.90 | 6.10 | 2.70 | 11.00 | 160.00 | 1 | Flat | MP-8 | 3.50 | | |
| Ericsson | AIR32 B66Aa/B2a | 56.60 | 12.90 | 8.70 | 132.20 | 160.00 | 1 | Flat | MP-9 | 1.50 | 4.50 | |
| RFS | APXVAARR24_43-UNA20 | 95.90 | 24.00 | 8.70 | 127.90 | 160.00 | 1 | Flat | MP-10 | 1.50 | 7.50 | |
| Ericsson | RRUS 4415 B25 | 15.00 | 13.20 | 5.40 | 46.00 | 160.00 | 1 | Flat | MP-10 | 2.50 | | |
| Ericsson | Radio 4449 B71 B85A | 15.00 | 13.20 | 10.50 | 75.00 | 160.00 | 1 | Flat | MP-10 | 2.50 | | |
| Ericsson | Air6449 B41 | 33.10 | 20.60 | 8.60 | 104.00 | 160.00 | 1 | Flat | MP-11 | 1.50 | 4.00 | |
| RFS | APX16DWV16DWVS-E-A20 | 55.90 | 13.30 | 3.10 | 40.70 | 160.00 | 1 | Flat | MP-12 | 1.50 | 5.50 | |
| Ericsson | KRY 112 489/1 | 11.00 | 6.10 | 3.90 | 15.40 | 160.00 | 2 | Flat | MP-12 | 2.50 | | |
| Ericsson | KRY 112 144/1 | 6.90 | 6.10 | 2.70 | 11.00 | 160.00 | 1 | Flat | MP-12 | 3.50 | | |



Member Forces are Calculated in Accordance with TIA-222-H

| Member Name | Wind Proj. (in) | Length (in) | Shape | θ (°) | Perimeter (in) |
|-------------|-----------------|-------------|-------|--------|----------------|
| CP-1 | 6.000 | 12.41 | Flat | 30.00 | 24.00 |
| CP-1U | 2.000 | 12.41 | Flat | 30.00 | 8.00 |
| CP-2 | 6.000 | 12.41 | Flat | -30.00 | 24.00 |
| CP-2U | 2.000 | 12.41 | Flat | -30.00 | 8.00 |
| CP-3 | 6.000 | 12.41 | Flat | 90.00 | 24.00 |
| CP-3U | 2.000 | 12.41 | Flat | 90.00 | 8.00 |
| FF-HR | 2.375 | 150.00 | Round | 90.00 | 7.46 |
| FFTH | 3.500 | 150.00 | Round | 90.00 | 11.00 |
| GSI-1 | 4.000 | 61.50 | Flat | 30.00 | 16.00 |
| GSI-2 | 4.000 | 61.50 | Flat | -30.00 | 16.00 |
| GSI-3 | 4.000 | 61.50 | Flat | 90.00 | 16.00 |
| GSIP-1A | 2.000 | 49.09 | Flat | -30.00 | 8.00 |
| GSIP-1B | 2.000 | 49.09 | Flat | 90.00 | 8.00 |
| GSIP-2A | 2.000 | 49.09 | Flat | 90.00 | 8.00 |
| GSIP-2B | 2.000 | 49.09 | Flat | 30.00 | 8.00 |
| GSIP-3A | 2.000 | 49.09 | Flat | 30.00 | 8.00 |
| GSIP-3B | 2.000 | 49.09 | Flat | -30.00 | 8.00 |
| MP-1 | 2.375 | 96.00 | Round | | 7.46 |
| MP-2 | 2.375 | 96.00 | Round | | 7.46 |
| MP-3 | 2.375 | 96.00 | Round | | 7.46 |
| MP-4 | 2.375 | 96.00 | Round | | 7.46 |
| MP-5 | 2.375 | 96.00 | Round | | 7.46 |
| MP-6 | 2.375 | 96.00 | Round | | 7.46 |
| MP-7 | 2.375 | 96.00 | Round | | 7.46 |
| MP-8 | 2.375 | 96.00 | Round | | 7.46 |
| MP-9 | 2.375 | 96.00 | Round | | 7.46 |
| MP-10 | 2.375 | 96.00 | Round | | 7.46 |
| MP-11 | 2.375 | 96.00 | Round | | 7.46 |
| MP-12 | 2.375 | 96.00 | Round | | 7.46 |
| SA-1 | 4.000 | 62.25 | Flat | -60.00 | 16.00 |
| SA-2 | 4.000 | 62.25 | Flat | 60.00 | 16.00 |
| SA-3 | 4.000 | 62.25 | Flat | 0.00 | 16.00 |
| SF1-HR | 2.375 | 150.00 | Round | 30.00 | 7.46 |
| SF1-TH | 3.500 | 150.00 | Round | 30.00 | 11.00 |
| SF2-HR | 2.375 | 150.00 | Round | -30.00 | 7.46 |
| SF2-TH | 3.500 | 150.00 | Round | -30.00 | 11.00 |
| K1 | 2.500 | 52.50 | Flat | | 10.00 |
| K2 | 2.500 | 52.50 | Flat | | 10.00 |
| K3 | 2.500 | 52.50 | Flat | | 10.00 |

Moment Bolt Group - Support Arm

Bolt Size: 0.625 in
 # Bolts: 4
 Plate Width: 8 in
 Plate Height: 8 in
 Bolt H Gap: 6 in
 Bolt V Gap: 6 in
 Plate T: 0.75 in
 Slip Member Ø: N/A in
 Bolt Grade: A325N
 $F_{u_{bolt}}$: 120 ksi
 r: 4.2426 in
 J: 72.00 in⁴/in²
 $Bolt_{Area}$: 0.307 in²
 $Bolt_{Area, Net Tensile}$: 0.226 in²
 Pretension: 19 kips
 Slotted Holes: No

| Code Checks Per ANSI/TIA-222-H: | | |
|---------------------------------|-------|------|
| Bolt Capacity = | 38.1% | PASS |
| Plate Capacity = | 42.8% | PASS |

Plate Bending

Horizontal Member height: 4 in
 Horizontal Member width: 4 in

Plate Fy: 35 ksi

$$\begin{array}{lll}
 M_y = 5.3905 & \text{k-in} & Z_y = 1.125 \text{ in}^3 \\
 M_z = 15.1755 & \text{k-in} & Z_z = 1.125 \text{ in}^3 \\
 S_y = 0.750 & \text{in}^3 & \\
 S_z = 0.750 & \text{in}^3 &
 \end{array}$$

$\emptyset M_{p_y} (Z)$: 35.438 k-in
 $\emptyset M_{p_y} (S)$: 37.800 k-in
 $\emptyset M_{p_z} (Z)$: 35.438 k-in
 $\emptyset M_{p_z} (S)$: 37.800 k-in

Exhibit F

Power Density/RF Emissions Report

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

T-Mobile Existing Facility

Site ID: CT11661A

Hartford South2/Frnkln Av
123 Meadow Street
Hartford, Connecticut 06114

July 21, 2020

EBI Project Number: 6220003232

| Site Compliance Summary | |
|---|------------------|
| Compliance Status: | COMPLIANT |
| Site total MPE% of FCC general population allowable limit: | 45.97% |

July 21, 2020

T-Mobile

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

Emissions Analysis for Site: CT11661A - Hartford South2/Frnkln Av

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **123 Meadow Street in Hartford, 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 123 Meadow Street in Hartford, 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) 2 LTE channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 9) 2 NR channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 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 32 for the 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APX16DWV-16DWV-S-E-A20 for the 1900 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APX16DWV-16DWV-S-E-A20 for the 1900 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APX16DWV-16DWV-S-E-A20 for the 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 123 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 32 | Make / Model: | Ericsson AIR 32 | Make / Model: | Ericsson AIR 32 |
| Frequency Bands: | 1900 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 2100 MHz |
| Gain: | 15.35 dBd / 15.85 dBd | Gain: | 15.35 dBd / 15.85 dBd | Gain: | 15.35 dBd / 15.85 dBd |
| Height (AGL): | 123 feet | Height (AGL): | 123 feet | Height (AGL): | 123 feet |
| Channel Count: | 4 | Channel Count: | 4 | Channel Count: | 4 |
| Total TX Power (W): | 240 Watts | Total TX Power (W): | 240 Watts | Total TX Power (W): | 240 Watts |
| ERP (W): | 8,728.31 | ERP (W): | 8,728.31 | ERP (W): | 8,728.31 |
| Antenna A1 MPE %: | 2.07% | Antenna B1 MPE %: | 2.07% | Antenna C1 MPE %: | 2.07% |
| Antenna #: | 2 | Antenna #: | 2 | Antenna #: | 2 |
| Make / Model: | RFS APXVAARR24_43-U-NA20 | Make / Model: | RFS APXVAARR24_43-U-NA20 | Make / Model: | RFS APXVAARR24_43-U-NA20 |
| Frequency Bands: | 600 MHz / 600 MHz / 700 MHz / 1900 MHz | Frequency Bands: | 600 MHz / 600 MHz / 700 MHz / 1900 MHz | Frequency Bands: | 600 MHz / 600 MHz / 700 MHz / 1900 MHz |
| Gain: | 12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd | Gain: | 12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd | Gain: | 12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd |
| Height (AGL): | 123 feet | Height (AGL): | 123 feet | Height (AGL): | 123 feet |
| Channel Count: | 7 | Channel Count: | 7 | Channel Count: | 7 |
| Total TX Power (W): | 320 Watts | Total TX Power (W): | 320 Watts | Total TX Power (W): | 320 Watts |
| ERP (W): | 8,466.41 | ERP (W): | 8,466.41 | ERP (W): | 8,466.41 |
| Antenna A2 MPE %: | 3.35% | Antenna B2 MPE %: | 3.35% | Antenna C2 MPE %: | 3.35% |
| Antenna #: | 3 | Antenna #: | 3 | Antenna #: | 3 |
| 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: | 22.05 dBd / 22.05 dBd | Gain: | 22.05 dBd / 22.05 dBd | Gain: | 22.05 dBd / 22.05 dBd |
| Height (AGL): | 123 feet | Height (AGL): | 123 feet | Height (AGL): | 123 feet |
| Channel Count: | 4 | Channel Count: | 4 | Channel Count: | 4 |
| Total TX Power (W): | 160 Watts | Total TX Power (W): | 160 Watts | Total TX Power (W): | 160 Watts |
| ERP (W): | 25,651.93 | ERP (W): | 25,651.93 | ERP (W): | 25,651.93 |
| Antenna A3 MPE %: | 6.10% | Antenna B3 MPE %: | 6.10% | Antenna C3 MPE %: | 6.10% |
| Antenna #: | 4 | Antenna #: | 4 | Antenna #: | 4 |
| Make / Model: | RFS APX16DWV-16DWV-S-E-A20 | Make / Model: | RFS APX16DWV-16DWV-S-E-A20 | Make / Model: | RFS APX16DWV-16DWV-S-E-A20 |
| Frequency Bands: | 1900 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 2100 MHz | Frequency Bands: | 1900 MHz / 2100 MHz |
| Gain: | 15.9 dBd / 15.9 dBd | Gain: | 15.9 dBd / 15.9 dBd | Gain: | 15.9 dBd / 15.9 dBd |
| Height (AGL): | 123 feet | Height (AGL): | 123 feet | Height (AGL): | 123 feet |
| Channel Count: | 6 | Channel Count: | 6 | Channel Count: | 6 |
| Total TX Power (W): | 180 Watts | Total TX Power (W): | 180 Watts | Total TX Power (W): | 180 Watts |
| ERP (W): | 7,002.81 | ERP (W): | 7,002.81 | ERP (W): | 7,002.81 |
| Antenna A4 MPE %: | 1.66% | Antenna B4 MPE %: | 1.66% | Antenna C4 MPE %: | 1.66% |

| Site Composite MPE % | |
|------------------------------------|---------------|
| Carrier | MPE % |
| T-Mobile (Max at Sector A): | 13.18% |
| Metro PCS | 1.06% |
| AT&T | 4.93% |
| Nextel | 0.28% |
| Clearwire | 0.27% |
| Sprint | 17.25% |
| Verizon | 9% |
| Site Total MPE % : | 45.97% |

| T-Mobile MPE % Per Sector | |
|---------------------------|---------------|
| T-Mobile Sector A Total: | 13.18% |
| T-Mobile Sector B Total: | 13.18% |
| T-Mobile Sector C Total: | 13.18% |
| | |
| Site Total MPE % : | 45.97% |

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 1900 MHz LTE | 2 | 2056.61 | 123.0 | 9.77 | 1900 MHz LTE | 1000 | 0.98% |
| T-Mobile 2100 MHz LTE | 2 | 2307.55 | 123.0 | 10.97 | 2100 MHz LTE | 1000 | 1.10% |
| T-Mobile 600 MHz LTE | 2 | 591.73 | 123.0 | 2.81 | 600 MHz LTE | 400 | 0.70% |
| T-Mobile 600 MHz NR | 1 | 1577.94 | 123.0 | 3.75 | 600 MHz NR | 400 | 0.94% |
| T-Mobile 700 MHz LTE | 2 | 648.82 | 123.0 | 3.08 | 700 MHz LTE | 467 | 0.66% |
| T-Mobile 1900 MHz LTE | 2 | 2203.69 | 123.0 | 10.47 | 1900 MHz LTE | 1000 | 1.05% |
| T-Mobile 2500 MHz LTE | 2 | 6412.98 | 123.0 | 30.48 | 2500 MHz LTE | 1000 | 3.05% |
| T-Mobile 2500 MHz NR | 2 | 6412.98 | 123.0 | 30.48 | 2500 MHz NR | 1000 | 3.05% |
| T-Mobile 1900 MHz GSM | 4 | 1167.14 | 123.0 | 11.09 | 1900 MHz GSM | 1000 | 1.11% |
| T-Mobile 2100 MHz UMTS | 2 | 1167.14 | 123.0 | 5.55 | 2100 MHz UMTS | 1000 | 0.55% |
| | | | | | | Total: | 13.18% |

• 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: | 13.18% |
| Sector B: | 13.18% |
| Sector C: | 13.18% |
| T-Mobile Maximum MPE % (Sector A): | 13.18% |
| | |
| Site Total: | 45.97% |
| | |
| Site Compliance Status: | COMPLIANT |

The anticipated composite MPE value for this site assuming all carriers present is **45.97%** 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.

Exhibit G

Mailing Receipts/Proof of Notice

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Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

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UPS Access Point™
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NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

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1 OF 1

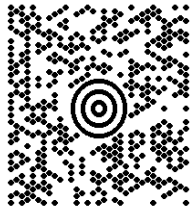
1 LBS

CENTERLINE COMMUNICATIONS
5082655599
CENTERLINE CORPORATE
95 RYAN DR.
RAYNHAM MA 02767

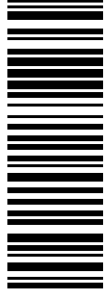
SHIP TO:

PATRICK MASSEY, PM, SITE DEVT.
AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY

WOBURN MA 01801-1053

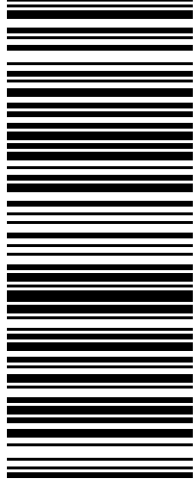


MA 018 9-04



UPS GROUND

TRACKING #: 1Z 9Y4 503 03 2723 0125



BILLING: P/P

Reference # 1: CT11661A - CSC to ATC

CS 22.0.11. WNTNV50 31.0A 07/2020



TM

Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Thursday, August 6, 2020 11:47 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030327230125



Hello, your package has been delivered.

Delivery Date: Thursday, 08/06/2020

Delivery Time: 11:44 AM

Left At: FRONT DESK

Signed by: LONG

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030327230125](#)

Ship To: AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY
WOBURN, MA 018011053
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11661A - CSC TO ATC



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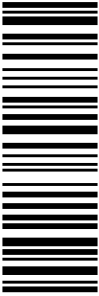
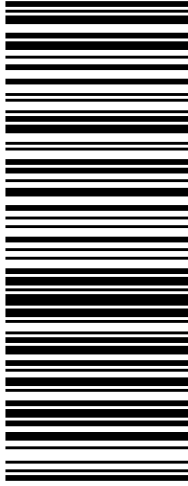

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| | | | |
|---|---|---|---|
| <p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: THE HON. LUKE BRONIN, MAYOR CITY OF HARTFORD 550 MAIN STREET HARTFORD CT 06103-2911</p> | <p style="font-size: 2em;">CT 061 9-03</p>  | <p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 2640 5733</p>  |  <p>Reference # 1: CT11661A - CSC to City CS 22.0.11. WNTNVS0 31.0A.07/2020</p> <p style="text-align: right;">BILLING: P/P</p> |
|---|---|---|---|

Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Thursday, August 6, 2020 10:59 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030326405733



Hello, your package has been delivered.

Delivery Date: Thursday, 08/06/2020

Delivery Time: 10:52 AM

Left At: OFFICE

Signed by: SOTO

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030326405733](#)

Ship To: CITY OF HARTFORD
550 MAIN STREET
HARTFORD, CT 061032911
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11661A - CSC TO CITY



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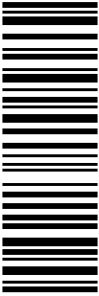


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|--|---|---|---|
| <p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: AIMEE CHAMBERS, AICP, DIR. OF PLAN. CITY OF HARTFORD 260 CONSTITUTION PLAZA HARTFORD CT 06103-1820</p> | <p>CT 061 9-03</p>  | <p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 3387 4348</p>  | <p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: CT11661A - CSC to Planning</p> <p style="font-size: small; text-align: right;">CS 22.0.11. WNTNVS0 31.0A.07/2020</p>  |
|--|---|---|---|

Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Thursday, August 6, 2020 11:37 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030333874348



Hello, your package has been delivered.

Delivery Date: Thursday, 08/06/2020

Delivery Time: 11:36 AM

Left At: OFFICE

Signed by: BETTE

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030333874348](#)

Ship To: CITY OF HARTFORD
260 CONSTITUTION PLAZA
HARTFORD, CT 061031820
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11661A - CSC TO PLANNING



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