

August 28, 2020

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

Regarding: Notice of Exempt Modification – T-Mobile Site #: CT11821E_Anchor
Address: 668 Jones Hill Road, West Haven, CT

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennae at the 143-foot level of the existing +/- 149-foot monopole at the above-referenced address, latitude 41.256400, longitude -72.7972400. The tower is operated by American Tower Corporation.

T-Mobile now intends to modify its existing telecommunications facility by adding three (3) antennae, adding three (3) remote radio units (RRU) and adding one (3) cable as more particularly detailed and described in the enclosed Construction Drawings prepared by A.T. Engineering Service, PLLC, last revised August 19, 2020. The centerline height of the existing and proposed antennas is and will remain at 143 feet.

Planned Modifications:

Add:

- (3) AIR6449 B41 Antennae
- (3) 4415 B25 RRU
- (1) 1-1/4" Hybrid Cables

Remove

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

Existing to Remain:

- (9) Antennae
- (3) RRU
- (3) 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 and property owner, The Honorable Nancy R. Rossi, Mayor of the City of West Haven as chief elected official and Fred Messore, Commissioner of Planning and Development of the City of West Haven.

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 15, 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 June 23, 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 and property owner
 The Honorable Nancy R. Rossi, Mayor of the City of West Haven
 Fred Messore, Commissioner of Planning and Development of the City of West Haven

Exhibit A

Original Facility Approval

CJ11-881E

BUILDING PERMIT

150971

THIS CARD MUST BE DISPLAYED ON THE PREMISES

668 Jones St. 11 rd
FOR Wireless Communication Antenna
ISSUED 10/3/05

Pafan

BUILDING OFFICIAL

WEST HAVEN, CONNECTICUT

BUILDING PERMIT FIELD CARD

This card, conspicuously posted, must be accessible to inspectors

This Field Card must be made available to Inspectors from this office between 9 a. m. and 5 p. m. and must be returned before a Certificate of Occupancy can be granted.

PERMIT No. 150971 has been issued to Wireless Communication Facility 168 Jones Hill Rd

(Do not write below this line)

ITEM	CONTRACTOR LICENSE NO.	INSPECTIONS			FINAL
		1	2	3	
Structural					
Electrical					
Plumbing					
Heating/Vent.					
Sewage Disposal					
Swimming Pool					
Oil Burner					
FIRE MARSHALL					
Other					

Approval shall be signed by Building Official before lathing or interior finish work is commenced.

No building or structure hereafter altered for which a certificate of use and occupancy has not been heretofore issued, shall be occupied or used, until the certificate shall have been issued by the Building Official.

Building Official Approval of Rough Work

Exhibit B

Property Card



Property Information

Property Location	668 JONES HILL RD
Owner	AMERICAN TOWERS INC.
Co-Owner	ATTN TAX DEPT
Mailing Address	PO BOX 723597 ATLANTA GA 31139
Land Use	431V TEL REL TW MDL-00
Land Class	I
Zoning Code	
Census Tract	

Street Index	
Acreage	0
Utilities	
Lot Setting/Desc	
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	0
Stories	
Building Style	UNKNOWN
Building Use	Vacant
Building Condition	
Occupancy	
Extra Fixtures	0
Bath Style	NA
Kitchen Style	NA
AC Type	
Heating Type	
Heating Fuel	

Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Total Rooms	0
Roof Style	
Roof Cover	
Interior Floors 1	
Interior Floors 2	
Exterior Walls	
Exterior Walls 2	NA
Interior Walls	
Interior Walls 2	NA

(*Industrial / Commercial Details)

Building Desc.	TEL REL TW
Building Grade	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA



City of West Haven, CT

Property Listing Report

Map Block Lot

019-0001-0-000A-C

Building # 1

Section # 1

Account 00019113

Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	0	0
Extras	0	0
Improvements		
Outbuildings	431800	302260
Land	0	0
Total	431800	302260

Sub Areas

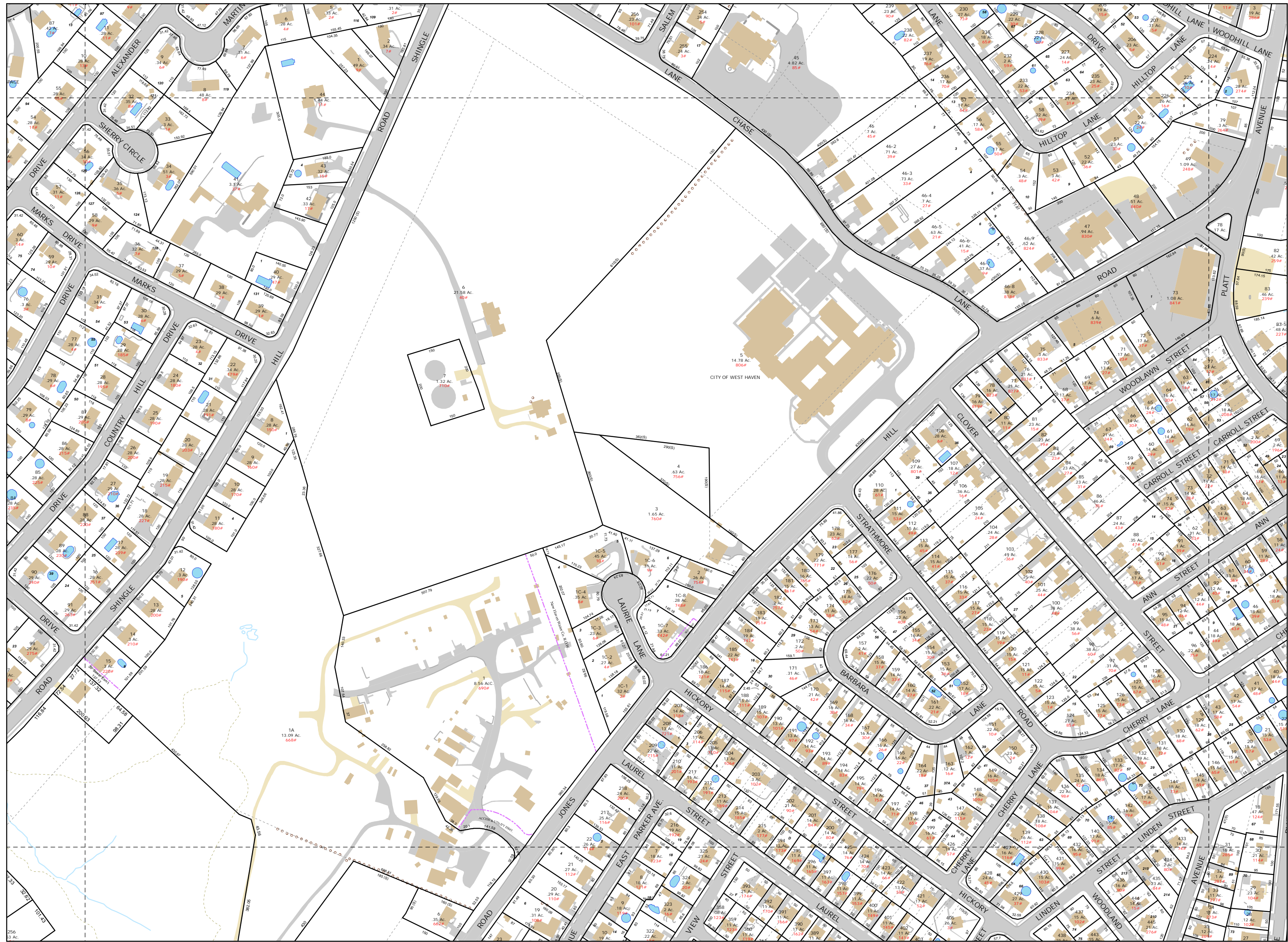
Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Outbuilding and Extra Features

Type	Description
TOWER	2 SITES
CELL SHED	288 S.F.
FENCE-6' CHAIN	200 L.F.

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
AMERICAN TOWERS INC.	0000/0000	2010-10-01	0



Planimetric Data
and Property Maps 2018

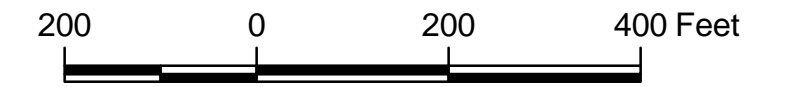


- P Pools
- Building
- Railroad
- Hydro
- Swamps
- Roads, Dirt Roads, Sidewalks and Structures
- 100' Record Dimension
- 2 Ac Acreage
- 77 Lot Number
- 15# Address
- Property Line
- Easement Line

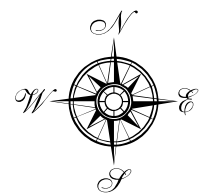
THIS MAP IS PREPARED FOR THE INVENTORY OF REAL PROPERTY FOUND WITHIN THESE JURISDICTION AND IS COMPILED FROM RECORDED DEEDS, PLATS, AND OTHER PUBLIC RECORDS AND DATA. USERS OF THIS MAP ARE HEREBY NOTIFIED THAT THE AFOREMENTIONED PUBLIC PRIMARY INFORMATION CONTAINED ON THIS MAP. THE TOWNS AND THE MAPPING COMPANIES ASSUME NO LEGAL RESPONSIBILITIES FOR THE INFORMATION CONTAINED ON THIS MAP.

Map Produced in August 2019
Planimetrics Produced 2016

1 inch = 200 Feet



74	75	76	77				
70	71	72	73				
67	68	69					
63	64	65	66				
57	58	59	60	61	62		
51	52	53	54	55	56		
45	46	47	48	49	50		
39	40	41	42	43	44		
31	32	33	34	35	36	37	38
23	24	25	26	27	28	29	30
17	18	19	20	21	22		
12	13	14	15	16			
08	09	10	11				
05	06	07					
02	03	04					
01							



24	25	26
18	19	20
13	14	15

Exhibit C

Construction Drawings



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: WEST HAVEN & RT 162 CT
 ATC SITE NUMBER: 243036
 T-MOBILE SITE NAME: CT821/D&B FLOWER FARM
 T-MOBILE SITE NUMBER: CT11821E
 SITE ADDRESS: 668 JONES HILL ROAD
 WEST HAVEN, CT 06516



LOCATION MAP



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	CWB	07/10/20
1	UPDATED SPEC SHEETS	CWB	07/17/20
2	REVISED CABINETS & ANTS.	CWB	08/12/20
3	REVISED CABINETS	CWB	08/19/20

ATC SITE NUMBER:
243036
 ATC SITE NAME:
**WEST HAVEN &
 RT 162 CT**
 T-MOBILE SITE NAME:
**CT821/D&B FLOWER
 FARM**
 SITE ADDRESS:
 668 JONES HILL ROAD
 WEST HAVEN, CT 06516



DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

TITLE SHEET

SHEET NUMBER:
G-001
 REVISION:
3

T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
 67D5A992M HYBRID 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> 668 JONES HILL ROAD WEST HAVEN, CT 06516 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.25640278 LONGITUDE: -72.97236111 GROUND ELEVATION: 135' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (6) TTA(s) AND (12) 1-5/8" COAX CABLE(s) INSTALL (3) ANTENNA(s), (3) RRRH(s), AND (1) 1-1/4" HYBRID CABLE(s) EXISTING (9) ANTENNA(s), (3) RRRH(s), AND (3) 1-5/8" HYBRID CABLE(s) TO REMAIN <u>GROUND WORK:</u> REMOVE (1) CABINET INSTALL (1) 6160 AC CABINET AND (1) ENCLOSURE B160 BATTERY CABINET EXISTING (1) CABINET 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> NEWKIRK ROBERT E 668 JONES HILL RD WEST HAVEN, CT 06516	<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.	G-001	TITLE SHEET	3	08/19/20	CWB
<u>UTILITY COMPANIES</u> POWER COMPANY: UNITED ILLUMINATING PHONE: (203) 499-3333 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	<u>PROJECT LOCATION DIRECTIONS</u> FROM BOSTON - TAKE I 95 SOUTH INTO CT AND FOLLOW TO EXIT # 42 . TAKE RIGHT ONTO RT 162 AND FOLLOW INTO WEST HAVEN - STAY ON RT 162 AND FOLLOW TO 668 JOHNS HILL ROAD	G-002	GENERAL NOTES	0	07/10/20	CWB	
811 Know what's below. Call before you dig.		C-101	DETAILED SITE PLAN	3	08/19/20	CWB	
		C-102	DETAILED GROUND PLAN	3	08/19/20	CWB	
		C-201	TOWER ELEVATION	2	08/12/20	CWB	
		C-401	ANTENNA INFORMATION & SCHEDULE	2	08/12/20	CWB	
		C-501	CONSTRUCTION DETAILS	2	08/12/20	CWB	
		E-501	GROUNDING DETAILS	2	08/12/20	CWB	
		R-601	SUPPLEMENTAL				
		R-602	SUPPLEMENTAL				
		R-603	SUPPLEMENTAL				
		R-604	SUPPLEMENTAL				
		R-605	SUPPLEMENTAL				

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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 ANSI/EIA/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	CWB	07/10/20

ATC SITE NUMBER:
243036
 ATC SITE NAME:
**WEST HAVEN &
 RT 162 CT
 T-MOBILE SITE NAME:
 CT821/D&B FLOWER
 FARM**
 SITE ADDRESS:
 668 JONES HILL ROAD
 WEST HAVEN, CT 06516



DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

GENERAL NOTES

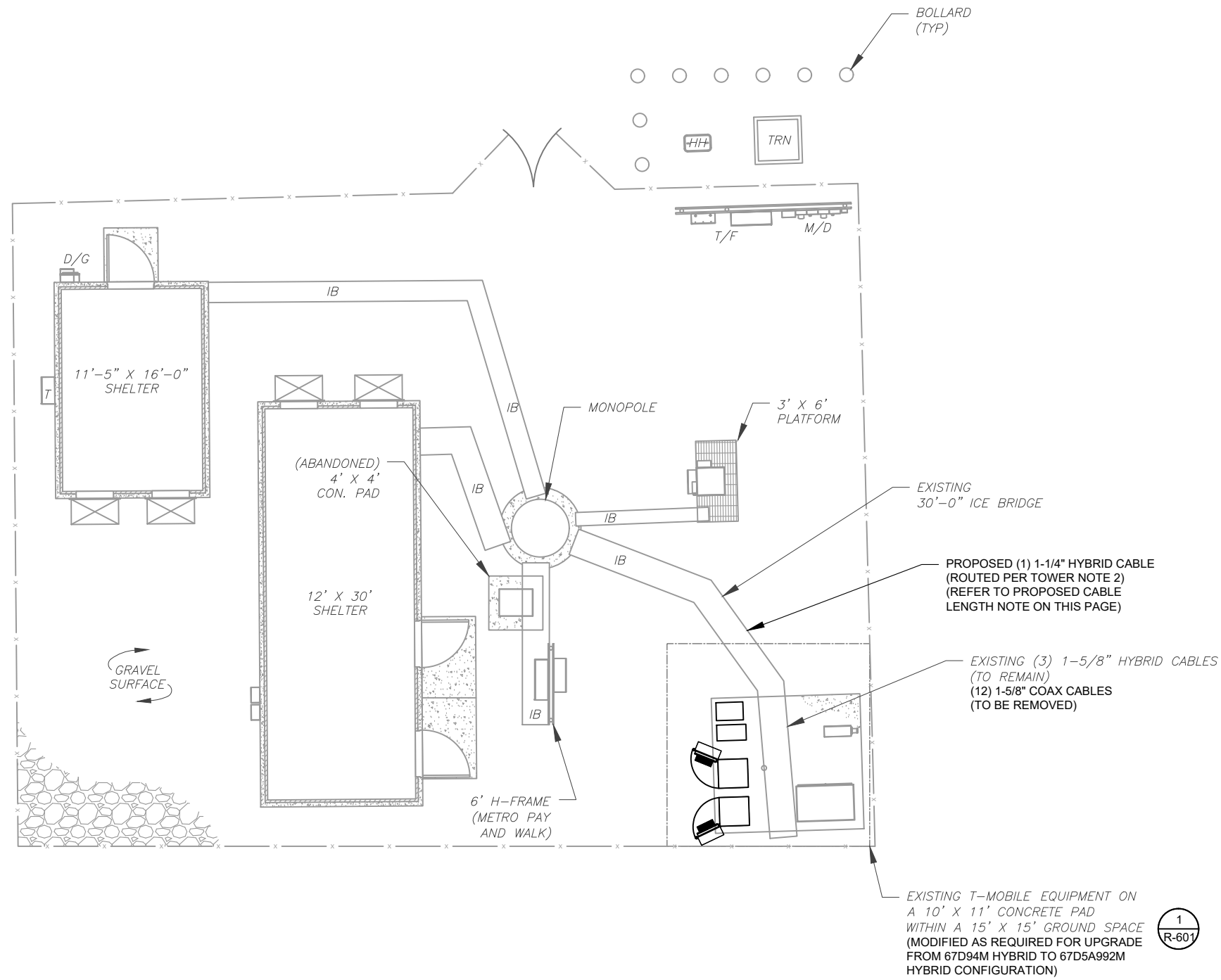
SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

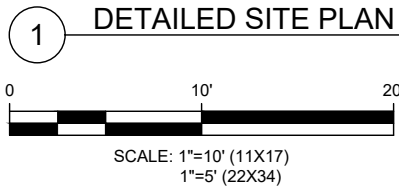
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE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

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR 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 **200'**. 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. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).




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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	CWB	07/10/20
1	UPDATED SPEC SHEETS	CWB	07/17/20
2	REVISED CABINETS & ANTS.	CWB	08/12/20
3	REVISED CABINETS	CWB	08/19/20

ATC SITE NUMBER:
243036
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 RT 162 CT
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 T-MOBILE SITE NAME:
FARM
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 WEST HAVEN, CT 06516



DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

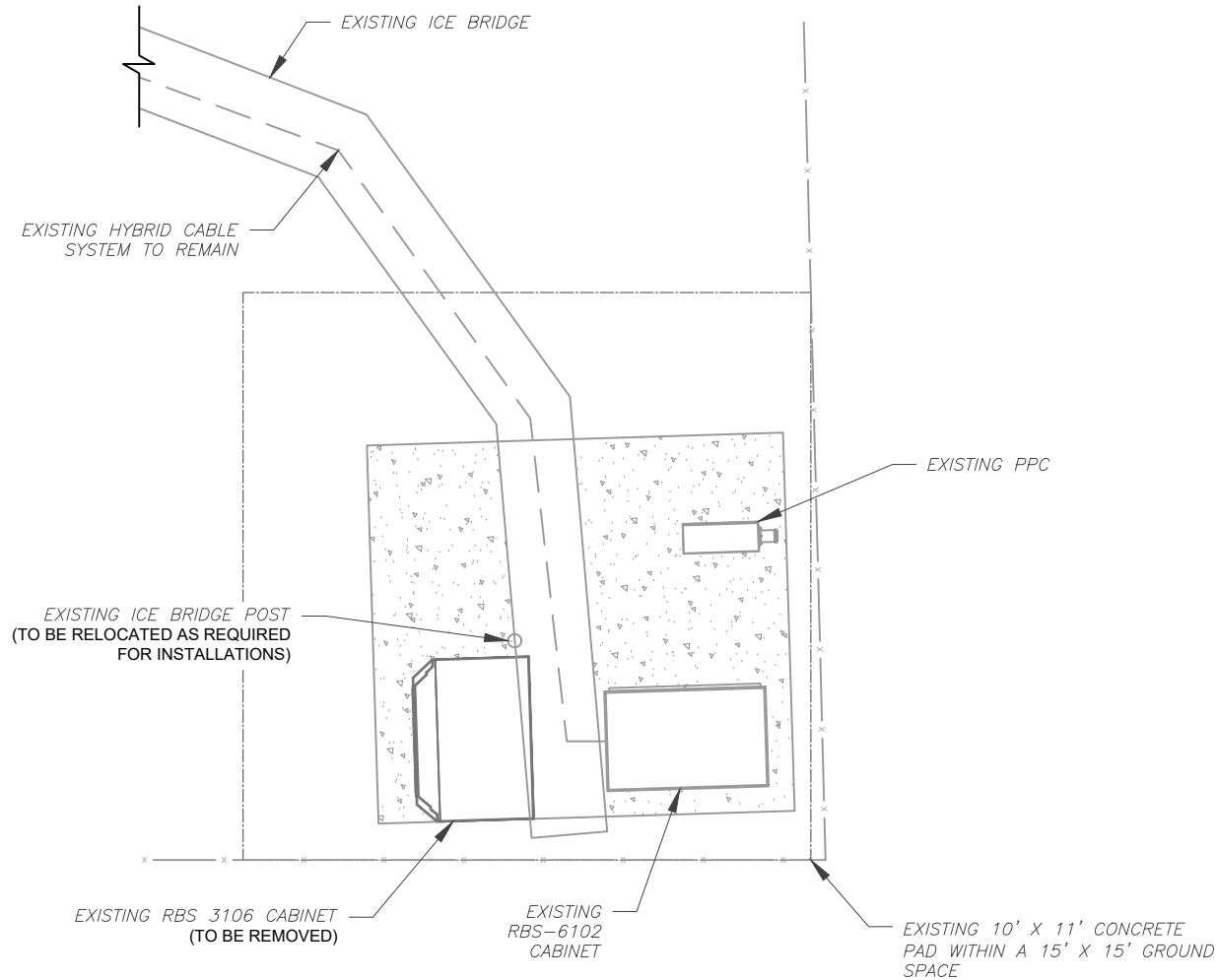
DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	3

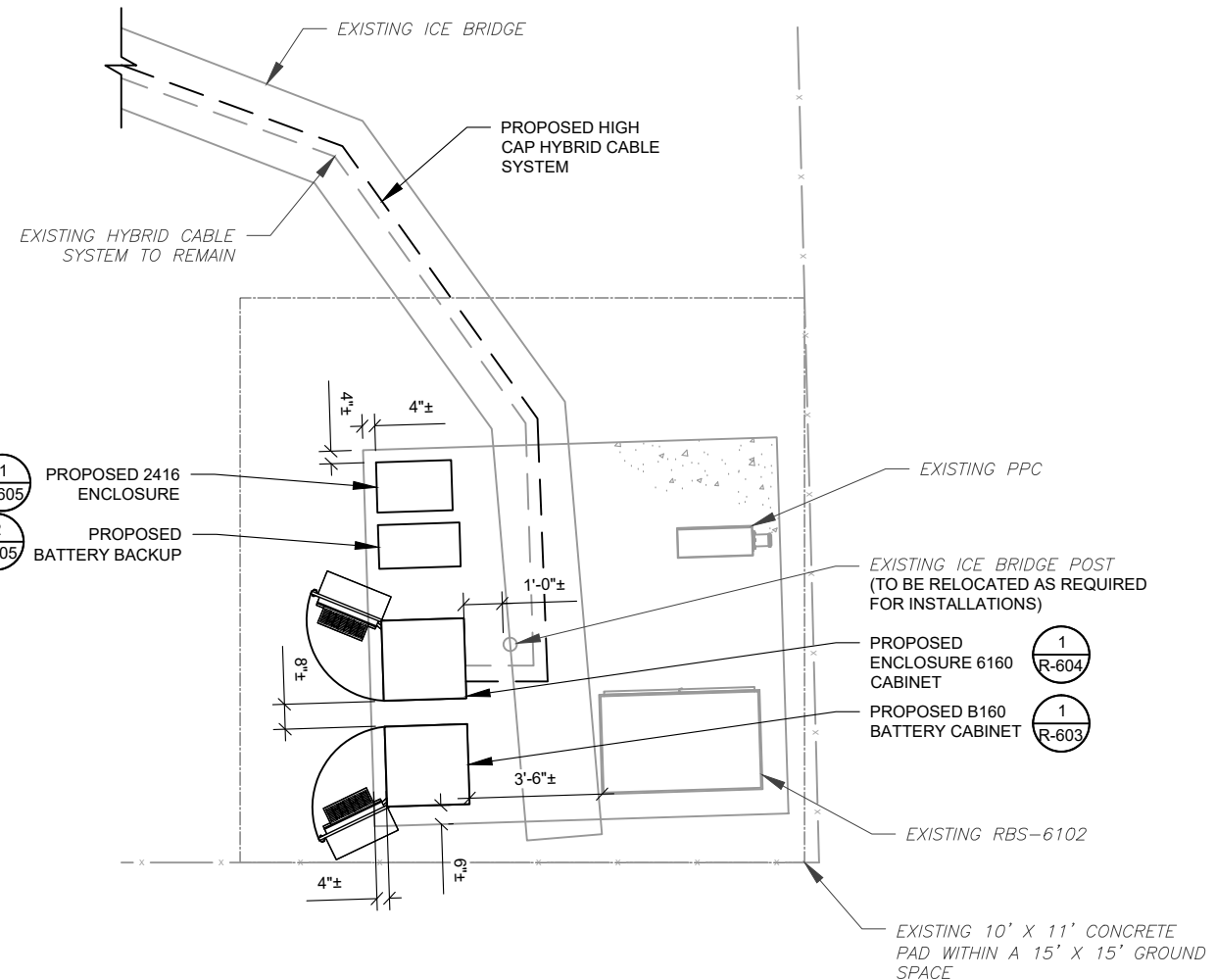
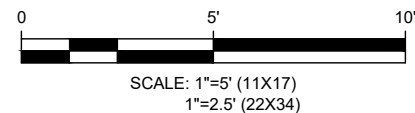
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SITE PLAN NOTES:

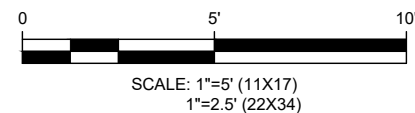
1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL 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.



1 EXISTING GROUND EQUIPMENT LAYOUT



2 PROPOSED GROUND EQUIPMENT LAYOUT



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243036
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 RT 162 CT
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 FARM**
 SITE ADDRESS:
 668 JONES HILL ROAD
 WEST HAVEN, CT 06516

SEAL:

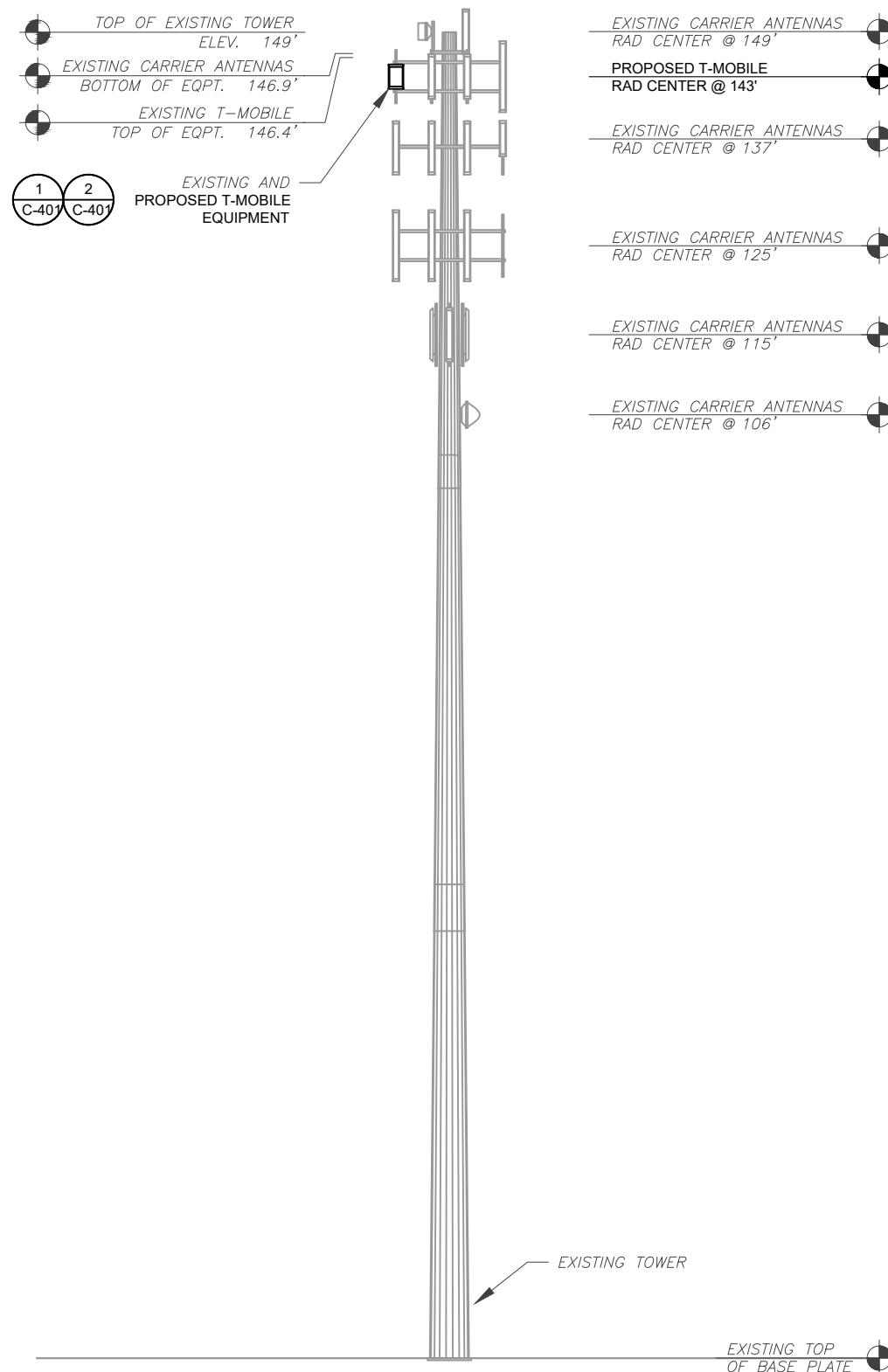


DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

**DETAILED GROUND
 PLAN**

SHEET NUMBER:	REVISION:
C-102	3

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PER MOUNT ANALYSIS COMPLETED BY TOWER ENGINEERING PROFESSIONALS, DATED 06/29/20, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

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.



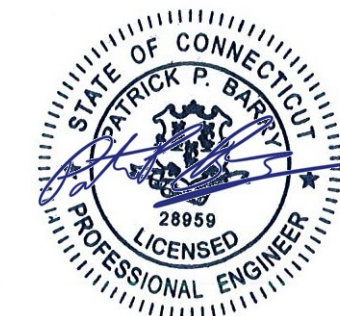
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243036
ATC SITE NAME:
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T-MOBILE SITE NAME:
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FARM**
SITE ADDRESS:
668 JONES HILL ROAD
WEST HAVEN, CT 06516

SEAL:



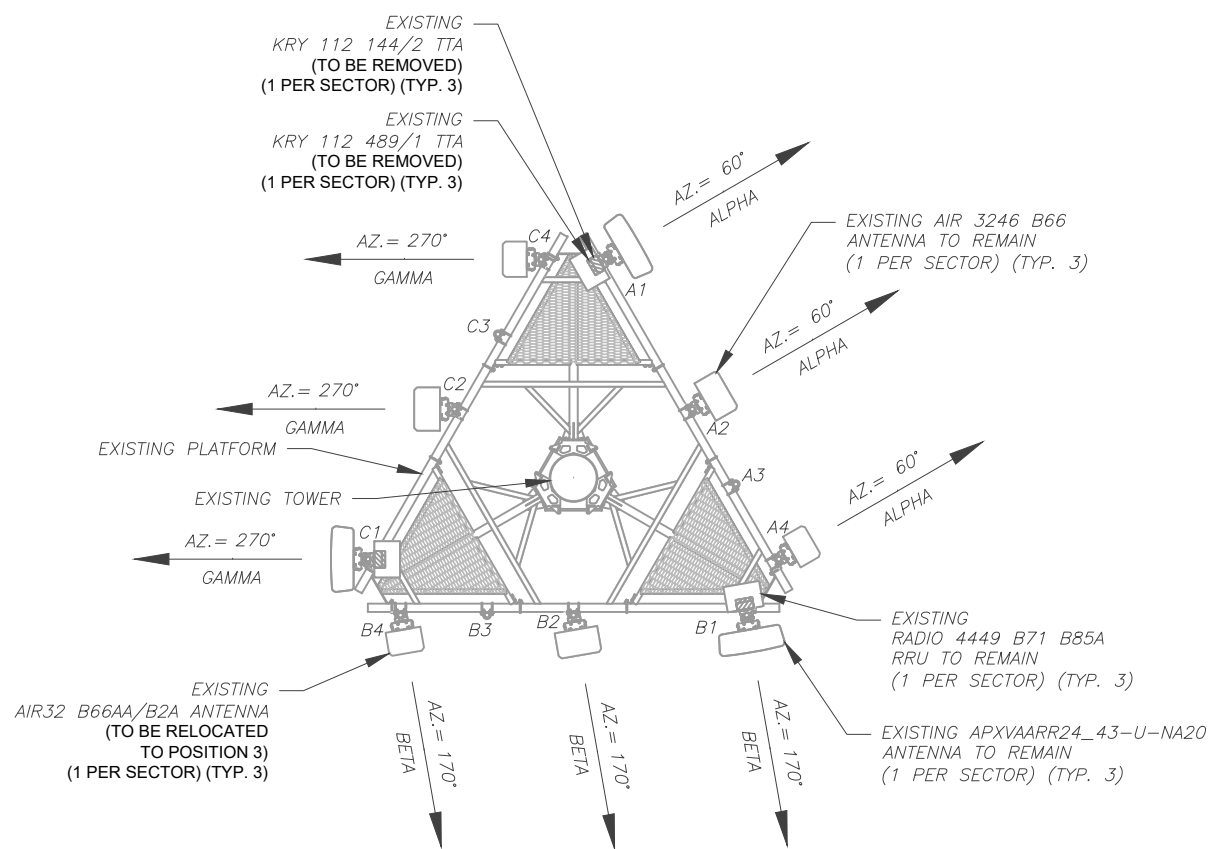
DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

TOWER ELEVATION

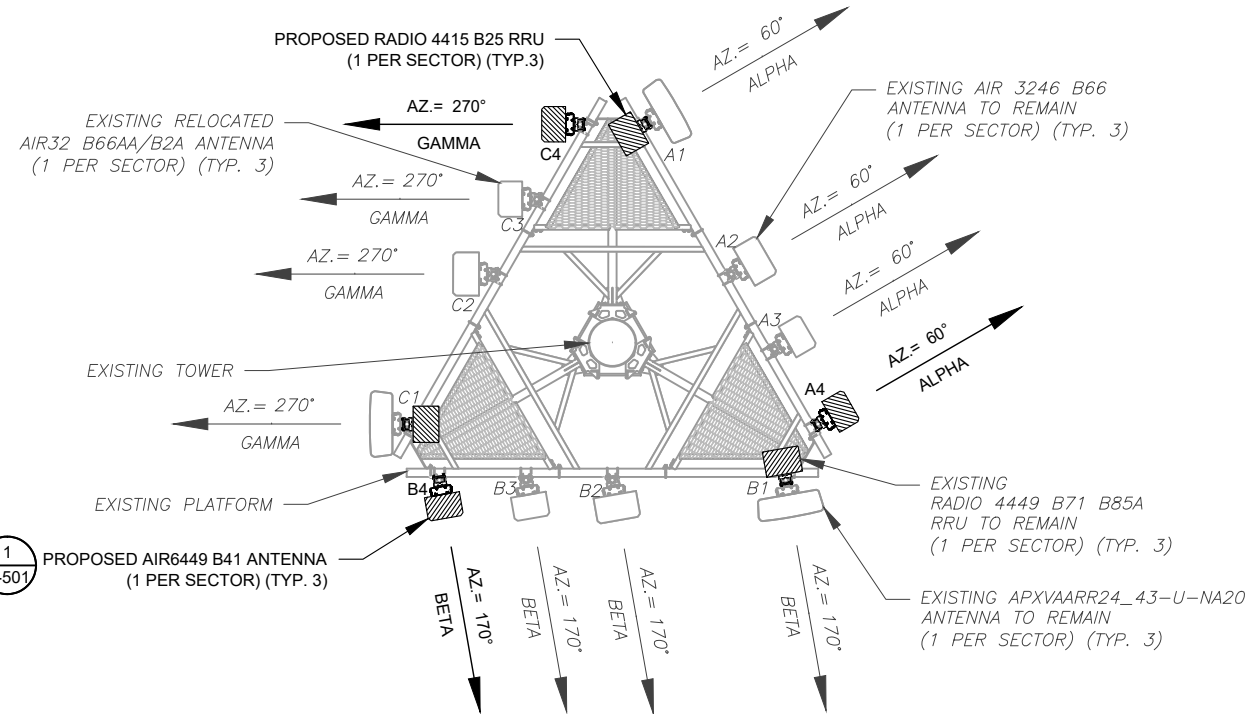
SHEET NUMBER:	REVISION:
C-201	2

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PER MOUNT ANALYSIS COMPLETED BY TOWER ENGINEERING PROFESSIONALS, DATED 06/29/20. THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



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



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

EXISTING ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY						NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	143'	60°	A1	APXVAARR24_43-U-NA20	L700/L600/N600/ U1900/G1900/ U2100	0°/2',4"	RMN	RADIO 4449 B71 B85A	RMN
								KRY 112 144/1	RMV
								KRY 112 489/2	RMV
			A2	AIR3246 B66	L2100	0°/2'	RMN	-	-
			A3	-	-	-	-	-	-
			A4	AIR32 B66AA/B2A	L1900	0°/2'	REL	-	-
BETA	143'	170°	B1	APXVAARR24_43-U-NA20	L700/L600/N600/ U1900/G1900/ U2100	0°/2',4"	RMN	RADIO 4449 B71 B85A	RMN
								KRY 112 144/1	RMV
								KRY 112 489/2	RMV
			B2	AIR3246 B66	L2100	0°/2'	RMN	-	-
			B3	-	-	-	-	-	-
			B4	AIR32 B66AA/B2A	L1900	0°/2'	REL	-	-
GAMMA	143'	270°	C1	APXVAARR24_43-U-NA20	L700/L600/N600/ U1900/G1900/ U2100	0°/2',4"	RMN	RADIO 4449 B71 B85A	RMN
								KRY 112 144/1	RMV
								KRY 112 489/2	RMV
			C2	AIR3246 B66	L2100	0°/2'	RMN	-	-
			C3	-	-	-	-	-	-
			C4	AIR32 B66AA/B2A	L1900	0°/2'	REL	-	-

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	143'	60°	A1	APXVAARR24_43-U-NA20	L700/L600/N600/ U1900/L1900	0°/2',4"	RMN	RADIO 4449 B71 B85A	RMN	
								RADIO 4415 B25	ADD	
			A2	AIR3246 B66	L2100	0°/2'	RMN	-	-	
			A3	AIR32 B66AA/B2A	L1900	0°/2'	RMN	-	-	
			A4	AIR6449 B41	L2500/N2500	0°	ADD	-	-	
BETA	143'	170°	B1	APXVAARR24_43-U-NA20	L700/L600/N600/ U1900/L1900	0°/2',4"	RMN	RADIO 4449 B71 B85A	RMN	
								RADIO 4415 B25	ADD	
			B2	AIR3246 B66	L2100	0°/2'	RMN	-	-	
			B3	AIR32 B66AA/B2A	L1900	0°/2'	RMN	-	-	
			B4	AIR6449 B41	L2500/N2500	0°	ADD	-	-	
GAMMA	143'	270°	C1	APXVAARR24_43-U-NA20	L700/L600/N600/ U1900/L1900	0°/2',4"	RMN	RADIO 4449 B71 B85A	RMN	
								RADIO 4415 B25	ADD	
			C2	AIR3246 B66	L2100	0°/2'	RMN	-	-	
			C3	AIR32 B66AA/B2A	L1900	0°/2'	RMN	-	-	
			C4	AIR6449 B41	L2500/N2500	0°	ADD	-	-	

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	(3) 1-5/8"	RMN
-	-	(12) 1-5/8"	-	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	(3) 1-5/8"	RMN
-	-	-	1-1/4"	ADD

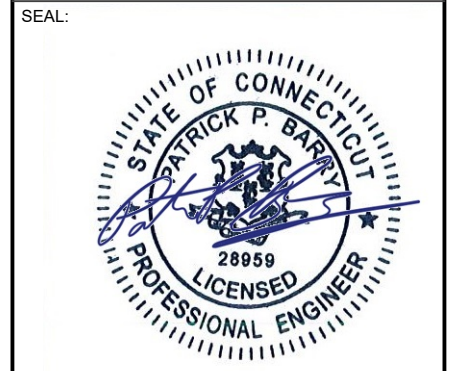


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FARM**
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668 JONES HILL ROAD
WEST HAVEN, CT 06516



DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER: C-401	REVISION: 2
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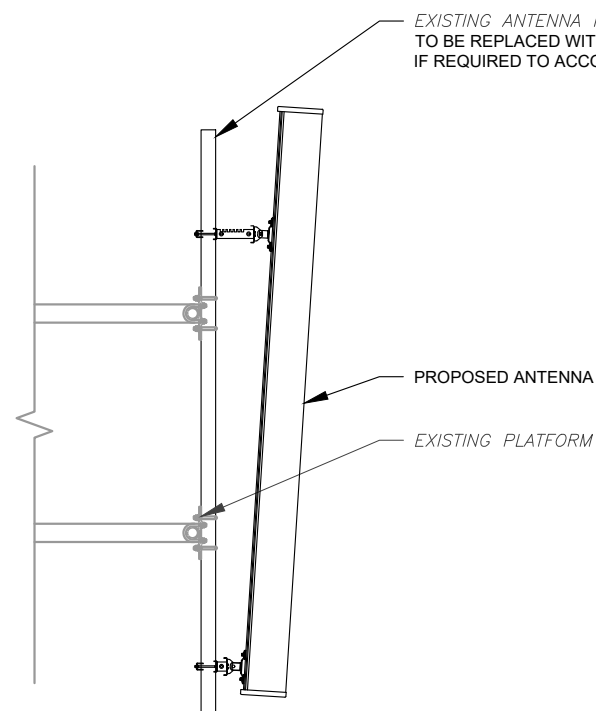


DATE DRAWN:	07/10/20
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CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

**CONSTRUCTION
 DETAILS**

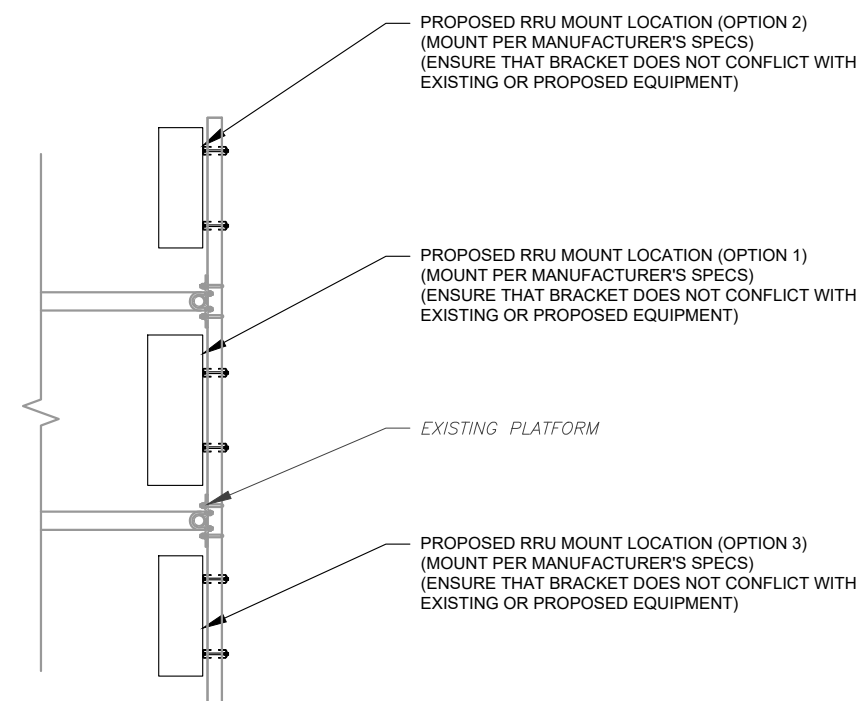
SHEET NUMBER:	REVISION:
C-501	2

EXISTING ANTENNA MOUNTING PIPE
 TO BE REPLACED WITH PROPOSED 2-3/8" O.D. X 96" LONG
 IF REQUIRED TO ACCOMMODATE PROPOSED MOUNTING BRACKET



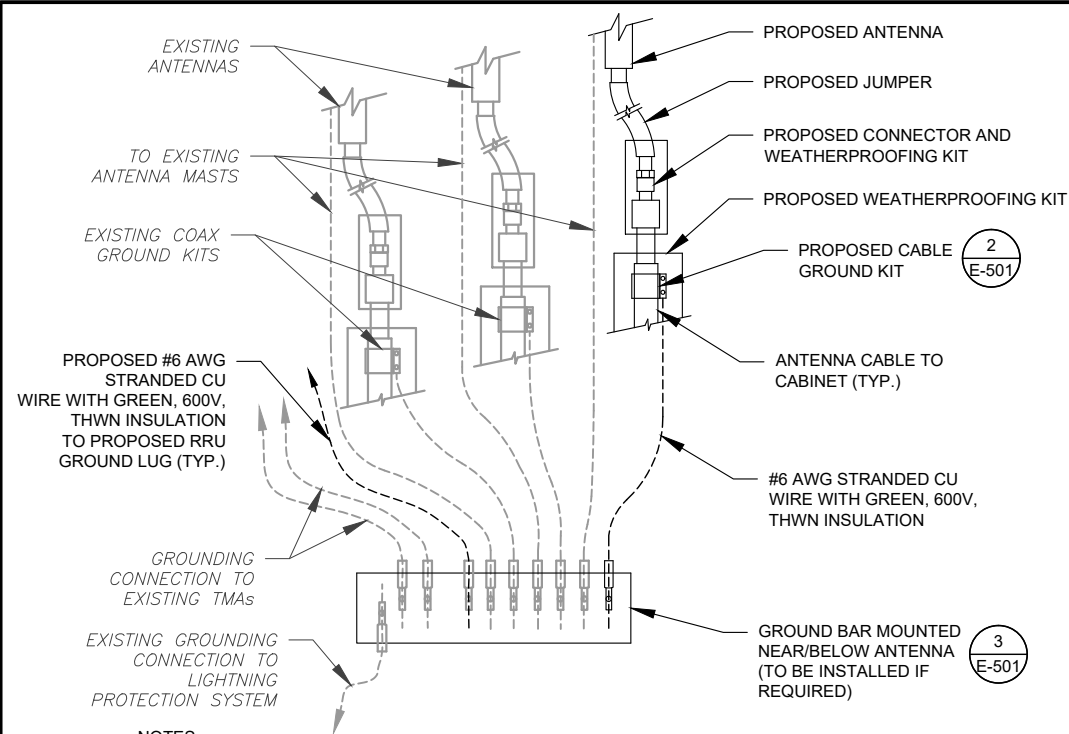
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.

PROPOSED RRU MOUNT LOCATION (OPTION 2)
 (MOUNT PER MANUFACTURER'S SPECS)
 (ENSURE THAT BRACKET DOES NOT CONFLICT WITH
 EXISTING OR PROPOSED EQUIPMENT)



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

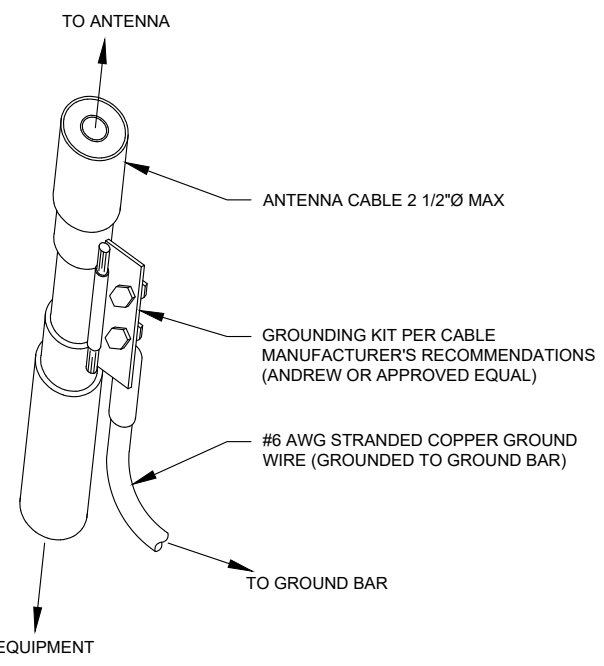
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NOTES:

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.

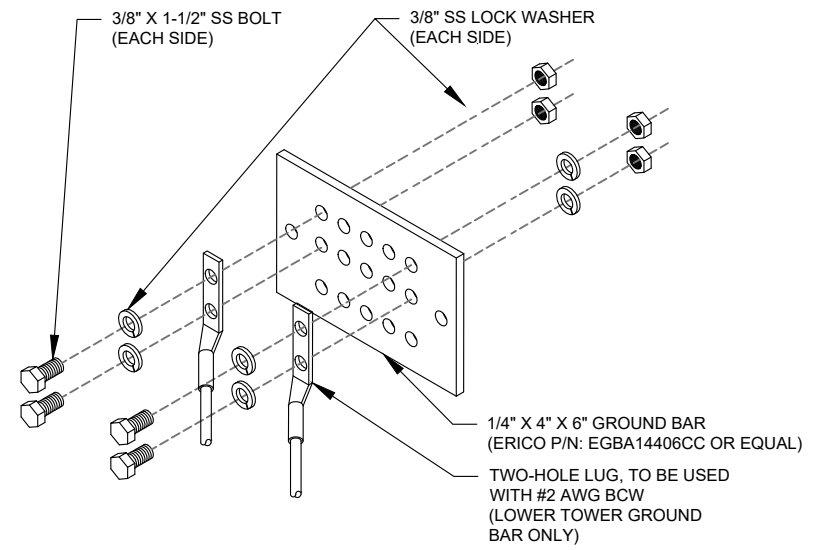
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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:

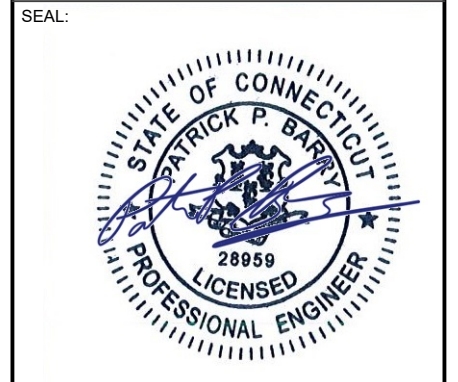
OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"

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	CWB	07/10/20
2	REVISED CABINETS & ANTS.	CWB	08/12/20

ATC SITE NUMBER:
243036
 ATC SITE NAME:
**WEST HAVEN &
 RT 162 CT
 CT821/D&B FLOWER
 FARM**
 T-MOBILE SITE NAME:
 CT821/D&B FLOWER FARM
 SITE ADDRESS:
 668 JONES HILL ROAD
 WEST HAVEN, CT 06516



DATE DRAWN:	07/10/20
ATC JOB NO:	13251342_D1
CUSTOMER ID:	CT821/D&B FLOWER FARM
CUSTOMER #:	CT11821E

GROUNDING DETAILS

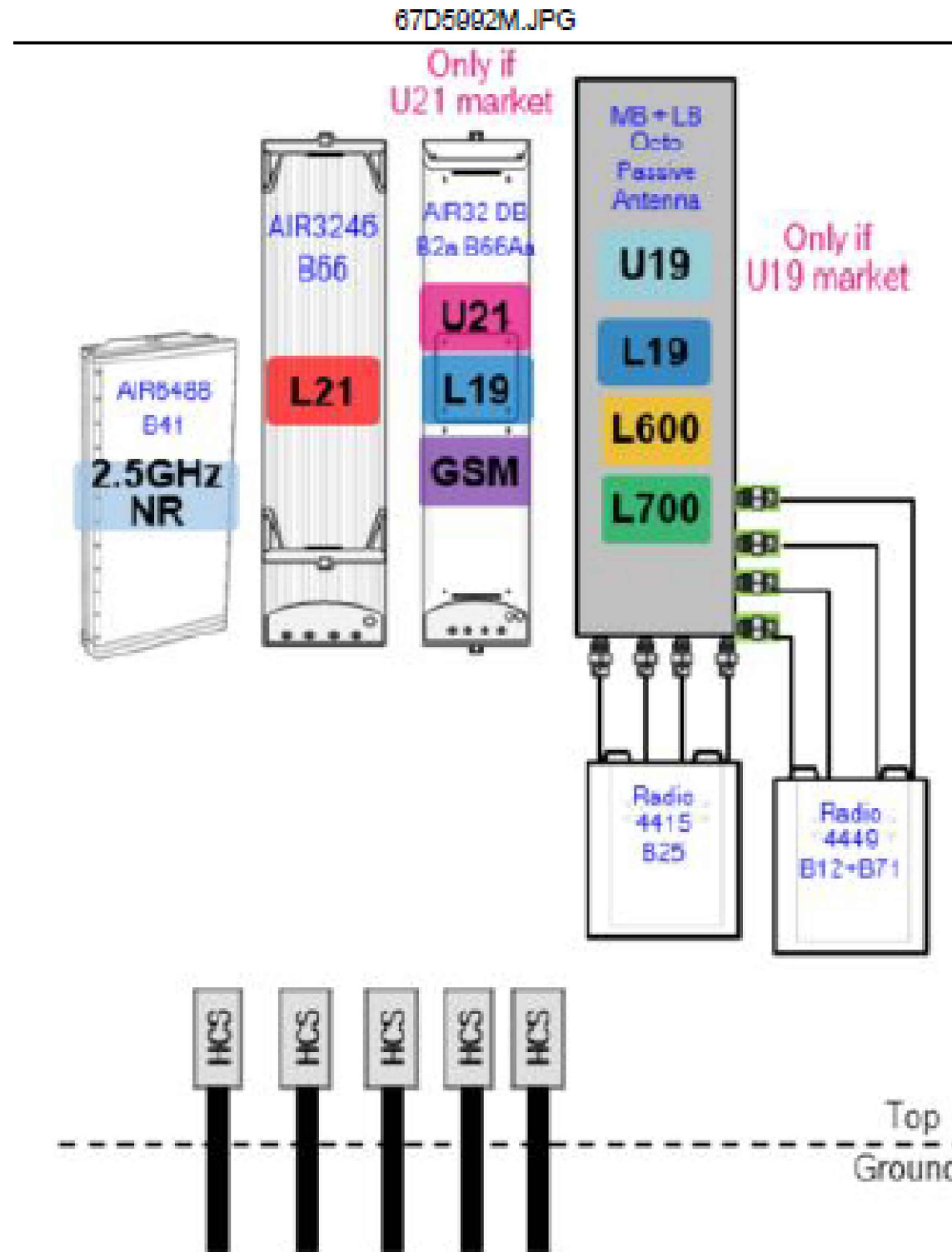
SHEET NUMBER: E-501	REVISION: 2
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Existing RAN Equipment			
Template: 67D94M Hybrid (Evolved from 4A)			
Enclosure	1	2	3
Enclosure Type	RBS 6102	RBS 6131	Ancillary Equipment (Ericsson)
Baseband	DUW30 U1900 DUG20 G1900 BB 6630 L700 BB 6630 L2100 L600 BB 6630 L1900 BB 6630 N600 DUW30 U2100		
Hybrid Cable System			Ericsson 6x12 HCS *Select Length & AWG* (x 3)
Radio	RUS01 B2 (x 3) G1900 RUS01 B2 (x 3) U1900 RUS01 B4 (x 6) U2100		

Proposed RAN Equipment				
Template: 67D5A992M Hybrid				
Enclosure	1	2	3	4
Enclosure Type	RBS 6102	Ancillary Equipment (Ericsson)	Enclosure 6160	B160
Baseband	DUW30 U1900 DUG20 G1900 BB 6630 L1900 BB 6630 L700 BB 6630 L600 BB 6630 L2100 BB 6630 N600 DUW30 U2100		BB 6630 (x 3) L2500 BB 6648 N2500	
Hybrid Cable System		Ericsson 6x12 HCS *Select Length & AWG* (x 3)	Ericsson 6x12 HCS *Select AWG & Length*	
Radio	RUS01 B2 (x 6) RUS01 B4 (x 6)			

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE




2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

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SUPPLEMENTAL

SHEET NUMBER: R-601
REVISION: 0

PRODUCT DESCRIPTION

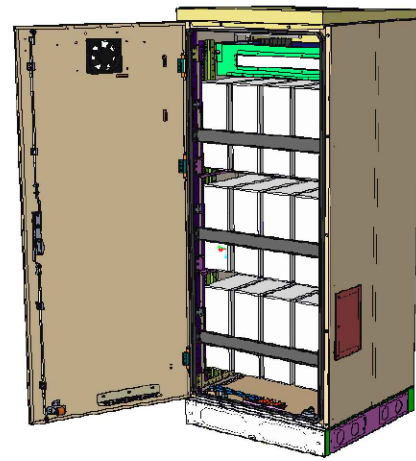
Frequency Range	LTE TDD B41: 2496 – 2690 MHz	
Instantaneous BW	DL 194 MHz	
Antenna Ports	64T64R	
Technology	NR, LTE and NR+LTE MSMM	
Antenna Elements	192	
Output RF Power	300 W (=64 TRX x 4.6875W)	
Data Ports	4 x 25Gb/s CPRI	
5G NR Support	YES	
DC Feed	-48V DC power connector	
Cooling	Passive cooling (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	

RRUS 4415 B25

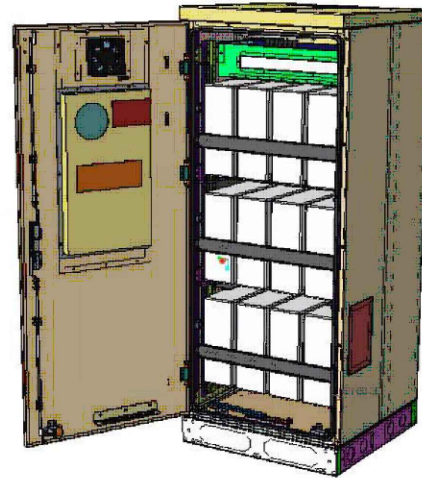
- › B25
 - TX = 1930 – 1995 MHz
 - RX = 1850 – 1915 MHz
- › CPRI 2 ports x 2.5/4.9/9.8/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during initial install.
- › Only use Ericsson supplied and approved SFPs RDH10265/25
 - Exception: SFP7 RDH 10265/3 for CPRI 1.4km to 10km
 - Exception: 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)



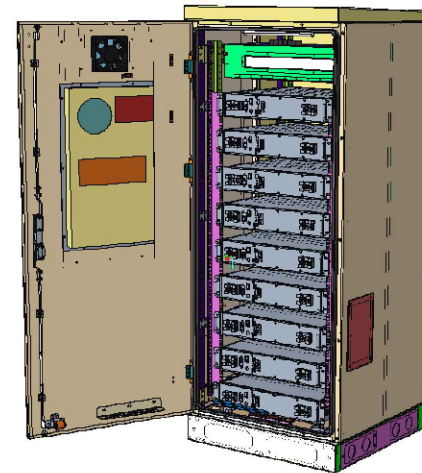
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

PA1 | 2019-02-03 | Ericsson Confidential | Page 1

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

PA1 | 2019-02-03 | Ericsson Confidential | Page 2

SUPPLEMENTAL

SHEET NUMBER:

R-603

REVISION:

0

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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-604

REVISION:

0

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Technical Specifications

PHYSICAL CHARACTERISTICS	NXC2410 AND NXC2416	NXC3816
Enclosure Dimensions (H x W x D)	24" x 24" x 10" (NXC2410) 24" x 24" x 16" (NXC2416)	38" x 24" x 16"
Rack Options and Dimensions	19" W, (10) x 1.75" RU (standard) 19" W, (6) x 1.75" RU (optional, used with battery tray)	19" W, (18) x 1.75" RU (standard) 19" W, (10) x 1.75" RU (optional, used with battery tray) 23" W, (10) x 1.75" RU vertical mount
Backboard Options and Dimensions	Full height, .625" thick, plywood backboard 20" W x 20" H Half height, .625" thick, plywood backboard 20" W x 12" H	Full height, .625" thick, plywood backboard 20" W x 32" H Half height, .625" thick, plywood backboard 20" W x 22" H
Battery Tray Options and Dimensions	22" W x 7" D battery tray assy 22" W x 13" D battery tray assy (NXC2416 only)	22" W x 7" D battery tray assy 22" W x 13" D battery tray assy
Weight	35 lbs. (NXC2410) 45 lbs. (NXC2416)	55 lbs. (NXC3816)
Color	Off white	

* All battery trays can be equipped with an optional 120VAC battery heater pad

ELECTRICAL	
Duplex Convenience Receptacle	120 VAC, GFI protected (optional)
Duplex Receptacle	120 VAC, equipment (optional)
Load Center	4 position, 30 amp, 120/240 VAC (optional)
DIN Rail Mounted Load Center	2 position, 30 amp, 120/240 VAC (optional)

CABLE ENTRANCE	
Cable Entry	(3) 1.375" cable entry ports
Ground Cable Entry	(1) 1.375" cable entry port
AC Entry	(1) 1.375" conduit entry port
Miscellaneous Cable Entry	(2) .625" cable entry port

SECURITY	
Equipment Chamber Front Door	(2) 1/2 turn latch, padlockable Optional door actuators include hex/pin and 7/16" hex nut styles
Alarm Options	High temperature alarm 49°C (122°F) Low temperature alarm 5°C (40°F) Front door intrusion alarm

ENVIRONMENTAL	
Operating Temperature	-40°C to +46°C (-40°F to +115°F)
Humidity	0 to 95% non-condensing
Elevation	0 to 10,000 ft.
Cooling	Free air, convection cooled with sealed or vented side plates (optional) 24 VDC, 48 VDC, 500 watt fan cooled (optional) 24 VDC, 48 VDC, 500 watt heat exchanger (optional)
Safety Compliance	UL Listed, cUL, GR-487 (as applicable)



Vertiv™ XTE 401 Series, 2410 Enclosure



Vertiv™ XTE 401 Series, 2416 Enclosure



Vertiv™ XTE 401 Series, 3816 Enclosure

Specifications

Maximum Battery Size	190Ah
Maximum Number of Batteries	4
Internal Circuit Breaker Rating (Optional)	200 Amperes Max
Input Circuit Breaker Rating	200 Amperes Max
Input Connections	1/4" inch 2 hole 5/8 inch Spacing
Expansion	Modular / Stringable
Temp Control	Direct Contact Heater Mat Convection Cooled
Local Safety Ground Connection	1/4" inch 2 hole 5/8 inch Spacing
Enclosure Rating	Outdoor
Access Restriction	Front Hatch 5/32 Allen
Dimensions	Body
Height	32.245"
Width	14.040"
Depth	26.305"
Unit Weight / Shipping Weight	60 lbs / 65 lbs
Paint	Almond Powder Coat
Construction	Aluminum



1 2416 ENCLOSURE
SCALE: N.T.S.

2 BATTERY CABINET
SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

0

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Exhibit D

Structural Analysis Report



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 149 ft Monopole
ATC Site Name : WEST HAVEN & RT 162 CT, CT
ATC Asset Number : 243036
Engineering Number : 13251342_C3_02
Proposed Carrier : T-MOBILE
Carrier Site Name : CT821/D&B Flower Farm
Carrier Site Number : CT11821E
Site Location : 668 Jones Hill Road
West Haven, CT 06516-6311
41.256400, -72.972400
County : New Haven
Date : June 23, 2020
Max Usage : 100%
Result : Pass



Prepared By:
Kyle MacPetrie
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.....	2
Proposed Equipment	2
Structure Usages	3
Foundations	3
Deflection and Sway	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 149 ft monopole to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	Sabre Job #06-08204, dated August 19, 2005
Foundation Drawing	Sabre Job #06-10095, dated October 12, 2005
Geotechnical Report	EBI Project #61051509, dated July 12, 2005

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:	120 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.20$, $S_1 = 0.05$
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
151.0	3	Alcatel-Lucent 1900 MHz 4X45 RRH	SitePro 1 RMQP-3XX Low Profile Platform	(3) 1 1/4" Hybriflex Cable (1) 1.7" (43.2mm) Hybrid (4) 1/2" Coax (1) 2" conduit	CLEARWIRE CORPORATION
	2	DragonWave A-ANT-11G-2-C			
	3	RFS APXVFR12X-C-I20			
	3	DragonWave Horizon Compact			
	3	Nokia 2.5G MAA - AAHC(64T64R)			
	6	Alcatel-Lucent RRH2x50-08			
	1	DragonWave A-ANT-23G-1-C			
143.0	3	Ericsson AIR32 B66Aa/B2a	Platform with SitePro1 HRK12-3HD Handrail Kit	(3) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax	T-MOBILE
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson Air 3246 B66			
134.0	6	JMA Wireless MX06FRO660-02	Low Profile Platform	(1) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax	VERIZON WIRELESS
	1	RFS DB-T1-6Z-8AB-0Z			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	3	Andrew DB854DG65ESX			
125.0	1	Raycap DC6-48-60-0-8F	Platform with Handrails	(2) 0.39" (10mm) Fiber Trunk (2) 0.39" (9.8mm) Cable (6) 0.78" (19.7mm) 8 AWG 6 (3) 3" conduit	AT&T MOBILITY
	2	Raycap DC6-48-60-0-8F (24" Height)			
	3	Ericsson Radio 4415 B30			
	3	Ericsson 8843 Rev 2			
	3	Ericsson RRUS 4449 B5, B12			
	1	Commscope WCS-IMFQ-AMT			
	6	Kathrein Scala 80010966			
	3	CCI CCI-HPA-65R-BUU-H8			
115.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	METRO PCS INC
106.0	1	Proxim 5054-R-LR	Side Arm	(1) 0.28" (7mm) RG-6	OTHER
	1	Generic 3' Dish w/ Radome			

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
143.0	3	Ericsson KRY 112 144/2	-	-	T-MOBILE
	3	Ericsson Radio 4449 B12,B71			
	3	Ericsson KRY 112 489/1			

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
143.0	3	Ericsson Radio 4449 B71 B85A	Platform with SitePro1 HRK12-3HD Handrail Kit	(1) 1 1/4" (1.25"-31.8mm) Fiber	T-MOBILE
	3	Ericsson RRUS 4415 B25			
	3	Ericsson Air6449 B41			

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	63%	Pass
Shaft	100%	Pass
Base Plate	49%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	2,840.0	3,834.0	2,955.0	77%
Shear (Kips)	26.3	35.5	25.4	72%

* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
149.0	DragonWave A-ANT-23G-1-C	CLEARWIRE CORPORATION	2.215	1.724
	DragonWave A-ANT-11G-2-C			
143.0	Ericsson Radio 4449 B71 B85A	T-MOBILE	2.035	1.715
	Ericsson RRUS 4415 B25			
	Ericsson Air6449 B41			
106.0	Generic 3' Dish w/ Radome	Other	1.043	1.242

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



Standard Conditions

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

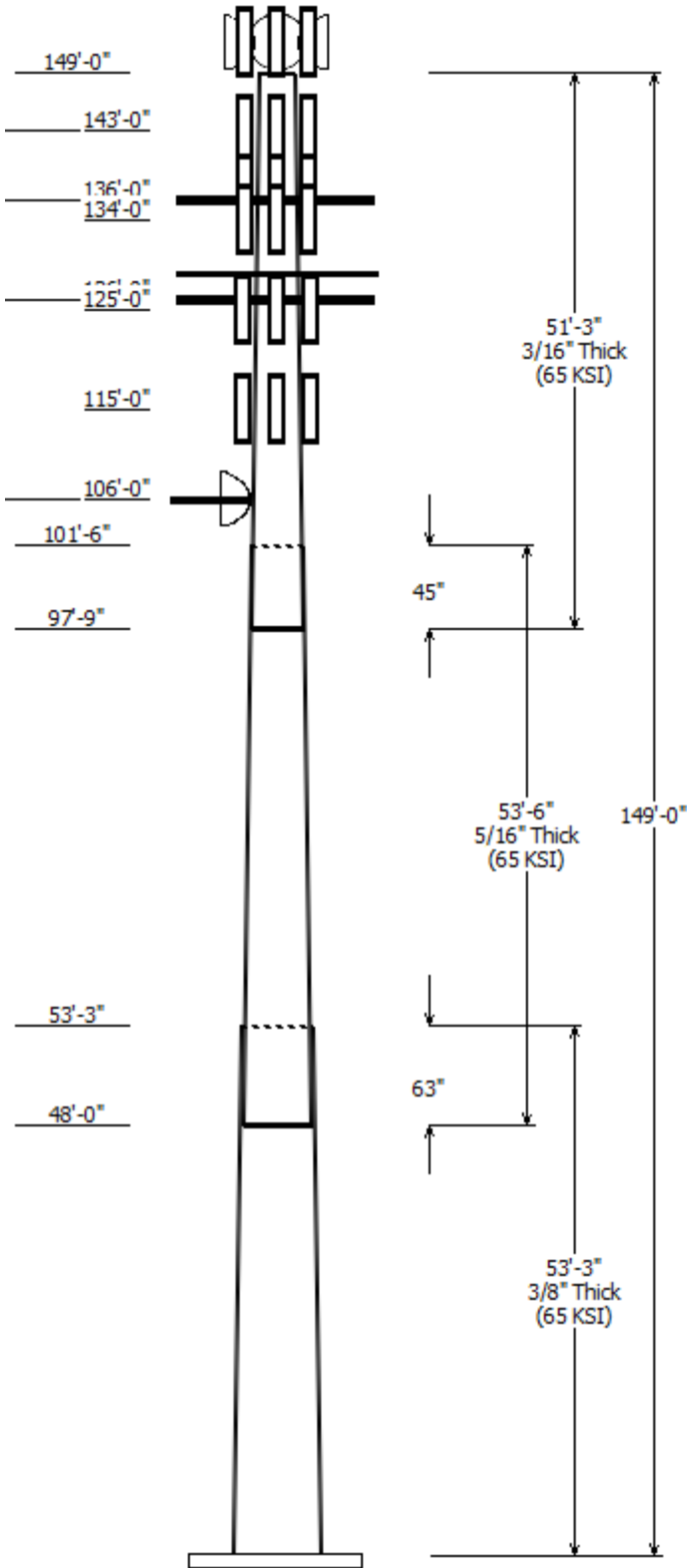
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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

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

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

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

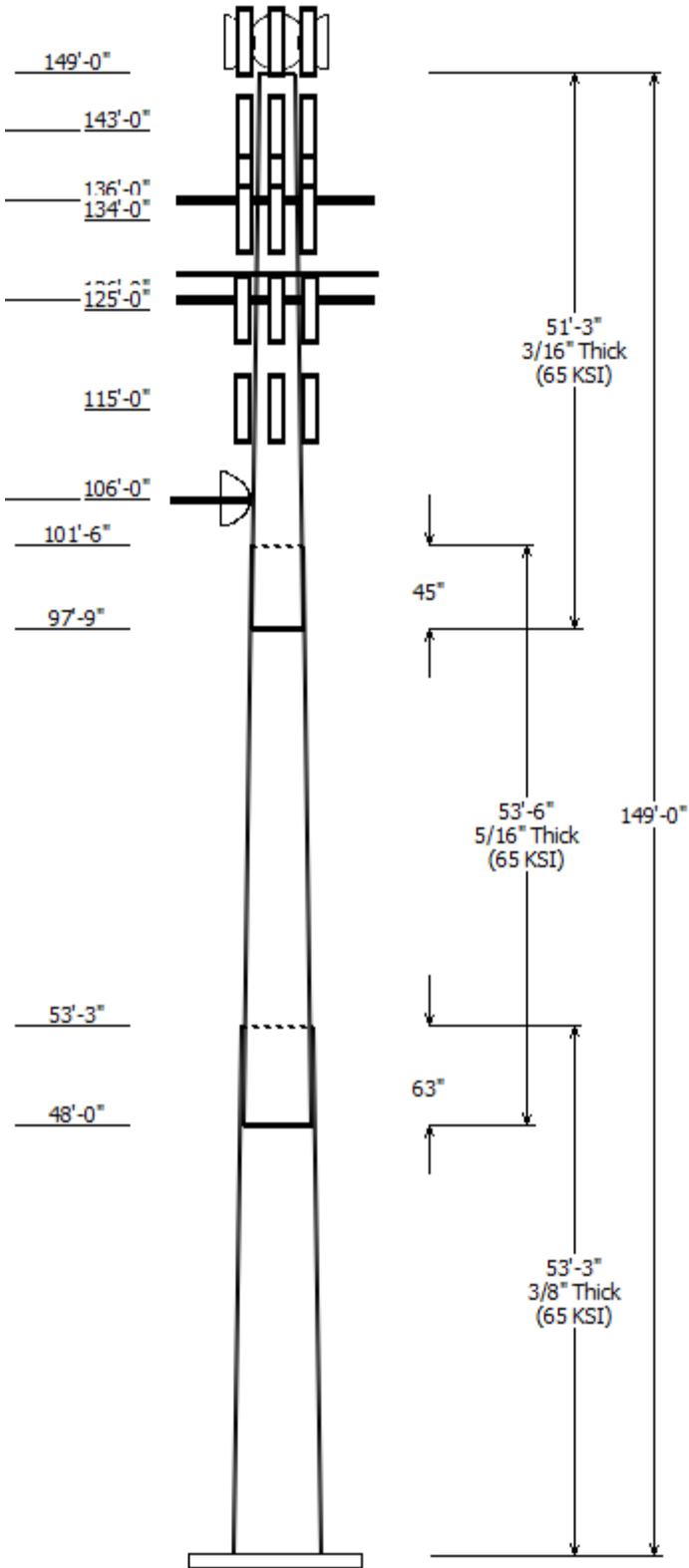


Job Information	
Client : T-MOBILE	Code: ANSI/TIA-222-H
Pole : 243036	
Location : WEST HAVEN & RT 162 CT, CT	
Description : Tower Model Verified: 12/3/2011	Risk Category : II
Shape : 18 Sides	Exposure : B
Height : 149.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.234964(in/ft)	

Sections Properties						
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Steel Grade
		Across Flats Top	Across Flats Bottom			
1	53.250	39.49	52.01	0.375	0.000	18 Sides 65
2	53.500	28.78	41.35	0.313	63.000	18 Sides 65
3	51.250	18.00	30.04	0.188	45.000	18 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
149.000	151.000	3	RFS APXVFRR12X-C-I20
149.000	151.000	2	DragonWave A-ANT-11G-2-C
149.000	151.000	3	Nokia 2.5G MAA -
149.000	151.000	3	Alcatel-Lucent 1900 MHz 4X45
149.000	151.000	6	Alcatel-Lucent RRH2x50-08
149.000	151.000	1	DragonWave A-ANT-23G-1-C
149.000	151.000	3	DragonWave Horizon Compact
149.000	149.000	1	SitePro1 RMQP-3XX Low
143.000	143.000	1	Platform with SitePro1 HRK12-
143.000	143.000	3	RFS APXVAARR24_43-U-NA20
143.000	143.000	3	Ericsson Air 3246 B66
143.000	143.000	3	Ericsson AIR32 B66Aa/B2a
143.000	143.000	3	Ericsson Air6449 B41
143.000	143.000	3	Ericsson RRUS 4415 B25
143.000	143.000	3	Ericsson Radio 4449 B71 B85A
136.000	136.000	1	Round Low Profile Platform
134.000	134.000	6	JMA Wireless MX06FRO660-02
134.000	137.000	3	Andrew DB854DG65ESX
134.000	136.000	1	RFS DB-T1-6Z-8AB-0Z
134.000	134.000	3	Samsung B5/B13 RRH-BR04C
134.000	134.000	3	Samsung B2/B66A RRH-BR049
126.000	126.000	1	Round Platform w/ Handrails
125.000	125.000	6	Kathrein Scala 80010966
125.000	125.000	3	CCI CCI-HPA-65R-BUU-H8
125.000	125.000	3	Ericsson RRUS 4449 B5, B12
125.000	125.000	3	Ericsson 8843 Rev 2
125.000	125.000	3	Ericsson Radio 4415 B30
125.000	125.000	2	Raycap DC6-48-60-0-8F (24" Hei
125.000	125.000	1	Raycap DC6-48-60-0-8F
125.000	125.000	1	Commscope WCS-IMFQ-AMT
115.000	115.000	3	RFS APXV18-206517S-C
106.000	106.000	1	Flat Side Arm
106.000	106.000	1	Generic 3' Dish w/ Radome
106.000	106.000	1	Proxim 5054-R-LR

Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
4.000	106.0	0.28" (7mm) RG-6	No
4.000	115.0	1 5/8" Coax	No
4.000	125.0	0.39" (10mm)	No
4.000	125.0	0.39" (9.8mm)	No



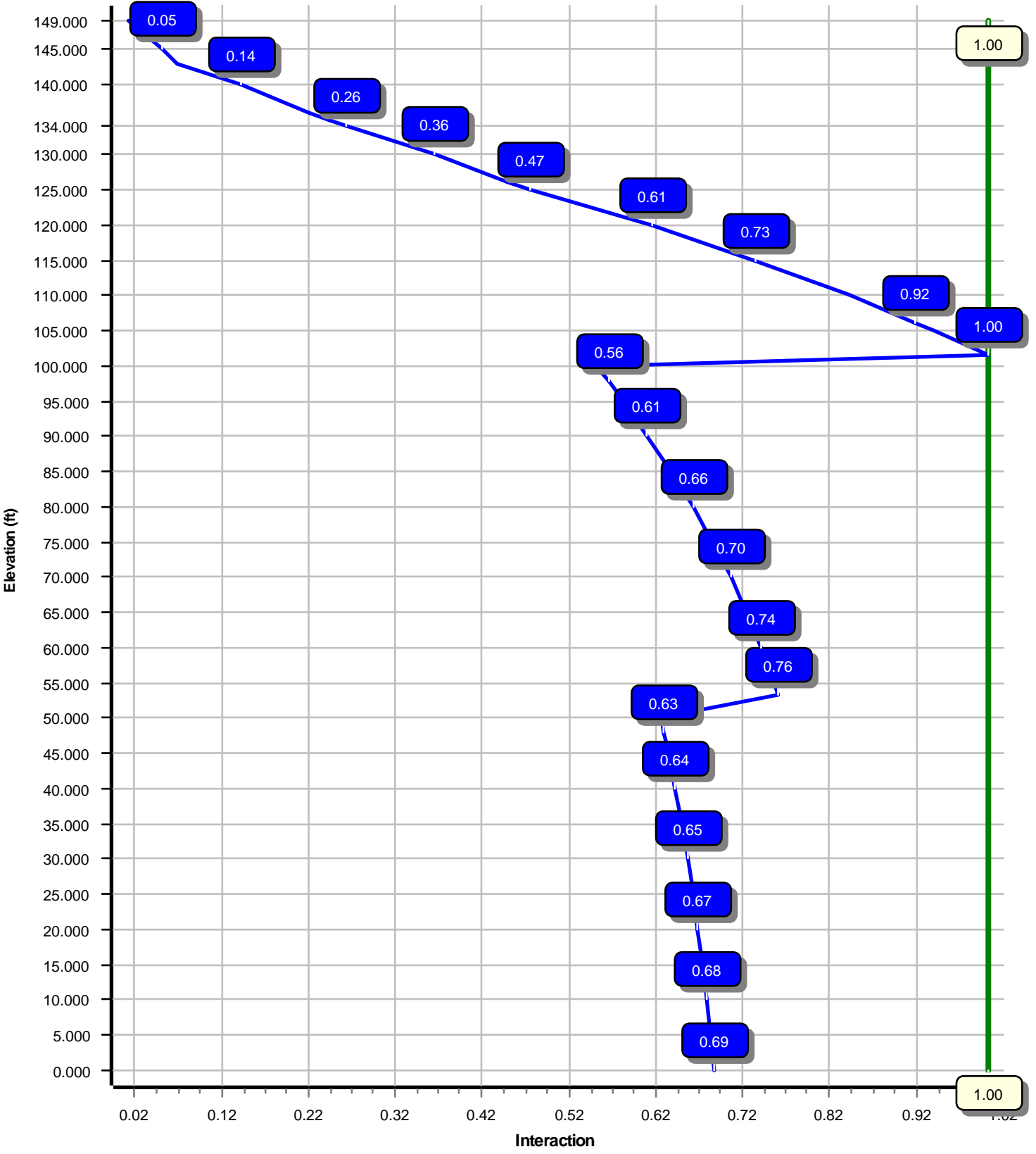
4.000	125.0	0.78" (19.7mm) 8	No
4.000	125.0	0.78" (19.7mm) 8	No
4.000	125.0	3" conduit	No
4.000	125.0	3" conduit	No
4.000	134.0	1 5/8" (1.63"-	No
4.000	134.0	1 5/8" Coax	No
4.000	143.0	1 5/8" Coax	No
4.000	148.0	1/2" Coax	No
4.000	151.0	1.7" (43.2mm)	No
4.000	151.0	1/2" Coax	No
0.000	151.0	1 1/4" Hybriflex	No
0.000	148.0	2" conduit	No
0.000	143.0	1 1/4" (1.25"-	No
0.000	143.0	1 5/8" (1.63"-	No

Load Cases	
1.2D + 1.0W	120 mph with No Ice
0.9D + 1.0W	120 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	2955.05	25.40	48.75
0.9D + 1.0W	2899.95	25.38	36.55
1.2D + 1.0Di + 1.0Wi	768.80	6.55	67.87
1.2D + 1.0Ev + 1.0Eh	162.83	1.22	49.10
0.9D - 1.0Ev + 1.0Eh	158.91	1.22	33.87
1.0D + 1.0W	654.16	5.68	40.66

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	106.00	12.518	1.242
1.0D + 1.0W	149.00	26.579	1.724
1.0D + 1.0W	149.00	26.579	1.724

Load Case : 1.2D + 1.0W
Max Ratio 99.98% at 101.5 ft



Site Number: 243036

Code: ANSI/TIA-222-H

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Site Name: WEST HAVEN & RT 162 CT, CT Engineering Number: 13251342_C3_02

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Customer: T-MOBILE

Analysis Parameters

Location :	New Haven County, CT	Height (ft) :	149
Code :	ANSI/TIA-222-H	Base Diameter (in) :	52.01
Shape :	18 Sides	Top Diameter (in) :	18.00
Pole Type :	Taper	Taper (in/ft) :	0.235
Pole Manufacturer :	Sabre	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	1.00

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	120 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	138.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	3.01		
T_L (sec):	6	p :	1
S_s :	0.200	S_1 :	0.053
F_a :	1.600	F_v :	2.400
S_{ds} :	0.213	S_{d1} :	0.085
		C_s :	0.030
		C_s Max:	0.030
		C_s Min:	0.030

Load Cases

1.2D + 1.0W	120 mph with No Ice
0.9D + 1.0W	120 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 243036

Code: ANSI/TIA-222-H

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Site Name: WEST HAVEN & RT 162 CT, CT Engineering Number: 13251342_C3_02

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Customer: T-MOBILE

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	53.250	0.3750	65		0.00	9,787	52.01	0.00	61.46	20701.4	22.69	138.69	39.49	53.25	46.56	9004.7	16.81	105.33	0.234964
2-18	53.500	0.3125	65	Slip	63.00	6,276	41.35	48.00	40.71	8664.4	21.57	132.34	28.78	101.50	28.24	2892.7	14.48	92.11	0.234964
3-18	51.250	0.1875	65	Slip	45.00	2,473	30.04	97.75	17.77	2000.7	26.49	160.22	18.00	149.00	10.60	424.9	15.16	96.00	0.234964
Shaft Weight						18,536													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
149.00	DragonWave Horizon Compact	3	0.80	2.000	10.60	0.721	0.50	25.59	1.100	0.50
149.00	DragonWave A-ANT-23G-1-C	1	1.00	2.000	15.00	1.610	1.00	38.55	2.115	1.00
149.00	Alcatel-Lucent RRH2x50-08	6	0.80	2.000	52.90	1.701	0.50	92.41	2.276	0.50
149.00	Alcatel-Lucent 1900 MHz 4X45	3	0.80	2.000	60.00	2.322	0.50	113.73	3.042	0.50
149.00	Nokia 2.5G MAA - AAHC(64T64R)	3	0.80	2.000	103.60	4.203	0.64	178.76	5.097	0.64
149.00	DragonWave A-ANT-11G-2-C	2	1.00	2.000	27.00	4.688	1.00	91.97	5.537	1.00
149.00	RFS APXVFR12X-C-I20	3	0.80	2.000	46.00	4.994	0.71	129.34	6.240	0.71
149.00	SitePro1 RMQP-3XX Low Profile	1	1.00	0.000	1,680.00	21.700	1.00	2,616.33	33.996	1.00
143.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	114.94	2.214	0.50
143.00	Ericsson RRUS 4415 B25	3	0.75	0.000	46.00	1.650	0.50	74.75	2.214	0.50
143.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	194.51	6.736	0.63
143.00	Ericsson AIR32 B66Aa/B2a	3	0.75	0.000	132.20	6.510	0.71	238.20	7.965	0.71
143.00	Ericsson Air 3246 B66	3	0.75	0.000	180.00	7.939	0.69	1,975.92	9.445	0.69
143.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	388.63	22.706	0.63
143.00	Platform with SitePro1 HRK12-	1	1.00	0.000	2,350.00	42.400	1.00	3,437.31	62.018	1.00
136.00	Round Low Profile Platform	1	1.00	0.000	1,500.00	21.700	1.00	1,928.44	34.396	1.00
134.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	126.48	2.470	0.50
134.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	108.03	2.470	0.50
134.00	RFS DB-T1-6Z-8AB-0Z	1	0.80	2.000	44.00	4.800	1.00	127.01	5.737	1.00
134.00	Andrew DB854DG65ESX	3	0.80	3.000	18.50	5.248	0.65	99.63	5.888	0.65
134.00	JMA Wireless MX06FRO660-02	6	0.80	0.000	46.00	9.872	0.71	204.14	11.682	0.71
126.00	Round Platform w/ Handrails	1	1.00	0.000	2,000.00	27.200	1.00	2,850.33	43.241	1.00
125.00	Commscope WCS-IMFQ-AMT	1	0.75	0.000	29.50	0.989	0.50	51.55	1.422	0.50
125.00	Raycap DC6-48-60-0-8F	1	0.75	0.000	32.80	1.360	1.00	70.86	1.794	1.00
125.00	Raycap DC6-48-60-0-8F (24"	2	0.75	0.000	32.80	1.470	1.00	102.91	1.927	1.00
125.00	Ericsson Radio 4415 B30	3	0.75	0.000	43.00	1.650	0.50	70.59	2.206	0.50
125.00	Ericsson 8843 Rev 2	3	0.75	0.000	75.00	1.650	0.50	115.63	2.206	0.50
125.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	113.19	2.580	0.50
125.00	CCI CCI-HPA-65R-BUU-H8	3	0.75	0.000	68.00	12.976	0.67	236.21	15.319	0.67
125.00	Kathrein Scala 80010966	6	0.75	0.000	114.60	17.363	0.63	324.81	19.778	0.63
115.00	RFS APXV18-206517S-C	3	1.00	0.000	26.40	5.160	0.68	86.54	6.695	0.68
106.00	Proxim 5054-R-LR	1	1.00	0.000	6.00	1.323	1.00	26.14	1.813	1.00
106.00	Generic 3' Dish w/ Radome	1	1.00	0.000	100.00	6.100	1.00	217.40	6.873	1.00
106.00	Flat Side Arm	1	1.00	0.000	150.00	6.300	1.00	197.18	7.885	1.00
Totals	Num Loadings:34			87		13,333.60		28,851.05		

Linear Appurtenance Properties

Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat	Dist Between Rows (in)	Dist Between Cols (in)	Dist Azimuth (deg)	Dist From Face (in)	Exposed To Wind Carrier
0.00	151.00	3	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	N CLEARWIRE
4.00	151.00	1	1.7" (43.2mm) Hybrid	1.70	1.78	N	0	0.00	0.00	0	N CLEARWIRE
4.00	151.00	3	1/2" Coax	0.63	0.15	N	0	0.00	0.00	0	N CLEARWIRE
0.00	148.00	1	2" conduit	2.38	3.65	N	0	0.00	0.00	0	N CLEARWIRE

Site Number: 243036

Code: ANSI/TIA-222-H

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Site Name: WEST HAVEN & RT 162 CT, CT Engineering Number: 13251342_C3_02

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Customer: T-MOBILE

4.00	148.00	1	1/2" Coax	0.63	0.15	N	0	0.00	0.00	0	0.00	N	CLEARWIRE
0.00	143.00	1	1 1/4" (1.25"- 31.8mm)	1.25	1.05	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	143.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	0.00	N	T-MOBILE
4.00	143.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	T-MOBILE
4.00	134.00	1	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	0.00	N	VERIZON WIRELESS
4.00	134.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	VERIZON WIRELESS
4.00	125.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
4.00	125.00	2	0.39" (9.8mm) Cable	0.39	0.07	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
4.00	125.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
4.00	125.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
4.00	125.00	1	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
4.00	125.00	2	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
4.00	115.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	METRO PCS INC
4.00	106.00	1	0.28" (7mm) RG-6	0.28	0.03	N	0	0.00	0.00	0	0.00	N	Other

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	52.010	61.456	20,701.4	22.69	138.69	74.7	784.0	0.0	0.0
5.00		0.3750	50.835	60.058	19,320.3	22.14	135.56	75.4	748.6	0.0	1,033.7
10.00		0.3750	49.660	58.659	18,002.0	21.59	132.43	76.0	714.0	0.0	1,009.9
15.00		0.3750	48.485	57.261	16,745.1	21.03	129.29	76.7	680.2	0.0	986.1
20.00		0.3750	47.310	55.863	15,548.1	20.48	126.16	77.3	647.3	0.0	962.3
25.00		0.3750	46.136	54.465	14,409.6	19.93	123.03	78.0	615.2	0.0	938.5
30.00		0.3750	44.961	53.066	13,328.0	19.38	119.90	78.6	583.9	0.0	914.8
35.00		0.3750	43.786	51.668	12,301.9	18.83	116.76	79.3	553.4	0.0	891.0
40.00		0.3750	42.611	50.270	11,329.9	18.27	113.63	79.9	523.7	0.0	867.2
45.00		0.3750	41.436	48.871	10,410.6	17.72	110.50	80.6	494.9	0.0	843.4
48.00	Bot - Section 2	0.3750	40.731	48.032	9,883.6	17.39	108.62	80.9	477.9	0.0	494.6
50.00		0.3750	40.261	47.473	9,542.3	17.17	107.36	81.2	466.8	0.0	600.4
53.25	Top - Section 1	0.3125	40.123	39.485	7,906.5	20.88	128.39	76.8	388.1	0.0	960.8
55.00		0.3125	39.712	39.078	7,664.0	20.64	127.08	77.1	380.1	0.0	233.9
60.00		0.3125	38.537	37.912	6,998.6	19.98	123.32	77.9	357.7	0.0	654.9
65.00		0.3125	37.362	36.747	6,373.0	19.32	119.56	78.7	336.0	0.0	635.1
70.00		0.3125	36.187	35.582	5,785.7	18.66	115.80	79.5	314.9	0.0	615.3
75.00		0.3125	35.012	34.417	5,235.7	17.99	112.04	80.2	294.5	0.0	595.5
80.00		0.3125	33.838	33.251	4,721.7	17.33	108.28	81.0	274.8	0.0	575.6
85.00		0.3125	32.663	32.086	4,242.5	16.67	104.52	81.8	255.8	0.0	555.8
90.00		0.3125	31.488	30.921	3,796.9	16.00	100.76	82.6	237.5	0.0	536.0
95.00		0.3125	30.313	29.756	3,383.6	15.34	97.00	82.6	219.9	0.0	516.2
97.75	Bot - Section 3	0.3125	29.667	29.115	3,169.7	14.98	94.93	82.6	210.4	0.0	275.4
100.0		0.3125	29.138	28.591	3,001.5	14.68	93.24	82.6	202.9	0.0	355.7
101.5	Top - Section 2	0.1875	29.161	17.242	1,828.7	25.66	155.52	71.2	123.5	0.0	233.6
105.0		0.1875	28.338	16.753	1,677.4	24.89	151.14	72.1	116.6	0.0	202.4
106.0		0.1875	28.103	16.613	1,635.7	24.67	149.89	72.4	114.6	0.0	56.8
110.0		0.1875	27.164	16.054	1,476.0	23.78	144.87	73.4	107.0	0.0	222.3
115.0		0.1875	25.989	15.354	1,291.4	22.68	138.61	74.7	97.9	0.0	267.2
120.0		0.1875	24.814	14.655	1,122.9	21.57	132.34	76.0	89.1	0.0	255.3
125.0		0.1875	23.639	13.956	969.8	20.47	126.08	77.3	80.8	0.0	243.4
126.0		0.1875	23.404	13.816	940.9	20.25	124.82	77.6	79.2	0.0	47.3
130.0		0.1875	22.464	13.257	831.2	19.36	119.81	78.6	72.9	0.0	184.2
134.0		0.1875	21.524	12.698	730.4	18.48	114.80	79.7	66.8	0.0	176.6
135.0		0.1875	21.290	12.558	706.5	18.26	113.54	79.9	65.4	0.0	43.0
136.0		0.1875	21.055	12.418	683.2	18.04	112.29	80.2	63.9	0.0	42.5
140.0		0.1875	20.115	11.859	595.0	17.15	107.28	81.2	58.3	0.0	165.2
143.0		0.1875	19.410	11.439	534.0	16.49	103.52	82.0	54.2	0.0	118.9
145.0		0.1875	18.940	11.160	495.8	16.05	101.01	82.5	51.6	0.0	76.9
149.0		0.1875	18.000	10.600	424.9	15.16	96.00	82.6	46.5	0.0	148.1
18,536.1											

Load Case: 1.2D + 1.0W	120 mph with No Ice	26 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		213.1	0.0					0.0	0.0	213.1	0.0	0.0	0.0
5.00		421.3	1,240.5					0.0	141.4	421.3	1,381.8	0.0	0.0
10.00		411.5	1,211.9					0.0	406.1	411.5	1,618.0	0.0	0.0
15.00		401.8	1,183.4					0.0	406.1	401.8	1,589.5	0.0	0.0
20.00		392.1	1,154.8					0.0	406.1	392.1	1,560.9	0.0	0.0
25.00		382.3	1,126.3					0.0	406.1	382.3	1,532.4	0.0	0.0
30.00		377.0	1,097.7					0.0	406.1	377.0	1,503.9	0.0	0.0
35.00		379.2	1,069.2					0.0	406.1	379.2	1,475.3	0.0	0.0
40.00		383.5	1,040.6					0.0	406.1	383.5	1,446.8	0.0	0.0
45.00		308.4	1,012.1					0.0	406.1	308.4	1,418.2	0.0	0.0
48.00	Bot - Section 2	194.3	593.5					0.0	243.7	194.3	837.2	0.0	0.0
50.00		206.0	720.5					0.0	162.5	206.0	883.0	0.0	0.0
53.25	Top - Section 1	196.1	1,153.0					0.0	264.0	196.1	1,417.0	0.0	0.0
55.00		264.0	280.7					0.0	142.1	264.0	422.8	0.0	0.0
60.00		389.5	785.9					0.0	406.1	389.5	1,192.1	0.0	0.0
65.00		386.4	762.1					0.0	406.1	386.4	1,168.3	0.0	0.0
70.00		382.2	738.4					0.0	406.1	382.2	1,144.5	0.0	0.0
75.00		377.2	714.6					0.0	406.1	377.2	1,120.7	0.0	0.0
80.00		371.3	690.8					0.0	406.1	371.3	1,096.9	0.0	0.0
85.00		364.7	667.0					0.0	406.1	364.7	1,073.1	0.0	0.0
90.00		357.4	643.2					0.0	406.1	357.4	1,049.3	0.0	0.0
95.00		272.3	619.4					0.0	406.1	272.3	1,025.5	0.0	0.0
97.75	Bot - Section 3	173.6	330.5					0.0	223.4	173.6	553.9	0.0	0.0
100.00		129.7	426.9					0.0	182.8	129.7	609.6	0.0	0.0
101.50	Top - Section 2	170.4	280.3					0.0	121.8	170.4	402.1	0.0	0.0
105.00		152.3	242.9					0.0	284.3	152.3	527.2	0.0	0.0
106.00	Appurtenance(s)	165.7	68.1	528.6	0.0	0.0	307.2	0.0	81.2	694.3	456.5	0.0	0.0
110.00		293.0	266.8					0.0	324.8	293.0	591.5	0.0	0.0
115.00	Appurtenance(s)	316.4	320.6	415.0	0.0	0.0	95.0	0.0	406.0	731.4	821.6	0.0	0.0
120.00		305.8	306.3					0.0	376.4	305.8	682.8	0.0	0.0
125.00	Appurtenance(s)	179.5	292.1	3,161.6	0.0	0.0	1,903.8	0.0	376.4	3,341.1	2,572.3	0.0	0.0
126.00	Appurtenance(s)	144.5	56.7	1,100.7	0.0	0.0	2,400.0	0.0	43.4	1,245.2	2,500.1	0.0	0.0
130.00		226.6	221.1					0.0	173.8	226.6	394.9	0.0	0.0
134.00	Appurtenance(s)	138.7	212.0	2,069.0	0.0	1,335.5	1,007.5	0.0	173.8	2,207.7	1,393.2	0.0	0.0
135.00		54.3	51.6					0.0	29.7	54.3	81.3	0.0	0.0
136.00	Appurtenance(s)	132.6	51.0	897.5	0.0	0.0	1,800.0	0.0	29.7	1,030.1	1,880.7	0.0	0.0
140.00		182.2	198.3					0.0	118.8	182.2	317.1	0.0	0.0
143.00	Appurtenance(s)	126.4	142.7	4,429.9	0.0	0.0	5,214.4	0.0	89.1	4,556.3	5,446.2	0.0	0.0
145.00		146.3	92.3					0.0	21.7	146.3	114.0	0.0	0.0
149.00	Appurtenance(s)	96.5	177.7	2,356.6	0.0	2,870.9	3,272.4	0.0	38.8	2,453.1	3,488.9	0.0	0.0
Totals:										25,524.9	48,791.3	0.00	0.00

Load Case: 1.2D + 1.0W

120 mph with No Ice

26 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	-48.75	-25.40	0.00	-2,955.05	0.00	2,955.05	4,132.29	1,078.55	5,030.04	4,392.82	0.00	0.00	0.685
5.00	-47.28	-25.14	0.00	-2,828.06	0.00	2,828.06	4,073.39	1,054.01	4,803.78	4,230.97	0.11	-0.20	0.681
10.00	-45.57	-24.88	0.00	-2,702.36	0.00	2,702.36	4,012.85	1,029.47	4,582.72	4,070.33	0.42	-0.40	0.676
15.00	-43.90	-24.63	0.00	-2,577.94	0.00	2,577.94	3,950.68	1,004.93	4,366.87	3,911.02	0.96	-0.61	0.671
20.00	-42.25	-24.38	0.00	-2,454.79	0.00	2,454.79	3,886.87	980.39	4,156.23	3,753.17	1.71	-0.82	0.666
25.00	-40.63	-24.13	0.00	-2,332.90	0.00	2,332.90	3,821.43	955.85	3,950.79	3,596.88	2.69	-1.04	0.660
30.00	-39.04	-23.88	0.00	-2,212.26	0.00	2,212.26	3,754.35	931.31	3,750.56	3,442.28	3.91	-1.27	0.654
35.00	-37.48	-23.61	0.00	-2,092.89	0.00	2,092.89	3,685.64	906.77	3,555.53	3,289.50	5.36	-1.50	0.647
40.00	-35.95	-23.34	0.00	-1,974.82	0.00	1,974.82	3,615.29	882.23	3,365.72	3,138.64	7.05	-1.73	0.640
45.00	-34.46	-23.10	0.00	-1,858.13	0.00	1,858.13	3,543.30	857.69	3,181.11	2,989.83	8.99	-1.97	0.632
48.00	-33.58	-22.95	0.00	-1,788.82	0.00	1,788.82	3,499.33	842.97	3,072.84	2,901.57	10.28	-2.12	0.627
50.00	-32.65	-22.79	0.00	-1,742.92	0.00	1,742.92	3,469.68	833.15	3,001.70	2,843.18	11.19	-2.22	0.623
53.25	-31.19	-22.61	0.00	-1,668.86	0.00	1,668.86	2,730.90	692.97	2,491.76	2,236.97	12.77	-2.39	0.759
55.00	-30.71	-22.43	0.00	-1,629.30	0.00	1,629.30	2,712.29	685.81	2,440.56	2,198.60	13.66	-2.48	0.753
60.00	-29.42	-22.14	0.00	-1,517.17	0.00	1,517.17	2,658.02	665.36	2,297.20	2,089.85	16.41	-2.77	0.738
65.00	-28.16	-21.84	0.00	-1,406.50	0.00	1,406.50	2,602.11	644.91	2,158.18	1,982.50	19.48	-3.07	0.721
70.00	-26.92	-21.53	0.00	-1,297.32	0.00	1,297.32	2,544.56	624.46	2,023.50	1,876.67	22.85	-3.37	0.703
75.00	-25.72	-21.23	0.00	-1,189.65	0.00	1,189.65	2,485.39	604.01	1,893.15	1,772.48	26.55	-3.68	0.683
80.00	-24.53	-20.92	0.00	-1,083.51	0.00	1,083.51	2,424.57	583.56	1,767.15	1,670.04	30.56	-3.99	0.660
85.00	-23.38	-20.60	0.00	-978.94	0.00	978.94	2,362.12	563.11	1,645.48	1,569.49	34.90	-4.30	0.635
90.00	-22.25	-20.29	0.00	-875.93	0.00	875.93	2,297.27	542.66	1,528.16	1,470.44	39.56	-4.61	0.607
95.00	-21.17	-20.02	0.00	-774.51	0.00	774.51	2,210.70	522.21	1,415.17	1,361.17	44.55	-4.92	0.580
97.75	-20.58	-19.85	0.00	-719.46	0.00	719.46	2,163.09	510.97	1,354.87	1,302.87	47.43	-5.09	0.563
100.00	-19.94	-19.71	0.00	-674.79	0.00	674.79	2,124.13	501.76	1,306.52	1,256.12	49.86	-5.23	0.548
101.50	-19.50	-19.55	0.00	-645.23	0.00	645.23	1,105.19	302.60	791.85	659.76	51.52	-5.32	1.000
105.00	-18.94	-19.40	0.00	-576.79	0.00	576.79	1,087.53	294.01	747.54	630.68	55.50	-5.54	0.936
106.00	-18.48	-18.74	0.00	-557.39	0.00	557.39	1,082.34	291.56	735.12	622.39	56.66	-5.63	0.917
110.00	-17.79	-18.51	0.00	-482.42	0.00	482.42	1,060.92	281.74	686.46	589.40	61.53	-5.99	0.840
115.00	-16.93	-17.82	0.00	-389.85	0.00	389.85	1,032.68	269.47	627.97	548.55	68.03	-6.41	0.731
120.00	-16.18	-17.54	0.00	-300.76	0.00	300.76	1,002.79	257.20	572.09	508.24	74.94	-6.79	0.613
125.00	-13.99	-13.95	0.00	-213.09	0.00	213.09	971.28	244.93	518.82	468.61	82.22	-7.12	0.472
126.00	-11.63	-12.43	0.00	-199.14	0.00	199.14	964.78	242.48	508.47	460.77	83.72	-7.18	0.447
130.00	-11.23	-12.20	0.00	-149.40	0.00	149.40	938.12	232.66	468.14	429.76	89.81	-7.39	0.362
134.00	-10.12	-9.84	0.00	-99.28	0.00	99.28	910.42	222.84	429.48	399.33	96.06	-7.56	0.262
135.00	-10.04	-9.79	0.00	-89.44	0.00	89.44	903.33	220.39	420.08	391.82	97.65	-7.60	0.241
136.00	-8.30	-8.53	0.00	-79.66	0.00	79.66	896.18	217.94	410.77	384.35	99.24	-7.63	0.218
140.00	-8.00	-8.31	0.00	-45.56	0.00	45.56	866.91	208.12	374.61	354.90	105.66	-7.74	0.139
143.00	-3.22	-3.06	0.00	-20.62	0.00	20.62	844.27	200.76	348.58	333.29	110.53	-7.78	0.066
145.00	-3.12	-2.90	0.00	-14.49	0.00	14.49	828.85	195.85	331.75	319.13	113.78	-7.80	0.049
149.00	0.00	-2.45	0.00	-2.87	0.00	2.87	787.55	186.03	299.33	287.88	120.31	-7.82	0.010

Load Case: 0.9D + 1.0W	120 mph with No Ice (Reduced DL)	26 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		213.1	0.0					0.0	0.0	213.1	0.0	0.0	0.0
5.00		421.3	930.3					0.0	106.0	421.3	1,036.4	0.0	0.0
10.00		411.5	908.9					0.0	304.6	411.5	1,213.5	0.0	0.0
15.00		401.8	887.5					0.0	304.6	401.8	1,192.1	0.0	0.0
20.00		392.1	866.1					0.0	304.6	392.1	1,170.7	0.0	0.0
25.00		382.3	844.7					0.0	304.6	382.3	1,149.3	0.0	0.0
30.00		377.0	823.3					0.0	304.6	377.0	1,127.9	0.0	0.0
35.00		379.2	801.9					0.0	304.6	379.2	1,106.5	0.0	0.0
40.00		383.5	780.5					0.0	304.6	383.5	1,085.1	0.0	0.0
45.00		308.4	759.0					0.0	304.6	308.4	1,063.7	0.0	0.0
48.00	Bot - Section 2	194.3	445.2					0.0	182.8	194.3	627.9	0.0	0.0
50.00		206.0	540.4					0.0	121.8	206.0	662.2	0.0	0.0
53.25	Top - Section 1	196.1	864.8					0.0	198.0	196.1	1,062.7	0.0	0.0
55.00		264.0	210.5					0.0	106.6	264.0	317.1	0.0	0.0
60.00		389.5	589.5					0.0	304.6	389.5	894.1	0.0	0.0
65.00		386.4	571.6					0.0	304.6	386.4	876.2	0.0	0.0
70.00		382.2	553.8					0.0	304.6	382.2	858.4	0.0	0.0
75.00		377.2	535.9					0.0	304.6	377.2	840.5	0.0	0.0
80.00		371.3	518.1					0.0	304.6	371.3	822.7	0.0	0.0
85.00		364.7	500.2					0.0	304.6	364.7	804.8	0.0	0.0
90.00		357.4	482.4					0.0	304.6	357.4	787.0	0.0	0.0
95.00		272.3	464.6					0.0	304.6	272.3	769.2	0.0	0.0
97.75	Bot - Section 3	173.6	247.9					0.0	167.5	173.6	415.4	0.0	0.0
100.00		129.7	320.2					0.0	137.1	129.7	457.2	0.0	0.0
101.50	Top - Section 2	170.4	210.2					0.0	91.4	170.4	301.6	0.0	0.0
105.00		152.3	182.2					0.0	213.2	152.3	395.4	0.0	0.0
106.00	Appurtenance(s)	165.7	51.1	528.6	0.0	0.0	230.4	0.0	60.9	694.3	342.4	0.0	0.0
110.00		293.0	200.1					0.0	243.6	293.0	443.7	0.0	0.0
115.00	Appurtenance(s)	316.4	240.5	415.0	0.0	0.0	71.3	0.0	304.5	731.4	616.2	0.0	0.0
120.00		305.8	229.8					0.0	282.3	305.8	512.1	0.0	0.0
125.00	Appurtenance(s)	179.5	219.1	3,161.6	0.0	0.0	1,427.8	0.0	282.3	3,341.1	1,929.2	0.0	0.0
126.00	Appurtenance(s)	144.5	42.5	1,100.7	0.0	0.0	1,800.0	0.0	32.6	1,245.2	1,875.1	0.0	0.0
130.00		226.6	165.8					0.0	130.3	226.6	296.1	0.0	0.0
134.00	Appurtenance(s)	138.7	159.0	2,069.0	0.0	1,335.5	755.6	0.0	130.3	2,207.7	1,044.9	0.0	0.0
135.00		54.3	38.7					0.0	22.3	54.3	60.9	0.0	0.0
136.00	Appurtenance(s)	132.6	38.2	897.5	0.0	0.0	1,350.0	0.0	22.3	1,030.1	1,410.5	0.0	0.0
140.00		182.2	148.7					0.0	89.1	182.2	237.8	0.0	0.0
143.00	Appurtenance(s)	126.4	107.0	4,429.9	0.0	0.0	3,910.8	0.0	66.8	4,556.3	4,084.6	0.0	0.0
145.00		146.3	69.2					0.0	16.3	146.3	85.5	0.0	0.0
149.00	Appurtenance(s)	96.5	133.3	2,356.6	0.0	2,870.9	2,454.3	0.0	29.1	2,453.1	2,616.7	0.0	0.0
Totals:										25,524.9	36,593.5	0.00	0.00

Load Case: 0.9D + 1.0W

120 mph with No Ice (Reduced DL)

26 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	-36.55	-25.38	0.00	-2,899.95	0.00	2,899.95	4,132.29	1,078.55	5,030.04	4,392.82	0.00	0.00	0.670
5.00	-35.43	-25.07	0.00	-2,773.07	0.00	2,773.07	4,073.39	1,054.01	4,803.78	4,230.97	0.10	-0.19	0.665
10.00	-34.13	-24.78	0.00	-2,647.71	0.00	2,647.71	4,012.85	1,029.47	4,582.72	4,070.33	0.42	-0.39	0.660
15.00	-32.85	-24.48	0.00	-2,523.83	0.00	2,523.83	3,950.68	1,004.93	4,366.87	3,911.02	0.94	-0.60	0.654
20.00	-31.60	-24.19	0.00	-2,401.41	0.00	2,401.41	3,886.87	980.39	4,156.23	3,753.17	1.68	-0.81	0.649
25.00	-30.36	-23.91	0.00	-2,280.44	0.00	2,280.44	3,821.43	955.85	3,950.79	3,596.88	2.64	-1.02	0.643
30.00	-29.15	-23.62	0.00	-2,160.91	0.00	2,160.91	3,754.35	931.31	3,750.56	3,442.28	3.83	-1.24	0.636
35.00	-27.96	-23.33	0.00	-2,042.80	0.00	2,042.80	3,685.64	906.77	3,555.53	3,289.50	5.25	-1.47	0.629
40.00	-26.80	-23.02	0.00	-1,926.16	0.00	1,926.16	3,615.29	882.23	3,365.72	3,138.64	6.90	-1.70	0.622
45.00	-25.67	-22.77	0.00	-1,811.05	0.00	1,811.05	3,543.30	857.69	3,181.11	2,989.83	8.81	-1.93	0.614
48.00	-25.00	-22.60	0.00	-1,742.75	0.00	1,742.75	3,499.33	842.97	3,072.84	2,901.57	10.06	-2.08	0.608
50.00	-24.29	-22.43	0.00	-1,697.54	0.00	1,697.54	3,469.68	833.15	3,001.70	2,843.18	10.96	-2.17	0.605
53.25	-23.19	-22.24	0.00	-1,624.65	0.00	1,624.65	2,730.90	692.97	2,491.76	2,236.97	12.49	-2.34	0.736
55.00	-22.81	-22.04	0.00	-1,585.73	0.00	1,585.73	2,712.29	685.81	2,440.56	2,198.60	13.36	-2.42	0.731
60.00	-21.83	-21.72	0.00	-1,475.54	0.00	1,475.54	2,658.02	665.36	2,297.20	2,089.85	16.06	-2.71	0.715
65.00	-20.86	-21.40	0.00	-1,366.94	0.00	1,366.94	2,602.11	644.91	2,158.18	1,982.50	19.05	-3.00	0.699
70.00	-19.92	-21.07	0.00	-1,259.97	0.00	1,259.97	2,544.56	624.46	2,023.50	1,876.67	22.34	-3.29	0.680
75.00	-19.00	-20.74	0.00	-1,154.62	0.00	1,154.62	2,485.39	604.01	1,893.15	1,772.48	25.94	-3.59	0.660
80.00	-18.09	-20.41	0.00	-1,050.91	0.00	1,050.91	2,424.57	583.56	1,767.15	1,670.04	29.86	-3.89	0.638
85.00	-17.21	-20.08	0.00	-948.84	0.00	948.84	2,362.12	563.11	1,645.48	1,569.49	34.09	-4.19	0.613
90.00	-16.35	-19.75	0.00	-848.42	0.00	848.42	2,297.27	542.66	1,528.16	1,470.44	38.63	-4.49	0.585
95.00	-15.53	-19.48	0.00	-749.65	0.00	749.65	2,210.70	522.21	1,415.17	1,361.17	43.49	-4.79	0.559
97.75	-15.08	-19.31	0.00	-696.08	0.00	696.08	2,163.09	510.97	1,354.87	1,302.87	46.30	-4.96	0.543
100.00	-14.59	-19.17	0.00	-652.62	0.00	652.62	2,124.13	501.76	1,306.52	1,256.12	48.66	-5.09	0.528
101.50	-14.26	-19.01	0.00	-623.86	0.00	623.86	1,105.19	302.60	791.85	659.76	50.28	-5.18	0.962
105.00	-13.83	-18.86	0.00	-557.31	0.00	557.31	1,087.53	294.01	747.54	630.68	54.15	-5.39	0.901
106.00	-13.48	-18.19	0.00	-538.45	0.00	538.45	1,082.34	291.56	735.12	622.39	55.28	-5.48	0.881
110.00	-12.95	-17.94	0.00	-465.68	0.00	465.68	1,060.92	281.74	686.46	589.40	60.02	-5.83	0.806
115.00	-12.30	-17.23	0.00	-375.97	0.00	375.97	1,032.68	269.47	627.97	548.55	66.34	-6.23	0.701
120.00	-11.73	-16.94	0.00	-289.80	0.00	289.80	1,002.79	257.20	572.09	508.24	73.06	-6.60	0.586
125.00	-10.16	-13.43	0.00	-205.08	0.00	205.08	971.28	244.93	518.82	468.61	80.13	-6.91	0.451
126.00	-8.42	-11.99	0.00	-191.66	0.00	191.66	964.78	242.48	508.47	460.77	81.58	-6.97	0.427
130.00	-8.12	-11.75	0.00	-143.71	0.00	143.71	938.12	232.66	468.14	429.76	87.50	-7.18	0.346
134.00	-7.35	-9.44	0.00	-95.37	0.00	95.37	910.42	222.84	429.48	399.33	93.57	-7.34	0.249
135.00	-7.29	-9.38	0.00	-85.93	0.00	85.93	903.33	220.39	420.08	391.82	95.11	-7.37	0.229
136.00	-6.01	-8.19	0.00	-76.55	0.00	76.55	896.18	217.94	410.77	384.35	96.65	-7.41	0.207
140.00	-5.79	-7.98	0.00	-43.79	0.00	43.79	866.91	208.12	374.61	354.90	102.89	-7.51	0.132
143.00	-2.34	-2.93	0.00	-19.84	0.00	19.84	844.27	200.76	348.58	333.29	107.61	-7.55	0.063
145.00	-2.27	-2.78	0.00	-13.98	0.00	13.98	828.85	195.85	331.75	319.13	110.77	-7.57	0.047
149.00	0.00	-2.45	0.00	-2.87	0.00	2.87	787.55	186.03	299.33	287.88	117.10	-7.59	0.010

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	26 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		62.6	0.0					0.0	0.0	62.6	0.0	0.0	0.0
5.00		124.0	1,490.3					0.0	141.4	124.0	1,631.6	0.0	0.0
10.00		121.6	1,484.8					0.0	406.1	121.6	1,891.0	0.0	0.0
15.00		119.0	1,464.2					0.0	406.1	119.0	1,870.3	0.0	0.0
20.00		116.3	1,438.5					0.0	406.1	116.3	1,844.6	0.0	0.0
25.00		113.6	1,410.2					0.0	406.1	113.6	1,816.4	0.0	0.0
30.00		112.3	1,380.3					0.0	406.1	112.3	1,786.5	0.0	0.0
35.00		113.1	1,349.3					0.0	406.1	113.1	1,755.4	0.0	0.0
40.00		114.6	1,317.4					0.0	406.1	114.6	1,723.6	0.0	0.0
45.00		92.3	1,284.9					0.0	406.1	92.3	1,691.0	0.0	0.0
48.00	Bot - Section 2	58.2	756.0					0.0	243.7	58.2	999.7	0.0	0.0
50.00		61.8	829.8					0.0	162.5	61.8	992.3	0.0	0.0
53.25	Top - Section 1	58.8	1,328.3					0.0	264.0	58.8	1,592.3	0.0	0.0
55.00		79.3	374.6					0.0	142.1	79.3	516.8	0.0	0.0
60.00		117.2	1,048.1					0.0	406.1	117.2	1,454.3	0.0	0.0
65.00		116.5	1,018.7					0.0	406.1	116.5	1,424.9	0.0	0.0
70.00		115.5	989.1					0.0	406.1	115.5	1,395.2	0.0	0.0
75.00		114.2	959.2					0.0	406.1	114.2	1,365.3	0.0	0.0
80.00		112.7	929.0					0.0	406.1	112.7	1,335.2	0.0	0.0
85.00		111.0	898.7					0.0	406.1	111.0	1,304.9	0.0	0.0
90.00		109.0	868.2					0.0	406.1	109.0	1,274.4	0.0	0.0
95.00		83.3	837.6					0.0	406.1	83.3	1,243.7	0.0	0.0
97.75	Bot - Section 3	53.2	448.6					0.0	223.4	53.2	671.9	0.0	0.0
100.00		39.8	523.2					0.0	182.8	39.8	706.0	0.0	0.0
101.50	Top - Section 2	52.3	343.9					0.0	121.8	52.3	465.7	0.0	0.0
105.00		46.8	387.7					0.0	284.3	46.8	672.0	0.0	0.0
106.00	Appurtenance(s)	51.1	109.2	110.8	0.0	0.0	450.8	0.0	81.2	161.9	641.3	0.0	0.0
110.00		90.5	426.4					0.0	324.8	90.5	751.1	0.0	0.0
115.00	Appurtenance(s)	98.0	512.6	93.5	0.0	0.0	235.6	0.0	406.0	191.5	1,154.2	0.0	0.0
120.00		95.1	490.9					0.0	376.4	95.1	867.3	0.0	0.0
125.00	Appurtenance(s)	56.0	469.0	643.5	0.0	0.0	3,697.5	0.0	376.4	699.5	4,542.9	0.0	0.0
126.00	Appurtenance(s)	45.3	91.8	303.8	0.0	0.0	3,064.3	0.0	43.4	349.1	3,199.6	0.0	0.0
130.00		71.2	356.5					0.0	173.8	71.2	530.3	0.0	0.0
134.00	Appurtenance(s)	43.7	342.4	426.1	0.0	264.2	2,245.5	0.0	173.8	469.8	2,761.7	0.0	0.0
135.00		17.1	83.9					0.0	29.7	17.1	113.6	0.0	0.0
136.00	Appurtenance(s)	42.0	83.0	247.0	0.0	0.0	2,135.4	0.0	29.7	289.0	2,248.2	0.0	0.0
140.00		57.8	321.2					0.0	118.8	57.8	440.0	0.0	0.0
143.00	Appurtenance(s)	40.3	232.1	991.5	0.0	0.0	11,526.8	0.0	89.1	1,031.8	11,847.9	0.0	0.0
145.00		46.8	150.6					0.0	21.7	46.8	172.3	0.0	0.0
149.00	Appurtenance(s)	30.9	289.1	561.9	0.0	622.7	4,848.5	0.0	38.8	592.8	5,176.4	0.0	0.0
Totals:										6,583.00	67,871.6	0.00	0.00

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

26 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	-67.87	-6.55	0.00	-768.80	0.00	768.80	4,132.29	1,078.55	5,030.04	4,392.82	0.00	0.00	0.191
5.00	-66.23	-6.49	0.00	-736.04	0.00	736.04	4,073.39	1,054.01	4,803.78	4,230.97	0.03	-0.05	0.190
10.00	-64.33	-6.42	0.00	-703.61	0.00	703.61	4,012.85	1,029.47	4,582.72	4,070.33	0.11	-0.10	0.189
15.00	-62.46	-6.36	0.00	-671.49	0.00	671.49	3,950.68	1,004.93	4,366.87	3,911.02	0.25	-0.16	0.188
20.00	-60.61	-6.30	0.00	-639.69	0.00	639.69	3,886.87	980.39	4,156.23	3,753.17	0.45	-0.21	0.186
25.00	-58.79	-6.24	0.00	-608.21	0.00	608.21	3,821.43	955.85	3,950.79	3,596.88	0.70	-0.27	0.185
30.00	-56.99	-6.17	0.00	-577.03	0.00	577.03	3,754.35	931.31	3,750.56	3,442.28	1.02	-0.33	0.183
35.00	-55.23	-6.11	0.00	-546.17	0.00	546.17	3,685.64	906.77	3,555.53	3,289.50	1.39	-0.39	0.181
40.00	-53.50	-6.04	0.00	-515.64	0.00	515.64	3,615.29	882.23	3,365.72	3,138.64	1.84	-0.45	0.179
45.00	-51.81	-5.98	0.00	-485.45	0.00	485.45	3,543.30	857.69	3,181.11	2,989.83	2.34	-0.51	0.177
48.00	-50.81	-5.94	0.00	-467.52	0.00	467.52	3,499.33	842.97	3,072.84	2,901.57	2.68	-0.55	0.176
50.00	-49.81	-5.90	0.00	-455.64	0.00	455.64	3,469.68	833.15	3,001.70	2,843.18	2.92	-0.58	0.175
53.25	-48.22	-5.85	0.00	-436.48	0.00	436.48	2,730.90	692.97	2,491.76	2,236.97	3.33	-0.62	0.213
55.00	-47.69	-5.81	0.00	-426.24	0.00	426.24	2,712.29	685.81	2,440.56	2,198.60	3.56	-0.65	0.212
60.00	-46.23	-5.73	0.00	-397.21	0.00	397.21	2,658.02	665.36	2,297.20	2,089.85	4.28	-0.72	0.208
65.00	-44.80	-5.66	0.00	-368.53	0.00	368.53	2,602.11	644.91	2,158.18	1,982.50	5.08	-0.80	0.203
70.00	-43.40	-5.59	0.00	-340.23	0.00	340.23	2,544.56	624.46	2,023.50	1,876.67	5.96	-0.88	0.198
75.00	-42.03	-5.51	0.00	-312.31	0.00	312.31	2,485.39	604.01	1,893.15	1,772.48	6.93	-0.96	0.193
80.00	-40.69	-5.43	0.00	-284.77	0.00	284.77	2,424.57	583.56	1,767.15	1,670.04	7.98	-1.04	0.187
85.00	-39.38	-5.35	0.00	-257.62	0.00	257.62	2,362.12	563.11	1,645.48	1,569.49	9.11	-1.12	0.181
90.00	-38.10	-5.27	0.00	-230.87	0.00	230.87	2,297.27	542.66	1,528.16	1,470.44	10.33	-1.21	0.174
95.00	-36.85	-5.20	0.00	-204.52	0.00	204.52	2,210.70	522.21	1,415.17	1,361.17	11.64	-1.29	0.167
97.75	-36.18	-5.16	0.00	-190.22	0.00	190.22	2,163.09	510.97	1,354.87	1,302.87	12.39	-1.33	0.163
100.00	-35.47	-5.12	0.00	-178.61	0.00	178.61	2,124.13	501.76	1,306.52	1,256.12	13.03	-1.37	0.159
101.50	-35.00	-5.08	0.00	-170.93	0.00	170.93	1,105.19	302.60	791.85	659.76	13.46	-1.39	0.291
105.00	-34.33	-5.04	0.00	-153.15	0.00	153.15	1,087.53	294.01	747.54	630.68	14.51	-1.45	0.275
106.00	-33.69	-4.90	0.00	-148.11	0.00	148.11	1,082.34	291.56	735.12	622.39	14.81	-1.48	0.269
110.00	-32.93	-4.85	0.00	-128.50	0.00	128.50	1,060.92	281.74	686.46	589.40	16.09	-1.57	0.249
115.00	-31.77	-4.69	0.00	-104.25	0.00	104.25	1,032.68	269.47	627.97	548.55	17.80	-1.68	0.221
120.00	-30.90	-4.62	0.00	-80.82	0.00	80.82	1,002.79	257.20	572.09	508.24	19.62	-1.79	0.190
125.00	-26.38	-3.79	0.00	-57.74	0.00	57.74	971.28	244.93	518.82	468.61	21.54	-1.87	0.151
126.00	-23.19	-3.36	0.00	-53.95	0.00	53.95	964.78	242.48	508.47	460.77	21.94	-1.89	0.141
130.00	-22.66	-3.29	0.00	-40.53	0.00	40.53	938.12	232.66	468.14	429.76	23.55	-1.95	0.119
134.00	-19.92	-2.73	0.00	-27.11	0.00	27.11	910.42	222.84	429.48	399.33	25.20	-1.99	0.090
135.00	-19.80	-2.71	0.00	-24.38	0.00	24.38	903.33	220.39	420.08	391.82	25.62	-2.00	0.084
136.00	-17.56	-2.35	0.00	-21.67	0.00	21.67	896.18	217.94	410.77	384.35	26.04	-2.01	0.076
140.00	-17.13	-2.29	0.00	-12.26	0.00	12.26	866.91	208.12	374.61	354.90	27.74	-2.04	0.054
143.00	-5.32	-0.83	0.00	-5.40	0.00	5.40	844.27	200.76	348.58	333.29	29.02	-2.05	0.023
145.00	-5.15	-0.78	0.00	-3.74	0.00	3.74	828.85	195.85	331.75	319.13	29.89	-2.06	0.018
149.00	0.00	-0.59	0.00	-0.62	0.00	0.62	787.55	186.03	299.33	287.88	31.61	-2.06	0.002

Load Case: 1.0D + 1.0W	Serviceability 60 mph	25 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		47.7	0.0					0.0	0.0	47.7	0.0	0.0	0.0
5.00		94.2	1,033.7					0.0	117.8	94.2	1,151.5	0.0	0.0
10.00		92.1	1,009.9					0.0	338.5	92.1	1,348.4	0.0	0.0
15.00		89.9	986.1					0.0	338.5	89.9	1,324.6	0.0	0.0
20.00		87.7	962.3					0.0	338.5	87.7	1,300.8	0.0	0.0
25.00		85.5	938.5					0.0	338.5	85.5	1,277.0	0.0	0.0
30.00		84.3	914.8					0.0	338.5	84.3	1,253.2	0.0	0.0
35.00		84.8	891.0					0.0	338.5	84.8	1,229.4	0.0	0.0
40.00		85.8	867.2					0.0	338.5	85.8	1,205.6	0.0	0.0
45.00		69.0	843.4					0.0	338.5	69.0	1,181.8	0.0	0.0
48.00	Bot - Section 2	43.5	494.6					0.0	203.1	43.5	697.7	0.0	0.0
50.00		46.1	600.4					0.0	135.4	46.1	735.8	0.0	0.0
53.25	Top - Section 1	43.9	960.8					0.0	220.0	43.9	1,180.8	0.0	0.0
55.00		59.0	233.9					0.0	118.5	59.0	352.4	0.0	0.0
60.00		87.1	654.9					0.0	338.5	87.1	993.4	0.0	0.0
65.00		86.4	635.1					0.0	338.5	86.4	973.6	0.0	0.0
70.00		85.5	615.3					0.0	338.5	85.5	953.7	0.0	0.0
75.00		84.4	595.5					0.0	338.5	84.4	933.9	0.0	0.0
80.00		83.1	575.6					0.0	338.5	83.1	914.1	0.0	0.0
85.00		81.6	555.8					0.0	338.5	81.6	894.3	0.0	0.0
90.00		79.9	536.0					0.0	338.5	79.9	874.4	0.0	0.0
95.00		60.9	516.2					0.0	338.5	60.9	854.6	0.0	0.0
97.75	Bot - Section 3	38.8	275.4					0.0	186.1	38.8	461.6	0.0	0.0
100.00		29.0	355.7					0.0	152.3	29.0	508.0	0.0	0.0
101.50	Top - Section 2	38.1	233.6					0.0	101.5	38.1	335.1	0.0	0.0
105.00		34.1	202.4					0.0	236.9	34.1	439.3	0.0	0.0
106.00	Appurtenance(s)	37.1	56.8	118.2	0.0	0.0	256.0	0.0	67.7	155.3	380.5	0.0	0.0
110.00		65.5	222.3					0.0	270.6	65.5	493.0	0.0	0.0
115.00	Appurtenance(s)	70.8	267.2	92.8	0.0	0.0	79.2	0.0	338.3	163.6	684.7	0.0	0.0
120.00		68.4	255.3					0.0	313.7	68.4	569.0	0.0	0.0
125.00	Appurtenance(s)	40.2	243.4	707.2	0.0	0.0	1,586.5	0.0	313.7	747.4	2,143.6	0.0	0.0
126.00	Appurtenance(s)	32.3	47.3	246.2	0.0	0.0	2,000.0	0.0	36.2	278.5	2,083.5	0.0	0.0
130.00		50.7	184.2					0.0	144.8	50.7	329.0	0.0	0.0
134.00	Appurtenance(s)	31.0	176.6	462.8	0.0	298.7	839.6	0.0	144.8	493.8	1,161.0	0.0	0.0
135.00		12.1	43.0					0.0	24.8	12.1	67.7	0.0	0.0
136.00	Appurtenance(s)	29.7	42.5	200.8	0.0	0.0	1,500.0	0.0	24.8	230.4	1,567.2	0.0	0.0
140.00		40.8	165.2					0.0	99.0	40.8	264.2	0.0	0.0
143.00	Appurtenance(s)	28.3	118.9	990.9	0.0	0.0	4,345.3	0.0	74.3	1,019.2	4,538.5	0.0	0.0
145.00		32.7	76.9					0.0	18.1	32.7	95.0	0.0	0.0
149.00	Appurtenance(s)	21.6	148.1	527.1	0.0	642.2	2,727.0	0.0	32.3	548.7	2,907.4	0.0	0.0
Totals:									5,709.54	40,659.4	0.00	0.00	

Load Case: 1.0D + 1.0W

Serviceability 60 mph

25 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	-40.66	-5.68	0.00	-654.16	0.00	654.16	4,132.29	1,078.55	5,030.04	4,392.82	0.00	0.00	0.159
5.00	-39.50	-5.61	0.00	-625.77	0.00	625.77	4,073.39	1,054.01	4,803.78	4,230.97	0.02	-0.04	0.158
10.00	-38.15	-5.55	0.00	-597.70	0.00	597.70	4,012.85	1,029.47	4,582.72	4,070.33	0.09	-0.09	0.156
15.00	-36.82	-5.49	0.00	-569.95	0.00	569.95	3,950.68	1,004.93	4,366.87	3,911.02	0.21	-0.14	0.155
20.00	-35.51	-5.43	0.00	-542.52	0.00	542.52	3,886.87	980.39	4,156.23	3,753.17	0.38	-0.18	0.154
25.00	-34.23	-5.37	0.00	-515.39	0.00	515.39	3,821.43	955.85	3,950.79	3,596.88	0.60	-0.23	0.152
30.00	-32.98	-5.30	0.00	-488.56	0.00	488.56	3,754.35	931.31	3,750.56	3,442.28	0.86	-0.28	0.151
35.00	-31.74	-5.24	0.00	-462.04	0.00	462.04	3,685.64	906.77	3,555.53	3,289.50	1.18	-0.33	0.149
40.00	-30.53	-5.18	0.00	-435.83	0.00	435.83	3,615.29	882.23	3,365.72	3,138.64	1.56	-0.38	0.147
45.00	-29.35	-5.12	0.00	-409.96	0.00	409.96	3,543.30	857.69	3,181.11	2,989.83	1.99	-0.44	0.145
48.00	-28.65	-5.09	0.00	-394.60	0.00	394.60	3,499.33	842.97	3,072.84	2,901.57	2.27	-0.47	0.144
50.00	-27.91	-5.05	0.00	-384.42	0.00	384.42	3,469.68	833.15	3,001.70	2,843.18	2.47	-0.49	0.143
53.25	-26.73	-5.01	0.00	-368.02	0.00	368.02	2,730.90	692.97	2,491.76	2,236.97	2.82	-0.53	0.174
55.00	-26.37	-4.96	0.00	-359.26	0.00	359.26	2,712.29	685.81	2,440.56	2,198.60	3.02	-0.55	0.173
60.00	-25.37	-4.90	0.00	-334.44	0.00	334.44	2,658.02	665.36	2,297.20	2,089.85	3.63	-0.61	0.170
65.00	-24.40	-4.83	0.00	-309.97	0.00	309.97	2,602.11	644.91	2,158.18	1,982.50	4.30	-0.68	0.166
70.00	-23.44	-4.76	0.00	-285.84	0.00	285.84	2,544.56	624.46	2,023.50	1,876.67	5.05	-0.74	0.162
75.00	-22.50	-4.69	0.00	-262.06	0.00	262.06	2,485.39	604.01	1,893.15	1,772.48	5.87	-0.81	0.157
80.00	-21.58	-4.61	0.00	-238.64	0.00	238.64	2,424.57	583.56	1,767.15	1,670.04	6.75	-0.88	0.152
85.00	-20.68	-4.54	0.00	-215.56	0.00	215.56	2,362.12	563.11	1,645.48	1,569.49	7.71	-0.95	0.146
90.00	-19.80	-4.47	0.00	-192.85	0.00	192.85	2,297.27	542.66	1,528.16	1,470.44	8.74	-1.02	0.140
95.00	-18.95	-4.41	0.00	-170.49	0.00	170.49	2,210.70	522.21	1,415.17	1,361.17	9.84	-1.08	0.134
97.75	-18.48	-4.38	0.00	-158.35	0.00	158.35	2,163.09	510.97	1,354.87	1,302.87	10.48	-1.12	0.130
100.00	-17.97	-4.35	0.00	-148.51	0.00	148.51	2,124.13	501.76	1,306.52	1,256.12	11.02	-1.15	0.127
101.50	-17.64	-4.31	0.00	-141.99	0.00	141.99	1,105.19	302.60	791.85	659.76	11.38	-1.17	0.231
105.00	-17.20	-4.28	0.00	-126.90	0.00	126.90	1,087.53	294.01	747.54	630.68	12.26	-1.22	0.217
106.00	-16.82	-4.13	0.00	-122.62	0.00	122.62	1,082.34	291.56	735.12	622.39	12.52	-1.24	0.213
110.00	-16.32	-4.08	0.00	-106.11	0.00	106.11	1,060.92	281.74	686.46	589.40	13.59	-1.32	0.196
115.00	-15.63	-3.92	0.00	-85.72	0.00	85.72	1,032.68	269.47	627.97	548.55	15.03	-1.41	0.172
120.00	-15.06	-3.86	0.00	-66.11	0.00	66.11	1,002.79	257.20	572.09	508.24	16.56	-1.50	0.145
125.00	-12.93	-3.06	0.00	-46.82	0.00	46.82	971.28	244.93	518.82	468.61	18.16	-1.57	0.113
126.00	-10.86	-2.73	0.00	-43.75	0.00	43.75	964.78	242.48	508.47	460.77	18.49	-1.58	0.106
130.00	-10.53	-2.68	0.00	-32.82	0.00	32.82	938.12	232.66	468.14	429.76	19.84	-1.63	0.088
134.00	-9.38	-2.16	0.00	-21.79	0.00	21.79	910.42	222.84	429.48	399.33	21.22	-1.67	0.065
135.00	-9.31	-2.15	0.00	-19.63	0.00	19.63	903.33	220.39	420.08	391.82	21.57	-1.67	0.061
136.00	-7.75	-1.87	0.00	-17.49	0.00	17.49	896.18	217.94	410.77	384.35	21.92	-1.68	0.054
140.00	-7.49	-1.83	0.00	-10.00	0.00	10.00	866.91	208.12	374.61	354.90	23.34	-1.70	0.037
143.00	-2.98	-0.67	0.00	-4.53	0.00	4.53	844.27	200.76	348.58	333.29	24.42	-1.72	0.017
145.00	-2.89	-0.64	0.00	-3.19	0.00	3.19	828.85	195.85	331.75	319.13	25.14	-1.72	0.013
149.00	0.00	-0.55	0.00	-0.64	0.00	0.64	787.55	186.03	299.33	287.88	26.58	-1.72	0.002

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.20
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}):	0.21
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.08
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	3.01
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	40.66 k
Seismic Base Shear (E):	1.22 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)
39	147.00	180	3,898	0.010	12	224
38	144.00	95	1,969	0.005	6	118
37	141.50	193	3,868	0.010	12	240
36	138.00	264	5,032	0.013	16	328
35	135.50	67	1,235	0.003	4	84
34	134.50	68	1,225	0.003	4	84
33	132.00	321	5,601	0.014	18	399
32	128.00	329	5,391	0.014	17	409
31	125.50	83	1,314	0.003	4	104
30	122.50	557	8,360	0.022	26	692
29	117.50	569	7,856	0.020	25	707
28	112.50	605	7,663	0.020	24	752
27	108.00	493	5,750	0.015	18	613
26	105.50	124	1,385	0.004	4	155
25	103.25	439	4,684	0.012	15	546
24	100.75	335	3,402	0.009	11	416
23	98.88	508	4,967	0.013	16	631
22	96.38	462	4,287	0.011	14	574
21	92.50	855	7,312	0.019	23	1,062
20	87.50	874	6,695	0.017	21	1,087
19	82.50	894	6,087	0.016	19	1,111
18	77.50	914	5,490	0.014	17	1,136
17	72.50	934	4,909	0.013	15	1,161
16	67.50	954	4,346	0.011	14	1,185
15	62.50	974	3,803	0.010	12	1,210

14	57.50	993	3,284	0.008	10	1,234
13	54.13	352	1,032	0.003	3	438
12	51.63	1,181	3,147	0.008	10	1,467
11	49.00	736	1,767	0.005	6	914
10	46.50	698	1,509	0.004	5	867
9	42.50	1,182	2,135	0.006	7	1,469
8	37.50	1,206	1,695	0.004	5	1,498
7	32.50	1,229	1,299	0.003	4	1,528
6	27.50	1,253	948	0.002	3	1,557
5	22.50	1,277	646	0.002	2	1,587
4	17.50	1,301	398	0.001	1	1,616
3	12.50	1,325	207	0.001	1	1,646
2	7.50	1,348	76	0.000	0	1,676
1	2.50	1,152	7	0.000	0	1,431
DragonWave Horizon C	149.00	32	706	0.002	2	40
DragonWave A-ANT-23G	149.00	15	333	0.001	1	19
Alcatel-Lucent RRH2x	149.00	317	7,047	0.018	22	394
Alcatel-Lucent 1900	149.00	180	3,996	0.010	13	224
Nokia 2.5G MAA - AAH	149.00	311	6,900	0.018	22	386
DragonWave A-ANT-11G	149.00	54	1,199	0.003	4	67
RFS APXVFRR12X-C-I20	149.00	138	3,064	0.008	10	171
SitePro1 RMQP-3XX Lo	149.00	1,680	37,298	0.096	117	2,088
Ericsson Radio 4449	143.00	225	4,601	0.012	14	280
Ericsson RRUS 4415 B	143.00	138	2,822	0.007	9	171
Ericsson Air6449 B41	143.00	312	6,380	0.016	20	388
Ericsson AIR32 B66Aa	143.00	397	8,110	0.021	26	493
Ericsson Air 3246 B6	143.00	540	11,042	0.029	35	671
RFS APXVAARR24_43-U-	143.00	384	7,846	0.020	25	477
Platform with SitePr	143.00	2,350	48,055	0.124	151	2,920
Round Low Profile PI	136.00	1,500	27,744	0.072	87	1,864
Samsung B2/B66A RRH-	134.00	253	4,546	0.012	14	315
Samsung B5/B13 RRH-B	134.00	211	3,787	0.010	12	262
RFS DB-T1-6Z-8AB-0Z	134.00	44	790	0.002	2	55
Andrew DB854DG65ESX	134.00	56	997	0.003	3	69
JMA Wireless MX06FRO	134.00	276	4,956	0.013	16	343
Round Platform w/ Ha	126.00	2,000	31,752	0.082	100	2,485
Commscope WCS-IMFQ-A	125.00	30	461	0.001	1	37
Raycap DC6-48-60-0-8	125.00	33	513	0.001	2	41
Raycap DC6-48-60-0-8	125.00	66	1,025	0.003	3	82
Ericsson Radio 4415	125.00	129	2,016	0.005	6	160
Ericsson 8843 Rev 2	125.00	225	3,516	0.009	11	280
Ericsson RRUS 4449 B	125.00	213	3,328	0.009	10	265
CCI CCI-HPA-65R-BUU-	125.00	204	3,188	0.008	10	254
Kathrein Scala 80010	125.00	688	10,744	0.028	34	854
RFS APXV18-206517S-C	115.00	79	1,047	0.003	3	98
Proxim 5054-R-LR	106.00	6	67	0.000	0	7
Generic 3' Dish w/ R	106.00	100	1,124	0.003	4	124
Flat Side Arm	106.00	150	1,685	0.004	5	186
		40,659	387,362	1.000	1,220	50,526

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)
39	147.00	180	3,898	0.010	12	155
38	144.00	95	1,969	0.005	6	81
37	141.50	193	3,868	0.010	12	166
36	138.00	264	5,032	0.013	16	227
35	135.50	67	1,235	0.003	4	58
34	134.50	68	1,225	0.003	4	58
33	132.00	321	5,601	0.014	18	276

32	128.00	329	5,391	0.014	17	282
31	125.50	83	1,314	0.003	4	72
30	122.50	557	8,360	0.022	26	478
29	117.50	569	7,856	0.020	25	488
28	112.50	605	7,663	0.020	24	519
27	108.00	493	5,750	0.015	18	423
26	105.50	124	1,385	0.004	4	107
25	103.25	439	4,684	0.012	15	377
24	100.75	335	3,402	0.009	11	287
23	98.88	508	4,967	0.013	16	436
22	96.38	462	4,287	0.011	14	396
21	92.50	855	7,312	0.019	23	733
20	87.50	874	6,695	0.017	21	750
19	82.50	894	6,087	0.016	19	767
18	77.50	914	5,490	0.014	17	784
17	72.50	934	4,909	0.013	15	801
16	67.50	954	4,346	0.011	14	818
15	62.50	974	3,803	0.010	12	835
14	57.50	993	3,284	0.008	10	852
13	54.13	352	1,032	0.003	3	302
12	51.63	1,181	3,147	0.008	10	1,012
11	49.00	736	1,767	0.005	6	631
10	46.50	698	1,509	0.004	5	598
9	42.50	1,182	2,135	0.006	7	1,013
8	37.50	1,206	1,695	0.004	5	1,034
7	32.50	1,229	1,299	0.003	4	1,054
6	27.50	1,253	948	0.002	3	1,074
5	22.50	1,277	646	0.002	2	1,095
4	17.50	1,301	398	0.001	1	1,115
3	12.50	1,325	207	0.001	1	1,136
2	7.50	1,348	76	0.000	0	1,156
1	2.50	1,152	7	0.000	0	987
DragonWave Horizon C	149.00	32	706	0.002	2	27
DragonWave A-ANT-23G	149.00	15	333	0.001	1	13
Alcatel-Lucent RRH2x	149.00	317	7,047	0.018	22	272
Alcatel-Lucent 1900	149.00	180	3,996	0.010	13	154
Nokia 2.5G MAA - AAH	149.00	311	6,900	0.018	22	266
DragonWave A-ANT-11G	149.00	54	1,199	0.003	4	46
RFS APXVFRR12X-C-I20	149.00	138	3,064	0.008	10	118
SitePro1 RMQP-3XX Lo	149.00	1,680	37,298	0.096	117	1,440
Ericsson Radio 4449	143.00	225	4,601	0.012	14	193
Ericsson RRUS 4415 B	143.00	138	2,822	0.007	9	118
Ericsson Air6449 B41	143.00	312	6,380	0.016	20	267
Ericsson AIR32 B66Aa	143.00	397	8,110	0.021	26	340
Ericsson Air 3246 B6	143.00	540	11,042	0.029	35	463
RFS APXVAARR24_43-U-	143.00	384	7,846	0.020	25	329
Platform with SitePr	143.00	2,350	48,055	0.124	151	2,015
Round Low Profile PI	136.00	1,500	27,744	0.072	87	1,286
Samsung B2/B66A RRH-	134.00	253	4,546	0.012	14	217
Samsung B5/B13 RRH-B	134.00	211	3,787	0.010	12	181
RFS DB-T1-6Z-8AB-OZ	134.00	44	790	0.002	2	38
Andrew DB854DG65ESX	134.00	56	997	0.003	3	48
JMA Wireless MX06FRO	134.00	276	4,956	0.013	16	237
Round Platform w/ Ha	126.00	2,000	31,752	0.082	100	1,715
Commscope WCS-IMFQ-A	125.00	30	461	0.001	1	25
Raycap DC6-48-60-0-8	125.00	33	513	0.001	2	28
Raycap DC6-48-60-0-8	125.00	66	1,025	0.003	3	56
Ericsson Radio 4415	125.00	129	2,016	0.005	6	111
Ericsson 8843 Rev 2	125.00	225	3,516	0.009	11	193
Ericsson RRUS 4449 B	125.00	213	3,328	0.009	10	183
CCI CCI-HPA-65R-BUU-	125.00	204	3,188	0.008	10	175
Kathrein Scala 80010	125.00	688	10,744	0.028	34	590
RFS APXV18-206517S-C	115.00	79	1,047	0.003	3	68
Proxim 5054-R-LR	106.00	6	67	0.000	0	5

Site Number: 243036

Code: ANSI/TIA-222-H

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Site Name: WEST HAVEN & RT 162 CT, CT

Engineering Number: 13251342_C3_02

6/23/2020 2:52:01 PM

Customer: T-MOBILE

Generic 3' Dish w/ R	106.00	100	1,124	0.003	4	86
Flat Side Arm	106.00	150	1,685	0.004	5	129
		40,659	387,362	1.000	1,220	34,859

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	-49.10	-1.22	0.00	-162.83	0.00	162.83	4,132.29	1,078.55	5,030.04	4,392.82	0.00	0.00	0.049
5.00	-47.42	-1.23	0.00	-156.71	0.00	156.71	4,073.39	1,054.01	4,803.78	4,230.97	0.01	-0.01	0.049
10.00	-45.77	-1.24	0.00	-150.55	0.00	150.55	4,012.85	1,029.47	4,582.72	4,070.33	0.02	-0.02	0.048
15.00	-44.16	-1.25	0.00	-144.35	0.00	144.35	3,950.68	1,004.93	4,366.87	3,911.02	0.05	-0.03	0.048
20.00	-42.57	-1.25	0.00	-138.11	0.00	138.11	3,886.87	980.39	4,156.23	3,753.17	0.09	-0.05	0.048
25.00	-41.01	-1.26	0.00	-131.84	0.00	131.84	3,821.43	955.85	3,950.79	3,596.88	0.15	-0.06	0.047
30.00	-39.48	-1.26	0.00	-125.55	0.00	125.55	3,754.35	931.31	3,750.56	3,442.28	0.22	-0.07	0.047
35.00	-37.99	-1.26	0.00	-119.25	0.00	119.25	3,685.64	906.77	3,555.53	3,289.50	0.30	-0.08	0.047
40.00	-36.52	-1.26	0.00	-112.94	0.00	112.94	3,615.29	882.23	3,365.72	3,138.64	0.39	-0.10	0.046
45.00	-35.65	-1.26	0.00	-106.63	0.00	106.63	3,543.30	857.69	3,181.11	2,989.83	0.50	-0.11	0.046
48.00	-34.73	-1.26	0.00	-102.84	0.00	102.84	3,499.33	842.97	3,072.84	2,901.57	0.58	-0.12	0.045
50.00	-33.27	-1.25	0.00	-100.32	0.00	100.32	3,469.68	833.15	3,001.70	2,843.18	0.63	-0.13	0.045
53.25	-32.83	-1.25	0.00	-96.25	0.00	96.25	2,730.90	692.97	2,491.76	2,236.97	0.72	-0.14	0.055
55.00	-31.59	-1.24	0.00	-94.07	0.00	94.07	2,712.29	685.81	2,440.56	2,198.60	0.77	-0.14	0.054
60.00	-30.38	-1.24	0.00	-87.85	0.00	87.85	2,658.02	665.36	2,297.20	2,089.85	0.92	-0.16	0.053
65.00	-29.20	-1.23	0.00	-81.66	0.00	81.66	2,602.11	644.91	2,158.18	1,982.50	1.10	-0.17	0.052
70.00	-28.04	-1.22	0.00	-75.51	0.00	75.51	2,544.56	624.46	2,023.50	1,876.67	1.29	-0.19	0.051
75.00	-26.90	-1.21	0.00	-69.42	0.00	69.42	2,485.39	604.01	1,893.15	1,772.48	1.50	-0.21	0.050
80.00	-25.79	-1.19	0.00	-63.38	0.00	63.38	2,424.57	583.56	1,767.15	1,670.04	1.73	-0.23	0.049
85.00	-24.70	-1.17	0.00	-57.43	0.00	57.43	2,362.12	563.11	1,645.48	1,569.49	1.98	-0.25	0.047
90.00	-23.64	-1.15	0.00	-51.56	0.00	51.56	2,297.27	542.66	1,528.16	1,470.44	2.25	-0.26	0.045
95.00	-23.07	-1.14	0.00	-45.80	0.00	45.80	2,210.70	522.21	1,415.17	1,361.17	2.53	-0.28	0.044
97.75	-22.44	-1.13	0.00	-42.66	0.00	42.66	2,163.09	510.97	1,354.87	1,302.87	2.70	-0.29	0.043
100.00	-22.02	-1.12	0.00	-40.12	0.00	40.12	2,124.13	501.76	1,306.52	1,256.12	2.84	-0.30	0.042
101.50	-21.47	-1.10	0.00	-38.44	0.00	38.44	1,105.19	302.60	791.85	659.76	2.93	-0.31	0.078
105.00	-21.32	-1.10	0.00	-34.58	0.00	34.58	1,087.53	294.01	747.54	630.68	3.16	-0.32	0.074
106.00	-20.39	-1.07	0.00	-33.48	0.00	33.48	1,082.34	291.56	735.12	622.39	3.23	-0.33	0.073
110.00	-19.63	-1.05	0.00	-29.19	0.00	29.19	1,060.92	281.74	686.46	589.40	3.51	-0.35	0.068
115.00	-18.83	-1.03	0.00	-23.92	0.00	23.92	1,032.68	269.47	627.97	548.55	3.89	-0.37	0.062
120.00	-18.14	-1.00	0.00	-18.78	0.00	18.78	1,002.79	257.20	572.09	508.24	4.29	-0.40	0.055
125.00	-16.06	-0.91	0.00	-13.75	0.00	13.75	971.28	244.93	518.82	468.61	4.72	-0.42	0.046
126.00	-13.17	-0.78	0.00	-12.84	0.00	12.84	964.78	242.48	508.47	460.77	4.81	-0.42	0.042
130.00	-12.77	-0.76	0.00	-9.74	0.00	9.74	938.12	232.66	468.14	429.76	5.17	-0.43	0.036
134.00	-11.64	-0.70	0.00	-6.71	0.00	6.71	910.42	222.84	429.48	399.33	5.54	-0.45	0.030
135.00	-11.56	-0.69	0.00	-6.02	0.00	6.02	903.33	220.39	420.08	391.82	5.63	-0.45	0.028
136.00	-9.37	-0.58	0.00	-5.32	0.00	5.32	896.18	217.94	410.77	384.35	5.72	-0.45	0.024
140.00	-9.13	-0.56	0.00	-3.02	0.00	3.02	866.91	208.12	374.61	354.90	6.10	-0.46	0.019
143.00	-3.61	-0.23	0.00	-1.34	0.00	1.34	844.27	200.76	348.58	333.29	6.39	-0.46	0.008
145.00	-3.39	-0.22	0.00	-0.87	0.00	0.87	828.85	195.85	331.75	319.13	6.59	-0.46	0.007
149.00	0.00	-0.19	0.00	0.00	0.00	0.00	787.55	186.03	299.33	287.88	6.97	-0.46	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	-33.87	-1.22	0.00	-158.91	0.00	158.91	4,132.29	1,078.55	5,030.04	4,392.82	0.00	0.00	0.044
5.00	-32.72	-1.23	0.00	-152.80	0.00	152.80	4,073.39	1,054.01	4,803.78	4,230.97	0.01	-0.01	0.044
10.00	-31.58	-1.23	0.00	-146.66	0.00	146.66	4,012.85	1,029.47	4,582.72	4,070.33	0.02	-0.02	0.044
15.00	-30.46	-1.24	0.00	-140.50	0.00	140.50	3,950.68	1,004.93	4,366.87	3,911.02	0.05	-0.03	0.044
20.00	-29.37	-1.24	0.00	-134.31	0.00	134.31	3,886.87	980.39	4,156.23	3,753.17	0.09	-0.04	0.043
25.00	-28.29	-1.24	0.00	-128.11	0.00	128.11	3,821.43	955.85	3,950.79	3,596.88	0.15	-0.06	0.043
30.00	-27.24	-1.24	0.00	-121.89	0.00	121.89	3,754.35	931.31	3,750.56	3,442.28	0.21	-0.07	0.043
35.00	-26.21	-1.24	0.00	-115.68	0.00	115.68	3,685.64	906.77	3,555.53	3,289.50	0.29	-0.08	0.042
40.00	-25.19	-1.24	0.00	-109.46	0.00	109.46	3,615.29	882.23	3,365.72	3,138.64	0.38	-0.09	0.042
45.00	-24.59	-1.24	0.00	-103.26	0.00	103.26	3,543.30	857.69	3,181.11	2,989.83	0.49	-0.11	0.041
48.00	-23.96	-1.24	0.00	-99.54	0.00	99.54	3,499.33	842.97	3,072.84	2,901.57	0.56	-0.12	0.041
50.00	-22.95	-1.23	0.00	-97.07	0.00	97.07	3,469.68	833.15	3,001.70	2,843.18	0.61	-0.12	0.041
53.25	-22.65	-1.23	0.00	-93.09	0.00	93.09	2,730.90	692.97	2,491.76	2,236.97	0.70	-0.13	0.050
55.00	-21.80	-1.22	0.00	-90.94	0.00	90.94	2,712.29	685.81	2,440.56	2,198.60	0.75	-0.14	0.049
60.00	-20.96	-1.21	0.00	-84.86	0.00	84.86	2,658.02	665.36	2,297.20	2,089.85	0.90	-0.15	0.048
65.00	-20.14	-1.20	0.00	-78.82	0.00	78.82	2,602.11	644.91	2,158.18	1,982.50	1.07	-0.17	0.048
70.00	-19.34	-1.19	0.00	-72.82	0.00	72.82	2,544.56	624.46	2,023.50	1,876.67	1.25	-0.19	0.046
75.00	-18.56	-1.17	0.00	-66.89	0.00	66.89	2,485.39	604.01	1,893.15	1,772.48	1.46	-0.20	0.045
80.00	-17.79	-1.16	0.00	-61.03	0.00	61.03	2,424.57	583.56	1,767.15	1,670.04	1.68	-0.22	0.044
85.00	-17.04	-1.14	0.00	-55.25	0.00	55.25	2,362.12	563.11	1,645.48	1,569.49	1.92	-0.24	0.042
90.00	-16.31	-1.12	0.00	-49.57	0.00	49.57	2,297.27	542.66	1,528.16	1,470.44	2.18	-0.26	0.041
95.00	-15.91	-1.10	0.00	-43.99	0.00	43.99	2,210.70	522.21	1,415.17	1,361.17	2.46	-0.27	0.040
97.75	-15.48	-1.09	0.00	-40.95	0.00	40.95	2,163.09	510.97	1,354.87	1,302.87	2.62	-0.28	0.039
100.00	-15.19	-1.08	0.00	-38.50	0.00	38.50	2,124.13	501.76	1,306.52	1,256.12	2.75	-0.29	0.038
101.50	-14.81	-1.06	0.00	-36.89	0.00	36.89	1,105.19	302.60	791.85	659.76	2.85	-0.30	0.069
105.00	-14.71	-1.06	0.00	-33.16	0.00	33.16	1,087.53	294.01	747.54	630.68	3.07	-0.31	0.066
106.00	-14.06	-1.03	0.00	-32.10	0.00	32.10	1,082.34	291.56	735.12	622.39	3.13	-0.31	0.065
110.00	-13.54	-1.01	0.00	-27.96	0.00	27.96	1,060.92	281.74	686.46	589.40	3.41	-0.34	0.060
115.00	-12.99	-0.99	0.00	-22.90	0.00	22.90	1,032.68	269.47	627.97	548.55	3.77	-0.36	0.054
120.00	-12.51	-0.96	0.00	-17.97	0.00	17.97	1,002.79	257.20	572.09	508.24	4.16	-0.38	0.048
125.00	-11.08	-0.87	0.00	-13.16	0.00	13.16	971.28	244.93	518.82	468.61	4.57	-0.40	0.040
126.00	-9.08	-0.74	0.00	-12.29	0.00	12.29	964.78	242.48	508.47	460.77	4.66	-0.41	0.036
130.00	-8.81	-0.72	0.00	-9.32	0.00	9.32	938.12	232.66	468.14	429.76	5.00	-0.42	0.031
134.00	-8.03	-0.67	0.00	-6.42	0.00	6.42	910.42	222.84	429.48	399.33	5.36	-0.43	0.025
135.00	-7.97	-0.66	0.00	-5.76	0.00	5.76	903.33	220.39	420.08	391.82	5.45	-0.43	0.024
136.00	-6.46	-0.55	0.00	-5.09	0.00	5.09	896.18	217.94	410.77	384.35	5.54	-0.43	0.020
140.00	-6.30	-0.54	0.00	-2.89	0.00	2.89	866.91	208.12	374.61	354.90	5.90	-0.44	0.015
143.00	-2.49	-0.22	0.00	-1.28	0.00	1.28	844.27	200.76	348.58	333.29	6.18	-0.44	0.007
145.00	-2.34	-0.21	0.00	-0.83	0.00	0.83	828.85	195.85	331.75	319.13	6.37	-0.44	0.005
149.00	0.00	-0.19	0.00	0.00	0.00	0.00	787.55	186.03	299.33	287.88	6.74	-0.45	0.000

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	25.40	0.00	48.75	0.00	0.00	2955.05	101.50	1.00
0.9D + 1.0W	25.38	0.00	36.55	0.00	0.00	2899.95	101.50	0.96
1.2D + 1.0Di + 1.0Wi	6.55	0.00	67.87	0.00	0.00	768.80	101.50	0.29
1.2D + 1.0Ev + 1.0Eh	1.22	0.00	49.10	0.00	0.00	162.83	101.50	0.08
0.9D - 1.0Ev + 1.0Eh	1.22	0.00	33.87	0.00	0.00	158.91	101.50	0.07
1.0D + 1.0W	5.68	0.00	40.66	0.00	0.00	654.16	101.50	0.23



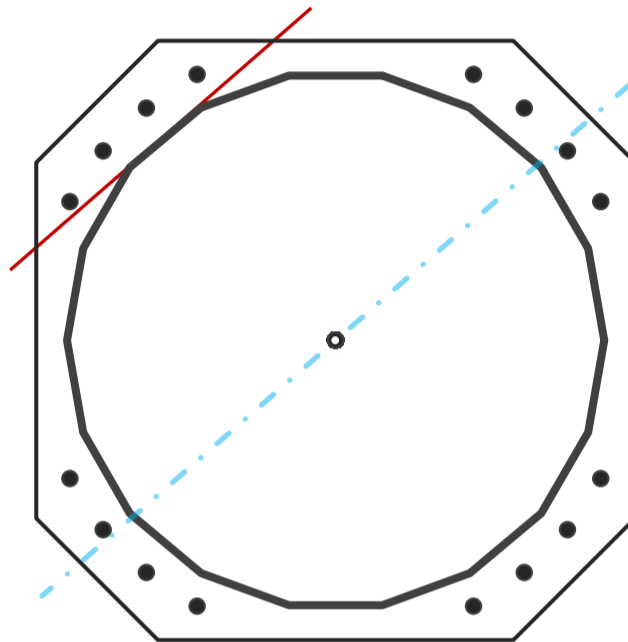
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	52.01	in
Thickness	3/8	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	2955.1	k-ft
Axial, Pu	48.8	k
Shear, Vu	25.4	k
Neutral Axis	41	°

Report Capacities		
Component	Capacity	Result
Base Plate	49%	Pass
Anchor Rods	63%	Pass
Dwyidag	-	-

Base Plate		
Shape	Square	-
Width	59	in
Thickness	2 3/4	in
Grade	A633 Gr. E	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Clip	12	in
Orientation Offset	0	°
Anchor Rod Detail	d	η=0.5
Clear Distance	3	in
Applied Moment, Mu	1564.4	k
Bending Stress, φMn	3195.9	k



Original Anchor Rods		
Arrangement	Cluster	-
Quantity	16	-
Diameter, φ	2 1/4	in
Bolt Circle	59	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	6.0	in
Orientation Offset	0	°
Applied Force, Pu	153.1	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	25.4	2955.1	1.00
Anchor Rod Forces	25.4	2955.1	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	60.5227	3.3624	0.1582		20173.34
Bolt	3.9761	3.2477	0.8393	4.5	22623.84
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	Square	-
Width, W	59	in
Thickness, t	2.75	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Base Plate Chord	27.856	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	59	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	153.1	k
Applied Shear, Vu	0.1	k
Compressive Capacity, ϕP_n	243.6	k
Tensile Capacity, ϕR_n	0.629	OK
Interaction Capacity	0.629	OK

External Base Plate

Chord Length AA	31.304	in
Additional AA	0.000	in
Section Modulus, Z	59.183	in ³
Applied Moment, Mu	1564.4	k-ft
Bending Capacity, ϕM_n	3195.9	k-ft
Capacity, Mu/ ϕM_n	0.490	OK

Chord Length AB	30.499	in
Additional AB	0.000	in
Section Modulus, Z	57.663	in ³
Applied Moment, Mu	1324.8	k-ft
Bending Capacity, ϕM_n	3113.8	k-ft
Capacity, Mu/ ϕM_n	0.425	OK

Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in ³
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		

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, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		

Exhibit E

Mount Analysis

June 29, 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: CT11821E
Site Name: CT821/D&B Flower Farm

ATC Designation: **ATC Site Number:** 243036
ATC Site Name: West Haven & RT 162 CT

Engineering Firm Designation: **TEP Project Number:** 87791.424445

Site Data: 668 Jones Hill Road, West Haven, New Haven County, CT 06516
Latitude $41^{\circ} 15' 23.04''$, Longitude $-72^{\circ} 58' 20.64''$
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}
120	1.0	50	B	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

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: Daniel Cisneros, E.I.

Respectfully submitted by:

Aaron T. Rucker, P.E.



06/29/2020

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.	143.0	143.0	3	Ericsson AIR6449 B41	Platform w/Support Rail	T-Mobile
			3	Ericsson AIR3246 B66		
			3	Ericsson AIR32 B66Aa/B2a		
			3	RFS APXVAARR24_43-U-NA20		
			3	Ericsson Radio 4449 B71 B85A		
			3	Ericsson RRUS 4415 B25		

Table 3 - Mount Component Stresses vs. Capacity

Notes	Component	% Capacity	Pass / Fail
-	Face Horizontal	12.6	Pass
-	Support Arm	76.4	Pass
	Internals	5.2	Pass
-	Support Rail	56.4	Pass
-	Support Rail Internals	83.6	Pass
-	Mount Pipe	60.4	Pass
-	Connection Bolts	33.9	Pass
-	Connection Plate	99.5	Pass

Structure Rating (max from all components) =	99.5%
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Table 4 - Documents Provided

Document	Remarks	Source
Mount Manufacturer Drawings	Sabre, dated July 20, 2000 Dwg. C10116003	ATC
Previous Mount Modification Design	CLS Engineering, dated July 3, 2019 Project No. 41124-12942675-01-MA-R1	ATC
Reference Photos	Site Photos from 2019	ATC

RECOMMENDATIONS

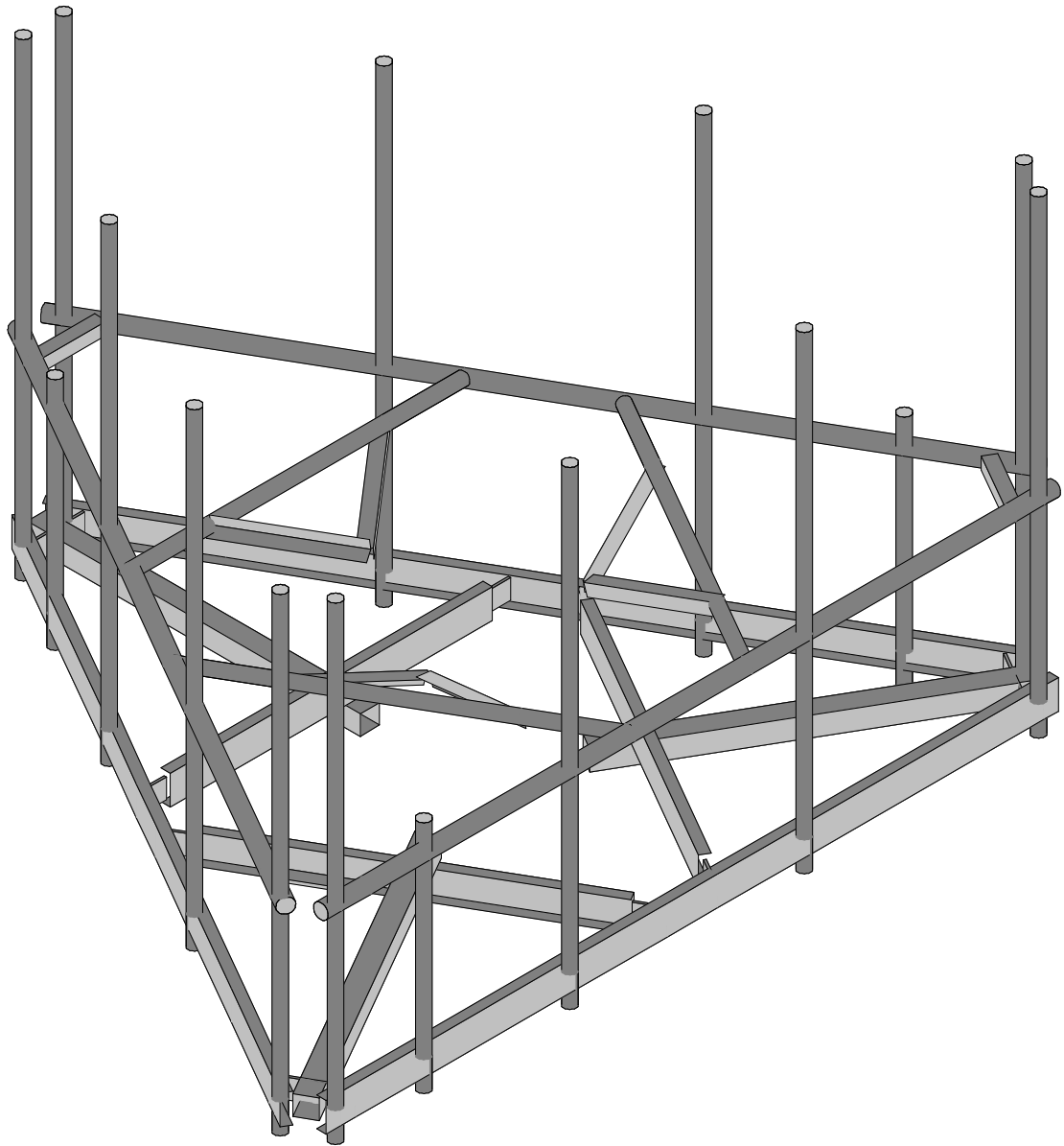
- 1) If the load differs from that described in Table 2 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required 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.
- 7) The proposed mount modifications depicted in the previous mount SA described in Table 4 were considered installed 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 Profess...

DC

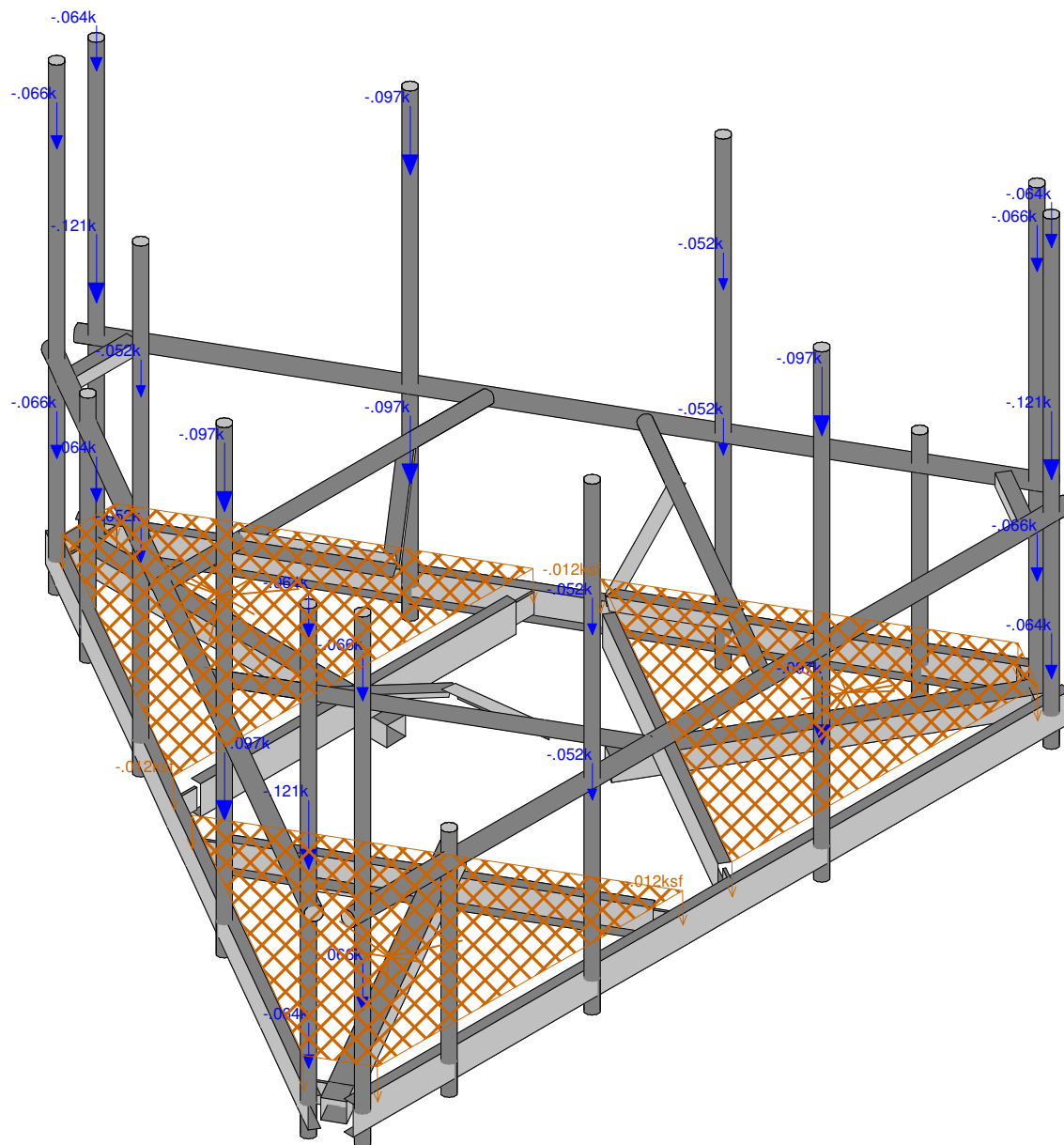
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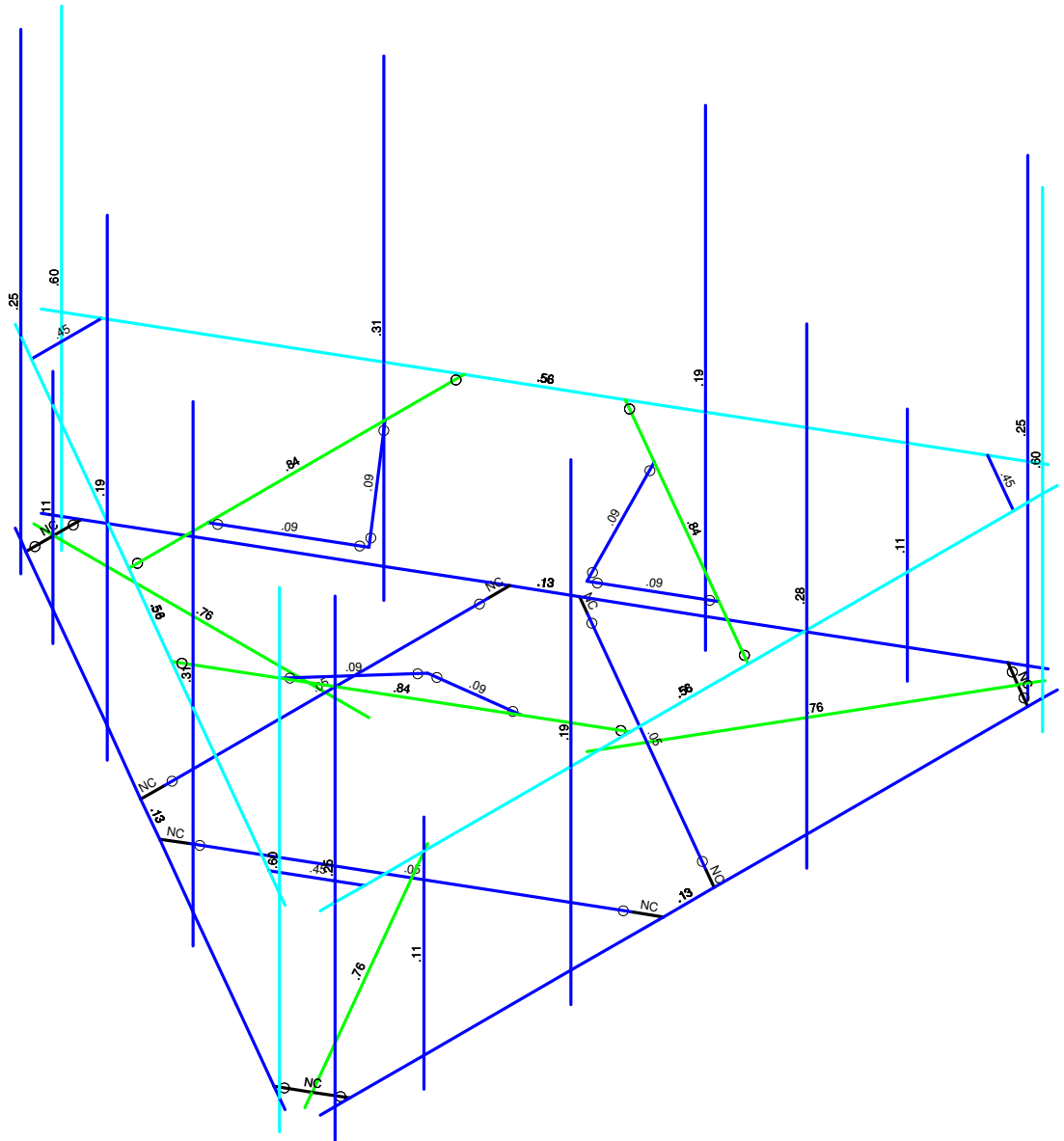
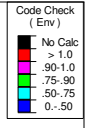
June 29, 2020 at 2:32 PM

243036 - West Haven & RT 162 CT ...



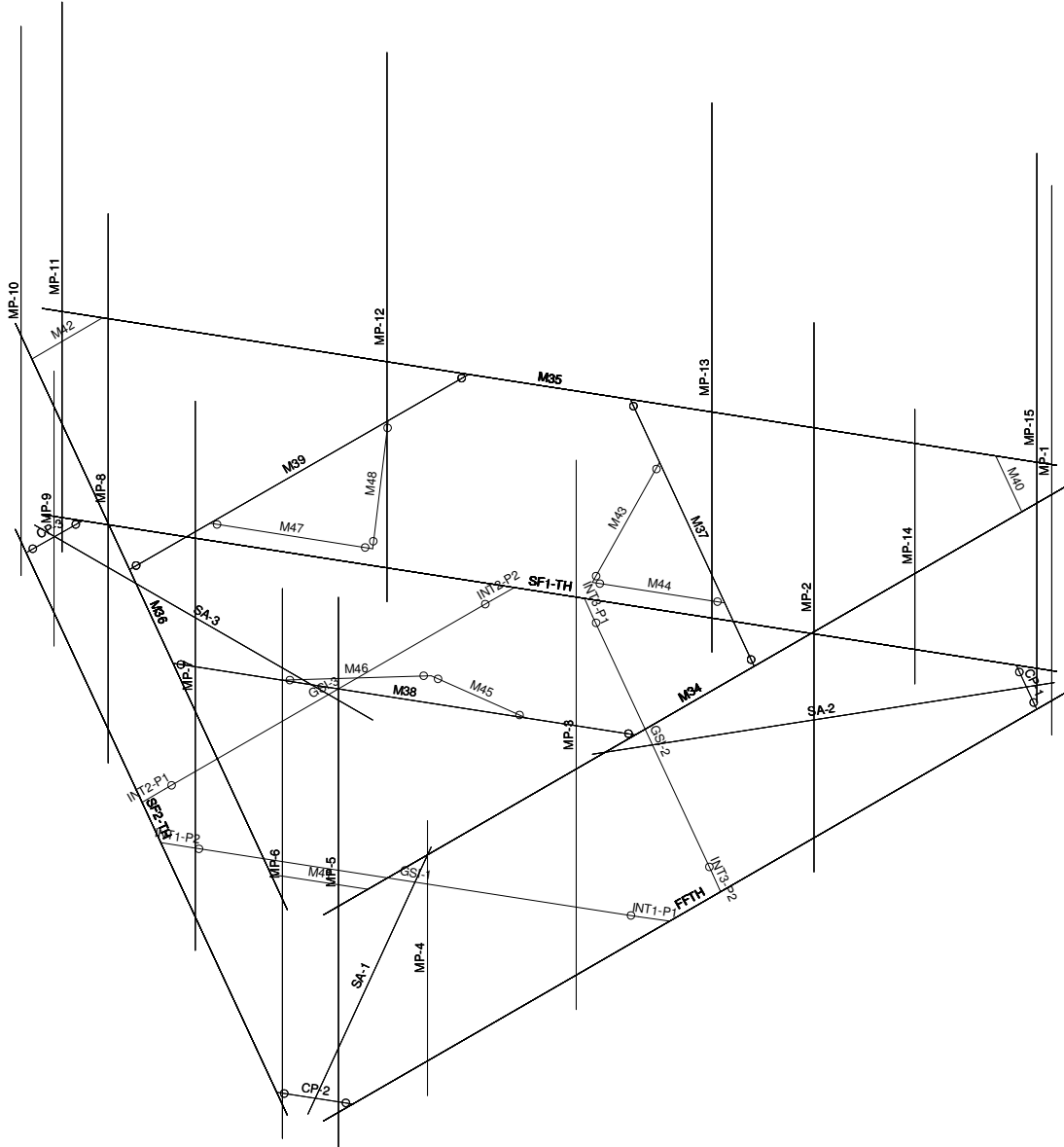
Loads: BLC 1, Dead
Envelope Only Solution

Tower Engineering Profess...	43036 - West Haven & RT 162 CT	SK - 2
DC		June 29, 2020 at 2:32 PM
TEP No. 87791.424445		243036 - West Haven & RT 162 CT ...



Member Code Checks Displayed (Enveloped)
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DC		June 29, 2020 at 2:32 PM
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DC

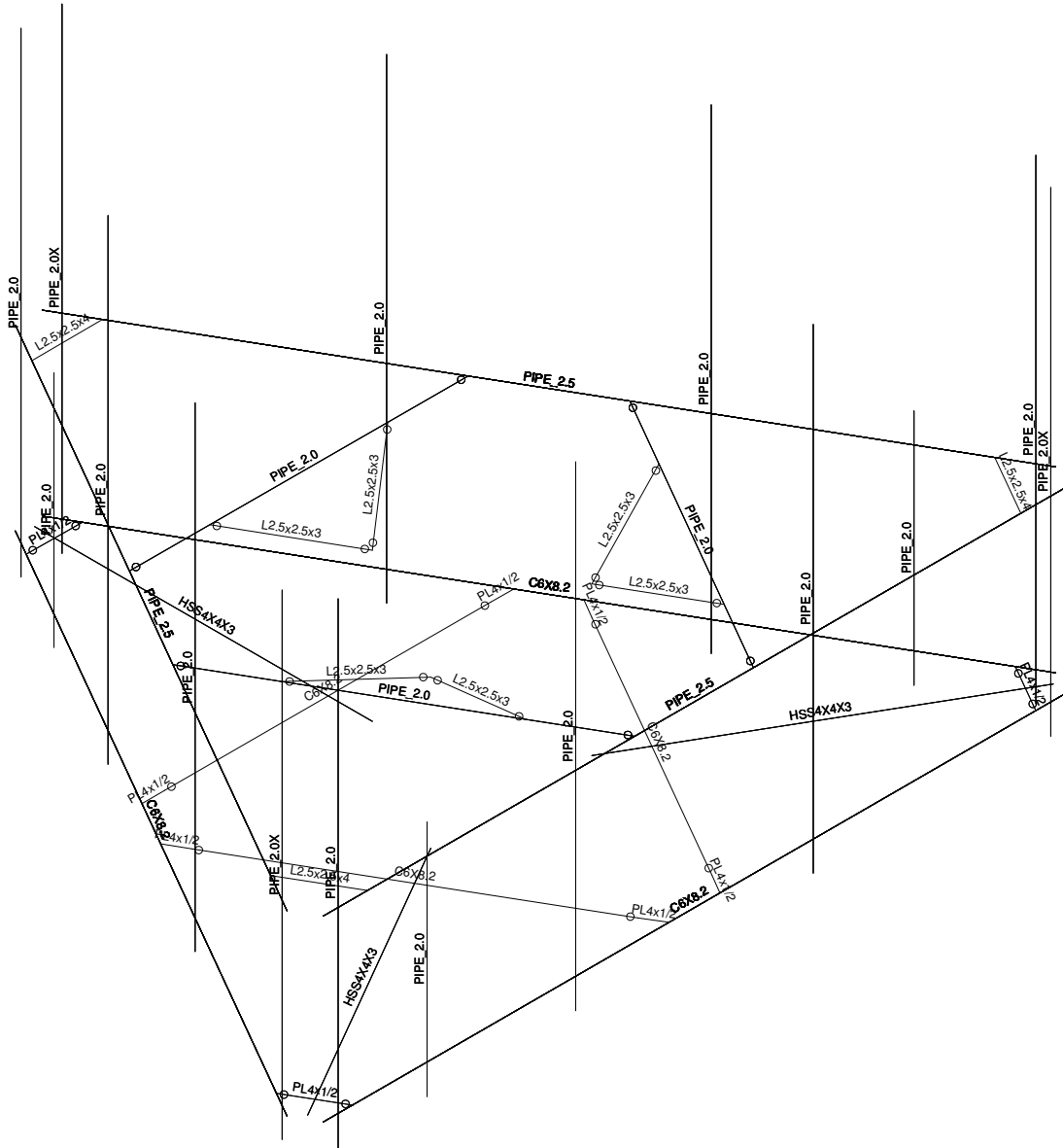
TEP No. 87791.424445

43036 - West Haven & RT 162 CT

SK - 4

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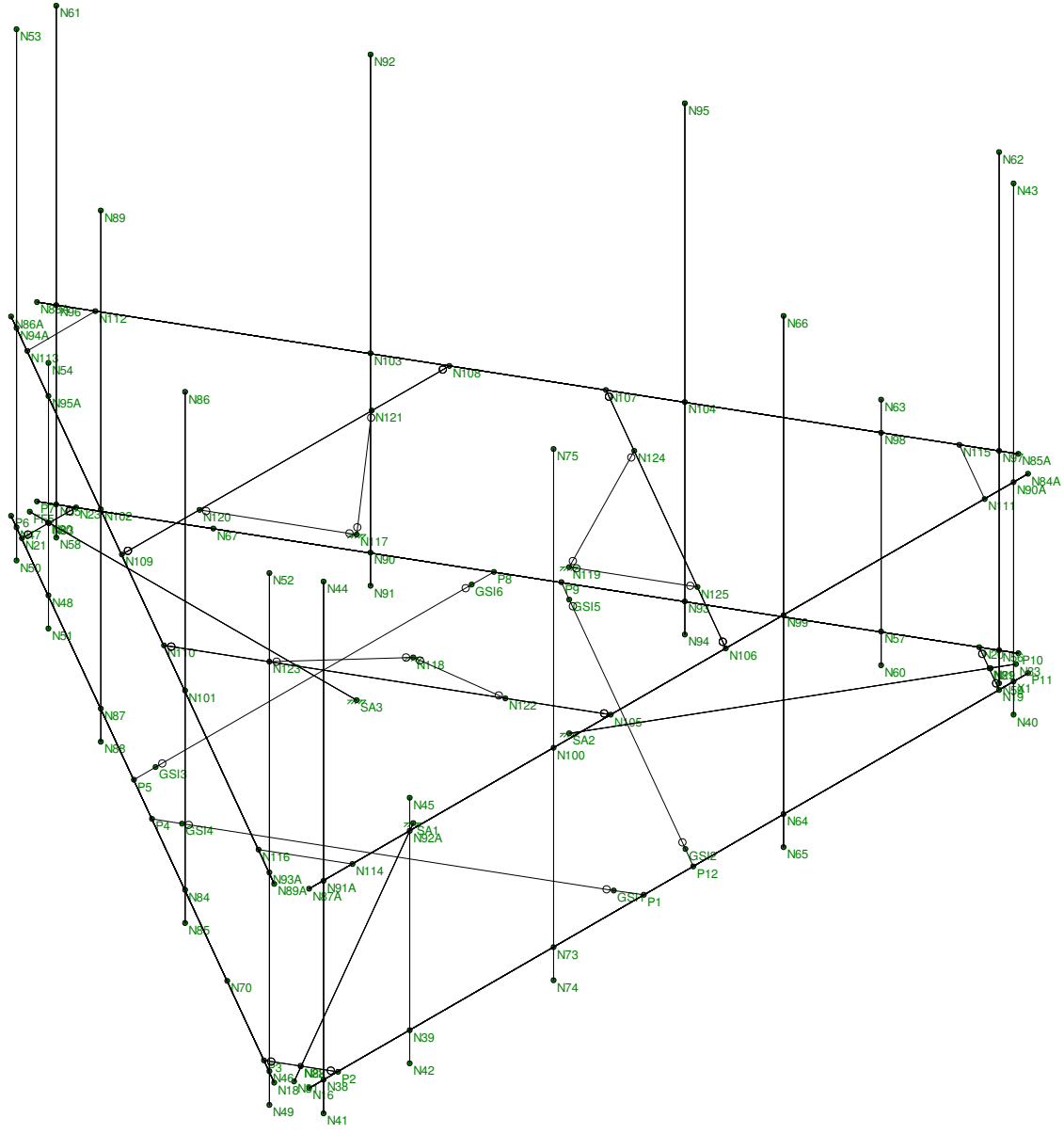
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SK - 5

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TEP No. 87791.424445

43036 - West Haven & RT 162 CT

SK - 6

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243036 - West Haven & RT 162 CT ...



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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(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	None
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
Parame Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
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



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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(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	E [ksi]	G [ksi]	Nu	Therm (1...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A500 Gr C	29000	11154	.3	.65	.49	50	1.4	62	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	C6X8.2	None	None	A36 Gr.36	Typical	2.39	.687	13.1	.074
2	Support Horizontal	HSS4X4X3	None	None	A500 Gr C	Typical	2.58	6.21	6.21	10
3	Internal	C6X8.2	None	None	A36 Gr.36	Typical	2.39	.687	13.1	.074
4	Corner Plate	PL4x1/2	None	None	A36 Gr.36	Typical	2	.042	2.667	.154
5	Internal Plate	PL4x1/2	None	None	A36 Gr.36	Typical	2	.042	2.667	.154
6	Mount Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Proposed Handrail	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
8	Proposed Handrail Inte...	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Proposed Handrail Co...	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Proposed Kickers	L2.5x2.5x3	None	None	A36 Gr.36	Typical	.901	.535	.535	.011
11	Proposed Mount Pipes	PIPE 2.0X	None	None	A53 Gr.B	Typical	1.4	.827	.827	1.65



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design R...
1	CP-1	N20	N19			Corner Plate	None	None	A36 Gr.36	Typical
2	CP-2	P2	P3			Corner Plate	None	None	A36 Gr.36	Typical
3	CP-3	N21	N23			Corner Plate	None	None	A36 Gr.36	Typical
4	FFTH	P11	N16			Face Horizontal	None	None	A36 Gr.36	Typical
5	GS1-1	GS11	GS14		180	Internal	None	None	A36 Gr.36	Typical
6	GS1-2	GS12	GS15			Internal	None	None	A36 Gr.36	Typical
7	GS1-3	GS13	GS16		180	Internal	None	None	A36 Gr.36	Typical
8	INT1-P1	P1	GS11			Internal Plate	None	None	A36 Gr.36	Typical
9	INT1-P2	P4	GS14			Internal Plate	None	None	A36 Gr.36	Typical
10	INT2-P1	P5	GS13			Internal Plate	None	None	A36 Gr.36	Typical
11	INT2-P2	P8	GS16			Internal Plate	None	None	A36 Gr.36	Typical
12	INT3-P1	P9	GS15			Internal Plate	None	None	A36 Gr.36	Typical
13	INT3-P2	P12	GS12			Internal Plate	None	None	A36 Gr.36	Typical
14	MP-1	N43	N40			Proposed Mount Pipes	None	None	A53 Gr.B	Typical
15	MP-2	N66	N65			Mount Pipe	None	None	A53 Gr.B	Typical
16	MP-3	N75	N74			Mount Pipe	None	None	A53 Gr.B	Typical
17	MP-4	N45	N42			Mount Pipe	None	None	A53 Gr.B	Typical
18	MP-5	N44	N41			Mount Pipe	None	None	A53 Gr.B	Typical
19	MP-6	N52	N49			Proposed Mount Pipes	None	None	A53 Gr.B	Typical
20	MP-7	N86	N85			Mount Pipe	None	None	A53 Gr.B	Typical
21	MP-8	N89	N88			Mount Pipe	None	None	A53 Gr.B	Typical
22	MP-9	N54	N51			Mount Pipe	None	None	A53 Gr.B	Typical
23	MP-10	N53	N50			Mount Pipe	None	None	A53 Gr.B	Typical
24	MP-11	N61	N58			Proposed Mount Pipes	None	None	A53 Gr.B	Typical
25	MP-12	N92	N91			Mount Pipe	None	None	A53 Gr.B	Typical
26	MP-13	N95	N94			Mount Pipe	None	None	A53 Gr.B	Typical
27	MP-14	N63	N60			Mount Pipe	None	None	A53 Gr.B	Typical
28	MP-15	N62	N59			Mount Pipe	None	None	A53 Gr.B	Typical
29	SA-1	SA1	N31			Support Horizontal	None	None	A500 Gr C	Typical
30	SA-2	SA2	N33			Support Horizontal	None	None	A500 Gr C	Typical
31	SA-3	SA3	FF5			Support Horizontal	None	None	A500 Gr C	Typical
32	SF1-TH	P10	P7		180	Face Horizontal	None	None	A36 Gr.36	Typical
33	SF2-TH	P6	N18		180	Face Horizontal	None	None	A36 Gr.36	Typical
34	M34	N84A	N87A			Proposed Handrail	None	None	A53 Gr.B	Typical
35	M35	N88A	N85A			Proposed Handrail	None	None	A53 Gr.B	Typical
36	M36	N86A	N89A			Proposed Handrail	None	None	A53 Gr.B	Typical
37	M37	N107	N106			Proposed Handrail Intern...	None	None	A53 Gr.B	Typical
38	M38	N105	N110			Proposed Handrail Intern...	None	None	A53 Gr.B	Typical
39	M39	N109	N108			Proposed Handrail Intern...	None	None	A53 Gr.B	Typical
40	M40	N115	N111		180	Proposed Handrail Conn...	None	None	A36 Gr.36	Typical
41	M41	N114	N116		180	Proposed Handrail Conn...	None	None	A36 Gr.36	Typical
42	M42	N113	N112		180	Proposed Handrail Conn...	None	None	A36 Gr.36	Typical
43	M43	N119	N124		90	Proposed Kickers	None	None	A36 Gr.36	Typical
44	M44	N119	N125		180	Proposed Kickers	None	None	A36 Gr.36	Typical
45	M45	N118	N122		90	Proposed Kickers	None	None	A36 Gr.36	Typical
46	M46	N118	N123		180	Proposed Kickers	None	None	A36 Gr.36	Typical
47	M47	N117	N120		90	Proposed Kickers	None	None	A36 Gr.36	Typical
48	M48	N117	N121		180	Proposed Kickers	None	None	A36 Gr.36	Typical



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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Member Advanced Data

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	CP-1	OOOXXO	OOOXXO				Yes	** NA **		Exclude	None
2	CP-2	OOOXXO	OOOXXO				Yes	** NA **		Exclude	None
3	CP-3	OOOXXO	OOOXXO				Yes	** NA **		Exclude	None
4	FFTH						Yes	** NA **			None
5	GS1-1	BenPIN	BenPIN				Yes	** NA **			None
6	GS1-2	BenPIN	BenPIN				Yes	** NA **			None
7	GS1-3	BenPIN	BenPIN				Yes	** NA **			None
8	INT1-P1						Yes	** NA **		Exclude	None
9	INT1-P2						Yes	** NA **		Exclude	None
10	INT2-P1						Yes	** NA **		Exclude	None
11	INT2-P2						Yes	** NA **		Exclude	None
12	INT3-P1						Yes	** NA **		Exclude	None
13	INT3-P2						Yes	** NA **		Exclude	None
14	MP-1						Yes	** NA **			None
15	MP-2						Yes	** NA **			None
16	MP-3						Yes	** NA **			None
17	MP-4						Yes	** NA **			None
18	MP-5						Yes	** NA **			None
19	MP-6						Yes	** NA **			None
20	MP-7						Yes	** NA **			None
21	MP-8						Yes	** NA **			None
22	MP-9						Yes	** NA **			None
23	MP-10						Yes	** NA **			None
24	MP-11						Yes	** NA **			None
25	MP-12						Yes	** NA **			None
26	MP-13						Yes	** NA **			None
27	MP-14						Yes	** NA **			None
28	MP-15						Yes	** NA **			None
29	SA-1						Yes	** NA **			None
30	SA-2						Yes	** NA **			None
31	SA-3						Yes	** NA **			None
32	SF1-TH						Yes	** NA **			None
33	SF2-TH						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	M37	BenPIN	BenPIN				Yes	** NA **			None
38	M38	BenPIN	BenPIN				Yes	** NA **			None
39	M39	BenPIN	BenPIN				Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43	BenPIN	BenPIN				Yes	** NA **			None
44	M44	BenPIN	BenPIN				Yes	** NA **			None
45	M45	BenPIN	BenPIN				Yes	** NA **			None
46	M46	BenPIN	BenPIN				Yes	** NA **			None
47	M47	BenPIN	BenPIN				Yes	** NA **			None
48	M48	BenPIN	BenPIN				Yes	** NA **			None



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 Job Number : TEP No. 87791.424445
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Hot Rolled Steel Design Parameters

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top...	Lcomp bot...	L-torq...	Kyy	Kzz	Cb	Funct...
1	CP-1	Corner Plate	.941					1	1		Lateral
2	CP-2	Corner Plate	.941					1	1		Lateral
3	CP-3	Corner Plate	.941					1	1		Lateral
4	FFTH	Face Horizontal	12.5	5.819				2.1	2.1		Lateral
5	GSI-1	Internal	5.5					1	1		Lateral
6	GSI-2	Internal	5.5					1	1		Lateral
7	GSI-3	Internal	5.5					1	1		Lateral
8	INT1-P1	Internal Plate	.38					.8	.8		Lateral
9	INT1-P2	Internal Plate	.38					.8	.8		Lateral
10	INT2-P1	Internal Plate	.38					.8	.8		Lateral
11	INT2-P2	Internal Plate	.38					.8	.8		Lateral
12	INT3-P1	Internal Plate	.38					.8	.8		Lateral
13	INT3-P2	Internal Plate	.38					.8	.8		Lateral
14	MP-1	Proposed Mount Pl...	8	Segment	Segment			2.1	2.1		Lateral
15	MP-2	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
16	MP-3	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
17	MP-4	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
18	MP-5	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
19	MP-6	Proposed Mount Pl...	8	Segment	Segment			2.1	2.1		Lateral
20	MP-7	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
21	MP-8	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
22	MP-9	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
23	MP-10	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
24	MP-11	Proposed Mount Pl...	8	Segment	Segment			2.1	2.1		Lateral
25	MP-12	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
26	MP-13	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
27	MP-14	Mount Pipe	4	Segment	Segment			2.1	2.1		Lateral
28	MP-15	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
29	SA-1	Support Horizontal	5.687					2.1	2.1		Lateral
30	SA-2	Support Horizontal	5.687					2.1	2.1		Lateral
31	SA-3	Support Horizontal	5.688					2.1	2.1		Lateral
32	SF1-TH	Face Horizontal	12.5	5.819				2.1	2.1		Lateral
33	SF2-TH	Face Horizontal	12.5	5.819				2.1	2.1		Lateral
34	M34	Proposed Handrail	12.5					2.1	2.1		Lateral
35	M35	Proposed Handrail	12.5					2.1	2.1		Lateral
36	M36	Proposed Handrail	12.5					2.1	2.1		Lateral
37	M37	Proposed Handrail ..	5.691					1	1		Lateral
38	M38	Proposed Handrail ...	5.691					1	1		Lateral
39	M39	Proposed Handrail ...	5.691					1	1		Lateral
40	M40	Proposed Handrail ...	1.191					.65	.65		Lateral
41	M41	Proposed Handrail ...	1.191					.65	.65		Lateral
42	M42	Proposed Handrail ...	1.191					.65	.65		Lateral
43	M43	Proposed Kickers	2.006					1	1		Lateral
44	M44	Proposed Kickers	2.006					1	1		Lateral
45	M45	Proposed Kickers	2.006					1	1		Lateral
46	M46	Proposed Kickers	2.006					1	1		Lateral
47	M47	Proposed Kickers	2.006					1	1		Lateral
48	M48	Proposed Kickers	2.006					1	1		Lateral



Company : Tower Engineering Professionals, Inc.
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 Model Name : 43036 - West Haven & RT 162 CT

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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	SA3	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA1	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA2	Reaction	Reaction	Reaction	Reaction	Reaction
4	N117	Reaction	Reaction	Reaction	Reaction	Reaction
5	N118	Reaction	Reaction	Reaction	Reaction	Reaction
6	N119	Reaction	Reaction	Reaction	Reaction	Reaction

Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1	Dead	None	-1			30	3	
2	0 Wind - No Ice	None				30	48	
3	30 Wind - No Ice	None				60	96	
4	45 Wind - No Ice	None				60	96	
5	60 Wind - No Ice	None				60	96	
6	90 Wind - No Ice	None				30	48	
7	120 Wind - No Ice	None				60	96	
8	135 Wind - No Ice	None				60	96	
9	150 Wind - No Ice	None				60	96	
10	180 Wind - No Ice	None				30	48	
11	210 Wind - No Ice	None				60	96	
12	225 Wind - No Ice	None				60	96	
13	240 Wind - No Ice	None				60	96	
14	270 Wind - No Ice	None				30	48	
15	300 Wind - No Ice	None				60	96	
16	315 Wind - No Ice	None				60	96	
17	330 Wind - No Ice	None				60	96	
18	Ice Weight	None				30	48	3
19	0 Wind - Ice	None				30	48	
20	30 Wind - Ice	None				60	96	
21	45 Wind - Ice	None				60	96	
22	60 Wind - Ice	None				60	96	
23	90 Wind - Ice	None				30	48	
24	120 Wind - Ice	None				60	96	
25	135 Wind - Ice	None				60	96	
26	150 Wind - Ice	None				60	96	
27	180 Wind - Ice	None				30	48	
28	210 Wind - Ice	None				60	96	
29	225 Wind - Ice	None				60	96	
30	240 Wind - Ice	None				60	96	
31	270 Wind - Ice	None				30	48	
32	300 Wind - Ice	None				60	96	
33	315 Wind - Ice	None				60	96	
34	330 Wind - Ice	None				60	96	
35	Lm	None			1			
36	Lv	None			1			
37	BLC 1 Transient Area...	None					66	
38	BLC 18 Transient Are...	None					66	



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Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	FF5	-7.25	0	0	0	
2	SA3	-1.5625	0	0	0	
3	GSI1	3.533833	0	0.620778	0	
4	GSI2	3.533833	0	-0.620778	0	
5	GSI3	-2.304526	0	2.75	0	
6	GSI4	-1.229307	0	3.370778	0	
7	GSI5	-1.229307	0	-3.370778	0	
8	GSI6	-2.304526	0	-2.75	0	
9	P11	3.863103	0	-6.25	0	
10	P10	3.481107	0	-6.470546	0	
11	P6	-7.34421	0	0.220546	0	
12	N16	3.863103	0	6.25	0	
13	P7	-7.34421	0	-0.220546	0	
14	N18	3.481107	0	6.470546	0	
15	N19	3.863103	0	-5.75	0	
16	N20	3.048094	0	-6.220546	0	
17	N21	-6.911198	0	0.470546	0	
18	P2	3.863103	0	5.75	0	
19	N23	-6.911198	0	-0.470546	0	
20	P3	3.048095	0	6.220546	0	
21	N28	3.464102	0	6.	0	
22	N29	3.464102	0	-6.	0	
23	N30	-6.928203	0	0	0	
24	N31	3.625	0	6.278684	0	
25	SA1	0.78125	0	1.353165	0	
26	N33	3.625	0	-6.278684	0	
27	SA2	0.78125	0	-1.353165	0	
28	P5	-2.304526	0	3.130209	0	
29	P8	-2.304526	0	-3.130209	0	
30	P1	3.863103	0	0.430673	0	
31	P4	-1.558578	0	3.560882	0	
32	P9	-1.558578	0	-3.560882	0	
33	P12	3.863103	0	-0.430673	0	
34	X1	3.863103	0	-6	0	
35	N38	3.863103	0	6	0	
36	N39	3.863103	0	4.5	0	
37	N40	3.863103	-5	-6	0	
38	N41	3.863103	-5	6	0	
39	N42	3.863103	-5	4.5	0	
40	N43	3.863103	7.5	-6	0	
41	N44	3.863103	7.5	6	0	
42	N45	3.863103	3.5	4.5	0	
43	N46	3.264601	0	6.345546	0	
44	N47	-7.127704	0	0.345546	0	
45	N48	-5.828666	0	1.095546	0	
46	N49	3.264601	-5	6.345546	0	
47	N50	-7.127704	-5	0.345546	0	
48	N51	-5.828666	-5	1.095546	0	
49	N52	3.264601	7.5	6.345546	0	
50	N53	-7.127704	7.5	0.345546	0	
51	N54	-5.828666	3.5	1.095546	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N55	-7.127704	0	-0.345546	0	
53	N56	3.264601	0	-6.345546	0	
54	N57	1.965563	0	-5.595546	0	
55	N58	-7.127704	-5	-0.345546	0	
56	N59	3.264601	-5	-6.345546	0	
57	N60	1.965563	-5	-5.595546	0	
58	N61	-7.127704	7.5	-0.345546	0	
59	N62	3.264601	7.5	-6.345546	0	
60	N63	1.965563	3.5	-5.595546	0	
61	N64	3.863103	0	-2	0	
62	N65	3.863103	-5	-2	0	
63	N66	3.863103	7.5	-2	0	
64	N67	-5.395653	0	-1.345546	0	
65	N70	1.53255	0	5.345546	0	
66	N73	3.863103	0	2	0	
67	N74	3.863103	-5	2	0	
68	N75	3.863103	7.5	2	0	
69	N84	-0.199501	0	4.345546	0	
70	N85	-0.199501	-5	4.345546	0	
71	N86	-0.199501	7.5	4.345546	0	
72	N87	-3.663602	0	2.345546	0	
73	N88	-3.663602	-5	2.345546	0	
74	N89	-3.663602	7.5	2.345546	0	
75	N90	-3.663602	0	-2.345546	0	
76	N91	-3.663602	-5	-2.345546	0	
77	N92	-3.663602	7.5	-2.345546	0	
78	N93	-0.199501	0	-4.345546	0	
79	N94	-0.199501	-5	-4.345546	0	
80	N95	-0.199501	7.5	-4.345546	0	
81	N81	3.455599	0	-5.985273	0	
82	N82	3.455599	0	5.985273	0	
83	N83	-6.911198	0	-0.	0	
84	N84A	3.863103	3	-6.25	0	
85	N85A	3.481107	3	-6.470546	0	
86	N86A	-7.34421	3	0.220546	0	
87	N87A	3.863103	3	6.25	0	
88	N88A	-7.34421	3	-0.220546	0	
89	N89A	3.481107	3	6.470546	0	
90	N90A	3.863103	3	-6	0	
91	N91A	3.863103	3	6	0	
92	N92A	3.863103	3	4.5	0	
93	N93A	3.264601	3	6.345546	0	
94	N94A	-7.127704	3	0.345546	0	
95	N95A	-5.828666	3	1.095546	0	
96	N96	-7.127704	3	-0.345546	0	
97	N97	3.264601	3	-6.345546	0	
98	N98	1.965563	3	-5.595546	0	
99	N99	3.863103	3	-2	0	
100	N100	3.863103	3	2	0	
101	N101	-0.199501	3	4.345546	0	
102	N102	-3.663602	3	2.345546	0	
103	N103	-3.663602	3	-2.345546	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
104	N104	-0.199501	3	-4.345546	0	
105	N105	3.863103	3	1	0	
106	N106	3.863103	3	-1	0	
107	N107	-1.065526	3	-3.845545	0	
108	N108	-2.797577	3	-2.845545	0	
109	N109	-2.797577	3	2.845545	0	
110	N110	-1.065526	3	3.845545	0	
111	N111	3.863103	3	-5.5	0	
112	N112	-6.694691	3	-0.595546	0	
113	N113	-6.694691	3	0.595546	0	
114	N114	3.863103	3	5.5	0	
115	N115	2.831588	3	-6.095546	0	
116	N116	2.831589	3	6.095546	0	
117	N117	-1.5625	2.5	0	0	
118	N118	0.78125	2.5	1.353165	0	
119	N119	0.78125	2.5	-1.353165	0	
120	N120	-2.797577	3	1.5	0	
121	N121	-2.797577	3	-1.5	0	
122	N122	2.697827	3	1.672773	0	
123	N123	0.09975	3	3.172773	0	
124	N124	0.09975	3	-3.172773	0	
125	N125	2.697827	3	-1.672773	0	

Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft, k*s^2*ft)]
1	X1	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, k*s^2*ft)]
1	P11	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP-1	Y	-.064	.5
2	MP-1	Y	-.075	4
3	MP-1	Y	-.046	4
4	MP-2	Y	-.097	1.333
5	MP-3	Y	-.052	2.333
6	MP-5	Y	-.066	1.333
7	MP-6	Y	-.064	.5
8	MP-6	Y	-.075	4
9	MP-6	Y	-.046	4
10	MP-7	Y	-.097	1.333
11	MP-8	Y	-.052	2.333
12	MP-10	Y	-.066	1.333
13	MP-11	Y	-.064	.5
14	MP-11	Y	-.075	4
15	MP-11	Y	-.046	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
16	MP-12	Y	-.097	1.333
17	MP-13	Y	-.052	2.333
18	MP-15	Y	-.066	1.333
19	MP-1	Y	-.064	7
20	MP-2	Y	-.097	6
21	MP-3	Y	-.052	4.833
22	MP-5	Y	-.066	6
23	MP-6	Y	-.064	7
24	MP-7	Y	-.097	6
25	MP-8	Y	-.052	4.833
26	MP-10	Y	-.066	6
27	MP-11	Y	-.064	7
28	MP-12	Y	-.097	6
29	MP-13	Y	-.052	4.833
30	MP-15	Y	-.066	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP-1	X	-.33	.5
2	MP-1	X	-.043	4
3	MP-1	X	-.022	4
4	MP-2	X	-.129	1.333
5	MP-3	X	-.093	2.333
6	MP-5	X	-.106	1.333
7	MP-6	X	-.191	.5
8	MP-6	X	-.051	4
9	MP-6	X	-.046	4
10	MP-7	X	-.096	1.333
11	MP-8	X	-.054	2.333
12	MP-10	X	-.084	1.333
13	MP-11	X	-.191	.5
14	MP-11	X	-.051	4
15	MP-11	X	-.046	4
16	MP-12	X	-.096	1.333
17	MP-13	X	-.054	2.333
18	MP-15	X	-.084	1.333
19	MP-1	X	-.33	7
20	MP-2	X	-.129	6
21	MP-3	X	-.093	4.833
22	MP-5	X	-.106	6
23	MP-6	X	-.191	7
24	MP-7	X	-.096	6
25	MP-8	X	-.054	4.833
26	MP-10	X	-.084	6
27	MP-11	X	-.191	7
28	MP-12	X	-.096	6
29	MP-13	X	-.054	4.833
30	MP-15	X	-.084	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
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Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)
1	MP-1	X	-.246	.5
2	MP-1	X	-.039	4
3	MP-1	X	-.026	4
4	MP-2	X	-.102	1.333
5	MP-3	X	-.069	2.333
6	MP-5	X	-.086	1.333
7	MP-6	X	-.126	.5
8	MP-6	X	-.047	4
9	MP-6	X	-.047	4
10	MP-7	X	-.073	1.333
11	MP-8	X	-.035	2.333
12	MP-10	X	-.067	1.333
13	MP-11	X	-.246	.5
14	MP-11	X	-.039	4
15	MP-11	X	-.026	4
16	MP-12	X	-.102	1.333
17	MP-13	X	-.069	2.333
18	MP-15	X	-.086	1.333
19	MP-1	X	-.246	7
20	MP-2	X	-.102	6
21	MP-3	X	-.069	4.833
22	MP-5	X	-.086	6
23	MP-6	X	-.126	7
24	MP-7	X	-.073	6
25	MP-8	X	-.035	4.833
26	MP-10	X	-.067	6
27	MP-11	X	-.246	7
28	MP-12	X	-.102	6
29	MP-13	X	-.069	4.833
30	MP-15	X	-.086	6
31	MP-1	Z	-.142	.5
32	MP-1	Z	-.023	4
33	MP-1	Z	-.015	4
34	MP-2	Z	-.059	1.333
35	MP-3	Z	-.04	2.333
36	MP-5	Z	-.049	1.333
37	MP-6	Z	-.072	.5
38	MP-6	Z	-.027	4
39	MP-6	Z	-.027	4
40	MP-7	Z	-.042	1.333
41	MP-8	Z	-.02	2.333
42	MP-10	Z	-.038	1.333
43	MP-11	Z	-.142	.5
44	MP-11	Z	-.023	4
45	MP-11	Z	-.015	4
46	MP-12	Z	-.059	1.333
47	MP-13	Z	-.04	2.333
48	MP-15	Z	-.049	1.333
49	MP-1	Z	-.142	7
50	MP-2	Z	-.059	6
51	MP-3	Z	-.04	4.833
52	MP-5	Z	-.049	6



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

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)
53	MP-6	Z	-.072	7
54	MP-7	Z	-.042	6
55	MP-8	Z	-.02	4.833
56	MP-10	Z	-.038	6
57	MP-11	Z	-.142	7
58	MP-12	Z	-.059	6
59	MP-13	Z	-.04	4.833
60	MP-15	Z	-.049	6

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

	Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)
1	MP-1	X	-.168	.5
2	MP-1	X	-.034	4
3	MP-1	X	-.027	4
4	MP-2	X	-.076	1.333
5	MP-3	X	-.047	2.333
6	MP-5	X	-.065	1.333
7	MP-6	X	-.111	.5
8	MP-6	X	-.038	4
9	MP-6	X	-.037	4
10	MP-7	X	-.062	1.333
11	MP-8	X	-.031	2.333
12	MP-10	X	-.056	1.333
13	MP-11	X	-.225	.5
14	MP-11	X	-.031	4
15	MP-11	X	-.017	4
16	MP-12	X	-.089	1.333
17	MP-13	X	-.063	2.333
18	MP-15	X	-.074	1.333
19	MP-1	X	-.168	7
20	MP-2	X	-.076	6
21	MP-3	X	-.047	4.833
22	MP-5	X	-.065	6
23	MP-6	X	-.111	7
24	MP-7	X	-.062	6
25	MP-8	X	-.031	4.833
26	MP-10	X	-.056	6
27	MP-11	X	-.225	7
28	MP-12	X	-.089	6
29	MP-13	X	-.063	4.833
30	MP-15	X	-.074	6
31	MP-1	Z	-.168	.5
32	MP-1	Z	-.034	4
33	MP-1	Z	-.027	4
34	MP-2	Z	-.076	1.333
35	MP-3	Z	-.047	2.333
36	MP-5	Z	-.065	1.333
37	MP-6	Z	-.111	.5
38	MP-6	Z	-.038	4
39	MP-6	Z	-.037	4
40	MP-7	Z	-.062	1.333



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
41	MP-8	Z	-0.31	2.333
42	MP-10	Z	-0.56	1.333
43	MP-11	Z	-0.225	.5
44	MP-11	Z	-0.31	4
45	MP-11	Z	-0.17	4
46	MP-12	Z	-0.089	1.333
47	MP-13	Z	-0.63	2.333
48	MP-15	Z	-0.74	1.333
49	MP-1	Z	-0.168	7
50	MP-2	Z	-0.76	6
51	MP-3	Z	-0.47	4.833
52	MP-5	Z	-0.65	6
53	MP-6	Z	-0.111	7
54	MP-7	Z	-0.62	6
55	MP-8	Z	-0.31	4.833
56	MP-10	Z	-0.56	6
57	MP-11	Z	-0.225	7
58	MP-12	Z	-0.089	6
59	MP-13	Z	-0.63	4.833
60	MP-15	Z	-0.74	6

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-0.96	.5
2	MP-1	X	-0.26	4
3	MP-1	X	-0.23	4
4	MP-2	X	-0.48	1.333
5	MP-3	X	-0.27	2.333
6	MP-5	X	-0.42	1.333
7	MP-6	X	-0.96	.5
8	MP-6	X	-0.26	4
9	MP-6	X	-0.23	4
10	MP-7	X	-0.48	1.333
11	MP-8	X	-0.27	2.333
12	MP-10	X	-0.42	1.333
13	MP-11	X	-0.165	.5
14	MP-11	X	-0.21	4
15	MP-11	X	-0.11	4
16	MP-12	X	-0.65	1.333
17	MP-13	X	-0.46	2.333
18	MP-15	X	-0.53	1.333
19	MP-1	X	-0.96	7
20	MP-2	X	-0.48	6
21	MP-3	X	-0.27	4.833
22	MP-5	X	-0.42	6
23	MP-6	X	-0.96	7
24	MP-7	X	-0.48	6
25	MP-8	X	-0.27	4.833
26	MP-10	X	-0.42	6
27	MP-11	X	-0.165	7
28	MP-12	X	-0.65	6



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
29	MP-13	X	-0.46	4.833
30	MP-15	X	-0.53	6
31	MP-1	Z	-0.166	.5
32	MP-1	Z	-0.44	4
33	MP-1	Z	-0.4	4
34	MP-2	Z	-0.83	1.333
35	MP-3	Z	-0.46	2.333
36	MP-5	Z	-0.73	1.333
37	MP-6	Z	-0.166	.5
38	MP-6	Z	-0.44	4
39	MP-6	Z	-0.4	4
40	MP-7	Z	-0.83	1.333
41	MP-8	Z	-0.46	2.333
42	MP-10	Z	-0.73	1.333
43	MP-11	Z	-0.286	.5
44	MP-11	Z	-0.37	4
45	MP-11	Z	-0.19	4
46	MP-12	Z	-0.112	1.333
47	MP-13	Z	-0.8	2.333
48	MP-15	Z	-0.92	1.333
49	MP-1	Z	-0.166	7
50	MP-2	Z	-0.83	6
51	MP-3	Z	-0.46	4.833
52	MP-5	Z	-0.73	6
53	MP-6	Z	-0.166	7
54	MP-7	Z	-0.83	6
55	MP-8	Z	-0.46	4.833
56	MP-10	Z	-0.73	6
57	MP-11	Z	-0.286	7
58	MP-12	Z	-0.112	6
59	MP-13	Z	-0.8	4.833
60	MP-15	Z	-0.92	6

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Z	-0.145	.5
2	MP-1	Z	-0.054	4
3	MP-1	Z	-0.054	4
4	MP-2	Z	-0.084	1.333
5	MP-3	Z	-0.041	2.333
6	MP-5	Z	-0.77	1.333
7	MP-6	Z	-0.284	.5
8	MP-6	Z	-0.46	4
9	MP-6	Z	-0.03	4
10	MP-7	Z	-0.118	1.333
11	MP-8	Z	-0.8	2.333
12	MP-10	Z	-0.099	1.333
13	MP-11	Z	-0.284	.5
14	MP-11	Z	-0.046	4
15	MP-11	Z	-0.03	4
16	MP-12	Z	-0.118	1.333



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
17	MP-13	Z	-08	2.333
18	MP-15	Z	-099	1.333
19	MP-1	Z	-145	7
20	MP-2	Z	-084	6
21	MP-3	Z	-041	4.833
22	MP-5	Z	-077	6
23	MP-6	Z	-284	7
24	MP-7	Z	-118	6
25	MP-8	Z	-08	4.833
26	MP-10	Z	-099	6
27	MP-11	Z	-284	7
28	MP-12	Z	-118	6
29	MP-13	Z	-08	4.833
30	MP-15	Z	-099	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	.096	.5
2	MP-1	X	.026	4
3	MP-1	X	.023	4
4	MP-2	X	.048	1.333
5	MP-3	X	.027	2.333
6	MP-5	X	.042	1.333
7	MP-6	X	.165	.5
8	MP-6	X	.021	4
9	MP-6	X	.011	4
10	MP-7	X	.065	1.333
11	MP-8	X	.046	2.333
12	MP-10	X	.053	1.333
13	MP-11	X	.096	.5
14	MP-11	X	.026	4
15	MP-11	X	.023	4
16	MP-12	X	.048	1.333
17	MP-13	X	.027	2.333
18	MP-15	X	.042	1.333
19	MP-1	X	.096	7
20	MP-2	X	.048	6
21	MP-3	X	.027	4.833
22	MP-5	X	.042	6
23	MP-6	X	.165	7
24	MP-7	X	.065	6
25	MP-8	X	.046	4.833
26	MP-10	X	.053	6
27	MP-11	X	.096	7
28	MP-12	X	.048	6
29	MP-13	X	.027	4.833
30	MP-15	X	.042	6
31	MP-1	Z	-.166	.5
32	MP-1	Z	-.044	4
33	MP-1	Z	-.04	4
34	MP-2	Z	-.083	1.333



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
35	MP-3	Z	-.046	2.333
36	MP-5	Z	-.073	1.333
37	MP-6	Z	-.286	.5
38	MP-6	Z	-.037	4
39	MP-6	Z	-.019	4
40	MP-7	Z	-.112	1.333
41	MP-8	Z	-.08	2.333
42	MP-10	Z	-.092	1.333
43	MP-11	Z	-.166	.5
44	MP-11	Z	-.044	4
45	MP-11	Z	-.04	4
46	MP-12	Z	-.083	1.333
47	MP-13	Z	-.046	2.333
48	MP-15	Z	-.073	1.333
49	MP-1	Z	-.166	7
50	MP-2	Z	-.083	6
51	MP-3	Z	-.046	4.833
52	MP-5	Z	-.073	6
53	MP-6	Z	-.286	7
54	MP-7	Z	-.112	6
55	MP-8	Z	-.08	4.833
56	MP-10	Z	-.092	6
57	MP-11	Z	-.166	7
58	MP-12	Z	-.083	6
59	MP-13	Z	-.046	4.833
60	MP-15	Z	-.073	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	.168	.5
2	MP-1	X	.034	4
3	MP-1	X	.027	4
4	MP-2	X	.076	1.333
5	MP-3	X	.047	2.333
6	MP-5	X	.065	1.333
7	MP-6	X	.225	.5
8	MP-6	X	.031	4
9	MP-6	X	.017	4
10	MP-7	X	.089	1.333
11	MP-8	X	.063	2.333
12	MP-10	X	.074	1.333
13	MP-11	X	.111	.5
14	MP-11	X	.038	4
15	MP-11	X	.037	4
16	MP-12	X	.062	1.333
17	MP-13	X	.031	2.333
18	MP-15	X	.056	1.333
19	MP-1	X	.168	7
20	MP-2	X	.076	6
21	MP-3	X	.047	4.833
22	MP-5	X	.065	6



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
23	MP-6	X	.225	7
24	MP-7	X	.089	6
25	MP-8	X	.063	4.833
26	MP-10	X	.074	6
27	MP-11	X	.111	7
28	MP-12	X	.062	6
29	MP-13	X	.031	4.833
30	MP-15	X	.056	6
31	MP-1	Z	-.168	.5
32	MP-1	Z	-.034	4
33	MP-1	Z	-.027	4
34	MP-2	Z	-.076	1.333
35	MP-3	Z	-.047	2.333
36	MP-5	Z	-.065	1.333
37	MP-6	Z	-.225	.5
38	MP-6	Z	-.031	4
39	MP-6	Z	-.017	4
40	MP-7	Z	-.089	1.333
41	MP-8	Z	-.063	2.333
42	MP-10	Z	-.074	1.333
43	MP-11	Z	-.111	.5
44	MP-11	Z	-.038	4
45	MP-11	Z	-.037	4
46	MP-12	Z	-.062	1.333
47	MP-13	Z	-.031	2.333
48	MP-15	Z	-.056	1.333
49	MP-1	Z	-.168	7
50	MP-2	Z	-.076	6
51	MP-3	Z	-.047	4.833
52	MP-5	Z	-.065	6
53	MP-6	Z	-.225	7
54	MP-7	Z	-.089	6
55	MP-8	Z	-.063	4.833
56	MP-10	Z	-.074	6
57	MP-11	Z	-.111	7
58	MP-12	Z	-.062	6
59	MP-13	Z	-.031	4.833
60	MP-15	Z	-.056	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	.246	.5
2	MP-1	X	.039	4
3	MP-1	X	.026	4
4	MP-2	X	.102	1.333
5	MP-3	X	.069	2.333
6	MP-5	X	.086	1.333
7	MP-6	X	.246	.5
8	MP-6	X	.039	4
9	MP-6	X	.026	4
10	MP-7	X	.102	1.333



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
11	MP-8	X	.069	2.333
12	MP-10	X	.086	1.333
13	MP-11	X	.126	.5
14	MP-11	X	.047	4
15	MP-11	X	.047	4
16	MP-12	X	.073	1.333
17	MP-13	X	.035	2.333
18	MP-15	X	.067	1.333
19	MP-1	X	.246	7
20	MP-2	X	.102	6
21	MP-3	X	.069	4.833
22	MP-5	X	.086	6
23	MP-6	X	.246	7
24	MP-7	X	.102	6
25	MP-8	X	.069	4.833
26	MP-10	X	.086	6
27	MP-11	X	.126	7
28	MP-12	X	.073	6
29	MP-13	X	.035	4.833
30	MP-15	X	.067	6
31	MP-1	Z	-.142	.5
32	MP-1	Z	-.023	4
33	MP-1	Z	-.015	4
34	MP-2	Z	-.059	1.333
35	MP-3	Z	-.04	2.333
36	MP-5	Z	-.049	1.333
37	MP-6	Z	-.142	.5
38	MP-6	Z	-.023	4
39	MP-6	Z	-.015	4
40	MP-7	Z	-.059	1.333
41	MP-8	Z	-.04	2.333
42	MP-10	Z	-.049	1.333
43	MP-11	Z	-.072	.5
44	MP-11	Z	-.027	4
45	MP-11	Z	-.027	4
46	MP-12	Z	-.042	1.333
47	MP-13	Z	-.02	2.333
48	MP-15	Z	-.038	1.333
49	MP-1	Z	-.142	7
50	MP-2	Z	-.059	6
51	MP-3	Z	-.04	4.833
52	MP-5	Z	-.049	6
53	MP-6	Z	-.142	7
54	MP-7	Z	-.059	6
55	MP-8	Z	-.04	4.833
56	MP-10	Z	-.049	6
57	MP-11	Z	-.072	7
58	MP-12	Z	-.042	6
59	MP-13	Z	-.02	4.833
60	MP-15	Z	-.038	6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.33	.5
2	MP-1	X	.043	4
3	MP-1	X	.022	4
4	MP-2	X	.129	1.333
5	MP-3	X	.093	2.333
6	MP-5	X	.106	1.333
7	MP-6	X	.191	.5
8	MP-6	X	.051	4
9	MP-6	X	.046	4
10	MP-7	X	.096	1.333
11	MP-8	X	.054	2.333
12	MP-10	X	.084	1.333
13	MP-11	X	.191	.5
14	MP-11	X	.051	4
15	MP-11	X	.046	4
16	MP-12	X	.096	1.333
17	MP-13	X	.054	2.333
18	MP-15	X	.084	1.333
19	MP-1	X	.33	7
20	MP-2	X	.129	6
21	MP-3	X	.093	4.833
22	MP-5	X	.106	6
23	MP-6	X	.191	7
24	MP-7	X	.096	6
25	MP-8	X	.054	4.833
26	MP-10	X	.084	6
27	MP-11	X	.191	7
28	MP-12	X	.096	6
29	MP-13	X	.054	4.833
30	MP-15	X	.084	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.246	.5
2	MP-1	X	.039	4
3	MP-1	X	.026	4
4	MP-2	X	.102	1.333
5	MP-3	X	.069	2.333
6	MP-5	X	.086	1.333
7	MP-6	X	.126	.5
8	MP-6	X	.047	4
9	MP-6	X	.047	4
10	MP-7	X	.073	1.333
11	MP-8	X	.035	2.333
12	MP-10	X	.067	1.333
13	MP-11	X	.246	.5
14	MP-11	X	.039	4
15	MP-11	X	.026	4
16	MP-12	X	.102	1.333
17	MP-13	X	.069	2.333
18	MP-15	X	.086	1.333



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-1	X	.246	7
20	MP-2	X	.102	6
21	MP-3	X	.069	4.833
22	MP-5	X	.086	6
23	MP-6	X	.126	7
24	MP-7	X	.073	6
25	MP-8	X	.035	4.833
26	MP-10	X	.067	6
27	MP-11	X	.246	7
28	MP-12	X	.102	6
29	MP-13	X	.069	4.833
30	MP-15	X	.086	6
31	MP-1	Z	.142	.5
32	MP-1	Z	.023	4
33	MP-1	Z	.015	4
34	MP-2	Z	.059	1.333
35	MP-3	Z	.04	2.333
36	MP-5	Z	.049	1.333
37	MP-6	Z	.072	.5
38	MP-6	Z	.027	4
39	MP-6	Z	.027	4
40	MP-7	Z	.042	1.333
41	MP-8	Z	.02	2.333
42	MP-10	Z	.038	1.333
43	MP-11	Z	.142	.5
44	MP-11	Z	.023	4
45	MP-11	Z	.015	4
46	MP-12	Z	.059	1.333
47	MP-13	Z	.04	2.333
48	MP-15	Z	.049	1.333
49	MP-1	Z	.142	7
50	MP-2	Z	.059	6
51	MP-3	Z	.04	4.833
52	MP-5	Z	.049	6
53	MP-6	Z	.072	7
54	MP-7	Z	.042	6
55	MP-8	Z	.02	4.833
56	MP-10	Z	.038	6
57	MP-11	Z	.142	7
58	MP-12	Z	.059	6
59	MP-13	Z	.04	4.833
60	MP-15	Z	.049	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.168	.5
2	MP-1	X	.034	4
3	MP-1	X	.027	4
4	MP-2	X	.076	1.333
5	MP-3	X	.047	2.333
6	MP-5	X	.065	1.333



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
7	MP-6	X	.111	.5
8	MP-6	X	.038	4
9	MP-6	X	.037	4
10	MP-7	X	.062	1.333
11	MP-8	X	.031	2.333
12	MP-10	X	.056	1.333
13	MP-11	X	.225	.5
14	MP-11	X	.031	4
15	MP-11	X	.017	4
16	MP-12	X	.089	1.333
17	MP-13	X	.063	2.333
18	MP-15	X	.074	1.333
19	MP-1	X	.168	7
20	MP-2	X	.076	6
21	MP-3	X	.047	4.833
22	MP-5	X	.065	6
23	MP-6	X	.111	7
24	MP-7	X	.062	6
25	MP-8	X	.031	4.833
26	MP-10	X	.056	6
27	MP-11	X	.225	7
28	MP-12	X	.089	6
29	MP-13	X	.063	4.833
30	MP-15	X	.074	6
31	MP-1	Z	.168	.5
32	MP-1	Z	.034	4
33	MP-1	Z	.027	4
34	MP-2	Z	.076	1.333
35	MP-3	Z	.047	2.333
36	MP-5	Z	.065	1.333
37	MP-6	Z	.111	.5
38	MP-6	Z	.038	4
39	MP-6	Z	.037	4
40	MP-7	Z	.062	1.333
41	MP-8	Z	.031	2.333
42	MP-10	Z	.056	1.333
43	MP-11	Z	.225	.5
44	MP-11	Z	.031	4
45	MP-11	Z	.017	4
46	MP-12	Z	.089	1.333
47	MP-13	Z	.063	2.333
48	MP-15	Z	.074	1.333
49	MP-1	Z	.168	7
50	MP-2	Z	.076	6
51	MP-3	Z	.047	4.833
52	MP-5	Z	.065	6
53	MP-6	Z	.111	7
54	MP-7	Z	.062	6
55	MP-8	Z	.031	4.833
56	MP-10	Z	.056	6
57	MP-11	Z	.225	7
58	MP-12	Z	.089	6



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
59	MP-13	Z	.063	4.833
60	MP-15	Z	.074	6

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.096	.5
2	MP-1	X	.026	4
3	MP-1	X	.023	4
4	MP-2	X	.048	1.333
5	MP-3	X	.027	2.333
6	MP-5	X	.042	1.333
7	MP-6	X	.096	.5
8	MP-6	X	.026	4
9	MP-6	X	.023	4
10	MP-7	X	.048	1.333
11	MP-8	X	.027	2.333
12	MP-10	X	.042	1.333
13	MP-11	X	.165	.5
14	MP-11	X	.021	4
15	MP-11	X	.011	4
16	MP-12	X	.065	1.333
17	MP-13	X	.046	2.333
18	MP-15	X	.053	1.333
19	MP-1	X	.096	7
20	MP-2	X	.048	6
21	MP-3	X	.027	4.833
22	MP-5	X	.042	6
23	MP-6	X	.096	7
24	MP-7	X	.048	6
25	MP-8	X	.027	4.833
26	MP-10	X	.042	6
27	MP-11	X	.165	7
28	MP-12	X	.065	6
29	MP-13	X	.046	4.833
30	MP-15	X	.053	6
31	MP-1	Z	.166	.5
32	MP-1	Z	.044	4
33	MP-1	Z	.04	4
34	MP-2	Z	.083	1.333
35	MP-3	Z	.046	2.333
36	MP-5	Z	.073	1.333
37	MP-6	Z	.166	.5
38	MP-6	Z	.044	4
39	MP-6	Z	.04	4
40	MP-7	Z	.083	1.333
41	MP-8	Z	.046	2.333
42	MP-10	Z	.073	1.333
43	MP-11	Z	.286	.5
44	MP-11	Z	.037	4
45	MP-11	Z	.019	4
46	MP-12	Z	.112	1.333



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
47	MP-13	Z	.08	2.333
48	MP-15	Z	.092	1.333
49	MP-1	Z	.166	7
50	MP-2	Z	.083	6
51	MP-3	Z	.046	4.833
52	MP-5	Z	.073	6
53	MP-6	Z	.166	7
54	MP-7	Z	.083	6
55	MP-8	Z	.046	4.833
56	MP-10	Z	.073	6
57	MP-11	Z	.286	7
58	MP-12	Z	.112	6
59	MP-13	Z	.08	4.833
60	MP-15	Z	.092	6

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-1	Z	.145	.5
2	MP-1	Z	.054	4
3	MP-1	Z	.054	4
4	MP-2	Z	.084	1.333
5	MP-3	Z	.041	2.333
6	MP-5	Z	.077	1.333
7	MP-6	Z	.284	.5
8	MP-6	Z	.046	4
9	MP-6	Z	.03	4
10	MP-7	Z	.118	1.333
11	MP-8	Z	.08	2.333
12	MP-10	Z	.099	1.333
13	MP-11	Z	.284	.5
14	MP-11	Z	.046	4
15	MP-11	Z	.03	4
16	MP-12	Z	.118	1.333
17	MP-13	Z	.08	2.333
18	MP-15	Z	.099	1.333
19	MP-1	Z	.145	7
20	MP-2	Z	.084	6
21	MP-3	Z	.041	4.833
22	MP-5	Z	.077	6
23	MP-6	Z	.284	7
24	MP-7	Z	.118	6
25	MP-8	Z	.08	4.833
26	MP-10	Z	.099	6
27	MP-11	Z	.284	7
28	MP-12	Z	.118	6
29	MP-13	Z	.08	4.833
30	MP-15	Z	.099	6

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-1	X	-.096	.5



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
2	MP-1	X	-.026	4
3	MP-1	X	-.023	4
4	MP-2	X	-.048	1.333
5	MP-3	X	-.027	2.333
6	MP-5	X	-.042	1.333
7	MP-6	X	-.165	.5
8	MP-6	X	-.021	4
9	MP-6	X	-.011	4
10	MP-7	X	-.065	1.333
11	MP-8	X	-.046	2.333
12	MP-10	X	-.053	1.333
13	MP-11	X	-.096	.5
14	MP-11	X	-.026	4
15	MP-11	X	-.023	4
16	MP-12	X	-.048	1.333
17	MP-13	X	-.027	2.333
18	MP-15	X	-.042	1.333
19	MP-1	X	-.096	7
20	MP-2	X	-.048	6
21	MP-3	X	-.027	4.833
22	MP-5	X	-.042	6
23	MP-6	X	-.165	7
24	MP-7	X	-.065	6
25	MP-8	X	-.046	4.833
26	MP-10	X	-.053	6
27	MP-11	X	-.096	7
28	MP-12	X	-.048	6
29	MP-13	X	-.027	4.833
30	MP-15	X	-.042	6
31	MP-1	Z	.166	.5
32	MP-1	Z	.044	4
33	MP-1	Z	.04	4
34	MP-2	Z	.083	1.333
35	MP-3	Z	.046	2.333
36	MP-5	Z	.073	1.333
37	MP-6	Z	.286	.5
38	MP-6	Z	.037	4
39	MP-6	Z	.019	4
40	MP-7	Z	.112	1.333
41	MP-8	Z	.08	2.333
42	MP-10	Z	.092	1.333
43	MP-11	Z	.166	.5
44	MP-11	Z	.044	4
45	MP-11	Z	.04	4
46	MP-12	Z	.083	1.333
47	MP-13	Z	.046	2.333
48	MP-15	Z	.073	1.333
49	MP-1	Z	.166	7
50	MP-2	Z	.083	6
51	MP-3	Z	.046	4.833
52	MP-5	Z	.073	6
53	MP-6	Z	.286	7



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
54	MP-7	Z	.112	6
55	MP-8	Z	.08	4.833
56	MP-10	Z	.092	6
57	MP-11	Z	.166	7
58	MP-12	Z	.083	6
59	MP-13	Z	.046	4.833
60	MP-15	Z	.073	6

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.168	.5
2	MP-1	X	-.034	4
3	MP-1	X	-.027	4
4	MP-2	X	-.076	1.333
5	MP-3	X	-.047	2.333
6	MP-5	X	-.065	1.333
7	MP-6	X	-.225	.5
8	MP-6	X	-.031	4
9	MP-6	X	-.017	4
10	MP-7	X	-.089	1.333
11	MP-8	X	-.063	2.333
12	MP-10	X	-.074	1.333
13	MP-11	X	-.111	.5
14	MP-11	X	-.038	4
15	MP-11	X	-.037	4
16	MP-12	X	-.062	1.333
17	MP-13	X	-.031	2.333
18	MP-15	X	-.056	1.333
19	MP-1	X	-.168	7
20	MP-2	X	-.076	6
21	MP-3	X	-.047	4.833
22	MP-5	X	-.065	6
23	MP-6	X	-.225	7
24	MP-7	X	-.089	6
25	MP-8	X	-.063	4.833
26	MP-10	X	-.074	6
27	MP-11	X	-.111	7
28	MP-12	X	-.062	6
29	MP-13	X	-.031	4.833
30	MP-15	X	-.056	6
31	MP-1	Z	.168	.5
32	MP-1	Z	.034	4
33	MP-1	Z	.027	4
34	MP-2	Z	.076	1.333
35	MP-3	Z	.047	2.333
36	MP-5	Z	.065	1.333
37	MP-6	Z	.225	.5
38	MP-6	Z	.031	4
39	MP-6	Z	.017	4
40	MP-7	Z	.089	1.333
41	MP-8	Z	.063	2.333



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
42	MP-10	Z	.074	1.333
43	MP-11	Z	.111	.5
44	MP-11	Z	.038	4
45	MP-11	Z	.037	4
46	MP-12	Z	.062	1.333
47	MP-13	Z	.031	2.333
48	MP-15	Z	.056	1.333
49	MP-1	Z	.168	7
50	MP-2	Z	.076	6
51	MP-3	Z	.047	4.833
52	MP-5	Z	.065	6
53	MP-6	Z	.225	7
54	MP-7	Z	.089	6
55	MP-8	Z	.063	4.833
56	MP-10	Z	.074	6
57	MP-11	Z	.111	7
58	MP-12	Z	.062	6
59	MP-13	Z	.031	4.833
60	MP-15	Z	.056	6

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.246	.5
2	MP-1	X	-.039	4
3	MP-1	X	-.026	4
4	MP-2	X	-.102	1.333
5	MP-3	X	-.069	2.333
6	MP-5	X	-.086	1.333
7	MP-6	X	-.246	.5
8	MP-6	X	-.039	4
9	MP-6	X	-.026	4
10	MP-7	X	-.102	1.333
11	MP-8	X	-.069	2.333
12	MP-10	X	-.086	1.333
13	MP-11	X	-.126	.5
14	MP-11	X	-.047	4
15	MP-11	X	-.047	4
16	MP-12	X	-.073	1.333
17	MP-13	X	-.035	2.333
18	MP-15	X	-.067	1.333
19	MP-1	X	-.246	7
20	MP-2	X	-.102	6
21	MP-3	X	-.069	4.833
22	MP-5	X	-.086	6
23	MP-6	X	-.246	7
24	MP-7	X	-.102	6
25	MP-8	X	-.069	4.833
26	MP-10	X	-.086	6
27	MP-11	X	-.126	7
28	MP-12	X	-.073	6
29	MP-13	X	-.035	4.833



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
30	MP-15	X	-.067	6
31	MP-1	Z	.142	.5
32	MP-1	Z	.023	4
33	MP-1	Z	.015	4
34	MP-2	Z	.059	1.333
35	MP-3	Z	.04	2.333
36	MP-5	Z	.049	1.333
37	MP-6	Z	.142	.5
38	MP-6	Z	.023	4
39	MP-6	Z	.015	4
40	MP-7	Z	.059	1.333
41	MP-8	Z	.04	2.333
42	MP-10	Z	.049	1.333
43	MP-11	Z	.072	.5
44	MP-11	Z	.027	4
45	MP-11	Z	.027	4
46	MP-12	Z	.042	1.333
47	MP-13	Z	.02	2.333
48	MP-15	Z	.038	1.333
49	MP-1	Z	.142	7
50	MP-2	Z	.059	6
51	MP-3	Z	.04	4.833
52	MP-5	Z	.049	6
53	MP-6	Z	.142	7
54	MP-7	Z	.059	6
55	MP-8	Z	.04	4.833
56	MP-10	Z	.049	6
57	MP-11	Z	.072	7
58	MP-12	Z	.042	6
59	MP-13	Z	.02	4.833
60	MP-15	Z	.038	6

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-.115	.5
2	MP-1	Y	-.037	4
3	MP-1	Y	-.027	4
4	MP-2	Y	-.057	1.333
5	MP-3	Y	-.041	2.333
6	MP-5	Y	-.048	1.333
7	MP-6	Y	-.115	.5
8	MP-6	Y	-.037	4
9	MP-6	Y	-.027	4
10	MP-7	Y	-.057	1.333
11	MP-8	Y	-.041	2.333
12	MP-10	Y	-.048	1.333
13	MP-11	Y	-.115	.5
14	MP-11	Y	-.037	4
15	MP-11	Y	-.027	4
16	MP-12	Y	-.057	1.333
17	MP-13	Y	-.041	2.333



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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
18	MP-15	Y	-.048	1.333
19	MP-1	Y	-.115	7
20	MP-2	Y	-.057	6
21	MP-3	Y	-.041	4.833
22	MP-5	Y	-.048	6
23	MP-6	Y	-.115	7
24	MP-7	Y	-.057	6
25	MP-8	Y	-.041	4.833
26	MP-10	Y	-.048	6
27	MP-11	Y	-.115	7
28	MP-12	Y	-.057	6
29	MP-13	Y	-.041	4.833
30	MP-15	Y	-.048	6

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.066	.5
2	MP-1	X	-.013	4
3	MP-1	X	-.013	4
4	MP-2	X	-.027	1.333
5	MP-3	X	-.02	2.333
6	MP-5	X	-.023	1.333
7	MP-6	X	-.066	.5
8	MP-6	X	-.013	4
9	MP-6	X	-.013	4
10	MP-7	X	-.027	1.333
11	MP-8	X	-.02	2.333
12	MP-10	X	-.023	1.333
13	MP-11	X	-.066	.5
14	MP-11	X	-.013	4
15	MP-11	X	-.013	4
16	MP-12	X	-.027	1.333
17	MP-13	X	-.02	2.333
18	MP-15	X	-.023	1.333
19	MP-1	X	-.066	7
20	MP-2	X	-.027	6
21	MP-3	X	-.02	4.833
22	MP-5	X	-.023	6
23	MP-6	X	-.066	7
24	MP-7	X	-.027	6
25	MP-8	X	-.02	4.833
26	MP-10	X	-.023	6
27	MP-11	X	-.066	7
28	MP-12	X	-.027	6
29	MP-13	X	-.02	4.833
30	MP-15	X	-.023	6

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.05	.5
2	MP-1	X	-.01	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP-1	X	-0.07	4
4	MP-2	X	-0.22	1.333
5	MP-3	X	-0.15	2.333
6	MP-5	X	-0.19	1.333
7	MP-6	X	-0.28	.5
8	MP-6	X	-0.11	4
9	MP-6	X	-0.11	4
10	MP-7	X	-0.16	1.333
11	MP-8	X	-0.08	2.333
12	MP-10	X	-0.15	1.333
13	MP-11	X	-.05	.5
14	MP-11	X	-.01	4
15	MP-11	X	-0.07	4
16	MP-12	X	-0.22	1.333
17	MP-13	X	-0.15	2.333
18	MP-15	X	-0.19	1.333
19	MP-1	X	-.05	7
20	MP-2	X	-0.22	6
21	MP-3	X	-0.15	4.833
22	MP-5	X	-0.19	6
23	MP-6	X	-0.28	7
24	MP-7	X	-0.16	6
25	MP-8	X	-0.08	4.833
26	MP-10	X	-0.15	6
27	MP-11	X	-.05	7
28	MP-12	X	-0.22	6
29	MP-13	X	-0.15	4.833
30	MP-15	X	-0.19	6
31	MP-1	Z	-0.29	.5
32	MP-1	Z	-0.06	4
33	MP-1	Z	-0.04	4
34	MP-2	Z	-0.13	1.333
35	MP-3	Z	-0.09	2.333
36	MP-5	Z	-0.11	1.333
37	MP-6	Z	-0.16	.5
38	MP-6	Z	-0.06	4
39	MP-6	Z	-0.06	4
40	MP-7	Z	-0.09	1.333
41	MP-8	Z	-0.05	2.333
42	MP-10	Z	-0.09	1.333
43	MP-11	Z	-0.29	.5
44	MP-11	Z	-0.06	4
45	MP-11	Z	-0.04	4
46	MP-12	Z	-0.13	1.333
47	MP-13	Z	-0.09	2.333
48	MP-15	Z	-0.11	1.333
49	MP-1	Z	-0.29	7
50	MP-2	Z	-0.13	6
51	MP-3	Z	-0.09	4.833
52	MP-5	Z	-0.11	6
53	MP-6	Z	-0.16	7
54	MP-7	Z	-0.09	6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
55	MP-8	Z	-0.05	4.833
56	MP-10	Z	-0.09	6
57	MP-11	Z	-0.29	7
58	MP-12	Z	-0.13	6
59	MP-13	Z	-0.09	4.833
60	MP-15	Z	-0.11	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-0.35	.5
2	MP-1	X	-0.08	4
3	MP-1	X	-0.07	4
4	MP-2	X	-0.16	1.333
5	MP-3	X	-.01	2.333
6	MP-5	X	-0.14	1.333
7	MP-6	X	-0.24	.5
8	MP-6	X	-0.09	4
9	MP-6	X	-0.09	4
10	MP-7	X	-0.14	1.333
11	MP-8	X	-0.07	2.333
12	MP-10	X	-0.12	1.333
13	MP-11	X	-0.45	.5
14	MP-11	X	-0.08	4
15	MP-11	X	-0.05	4
16	MP-12	X	-0.19	1.333
17	MP-13	X	-0.13	2.333
18	MP-15	X	-0.16	1.333
19	MP-1	X	-0.35	7
20	MP-2	X	-0.16	6
21	MP-3	X	-.01	4.833
22	MP-5	X	-0.14	6
23	MP-6	X	-0.24	7
24	MP-7	X	-0.14	6
25	MP-8	X	-0.07	4.833
26	MP-10	X	-0.12	6
27	MP-11	X	-0.45	7
28	MP-12	X	-0.19	6
29	MP-13	X	-0.13	4.833
30	MP-15	X	-0.16	6
31	MP-1	Z	-0.35	.5
32	MP-1	Z	-0.08	4
33	MP-1	Z	-0.07	4
34	MP-2	Z	-0.16	1.333
35	MP-3	Z	-.01	2.333
36	MP-5	Z	-0.14	1.333
37	MP-6	Z	-0.24	.5
38	MP-6	Z	-0.09	4
39	MP-6	Z	-0.09	4
40	MP-7	Z	-0.14	1.333
41	MP-8	Z	-0.07	2.333
42	MP-10	Z	-0.12	1.333



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
43	MP-11	Z	-.045	.5
44	MP-11	Z	-.008	4
45	MP-11	Z	-.005	4
46	MP-12	Z	-.019	1.333
47	MP-13	Z	-.013	2.333
48	MP-15	Z	-.016	1.333
49	MP-1	Z	-.035	7
50	MP-2	Z	-.016	6
51	MP-3	Z	-.01	4.833
52	MP-5	Z	-.014	6
53	MP-6	Z	-.024	7
54	MP-7	Z	-.014	6
55	MP-8	Z	-.007	4.833
56	MP-10	Z	-.012	6
57	MP-11	Z	-.045	7
58	MP-12	Z	-.019	6
59	MP-13	Z	-.013	4.833
60	MP-15	Z	-.016	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	-.02	.5
2	MP-1	X	-.006	4
3	MP-1	X	-.006	4
4	MP-2	X	-.01	1.333
5	MP-3	X	-.006	2.333
6	MP-5	X	-.009	1.333
7	MP-6	X	-.02	.5
8	MP-6	X	-.006	4
9	MP-6	X	-.006	4
10	MP-7	X	-.01	1.333
11	MP-8	X	-.006	2.333
12	MP-10	X	-.009	1.333
13	MP-11	X	-.033	.5
14	MP-11	X	-.005	4
15	MP-11	X	-.003	4
16	MP-12	X	-.014	1.333
17	MP-13	X	-.01	2.333
18	MP-15	X	-.011	1.333
19	MP-1	X	-.02	7
20	MP-2	X	-.01	6
21	MP-3	X	-.006	4.833
22	MP-5	X	-.009	6
23	MP-6	X	-.02	7
24	MP-7	X	-.01	6
25	MP-8	X	-.006	4.833
26	MP-10	X	-.009	6
27	MP-11	X	-.033	7
28	MP-12	X	-.014	6
29	MP-13	X	-.01	4.833
30	MP-15	X	-.011	6



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
31	MP-1	Z	-.035	.5
32	MP-1	Z	-.011	4
33	MP-1	Z	-.01	4
34	MP-2	Z	-.018	1.333
35	MP-3	Z	-.01	2.333
36	MP-5	Z	-.016	1.333
37	MP-6	Z	-.035	.5
38	MP-6	Z	-.011	4
39	MP-6	Z	-.01	4
40	MP-7	Z	-.018	1.333
41	MP-8	Z	-.01	2.333
42	MP-10	Z	-.016	1.333
43	MP-11	Z	-.057	.5
44	MP-11	Z	-.009	4
45	MP-11	Z	-.005	4
46	MP-12	Z	-.024	1.333
47	MP-13	Z	-.017	2.333
48	MP-15	Z	-.02	1.333
49	MP-1	Z	-.035	7
50	MP-2	Z	-.018	6
51	MP-3	Z	-.01	4.833
52	MP-5	Z	-.016	6
53	MP-6	Z	-.035	7
54	MP-7	Z	-.018	6
55	MP-8	Z	-.01	4.833
56	MP-10	Z	-.016	6
57	MP-11	Z	-.057	7
58	MP-12	Z	-.024	6
59	MP-13	Z	-.017	4.833
60	MP-15	Z	-.02	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	Z	-.032	.5
2	MP-1	Z	-.011	4
3	MP-1	Z	-.006	4
4	MP-2	Z	-.019	1.333
5	MP-3	Z	-.009	2.333
6	MP-5	Z	-.017	1.333
7	MP-6	Z	-.032	.5
8	MP-6	Z	-.011	4
9	MP-6	Z	-.006	4
10	MP-7	Z	-.019	1.333
11	MP-8	Z	-.009	2.333
12	MP-10	Z	-.017	1.333
13	MP-11	Z	-.032	.5
14	MP-11	Z	-.011	4
15	MP-11	Z	-.006	4
16	MP-12	Z	-.019	1.333
17	MP-13	Z	-.009	2.333
18	MP-15	Z	-.017	1.333



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-1	Z	-.032	7
20	MP-2	Z	-.019	6
21	MP-3	Z	-.009	4.833
22	MP-5	Z	-.017	6
23	MP-6	Z	-.032	7
24	MP-7	Z	-.019	6
25	MP-8	Z	-.009	4.833
26	MP-10	Z	-.017	6
27	MP-11	Z	-.032	7
28	MP-12	Z	-.019	6
29	MP-13	Z	-.009	4.833
30	MP-15	Z	-.017	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.02	.5
2	MP-1	X	.006	4
3	MP-1	X	.006	4
4	MP-2	X	.01	1.333
5	MP-3	X	.006	2.333
6	MP-5	X	.009	1.333
7	MP-6	X	.033	.5
8	MP-6	X	.005	4
9	MP-6	X	.003	4
10	MP-7	X	.014	1.333
11	MP-8	X	.01	2.333
12	MP-10	X	.011	1.333
13	MP-11	X	.02	.5
14	MP-11	X	.006	4
15	MP-11	X	.006	4
16	MP-12	X	.01	1.333
17	MP-13	X	.006	2.333
18	MP-15	X	.009	1.333
19	MP-1	X	.02	7
20	MP-2	X	.01	6
21	MP-3	X	.006	4.833
22	MP-5	X	.009	6
23	MP-6	X	.033	7
24	MP-7	X	.014	6
25	MP-8	X	.01	4.833
26	MP-10	X	.011	6
27	MP-11	X	.02	7
28	MP-12	X	.01	6
29	MP-13	X	.006	4.833
30	MP-15	X	.009	6
31	MP-1	Z	-.035	.5
32	MP-1	Z	-.011	4
33	MP-1	Z	-.01	4
34	MP-2	Z	-.018	1.333
35	MP-3	Z	-.01	2.333
36	MP-5	Z	-.016	1.333



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP-6	Z	-.057	.5
38	MP-6	Z	-.009	4
39	MP-6	Z	-.005	4
40	MP-7	Z	-.024	1.333
41	MP-8	Z	-.017	2.333
42	MP-10	Z	-.02	1.333
43	MP-11	Z	-.035	.5
44	MP-11	Z	-.011	4
45	MP-11	Z	-.01	4
46	MP-12	Z	-.018	1.333
47	MP-13	Z	-.01	2.333
48	MP-15	Z	-.016	1.333
49	MP-1	Z	-.035	7
50	MP-2	Z	-.018	6
51	MP-3	Z	-.01	4.833
52	MP-5	Z	-.016	6
53	MP-6	Z	-.057	7
54	MP-7	Z	-.024	6
55	MP-8	Z	-.017	4.833
56	MP-10	Z	-.02	6
57	MP-11	Z	-.035	7
58	MP-12	Z	-.018	6
59	MP-13	Z	-.01	4.833
60	MP-15	Z	-.016	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.035	.5
2	MP-1	X	.008	4
3	MP-1	X	.007	4
4	MP-2	X	.016	1.333
5	MP-3	X	.01	2.333
6	MP-5	X	.014	1.333
7	MP-6	X	.045	.5
8	MP-6	X	.008	4
9	MP-6	X	.005	4
10	MP-7	X	.019	1.333
11	MP-8	X	.013	2.333
12	MP-10	X	.016	1.333
13	MP-11	X	.024	.5
14	MP-11	X	.009	4
15	MP-11	X	.009	4
16	MP-12	X	.014	1.333
17	MP-13	X	.007	2.333
18	MP-15	X	.012	1.333
19	MP-1	X	.035	7
20	MP-2	X	.016	6
21	MP-3	X	.01	4.833
22	MP-5	X	.014	6
23	MP-6	X	.045	7
24	MP-7	X	.019	6



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
25	MP-8	X	.013	4.833
26	MP-10	X	.016	6
27	MP-11	X	.024	7
28	MP-12	X	.014	6
29	MP-13	X	.007	4.833
30	MP-15	X	.012	6
31	MP-1	Z	-.035	.5
32	MP-1	Z	-.008	4
33	MP-1	Z	-.007	4
34	MP-2	Z	-.016	1.333
35	MP-3	Z	-.01	2.333
36	MP-5	Z	-.014	1.333
37	MP-6	Z	-.045	.5
38	MP-6	Z	-.008	4
39	MP-6	Z	-.005	4
40	MP-7	Z	-.019	1.333
41	MP-8	Z	-.013	2.333
42	MP-10	Z	-.016	1.333
43	MP-11	Z	-.024	.5
44	MP-11	Z	-.009	4
45	MP-11	Z	-.009	4
46	MP-12	Z	-.014	1.333
47	MP-13	Z	-.007	2.333
48	MP-15	Z	-.012	1.333
49	MP-1	Z	-.035	7
50	MP-2	Z	-.016	6
51	MP-3	Z	-.01	4.833
52	MP-5	Z	-.014	6
53	MP-6	Z	-.045	7
54	MP-7	Z	-.019	6
55	MP-8	Z	-.013	4.833
56	MP-10	Z	-.016	6
57	MP-11	Z	-.024	7
58	MP-12	Z	-.014	6
59	MP-13	Z	-.007	4.833
60	MP-15	Z	-.012	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	.05	.5
2	MP-1	X	.01	4
3	MP-1	X	.007	4
4	MP-2	X	.022	1.333
5	MP-3	X	.015	2.333
6	MP-5	X	.019	1.333
7	MP-6	X	.05	.5
8	MP-6	X	.01	4
9	MP-6	X	.007	4
10	MP-7	X	.022	1.333
11	MP-8	X	.015	2.333
12	MP-10	X	.019	1.333



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
13	MP-11	X	.028	.5
14	MP-11	X	.011	4
15	MP-11	X	.011	4
16	MP-12	X	.016	1.333
17	MP-13	X	.008	2.333
18	MP-15	X	.015	1.333
19	MP-1	X	.05	7
20	MP-2	X	.022	6
21	MP-3	X	.015	4.833
22	MP-5	X	.019	6
23	MP-6	X	.05	7
24	MP-7	X	.022	6
25	MP-8	X	.015	4.833
26	MP-10	X	.019	6
27	MP-11	X	.028	7
28	MP-12	X	.016	6
29	MP-13	X	.008	4.833
30	MP-15	X	.015	6
31	MP-1	Z	-.029	.5
32	MP-1	Z	-.006	4
33	MP-1	Z	-.004	4
34	MP-2	Z	-.013	1.333
35	MP-3	Z	-.009	2.333
36	MP-5	Z	-.011	1.333
37	MP-6	Z	-.029	.5
38	MP-6	Z	-.006	4
39	MP-6	Z	-.004	4
40	MP-7	Z	-.013	1.333
41	MP-8	Z	-.009	2.333
42	MP-10	Z	-.011	1.333
43	MP-11	Z	-.016	.5
44	MP-11	Z	-.006	4
45	MP-11	Z	-.006	4
46	MP-12	Z	-.009	1.333
47	MP-13	Z	-.005	2.333
48	MP-15	Z	-.009	1.333
49	MP-1	Z	-.029	7
50	MP-2	Z	-.013	6
51	MP-3	Z	-.009	4.833
52	MP-5	Z	-.011	6
53	MP-6	Z	-.029	7
54	MP-7	Z	-.013	6
55	MP-8	Z	-.009	4.833
56	MP-10	Z	-.011	6
57	MP-11	Z	-.016	7
58	MP-12	Z	-.009	6
59	MP-13	Z	-.005	4.833
60	MP-15	Z	-.009	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
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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	.066	.5
2	MP-1	X	.013	4
3	MP-1	X	.013	4
4	MP-2	X	.027	1.333
5	MP-3	X	.02	2.333
6	MP-5	X	.023	1.333
7	MP-6	X	.066	.5
8	MP-6	X	.013	4
9	MP-6	X	.013	4
10	MP-7	X	.027	1.333
11	MP-8	X	.02	2.333
12	MP-10	X	.023	1.333
13	MP-11	X	.066	.5
14	MP-11	X	.013	4
15	MP-11	X	.013	4
16	MP-12	X	.027	1.333
17	MP-13	X	.02	2.333
18	MP-15	X	.023	1.333
19	MP-1	X	.066	7
20	MP-2	X	.027	6
21	MP-3	X	.02	4.833
22	MP-5	X	.023	6
23	MP-6	X	.066	7
24	MP-7	X	.027	6
25	MP-8	X	.02	4.833
26	MP-10	X	.023	6
27	MP-11	X	.066	7
28	MP-12	X	.027	6
29	MP-13	X	.02	4.833
30	MP-15	X	.023	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.05	.5
2	MP-1	X	.01	4
3	MP-1	X	.007	4
4	MP-2	X	.022	1.333
5	MP-3	X	.015	2.333
6	MP-5	X	.019	1.333
7	MP-6	X	.028	.5
8	MP-6	X	.011	4
9	MP-6	X	.011	4
10	MP-7	X	.016	1.333
11	MP-8	X	.008	2.333
12	MP-10	X	.015	1.333
13	MP-11	X	.05	.5
14	MP-11	X	.01	4
15	MP-11	X	.007	4
16	MP-12	X	.022	1.333
17	MP-13	X	.015	2.333
18	MP-15	X	.019	1.333



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-1	X	.05	7
20	MP-2	X	.022	6
21	MP-3	X	.015	4.833
22	MP-5	X	.019	6
23	MP-6	X	.028	7
24	MP-7	X	.016	6
25	MP-8	X	.008	4.833
26	MP-10	X	.015	6
27	MP-11	X	.05	7
28	MP-12	X	.022	6
29	MP-13	X	.015	4.833
30	MP-15	X	.019	6
31	MP-1	Z	.029	.5
32	MP-1	Z	.006	4
33	MP-1	Z	.004	4
34	MP-2	Z	.013	1.333
35	MP-3	Z	.009	2.333
36	MP-5	Z	.011	1.333
37	MP-6	Z	.016	.5
38	MP-6	Z	.006	4
39	MP-6	Z	.006	4
40	MP-7	Z	.009	1.333
41	MP-8	Z	.005	2.333
42	MP-10	Z	.009	1.333
43	MP-11	Z	.029	.5
44	MP-11	Z	.006	4
45	MP-11	Z	.004	4
46	MP-12	Z	.013	1.333
47	MP-13	Z	.009	2.333
48	MP-15	Z	.011	1.333
49	MP-1	Z	.029	7
50	MP-2	Z	.013	6
51	MP-3	Z	.009	4.833
52	MP-5	Z	.011	6
53	MP-6	Z	.016	7
54	MP-7	Z	.009	6
55	MP-8	Z	.005	4.833
56	MP-10	Z	.009	6
57	MP-11	Z	.029	7
58	MP-12	Z	.013	6
59	MP-13	Z	.009	4.833
60	MP-15	Z	.011	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.035	.5
2	MP-1	X	.008	4
3	MP-1	X	.007	4
4	MP-2	X	.016	1.333
5	MP-3	X	.01	2.333
6	MP-5	X	.014	1.333



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP-6	X	.024	.5
8	MP-6	X	.009	4
9	MP-6	X	.009	4
10	MP-7	X	.014	1.333
11	MP-8	X	.007	2.333
12	MP-10	X	.012	1.333
13	MP-11	X	.045	.5
14	MP-11	X	.008	4
15	MP-11	X	.005	4
16	MP-12	X	.019	1.333
17	MP-13	X	.013	2.333
18	MP-15	X	.016	1.333
19	MP-1	X	.035	7
20	MP-2	X	.016	6
21	MP-3	X	.01	4.833
22	MP-5	X	.014	6
23	MP-6	X	.024	7
24	MP-7	X	.014	6
25	MP-8	X	.007	4.833
26	MP-10	X	.012	6
27	MP-11	X	.045	7
28	MP-12	X	.019	6
29	MP-13	X	.013	4.833
30	MP-15	X	.016	6
31	MP-1	Z	.035	.5
32	MP-1	Z	.008	4
33	MP-1	Z	.007	4
34	MP-2	Z	.016	1.333
35	MP-3	Z	.01	2.333
36	MP-5	Z	.014	1.333
37	MP-6	Z	.024	.5
38	MP-6	Z	.009	4
39	MP-6	Z	.009	4
40	MP-7	Z	.014	1.333
41	MP-8	Z	.007	2.333
42	MP-10	Z	.012	1.333
43	MP-11	Z	.045	.5
44	MP-11	Z	.008	4
45	MP-11	Z	.005	4
46	MP-12	Z	.019	1.333
47	MP-13	Z	.013	2.333
48	MP-15	Z	.016	1.333
49	MP-1	Z	.035	7
50	MP-2	Z	.016	6
51	MP-3	Z	.01	4.833
52	MP-5	Z	.014	6
53	MP-6	Z	.024	7
54	MP-7	Z	.014	6
55	MP-8	Z	.007	4.833
56	MP-10	Z	.012	6
57	MP-11	Z	.045	7
58	MP-12	Z	.019	6



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP-13	Z	.013	4.833
60	MP-15	Z	.016	6

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.02	.5
2	MP-1	X	.006	4
3	MP-1	X	.006	4
4	MP-2	X	.01	1.333
5	MP-3	X	.006	2.333
6	MP-5	X	.009	1.333
7	MP-6	X	.02	.5
8	MP-6	X	.006	4
9	MP-6	X	.006	4
10	MP-7	X	.01	1.333
11	MP-8	X	.006	2.333
12	MP-10	X	.009	1.333
13	MP-11	X	.033	.5
14	MP-11	X	.005	4
15	MP-11	X	.003	4
16	MP-12	X	.014	1.333
17	MP-13	X	.01	2.333
18	MP-15	X	.011	1.333
19	MP-1	X	.02	7
20	MP-2	X	.01	6
21	MP-3	X	.006	4.833
22	MP-5	X	.009	6
23	MP-6	X	.02	7
24	MP-7	X	.01	6
25	MP-8	X	.006	4.833
26	MP-10	X	.009	6
27	MP-11	X	.033	7
28	MP-12	X	.014	6
29	MP-13	X	.01	4.833
30	MP-15	X	.011	6
31	MP-1	Z	.035	.5
32	MP-1	Z	.011	4
33	MP-1	Z	.01	4
34	MP-2	Z	.018	1.333
35	MP-3	Z	.01	2.333
36	MP-5	Z	.016	1.333
37	MP-6	Z	.035	.5
38	MP-6	Z	.011	4
39	MP-6	Z	.01	4
40	MP-7	Z	.018	1.333
41	MP-8	Z	.01	2.333
42	MP-10	Z	.016	1.333
43	MP-11	Z	.057	.5
44	MP-11	Z	.009	4
45	MP-11	Z	.005	4
46	MP-12	Z	.024	1.333



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
47	MP-13	Z	.017	2.333
48	MP-15	Z	.02	1.333
49	MP-1	Z	.035	7
50	MP-2	Z	.018	6
51	MP-3	Z	.01	4.833
52	MP-5	Z	.016	6
53	MP-6	Z	.035	7
54	MP-7	Z	.018	6
55	MP-8	Z	.01	4.833
56	MP-10	Z	.016	6
57	MP-11	Z	.057	7
58	MP-12	Z	.024	6
59	MP-13	Z	.017	4.833
60	MP-15	Z	.02	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	Z	.032	.5
2	MP-1	Z	.011	4
3	MP-1	Z	.006	4
4	MP-2	Z	.019	1.333
5	MP-3	Z	.009	2.333
6	MP-5	Z	.017	1.333
7	MP-6	Z	.032	.5
8	MP-6	Z	.011	4
9	MP-6	Z	.006	4
10	MP-7	Z	.019	1.333
11	MP-8	Z	.009	2.333
12	MP-10	Z	.017	1.333
13	MP-11	Z	.032	.5
14	MP-11	Z	.011	4
15	MP-11	Z	.006	4
16	MP-12	Z	.019	1.333
17	MP-13	Z	.009	2.333
18	MP-15	Z	.017	1.333
19	MP-1	Z	.032	7
20	MP-2	Z	.019	6
21	MP-3	Z	.009	4.833
22	MP-5	Z	.017	6
23	MP-6	Z	.032	7
24	MP-7	Z	.019	6
25	MP-8	Z	.009	4.833
26	MP-10	Z	.017	6
27	MP-11	Z	.032	7
28	MP-12	Z	.019	6
29	MP-13	Z	.009	4.833
30	MP-15	Z	.017	6

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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
1	MP-1	X	-.02	.5



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
2	MP-1	X	-.006	4
3	MP-1	X	-.006	4
4	MP-2	X	-.01	1.333
5	MP-3	X	-.006	2.333
6	MP-5	X	-.009	1.333
7	MP-6	X	-.033	.5
8	MP-6	X	-.005	4
9	MP-6	X	-.003	4
10	MP-7	X	-.014	1.333
11	MP-8	X	-.01	2.333
12	MP-10	X	-.011	1.333
13	MP-11	X	-.02	.5
14	MP-11	X	-.006	4
15	MP-11	X	-.006	4
16	MP-12	X	-.01	1.333
17	MP-13	X	-.006	2.333
18	MP-15	X	-.009	1.333
19	MP-1	X	-.02	7
20	MP-2	X	-.01	6
21	MP-3	X	-.006	4.833
22	MP-5	X	-.009	6
23	MP-6	X	-.033	7
24	MP-7	X	-.014	6
25	MP-8	X	-.01	4.833
26	MP-10	X	-.011	6
27	MP-11	X	-.02	7
28	MP-12	X	-.01	6
29	MP-13	X	-.006	4.833
30	MP-15	X	-.009	6
31	MP-1	Z	.035	.5
32	MP-1	Z	.011	4
33	MP-1	Z	.01	4
34	MP-2	Z	.018	1.333
35	MP-3	Z	.01	2.333
36	MP-5	Z	.016	1.333
37	MP-6	Z	.057	.5
38	MP-6	Z	.009	4
39	MP-6	Z	.005	4
40	MP-7	Z	.024	1.333
41	MP-8	Z	.017	2.333
42	MP-10	Z	.02	1.333
43	MP-11	Z	.035	.5
44	MP-11	Z	.011	4
45	MP-11	Z	.01	4
46	MP-12	Z	.018	1.333
47	MP-13	Z	.01	2.333
48	MP-15	Z	.016	1.333
49	MP-1	Z	.035	7
50	MP-2	Z	.018	6
51	MP-3	Z	.01	4.833
52	MP-5	Z	.016	6
53	MP-6	Z	.057	7



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
54	MP-7	Z	.024	6
55	MP-8	Z	.017	4.833
56	MP-10	Z	.02	6
57	MP-11	Z	.035	7
58	MP-12	Z	.018	6
59	MP-13	Z	.01	4.833
60	MP-15	Z	.016	6

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.035	.5
2	MP-1	X	-.008	4
3	MP-1	X	-.007	4
4	MP-2	X	-.016	1.333
5	MP-3	X	-.01	2.333
6	MP-5	X	-.014	1.333
7	MP-6	X	-.045	.5
8	MP-6	X	-.008	4
9	MP-6	X	-.005	4
10	MP-7	X	-.019	1.333
11	MP-8	X	-.013	2.333
12	MP-10	X	-.016	1.333
13	MP-11	X	-.024	.5
14	MP-11	X	-.009	4
15	MP-11	X	-.009	4
16	MP-12	X	-.014	1.333
17	MP-13	X	-.007	2.333
18	MP-15	X	-.012	1.333
19	MP-1	X	-.035	7
20	MP-2	X	-.016	6
21	MP-3	X	-.01	4.833
22	MP-5	X	-.014	6
23	MP-6	X	-.045	7
24	MP-7	X	-.019	6
25	MP-8	X	-.013	4.833
26	MP-10	X	-.016	6
27	MP-11	X	-.024	7
28	MP-12	X	-.014	6
29	MP-13	X	-.007	4.833
30	MP-15	X	-.012	6
31	MP-1	Z	.035	.5
32	MP-1	Z	.008	4
33	MP-1	Z	.007	4
34	MP-2	Z	.016	1.333
35	MP-3	Z	.01	2.333
36	MP-5	Z	.014	1.333
37	MP-6	Z	.045	.5
38	MP-6	Z	.008	4
39	MP-6	Z	.005	4
40	MP-7	Z	.019	1.333
41	MP-8	Z	.013	2.333



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
42	MP-10	Z	.016	1.333
43	MP-11	Z	.024	.5
44	MP-11	Z	.009	4
45	MP-11	Z	.009	4
46	MP-12	Z	.014	1.333
47	MP-13	Z	.007	2.333
48	MP-15	Z	.012	1.333
49	MP-1	Z	.035	7
50	MP-2	Z	.016	6
51	MP-3	Z	.01	4.833
52	MP-5	Z	.014	6
53	MP-6	Z	.045	7
54	MP-7	Z	.019	6
55	MP-8	Z	.013	4.833
56	MP-10	Z	.016	6
57	MP-11	Z	.024	7
58	MP-12	Z	.014	6
59	MP-13	Z	.007	4.833
60	MP-15	Z	.012	6

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.05	.5
2	MP-1	X	-.01	4
3	MP-1	X	-.007	4
4	MP-2	X	-.022	1.333
5	MP-3	X	-.015	2.333
6	MP-5	X	-.019	1.333
7	MP-6	X	-.05	.5
8	MP-6	X	-.01	4
9	MP-6	X	-.007	4
10	MP-7	X	-.022	1.333
11	MP-8	X	-.015	2.333
12	MP-10	X	-.019	1.333
13	MP-11	X	-.028	.5
14	MP-11	X	-.011	4
15	MP-11	X	-.011	4
16	MP-12	X	-.016	1.333
17	MP-13	X	-.008	2.333
18	MP-15	X	-.015	1.333
19	MP-1	X	-.05	7
20	MP-2	X	-.022	6
21	MP-3	X	-.015	4.833
22	MP-5	X	-.019	6
23	MP-6	X	-.05	7
24	MP-7	X	-.022	6
25	MP-8	X	-.015	4.833
26	MP-10	X	-.019	6
27	MP-11	X	-.028	7
28	MP-12	X	-.016	6
29	MP-13	X	-.008	4.833



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

Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]	
30	MP-15	X	-0.15	6
31	MP-1	Z	.029	.5
32	MP-1	Z	.006	4
33	MP-1	Z	.004	4
34	MP-2	Z	.013	1.333
35	MP-3	Z	.009	2.333
36	MP-5	Z	.011	1.333
37	MP-6	Z	.029	.5
38	MP-6	Z	.006	4
39	MP-6	Z	.004	4
40	MP-7	Z	.013	1.333
41	MP-8	Z	.009	2.333
42	MP-10	Z	.011	1.333
43	MP-11	Z	.016	.5
44	MP-11	Z	.006	4
45	MP-11	Z	.006	4
46	MP-12	Z	.009	1.333
47	MP-13	Z	.005	2.333
48	MP-15	Z	.009	1.333
49	MP-1	Z	.029	7
50	MP-2	Z	.013	6
51	MP-3	Z	.009	4.833
52	MP-5	Z	.011	6
53	MP-6	Z	.029	7
54	MP-7	Z	.013	6
55	MP-8	Z	.009	4.833
56	MP-10	Z	.011	6
57	MP-11	Z	.016	7
58	MP-12	Z	.009	6
59	MP-13	Z	.005	4.833
60	MP-15	Z	.009	6

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
1	CP-1	X	-.007	-.007	0	%100
2	CP-2	X	-.007	-.007	0	%100
3	CP-3	X	-.013	-.013	0	%100
4	FFTH	X	-.033	-.033	0	%100
5	GSI-1	X	-.011	-.011	0	%100
6	GSI-2	X	-.011	-.011	0	%100
7	GSI-3	X	-.025	-.025	0	%100
8	INT1-P1	X	-.007	-.007	0	%100
9	INT1-P2	X	-.007	-.007	0	%100
10	INT2-P1	X	-.013	-.013	0	%100
11	INT2-P2	X	-.013	-.013	0	%100
12	INT3-P1	X	-.007	-.007	0	%100
13	INT3-P2	X	-.007	-.007	0	%100
14	MP-1	X	-.008	-.008	0	%100
15	MP-2	X	-.008	-.008	0	%100
16	MP-3	X	-.008	-.008	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
17	MP-4	X	-.007	-.007	0	%100
18	MP-5	X	-.008	-.008	0	%100
19	MP-6	X	-.008	-.008	0	%100
20	MP-7	X	-.008	-.008	0	%100
21	MP-8	X	-.008	-.008	0	%100
22	MP-9	X	-.007	-.007	0	%100
23	MP-10	X	-.008	-.008	0	%100
24	MP-11	X	-.008	-.008	0	%100
25	MP-12	X	-.008	-.008	0	%100
26	MP-13	X	-.008	-.008	0	%100
27	MP-14	X	-.007	-.007	0	%100
28	MP-15	X	-.008	-.008	0	%100
29	SA-1	X	-.016	-.016	0	%100
30	SA-2	X	-.016	-.016	0	%100
31	SA-3	X	0	0	0	%100
32	SF1-TH	X	-.013	-.013	0	%100
33	SF2-TH	X	-.013	-.013	0	%100
34	M34	X	-.009	-.009	0	%100
35	M35	X	-.005	-.005	0	%100
36	M36	X	-.005	-.005	0	%100
37	M37	X	-.003	-.003	0	%100
38	M38	X	-.003	-.003	0	%100
39	M39	X	-.008	-.008	0	%100
40	M40	X	-.004	-.004	0	%100
41	M41	X	-.004	-.004	0	%100
42	M42	X	-.009	-.009	0	%100
43	M43	X	-.01	-.01	0	%100
44	M44	X	-.01	-.01	0	%100
45	M45	X	-.01	-.01	0	%100
46	M46	X	-.01	-.01	0	%100
47	M47	X	-.01	-.01	0	%100
48	M48	X	-.01	-.01	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	-.01	-.01	0	%100
3	CP-3	X	-.01	-.01	0	%100
4	FFTH	X	-.024	-.024	0	%100
5	GSI-1	X	-.016	-.016	0	%100
6	GSI-2	X	0	0	0	%100
7	GSI-3	X	-.019	-.019	0	%100
8	INT1-P1	X	-.01	-.01	0	%100
9	INT1-P2	X	-.01	-.01	0	%100
10	INT2-P1	X	-.01	-.01	0	%100
11	INT2-P2	X	-.01	-.01	0	%100
12	INT3-P1	X	0	0	0	%100
13	INT3-P2	X	0	0	0	%100
14	MP-1	X	-.007	-.007	0	%100
15	MP-2	X	-.007	-.007	0	%100
16	MP-3	X	-.007	-.007	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
17	MP-4	X	-0.06	-0.06	0 %100
18	MP-5	X	-0.07	-0.07	0 %100
19	MP-6	X	-0.07	-0.07	0 %100
20	MP-7	X	-0.07	-0.07	0 %100
21	MP-8	X	-0.07	-0.07	0 %100
22	MP-9	X	-0.06	-0.06	0 %100
23	MP-10	X	-0.07	-0.07	0 %100
24	MP-11	X	-0.07	-0.07	0 %100
25	MP-12	X	-0.07	-0.07	0 %100
26	MP-13	X	-0.07	-0.07	0 %100
27	MP-14	X	-0.06	-0.06	0 %100
28	MP-15	X	-0.07	-0.07	0 %100
29	SA-1	X	-0.08	-0.08	0 %100
30	SA-2	X	-0.16	-0.16	0 %100
31	SA-3	X	-0.06	-0.06	0 %100
32	SF1-TH	X	-0.19	-0.19	0 %100
33	SF2-TH	X	0	0	0 %100
34	M34	X	-0.07	-0.07	0 %100
35	M35	X	-0.07	-0.07	0 %100
36	M36	X	0	0	0 %100
37	M37	X	0	0	0 %100
38	M38	X	-0.05	-0.05	0 %100
39	M39	X	-0.06	-0.06	0 %100
40	M40	X	0	0	0 %100
41	M41	X	-0.06	-0.06	0 %100
42	M42	X	-0.07	-0.07	0 %100
43	M43	X	-0.09	-0.09	0 %100
44	M44	X	-0.09	-0.09	0 %100
45	M45	X	-0.09	-0.09	0 %100
46	M46	X	-0.09	-0.09	0 %100
47	M47	X	-0.09	-0.09	0 %100
48	M48	X	-0.09	-0.09	0 %100
49	CP-1	Z	0	0	0 %100
50	CP-2	Z	-0.06	-0.06	0 %100
51	CP-3	Z	-0.06	-0.06	0 %100
52	FFTH	Z	-0.14	-0.14	0 %100
53	GSI-1	Z	-0.1	-0.1	0 %100
54	GSI-2	Z	0	0	0 %100
55	GSI-3	Z	-0.11	-0.11	0 %100
56	INT1-P1	Z	-0.06	-0.06	0 %100
57	INT1-P2	Z	-0.06	-0.06	0 %100
58	INT2-P1	Z	-0.06	-0.06	0 %100
59	INT2-P2	Z	-0.06	-0.06	0 %100
60	INT3-P1	Z	0	0	0 %100
61	INT3-P2	Z	0	0	0 %100
62	MP-1	Z	-0.04	-0.04	0 %100
63	MP-2	Z	-0.04	-0.04	0 %100
64	MP-3	Z	-0.04	-0.04	0 %100
65	MP-4	Z	-0.04	-0.04	0 %100
66	MP-5	Z	-0.04	-0.04	0 %100
67	MP-6	Z	-0.04	-0.04	0 %100
68	MP-7	Z	-0.04	-0.04	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
69	MP-8	Z	-0.04	-0.04	0 %100
70	MP-9	Z	-0.04	-0.04	0 %100
71	MP-10	Z	-0.04	-0.04	0 %100
72	MP-11	Z	-0.04	-0.04	0 %100
73	MP-12	Z	-0.04	-0.04	0 %100
74	MP-13	Z	-0.04	-0.04	0 %100
75	MP-14	Z	-0.04	-0.04	0 %100
76	MP-15	Z	-0.04	-0.04	0 %100
77	SA-1	Z	-0.04	-0.04	0 %100
78	SA-2	Z	-0.08	-0.08	0 %100
79	SA-3	Z	-0.05	-0.05	0 %100
80	SF1-TH	Z	-0.13	-0.13	0 %100
81	SF2-TH	Z	0	0	0 %100
82	M34	Z	-0.04	-0.04	0 %100
83	M35	Z	-0.04	-0.04	0 %100
84	M36	Z	0	0	0 %100
85	M37	Z	0	0	0 %100
86	M38	Z	-0.03	-0.03	0 %100
87	M39	Z	-0.03	-0.03	0 %100
88	M40	Z	0	0	0 %100
89	M41	Z	-0.04	-0.04	0 %100
90	M42	Z	-0.04	-0.04	0 %100
91	M43	Z	-0.05	-0.05	0 %100
92	M44	Z	-0.05	-0.05	0 %100
93	M45	Z	-0.05	-0.05	0 %100
94	M46	Z	-0.05	-0.05	0 %100
95	M47	Z	-0.05	-0.05	0 %100
96	M48	Z	-0.05	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	-0.02	-0.02	0 %100
2	CP-2	X	-0.09	-0.09	0 %100
3	CP-3	X	-0.07	-0.07	0 %100
4	FFTH	X	-0.16	-0.16	0 %100
5	GSI-1	X	-0.15	-0.15	0 %100
6	GSI-2	X	-0.04	-0.04	0 %100
7	GSI-3	X	-0.13	-0.13	0 %100
8	INT1-P1	X	-0.09	-0.09	0 %100
9	INT1-P2	X	-0.09	-0.09	0 %100
10	INT2-P1	X	-0.07	-0.07	0 %100
11	INT2-P2	X	-0.07	-0.07	0 %100
12	INT3-P1	X	-0.02	-0.02	0 %100
13	INT3-P2	X	-0.02	-0.02	0 %100
14	MP-1	X	-0.05	-0.05	0 %100
15	MP-2	X	-0.05	-0.05	0 %100
16	MP-3	X	-0.05	-0.05	0 %100
17	MP-4	X	-0.05	-0.05	0 %100
18	MP-5	X	-0.05	-0.05	0 %100
19	MP-6	X	-0.05	-0.05	0 %100
20	MP-7	X	-0.05	-0.05	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
21	MP-8	X	-0.05	-0.05	0 %100
22	MP-9	X	-0.05	-0.05	0 %100
23	MP-10	X	-0.05	-0.05	0 %100
24	MP-11	X	-0.05	-0.05	0 %100
25	MP-12	X	-0.05	-0.05	0 %100
26	MP-13	X	-0.05	-0.05	0 %100
27	MP-14	X	-0.05	-0.05	0 %100
28	MP-15	X	-0.05	-0.05	0 %100
29	SA-1	X	-0.03	-0.03	0 %100
30	SA-2	X	-0.12	-0.12	0 %100
31	SA-3	X	-0.07	-0.07	0 %100
32	SF1-TH	X	-0.18	-0.18	0 %100
33	SF2-TH	X	-0.05	-0.05	0 %100
34	M34	X	-0.05	-0.05	0 %100
35	M35	X	-0.06	-0.06	0 %100
36	M36	X	-0.02	-0.02	0 %100
37	M37	X	-0.01	-0.01	0 %100
38	M38	X	-0.04	-0.04	0 %100
39	M39	X	-0.04	-0.04	0 %100
40	M40	X	-0.02	-0.02	0 %100
41	M41	X	-0.06	-0.06	0 %100
42	M42	X	-0.05	-0.05	0 %100
43	M43	X	-0.07	-0.07	0 %100
44	M44	X	-0.07	-0.07	0 %100
45	M45	X	-0.07	-0.07	0 %100
46	M46	X	-0.07	-0.07	0 %100
47	M47	X	-0.07	-0.07	0 %100
48	M48	X	-0.07	-0.07	0 %100
49	CP-1	Z	-0.02	-0.02	0 %100
50	CP-2	Z	-0.09	-0.09	0 %100
51	CP-3	Z	-0.07	-0.07	0 %100
52	FFTH	Z	-0.16	-0.16	0 %100
53	GSI-1	Z	-0.17	-0.17	0 %100
54	GSI-2	Z	-0.04	-0.04	0 %100
55	GSI-3	Z	-0.13	-0.13	0 %100
56	INT1-P1	Z	-0.09	-0.09	0 %100
57	INT1-P2	Z	-0.09	-0.09	0 %100
58	INT2-P1	Z	-0.07	-0.07	0 %100
59	INT2-P2	Z	-0.07	-0.07	0 %100
60	INT3-P1	Z	-0.02	-0.02	0 %100
61	INT3-P2	Z	-0.02	-0.02	0 %100
62	MP-1	Z	-0.05	-0.05	0 %100
63	MP-2	Z	-0.05	-0.05	0 %100
64	MP-3	Z	-0.05	-0.05	0 %100
65	MP-4	Z	-0.05	-0.05	0 %100
66	MP-5	Z	-0.05	-0.05	0 %100
67	MP-6	Z	-0.05	-0.05	0 %100
68	MP-7	Z	-0.05	-0.05	0 %100
69	MP-8	Z	-0.05	-0.05	0 %100
70	MP-9	Z	-0.05	-0.05	0 %100
71	MP-10	Z	-0.05	-0.05	0 %100
72	MP-11	Z	-0.05	-0.05	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
73	MP-12	Z	-0.05	-0.05	0 %100
74	MP-13	Z	-0.05	-0.05	0 %100
75	MP-14	Z	-0.05	-0.05	0 %100
76	MP-15	Z	-0.05	-0.05	0 %100
77	SA-1	Z	-0.03	-0.03	0 %100
78	SA-2	Z	-0.11	-0.11	0 %100
79	SA-3	Z	-0.09	-0.09	0 %100
80	SF1-TH	Z	-0.21	-0.21	0 %100
81	SF2-TH	Z	-0.06	-0.06	0 %100
82	M34	Z	-0.05	-0.05	0 %100
83	M35	Z	-0.06	-0.06	0 %100
84	M36	Z	-0.02	-0.02	0 %100
85	M37	Z	-0.01	-0.01	0 %100
86	M38	Z	-0.05	-0.05	0 %100
87	M39	Z	-0.04	-0.04	0 %100
88	M40	Z	-0.02	-0.02	0 %100
89	M41	Z	-0.06	-0.06	0 %100
90	M42	Z	-0.05	-0.05	0 %100
91	M43	Z	-0.07	-0.07	0 %100
92	M44	Z	-0.07	-0.07	0 %100
93	M45	Z	-0.07	-0.07	0 %100
94	M46	Z	-0.07	-0.07	0 %100
95	M47	Z	-0.07	-0.07	0 %100
96	M48	Z	-0.07	-0.07	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	-0.03	-0.03	0 %100
2	CP-2	X	-0.07	-0.07	0 %100
3	CP-3	X	-0.03	-0.03	0 %100
4	FFTH	X	-0.08	-0.08	0 %100
5	GSI-1	X	-0.11	-0.11	0 %100
6	GSI-2	X	-0.05	-0.05	0 %100
7	GSI-3	X	-0.06	-0.06	0 %100
8	INT1-P1	X	-0.07	-0.07	0 %100
9	INT1-P2	X	-0.07	-0.07	0 %100
10	INT2-P1	X	-0.03	-0.03	0 %100
11	INT2-P2	X	-0.03	-0.03	0 %100
12	INT3-P1	X	-0.03	-0.03	0 %100
13	INT3-P2	X	-0.03	-0.03	0 %100
14	MP-1	X	-0.04	-0.04	0 %100
15	MP-2	X	-0.04	-0.04	0 %100
16	MP-3	X	-0.04	-0.04	0 %100
17	MP-4	X	-0.04	-0.04	0 %100
18	MP-5	X	-0.04	-0.04	0 %100
19	MP-6	X	-0.04	-0.04	0 %100
20	MP-7	X	-0.04	-0.04	0 %100
21	MP-8	X	-0.04	-0.04	0 %100
22	MP-9	X	-0.04	-0.04	0 %100
23	MP-10	X	-0.04	-0.04	0 %100
24	MP-11	X	-0.04	-0.04	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
25	MP-12	X	-0.04	-0.04	0 %100
26	MP-13	X	-0.04	-0.04	0 %100
27	MP-14	X	-0.04	-0.04	0 %100
28	MP-15	X	-0.04	-0.04	0 %100
29	SA-1	X	0	0	0 %100
30	SA-2	X	-0.08	-0.08	0 %100
31	SA-3	X	-0.06	-0.06	0 %100
32	SF1-TH	X	-0.13	-0.13	0 %100
33	SF2-TH	X	-0.06	-0.06	0 %100
34	M34	X	-0.02	-0.02	0 %100
35	M35	X	-0.05	-0.05	0 %100
36	M36	X	-0.02	-0.02	0 %100
37	M37	X	-0.02	-0.02	0 %100
38	M38	X	-0.03	-0.03	0 %100
39	M39	X	-0.02	-0.02	0 %100
40	M40	X	-0.02	-0.02	0 %100
41	M41	X	-0.04	-0.04	0 %100
42	M42	X	-0.02	-0.02	0 %100
43	M43	X	-0.05	-0.05	0 %100
44	M44	X	-0.05	-0.05	0 %100
45	M45	X	-0.05	-0.05	0 %100
46	M46	X	-0.05	-0.05	0 %100
47	M47	X	-0.05	-0.05	0 %100
48	M48	X	-0.05	-0.05	0 %100
49	CP-1	Z	-0.06	-0.06	0 %100
50	CP-2	Z	-0.11	-0.11	0 %100
51	CP-3	Z	-0.06	-0.06	0 %100
52	FFTH	Z	-0.14	-0.14	0 %100
53	GSI-1	Z	-0.21	-0.21	0 %100
54	GSI-2	Z	-0.1	-0.1	0 %100
55	GSI-3	Z	-0.11	-0.11	0 %100
56	INT1-P1	Z	-0.11	-0.11	0 %100
57	INT1-P2	Z	-0.11	-0.11	0 %100
58	INT2-P1	Z	-0.06	-0.06	0 %100
59	INT2-P2	Z	-0.06	-0.06	0 %100
60	INT3-P1	Z	-0.06	-0.06	0 %100
61	INT3-P2	Z	-0.06	-0.06	0 %100
62	MP-1	Z	-0.07	-0.07	0 %100
63	MP-2	Z	-0.07	-0.07	0 %100
64	MP-3	Z	-0.07	-0.07	0 %100
65	MP-4	Z	-0.06	-0.06	0 %100
66	MP-5	Z	-0.07	-0.07	0 %100
67	MP-6	Z	-0.07	-0.07	0 %100
68	MP-7	Z	-0.07	-0.07	0 %100
69	MP-8	Z	-0.07	-0.07	0 %100
70	MP-9	Z	-0.06	-0.06	0 %100
71	MP-10	Z	-0.07	-0.07	0 %100
72	MP-11	Z	-0.07	-0.07	0 %100
73	MP-12	Z	-0.07	-0.07	0 %100
74	MP-13	Z	-0.07	-0.07	0 %100
75	MP-14	Z	-0.06	-0.06	0 %100
76	MP-15	Z	-0.07	-0.07	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
77	SA-1	Z	0	0	0 %100
78	SA-2	Z	-0.12	-0.12	0 %100
79	SA-3	Z	-0.14	-0.14	0 %100
80	SF1-TH	Z	-0.27	-0.27	0 %100
81	SF2-TH	Z	-0.13	-0.13	0 %100
82	M34	Z	-0.04	-0.04	0 %100
83	M35	Z	-0.08	-0.08	0 %100
84	M36	Z	-0.04	-0.04	0 %100
85	M37	Z	-0.03	-0.03	0 %100
86	M38	Z	-0.07	-0.07	0 %100
87	M39	Z	-0.03	-0.03	0 %100
88	M40	Z	-0.04	-0.04	0 %100
89	M41	Z	-0.08	-0.08	0 %100
90	M42	Z	-0.04	-0.04	0 %100
91	M43	Z	-0.09	-0.09	0 %100
92	M44	Z	-0.09	-0.09	0 %100
93	M45	Z	-0.09	-0.09	0 %100
94	M46	Z	-0.09	-0.09	0 %100
95	M47	Z	-0.09	-0.09	0 %100
96	M48	Z	-0.09	-0.09	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	Z	-0.11	-0.11	0 %100
2	CP-2	Z	-0.11	-0.11	0 %100
3	CP-3	Z	0	0	0 %100
4	FFTH	Z	0	0	0 %100
5	GSI-1	Z	-0.21	-0.21	0 %100
6	GSI-2	Z	-0.21	-0.21	0 %100
7	GSI-3	Z	0	0	0 %100
8	INT1-P1	Z	-0.11	-0.11	0 %100
9	INT1-P2	Z	-0.11	-0.11	0 %100
10	INT2-P1	Z	0	0	0 %100
11	INT2-P2	Z	0	0	0 %100
12	INT3-P1	Z	-0.11	-0.11	0 %100
13	INT3-P2	Z	-0.11	-0.11	0 %100
14	MP-1	Z	-0.08	-0.08	0 %100
15	MP-2	Z	-0.08	-0.08	0 %100
16	MP-3	Z	-0.08	-0.08	0 %100
17	MP-4	Z	-0.07	-0.07	0 %100
18	MP-5	Z	-0.08	-0.08	0 %100
19	MP-6	Z	-0.08	-0.08	0 %100
20	MP-7	Z	-0.08	-0.08	0 %100
21	MP-8	Z	-0.08	-0.08	0 %100
22	MP-9	Z	-0.07	-0.07	0 %100
23	MP-10	Z	-0.08	-0.08	0 %100
24	MP-11	Z	-0.08	-0.08	0 %100
25	MP-12	Z	-0.08	-0.08	0 %100
26	MP-13	Z	-0.08	-0.08	0 %100
27	MP-14	Z	-0.07	-0.07	0 %100
28	MP-15	Z	-0.08	-0.08	0 %100



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 Model Name : 43036 - West Haven & RT 162 CT

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
29	SA-1	Z	-0.08	0	%100
30	SA-2	Z	-0.08	0	%100
31	SA-3	Z	-0.19	0	%100
32	SF1-TH	Z	-0.27	0	%100
33	SF2-TH	Z	-0.27	0	%100
34	M34	Z	0	0	%100
35	M35	Z	-0.08	0	%100
36	M36	Z	-0.08	0	%100
37	M37	Z	-0.07	0	%100
38	M38	Z	-0.07	0	%100
39	M39	Z	0	0	%100
40	M40	Z	-0.08	0	%100
41	M41	Z	-0.08	0	%100
42	M42	Z	0	0	%100
43	M43	Z	-0.1	0	%100
44	M44	Z	-0.1	0	%100
45	M45	Z	-0.1	0	%100
46	M46	Z	-0.1	0	%100
47	M47	Z	-0.1	0	%100
48	M48	Z	-0.1	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.007	0	%100
2	CP-2	X	.003	0	%100
3	CP-3	X	.003	0	%100
4	FFTH	X	.008	0	%100
5	GSI-1	X	.005	0	%100
6	GSI-2	X	.011	0	%100
7	GSI-3	X	.006	0	%100
8	INT1-P1	X	.003	0	%100
9	INT1-P2	X	.003	0	%100
10	INT2-P1	X	.003	0	%100
11	INT2-P2	X	.003	0	%100
12	INT3-P1	X	.007	0	%100
13	INT3-P2	X	.007	0	%100
14	MP-1	X	.004	0	%100
15	MP-2	X	.004	0	%100
16	MP-3	X	.004	0	%100
17	MP-4	X	.004	0	%100
18	MP-5	X	.004	0	%100
19	MP-6	X	.004	0	%100
20	MP-7	X	.004	0	%100
21	MP-8	X	.004	0	%100
22	MP-9	X	.004	0	%100
23	MP-10	X	.004	0	%100
24	MP-11	X	.004	0	%100
25	MP-12	X	.004	0	%100
26	MP-13	X	.004	0	%100
27	MP-14	X	.004	0	%100
28	MP-15	X	.004	0	%100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
29	SA-1	X	.008	.008	0	%100
30	SA-2	X	0	0	0	%100
31	SA-3	X	.006	.006	0	%100
32	SF1-TH	X	.006	.006	0	%100
33	SF2-TH	X	.013	.013	0	%100
34	M34	X	.002	.002	0	%100
35	M35	X	.002	.002	0	%100
36	M36	X	.005	.005	0	%100
37	M37	X	.003	.003	0	%100
38	M38	X	.002	.002	0	%100
39	M39	X	.002	.002	0	%100
40	M40	X	.004	.004	0	%100
41	M41	X	.002	.002	0	%100
42	M42	X	.002	.002	0	%100
43	M43	X	.005	.005	0	%100
44	M44	X	.005	.005	0	%100
45	M45	X	.005	.005	0	%100
46	M46	X	.005	.005	0	%100
47	M47	X	.005	.005	0	%100
48	M48	X	.005	.005	0	%100
49	CP-1	Z	-.011	-.011	0	%100
50	CP-2	Z	-.006	-.006	0	%100
51	CP-3	Z	-.006	-.006	0	%100
52	FFTH	Z	-.014	-.014	0	%100
53	GSI-1	Z	-.01	-.01	0	%100
54	GSI-2	Z	-.021	-.021	0	%100
55	GSI-3	Z	-.011	-.011	0	%100
56	INT1-P1	Z	-.006	-.006	0	%100
57	INT1-P2	Z	-.006	-.006	0	%100
58	INT2-P1	Z	-.006	-.006	0	%100
59	INT2-P2	Z	-.006	-.006	0	%100
60	INT3-P1	Z	-.011	-.011	0	%100
61	INT3-P2	Z	-.011	-.011	0	%100
62	MP-1	Z	-.007	-.007	0	%100
63	MP-2	Z	-.007	-.007	0	%100
64	MP-3	Z	-.007	-.007	0	%100
65	MP-4	Z	-.006	-.006	0	%100
66	MP-5	Z	-.007	-.007	0	%100
67	MP-6	Z	-.007	-.007	0	%100
68	MP-7	Z	-.007	-.007	0	%100
69	MP-8	Z	-.007	-.007	0	%100
70	MP-9	Z	-.006	-.006	0	%100
71	MP-10	Z	-.007	-.007	0	%100
72	MP-11	Z	-.007	-.007	0	%100
73	MP-12	Z	-.007	-.007	0	%100
74	MP-13	Z	-.007	-.007	0	%100
75	MP-14	Z	-.006	-.006	0	%100
76	MP-15	Z	-.007	-.007	0	%100
77	SA-1	Z	-.012	-.012	0	%100
78	SA-2	Z	0	0	0	%100
79	SA-3	Z	-.014	-.014	0	%100
80	SF1-TH	Z	-.013	-.013	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
81	SF2-TH	Z	-.027	0	%100
82	M34	Z	-.004	0	%100
83	M35	Z	-.004	0	%100
84	M36	Z	-.008	0	%100
85	M37	Z	-.007	0	%100
86	M38	Z	-.003	0	%100
87	M39	Z	-.003	0	%100
88	M40	Z	-.008	0	%100
89	M41	Z	-.004	0	%100
90	M42	Z	-.004	0	%100
91	M43	Z	-.009	0	%100
92	M44	Z	-.009	0	%100
93	M45	Z	-.009	0	%100
94	M46	Z	-.009	0	%100
95	M47	Z	-.009	0	%100
96	M48	Z	-.009	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
1	CP-1	X	.009	0	%100
2	CP-2	X	.002	0	%100
3	CP-3	X	.007	0	%100
4	FFTH	X	.016	0	%100
5	GSI-1	X	.004	0	%100
6	GSI-2	X	.015	0	%100
7	GSI-3	X	.013	0	%100
8	INT1-P1	X	.002	0	%100
9	INT1-P2	X	.002	0	%100
10	INT2-P1	X	.007	0	%100
11	INT2-P2	X	.007	0	%100
12	INT3-P1	X	.009	0	%100
13	INT3-P2	X	.009	0	%100
14	MP-1	X	.005	0	%100
15	MP-2	X	.005	0	%100
16	MP-3	X	.005	0	%100
17	MP-4	X	.005	0	%100
18	MP-5	X	.005	0	%100
19	MP-6	X	.005	0	%100
20	MP-7	X	.005	0	%100
21	MP-8	X	.005	0	%100
22	MP-9	X	.005	0	%100
23	MP-10	X	.005	0	%100
24	MP-11	X	.005	0	%100
25	MP-12	X	.005	0	%100
26	MP-13	X	.005	0	%100
27	MP-14	X	.005	0	%100
28	MP-15	X	.005	0	%100
29	SA-1	X	.012	0	%100
30	SA-2	X	.003	0	%100
31	SA-3	X	.007	0	%100
32	SF1-TH	X	.005	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
33	SF2-TH	X	.018	0	%100
34	M34	X	.005	0	%100
35	M35	X	.002	0	%100
36	M36	X	.006	0	%100
37	M37	X	.004	0	%100
38	M38	X	.001	0	%100
39	M39	X	.004	0	%100
40	M40	X	.006	0	%100
41	M41	X	.002	0	%100
42	M42	X	.005	0	%100
43	M43	X	.007	0	%100
44	M44	X	.007	0	%100
45	M45	X	.007	0	%100
46	M46	X	.007	0	%100
47	M47	X	.007	0	%100
48	M48	X	.007	0	%100
49	CP-1	Z	-.009	0	%100
50	CP-2	Z	-.002	0	%100
51	CP-3	Z	-.007	0	%100
52	FFTH	Z	-.016	0	%100
53	GSI-1	Z	-.004	0	%100
54	GSI-2	Z	-.017	0	%100
55	GSI-3	Z	-.013	0	%100
56	INT1-P1	Z	-.002	0	%100
57	INT1-P2	Z	-.002	0	%100
58	INT2-P1	Z	-.007	0	%100
59	INT2-P2	Z	-.007	0	%100
60	INT3-P1	Z	-.009	0	%100
61	INT3-P2	Z	-.009	0	%100
62	MP-1	Z	-.005	0	%100
63	MP-2	Z	-.005	0	%100
64	MP-3	Z	-.005	0	%100
65	MP-4	Z	-.005	0	%100
66	MP-5	Z	-.005	0	%100
67	MP-6	Z	-.005	0	%100
68	MP-7	Z	-.005	0	%100
69	MP-8	Z	-.005	0	%100
70	MP-9	Z	-.005	0	%100
71	MP-10	Z	-.005	0	%100
72	MP-11	Z	-.005	0	%100
73	MP-12	Z	-.005	0	%100
74	MP-13	Z	-.005	0	%100
75	MP-14	Z	-.005	0	%100
76	MP-15	Z	-.005	0	%100
77	SA-1	Z	-.011	0	%100
78	SA-2	Z	-.003	0	%100
79	SA-3	Z	-.009	0	%100
80	SF1-TH	Z	-.006	0	%100
81	SF2-TH	Z	-.021	0	%100
82	M34	Z	-.005	0	%100
83	M35	Z	-.002	0	%100
84	M36	Z	-.006	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
85	M37	Z	-.005	0	%100
86	M38	Z	-.001	0	%100
87	M39	Z	-.004	0	%100
88	M40	Z	-.006	0	%100
89	M41	Z	-.002	0	%100
90	M42	Z	-.005	0	%100
91	M43	Z	-.007	0	%100
92	M44	Z	-.007	0	%100
93	M45	Z	-.007	0	%100
94	M46	Z	-.007	0	%100
95	M47	Z	-.007	0	%100
96	M48	Z	-.007	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	.01	0	%100
2	CP-2	X	0	0	%100
3	CP-3	X	.01	0	%100
4	FFTH	X	.024	0	%100
5	GSI-1	X	0	0	%100
6	GSI-2	X	.016	0	%100
7	GSI-3	X	.019	0	%100
8	INT1-P1	X	0	0	%100
9	INT1-P2	X	0	0	%100
10	INT2-P1	X	.01	0	%100
11	INT2-P2	X	.01	0	%100
12	INT3-P1	X	.01	0	%100
13	INT3-P2	X	.01	0	%100
14	MP-1	X	.007	0	%100
15	MP-2	X	.007	0	%100
16	MP-3	X	.007	0	%100
17	MP-4	X	.006	0	%100
18	MP-5	X	.007	0	%100
19	MP-6	X	.007	0	%100
20	MP-7	X	.007	0	%100
21	MP-8	X	.007	0	%100
22	MP-9	X	.006	0	%100
23	MP-10	X	.007	0	%100
24	MP-11	X	.007	0	%100
25	MP-12	X	.007	0	%100
26	MP-13	X	.007	0	%100
27	MP-14	X	.006	0	%100
28	MP-15	X	.007	0	%100
29	SA-1	X	.016	0	%100
30	SA-2	X	.008	0	%100
31	SA-3	X	.006	0	%100
32	SF1-TH	X	0	0	%100
33	SF2-TH	X	.019	0	%100
34	M34	X	.007	0	%100
35	M35	X	0	0	%100
36	M36	X	.007	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
37	M37	X	.005	0	%100
38	M38	X	0	0	%100
39	M39	X	.006	0	%100
40	M40	X	.006	0	%100
41	M41	X	0	0	%100
42	M42	X	.007	0	%100
43	M43	X	.009	0	%100
44	M44	X	.009	0	%100
45	M45	X	.009	0	%100
46	M46	X	.009	0	%100
47	M47	X	.009	0	%100
48	M48	X	.009	0	%100
49	CP-1	Z	-.006	0	%100
50	CP-2	Z	0	0	%100
51	CP-3	Z	-.006	0	%100
52	FFTH	Z	-.014	0	%100
53	GSI-1	Z	0	0	%100
54	GSI-2	Z	-.01	0	%100
55	GSI-3	Z	-.011	0	%100
56	INT1-P1	Z	0	0	%100
57	INT1-P2	Z	0	0	%100
58	INT2-P1	Z	-.006	0	%100
59	INT2-P2	Z	-.006	0	%100
60	INT3-P1	Z	-.006	0	%100
61	INT3-P2	Z	-.006	0	%100
62	MP-1	Z	-.004	0	%100
63	MP-2	Z	-.004	0	%100
64	MP-3	Z	-.004	0	%100
65	MP-4	Z	-.004	0	%100
66	MP-5	Z	-.004	0	%100
67	MP-6	Z	-.004	0	%100
68	MP-7	Z	-.004	0	%100
69	MP-8	Z	-.004	0	%100
70	MP-9	Z	-.004	0	%100
71	MP-10	Z	-.004	0	%100
72	MP-11	Z	-.004	0	%100
73	MP-12	Z	-.004	0	%100
74	MP-13	Z	-.004	0	%100
75	MP-14	Z	-.004	0	%100
76	MP-15	Z	-.004	0	%100
77	SA-1	Z	-.008	0	%100
78	SA-2	Z	-.004	0	%100
79	SA-3	Z	-.005	0	%100
80	SF1-TH	Z	0	0	%100
81	SF2-TH	Z	-.013	0	%100
82	M34	Z	-.004	0	%100
83	M35	Z	0	0	%100
84	M36	Z	-.004	0	%100
85	M37	Z	-.003	0	%100
86	M38	Z	0	0	%100
87	M39	Z	-.003	0	%100
88	M40	Z	-.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
89	M41	Z	0	0	%100
90	M42	Z	-.004	0	%100
91	M43	Z	-.005	0	%100
92	M44	Z	-.005	0	%100
93	M45	Z	-.005	0	%100
94	M46	Z	-.005	0	%100
95	M47	Z	-.005	0	%100
96	M48	Z	-.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.007	0	%100
2	CP-2	X	.007	0	%100
3	CP-3	X	.013	0	%100
4	FFTH	X	.033	0	%100
5	GSI-1	X	.011	0	%100
6	GSI-2	X	.011	0	%100
7	GSI-3	X	.025	0	%100
8	INT1-P1	X	.007	0	%100
9	INT1-P2	X	.007	0	%100
10	INT2-P1	X	.013	0	%100
11	INT2-P2	X	.013	0	%100
12	INT3-P1	X	.007	0	%100
13	INT3-P2	X	.007	0	%100
14	MP-1	X	.008	0	%100
15	MP-2	X	.008	0	%100
16	MP-3	X	.008	0	%100
17	MP-4	X	.007	0	%100
18	MP-5	X	.008	0	%100
19	MP-6	X	.008	0	%100
20	MP-7	X	.008	0	%100
21	MP-8	X	.008	0	%100
22	MP-9	X	.007	0	%100
23	MP-10	X	.008	0	%100
24	MP-11	X	.008	0	%100
25	MP-12	X	.008	0	%100
26	MP-13	X	.008	0	%100
27	MP-14	X	.007	0	%100
28	MP-15	X	.008	0	%100
29	SA-1	X	.016	0	%100
30	SA-2	X	.016	0	%100
31	SA-3	X	0	0	%100
32	SF1-TH	X	.013	0	%100
33	SF2-TH	X	.013	0	%100
34	M34	X	.009	0	%100
35	M35	X	.005	0	%100
36	M36	X	.005	0	%100
37	M37	X	.003	0	%100
38	M38	X	.003	0	%100
39	M39	X	.008	0	%100
40	M40	X	.004	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
41	M41	X	.004	.004	0	%100
42	M42	X	.009	.009	0	%100
43	M43	X	.01	.01	0	%100
44	M44	X	.01	.01	0	%100
45	M45	X	.01	.01	0	%100
46	M46	X	.01	.01	0	%100
47	M47	X	.01	.01	0	%100
48	M48	X	.01	.01	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
1	CP-1	X	0	0	%100	
2	CP-2	X	.01	.01	0	%100
3	CP-3	X	.01	.01	0	%100
4	FFTH	X	.024	.024	0	%100
5	GSI-1	X	.016	.016	0	%100
6	GSI-2	X	0	0	0	%100
7	GSI-3	X	.019	.019	0	%100
8	INT1-P1	X	.01	.01	0	%100
9	INT1-P2	X	.01	.01	0	%100
10	INT2-P1	X	.01	.01	0	%100
11	INT2-P2	X	.01	.01	0	%100
12	INT3-P1	X	0	0	0	%100
13	INT3-P2	X	0	0	0	%100
14	MP-1	X	.007	.007	0	%100
15	MP-2	X	.007	.007	0	%100
16	MP-3	X	.007	.007	0	%100
17	MP-4	X	.006	.006	0	%100
18	MP-5	X	.007	.007	0	%100
19	MP-6	X	.007	.007	0	%100
20	MP-7	X	.007	.007	0	%100
21	MP-8	X	.007	.007	0	%100
22	MP-9	X	.006	.006	0	%100
23	MP-10	X	.007	.007	0	%100
24	MP-11	X	.007	.007	0	%100
25	MP-12	X	.007	.007	0	%100
26	MP-13	X	.007	.007	0	%100
27	MP-14	X	.006	.006	0	%100
28	MP-15	X	.007	.007	0	%100
29	SA-1	X	.008	.008	0	%100
30	SA-2	X	.016	.016	0	%100
31	SA-3	X	.006	.006	0	%100
32	SF1-TH	X	.019	.019	0	%100
33	SF2-TH	X	0	0	0	%100
34	M34	X	.007	.007	0	%100
35	M35	X	.007	.007	0	%100
36	M36	X	0	0	0	%100
37	M37	X	0	0	0	%100
38	M38	X	.005	.005	0	%100
39	M39	X	.006	.006	0	%100
40	M40	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
41	M41	X	.006	.006	0 %100
42	M42	X	.007	.007	0 %100
43	M43	X	.009	.009	0 %100
44	M44	X	.009	.009	0 %100
45	M45	X	.009	.009	0 %100
46	M46	X	.009	.009	0 %100
47	M47	X	.009	.009	0 %100
48	M48	X	.009	.009	0 %100
49	CP-1	Z	0	0	0 %100
50	CP-2	Z	.006	.006	0 %100
51	CP-3	Z	.006	.006	0 %100
52	FFTH	Z	.014	.014	0 %100
53	GSI-1	Z	.01	.01	0 %100
54	GSI-2	Z	0	0	0 %100
55	GSI-3	Z	.011	.011	0 %100
56	INT1-P1	Z	.006	.006	0 %100
57	INT1-P2	Z	.006	.006	0 %100
58	INT2-P1	Z	.006	.006	0 %100
59	INT2-P2	Z	.006	.006	0 %100
60	INT3-P1	Z	0	0	0 %100
61	INT3-P2	Z	0	0	0 %100
62	MP-1	Z	.004	.004	0 %100
63	MP-2	Z	.004	.004	0 %100
64	MP-3	Z	.004	.004	0 %100
65	MP-4	Z	.004	.004	0 %100
66	MP-5	Z	.004	.004	0 %100
67	MP-6	Z	.004	.004	0 %100
68	MP-7	Z	.004	.004	0 %100
69	MP-8	Z	.004	.004	0 %100
70	MP-9	Z	.004	.004	0 %100
71	MP-10	Z	.004	.004	0 %100
72	MP-11	Z	.004	.004	0 %100
73	MP-12	Z	.004	.004	0 %100
74	MP-13	Z	.004	.004	0 %100
75	MP-14	Z	.004	.004	0 %100
76	MP-15	Z	.004	.004	0 %100
77	SA-1	Z	.004	.004	0 %100
78	SA-2	Z	.008	.008	0 %100
79	SA-3	Z	.005	.005	0 %100
80	SF1-TH	Z	.013	.013	0 %100
81	SF2-TH	Z	0	0	0 %100
82	M34	Z	.004	.004	0 %100
83	M35	Z	.004	.004	0 %100
84	M36	Z	0	0	0 %100
85	M37	Z	0	0	0 %100
86	M38	Z	.003	.003	0 %100
87	M39	Z	.003	.003	0 %100
88	M40	Z	0	0	0 %100
89	M41	Z	.004	.004	0 %100
90	M42	Z	.004	.004	0 %100
91	M43	Z	.005	.005	0 %100
92	M44	Z	.005	.005	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
93	M45	Z	.005	.005	0 %100
94	M46	Z	.005	.005	0 %100
95	M47	Z	.005	.005	0 %100
96	M48	Z	.005	.005	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	.002	.002	0 %100
2	CP-2	X	.009	.009	0 %100
3	CP-3	X	.007	.007	0 %100
4	FFTH	X	.016	.016	0 %100
5	GSI-1	X	.015	.015	0 %100
6	GSI-2	X	.004	.004	0 %100
7	GSI-3	X	.013	.013	0 %100
8	INT1-P1	X	.009	.009	0 %100
9	INT1-P2	X	.009	.009	0 %100
10	INT2-P1	X	.007	.007	0 %100
11	INT2-P2	X	.007	.007	0 %100
12	INT3-P1	X	.002	.002	0 %100
13	INT3-P2	X	.002	.002	0 %100
14	MP-1	X	.005	.005	0 %100
15	MP-2	X	.005	.005	0 %100
16	MP-3	X	.005	.005	0 %100
17	MP-4	X	.005	.005	0 %100
18	MP-5	X	.005	.005	0 %100
19	MP-6	X	.005	.005	0 %100
20	MP-7	X	.005	.005	0 %100
21	MP-8	X	.005	.005	0 %100
22	MP-9	X	.005	.005	0 %100
23	MP-10	X	.005	.005	0 %100
24	MP-11	X	.005	.005	0 %100
25	MP-12	X	.005	.005	0 %100
26	MP-13	X	.005	.005	0 %100
27	MP-14	X	.005	.005	0 %100
28	MP-15	X	.005	.005	0 %100
29	SA-1	X	.003	.003	0 %100
30	SA-2	X	.012	.012	0 %100
31	SA-3	X	.007	.007	0 %100
32	SF1-TH	X	.018	.018	0 %100
33	SF2-TH	X	.005	.005	0 %100
34	M34	X	.005	.005	0 %100
35	M35	X	.006	.006	0 %100
36	M36	X	.002	.002	0 %100
37	M37	X	.001	.001	0 %100
38	M38	X	.004	.004	0 %100
39	M39	X	.004	.004	0 %100
40	M40	X	.002	.002	0 %100
41	M41	X	.006	.006	0 %100
42	M42	X	.005	.005	0 %100
43	M43	X	.007	.007	0 %100
44	M44	X	.007	.007	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
45	M45	X	.007	.007	0 %100
46	M46	X	.007	.007	0 %100
47	M47	X	.007	.007	0 %100
48	M48	X	.007	.007	0 %100
49	CP-1	Z	.002	.002	0 %100
50	CP-2	Z	.009	.009	0 %100
51	CP-3	Z	.007	.007	0 %100
52	FFTH	Z	.016	.016	0 %100
53	GSI-1	Z	.017	.017	0 %100
54	GSI-2	Z	.004	.004	0 %100
55	GSI-3	Z	.013	.013	0 %100
56	INT1-P1	Z	.009	.009	0 %100
57	INT1-P2	Z	.009	.009	0 %100
58	INT2-P1	Z	.007	.007	0 %100
59	INT2-P2	Z	.007	.007	0 %100
60	INT3-P1	Z	.002	.002	0 %100
61	INT3-P2	Z	.002	.002	0 %100
62	MP-1	Z	.005	.005	0 %100
63	MP-2	Z	.005	.005	0 %100
64	MP-3	Z	.005	.005	0 %100
65	MP-4	Z	.005	.005	0 %100
66	MP-5	Z	.005	.005	0 %100
67	MP-6	Z	.005	.005	0 %100
68	MP-7	Z	.005	.005	0 %100
69	MP-8	Z	.005	.005	0 %100
70	MP-9	Z	.005	.005	0 %100
71	MP-10	Z	.005	.005	0 %100
72	MP-11	Z	.005	.005	0 %100
73	MP-12	Z	.005	.005	0 %100
74	MP-13	Z	.005	.005	0 %100
75	MP-14	Z	.005	.005	0 %100
76	MP-15	Z	.005	.005	0 %100
77	SA-1	Z	.003	.003	0 %100
78	SA-2	Z	.011	.011	0 %100
79	SA-3	Z	.009	.009	0 %100
80	SF1-TH	Z	.021	.021	0 %100
81	SF2-TH	Z	.006	.006	0 %100
82	M34	Z	.005	.005	0 %100
83	M35	Z	.006	.006	0 %100
84	M36	Z	.002	.002	0 %100
85	M37	Z	.001	.001	0 %100
86	M38	Z	.005	.005	0 %100
87	M39	Z	.004	.004	0 %100
88	M40	Z	.002	.002	0 %100
89	M41	Z	.006	.006	0 %100
90	M42	Z	.005	.005	0 %100
91	M43	Z	.007	.007	0 %100
92	M44	Z	.007	.007	0 %100
93	M45	Z	.007	.007	0 %100
94	M46	Z	.007	.007	0 %100
95	M47	Z	.007	.007	0 %100
96	M48	Z	.007	.007	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 13 : 240 Wind - No Ice)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.003	.003	0 %100
2	CP-2	X	.007	.007	0 %100
3	CP-3	X	.003	.003	0 %100
4	FFTH	X	.008	.008	0 %100
5	GSI-1	X	.011	.011	0 %100
6	GSI-2	X	.005	.005	0 %100
7	GSI-3	X	.006	.006	0 %100
8	INT1-P1	X	.007	.007	0 %100
9	INT1-P2	X	.007	.007	0 %100
10	INT2-P1	X	.003	.003	0 %100
11	INT2-P2	X	.003	.003	0 %100
12	INT3-P1	X	.003	.003	0 %100
13	INT3-P2	X	.003	.003	0 %100
14	MP-1	X	.004	.004	0 %100
15	MP-2	X	.004	.004	0 %100
16	MP-3	X	.004	.004	0 %100
17	MP-4	X	.004	.004	0 %100
18	MP-5	X	.004	.004	0 %100
19	MP-6	X	.004	.004	0 %100
20	MP-7	X	.004	.004	0 %100
21	MP-8	X	.004	.004	0 %100
22	MP-9	X	.004	.004	0 %100
23	MP-10	X	.004	.004	0 %100
24	MP-11	X	.004	.004	0 %100
25	MP-12	X	.004	.004	0 %100
26	MP-13	X	.004	.004	0 %100
27	MP-14	X	.004	.004	0 %100
28	MP-15	X	.004	.004	0 %100
29	SA-1	X	0	0	0 %100
30	SA-2	X	.008	.008	0 %100
31	SA-3	X	.006	.006	0 %100
32	SF1-TH	X	.013	.013	0 %100
33	SF2-TH	X	.006	.006	0 %100
34	M34	X	.002	.002	0 %100
35	M35	X	.005	.005	0 %100
36	M36	X	.002	.002	0 %100
37	M37	X	.002	.002	0 %100
38	M38	X	.003	.003	0 %100
39	M39	X	.002	.002	0 %100
40	M40	X	.002	.002	0 %100
41	M41	X	.004	.004	0 %100
42	M42	X	.002	.002	0 %100
43	M43	X	.005	.005	0 %100
44	M44	X	.005	.005	0 %100
45	M45	X	.005	.005	0 %100
46	M46	X	.005	.005	0 %100
47	M47	X	.005	.005	0 %100
48	M48	X	.005	.005	0 %100
49	CP-1	Z	.006	.006	0 %100
50	CP-2	Z	.011	.011	0 %100
51	CP-3	Z	.006	.006	0 %100
52	FFTH	Z	.014	.014	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
53	GSI-1	Z	.021	.021	0 %100
54	GSI-2	Z	.01	.01	0 %100
55	GSI-3	Z	.011	.011	0 %100
56	INT1-P1	Z	.011	.011	0 %100
57	INT1-P2	Z	.011	.011	0 %100
58	INT2-P1	Z	.006	.006	0 %100
59	INT2-P2	Z	.006	.006	0 %100
60	INT3-P1	Z	.006	.006	0 %100
61	INT3-P2	Z	.006	.006	0 %100
62	MP-1	Z	.007	.007	0 %100
63	MP-2	Z	.007	.007	0 %100
64	MP-3	Z	.007	.007	0 %100
65	MP-4	Z	.006	.006	0 %100
66	MP-5	Z	.007	.007	0 %100
67	MP-6	Z	.007	.007	0 %100
68	MP-7	Z	.007	.007	0 %100
69	MP-8	Z	.007	.007	0 %100
70	MP-9	Z	.006	.006	0 %100
71	MP-10	Z	.007	.007	0 %100
72	MP-11	Z	.007	.007	0 %100
73	MP-12	Z	.007	.007	0 %100
74	MP-13	Z	.007	.007	0 %100
75	MP-14	Z	.006	.006	0 %100
76	MP-15	Z	.007	.007	0 %100
77	SA-1	Z	0	0	0 %100
78	SA-2	Z	.012	.012	0 %100
79	SA-3	Z	.014	.014	0 %100
80	SF1-TH	Z	.027	.027	0 %100
81	SF2-TH	Z	.013	.013	0 %100
82	M34	Z	.004	.004	0 %100
83	M35	Z	.008	.008	0 %100
84	M36	Z	.004	.004	0 %100
85	M37	Z	.003	.003	0 %100
86	M38	Z	.007	.007	0 %100
87	M39	Z	.003	.003	0 %100
88	M40	Z	.004	.004	0 %100
89	M41	Z	.008	.008	0 %100
90	M42	Z	.004	.004	0 %100
91	M43	Z	.009	.009	0 %100
92	M44	Z	.009	.009	0 %100
93	M45	Z	.009	.009	0 %100
94	M46	Z	.009	.009	0 %100
95	M47	Z	.009	.009	0 %100
96	M48	Z	.009	.009	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	Z	.011	.011	0 %100
2	CP-2	Z	.011	.011	0 %100
3	CP-3	Z	0	0	0 %100
4	FFTH	Z	0	0	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
5	GSI-1	Z	.021	.021	0 %100
6	GSI-2	Z	.021	.021	0 %100
7	GSI-3	Z	0	0	0 %100
8	INT1-P1	Z	.011	.011	0 %100
9	INT1-P2	Z	.011	.011	0 %100
10	INT2-P1	Z	0	0	0 %100
11	INT2-P2	Z	0	0	0 %100
12	INT3-P1	Z	.011	.011	0 %100
13	INT3-P2	Z	.011	.011	0 %100
14	MP-1	Z	.008	.008	0 %100
15	MP-2	Z	.008	.008	0 %100
16	MP-3	Z	.008	.008	0 %100
17	MP-4	Z	.007	.007	0 %100
18	MP-5	Z	.008	.008	0 %100
19	MP-6	Z	.008	.008	0 %100
20	MP-7	Z	.008	.008	0 %100
21	MP-8	Z	.008	.008	0 %100
22	MP-9	Z	.007	.007	0 %100
23	MP-10	Z	.008	.008	0 %100
24	MP-11	Z	.008	.008	0 %100
25	MP-12	Z	.008	.008	0 %100
26	MP-13	Z	.008	.008	0 %100
27	MP-14	Z	.007	.007	0 %100
28	MP-15	Z	.008	.008	0 %100
29	SA-1	Z	.008	.008	0 %100
30	SA-2	Z	.008	.008	0 %100
31	SA-3	Z	.019	.019	0 %100
32	SF1-TH	Z	.027	.027	0 %100
33	SF2-TH	Z	.027	.027	0 %100
34	M34	Z	0	0	0 %100
35	M35	Z	.008	.008	0 %100
36	M36	Z	.008	.008	0 %100
37	M37	Z	.007	.007	0 %100
38	M38	Z	.007	.007	0 %100
39	M39	Z	0	0	0 %100
40	M40	Z	.008	.008	0 %100
41	M41	Z	.008	.008	0 %100
42	M42	Z	0	0	0 %100
43	M43	Z	.01	.01	0 %100
44	M44	Z	.01	.01	0 %100
45	M45	Z	.01	.01	0 %100
46	M46	Z	.01	.01	0 %100
47	M47	Z	.01	.01	0 %100
48	M48	Z	.01	.01	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-.007	-.007	0 %100
2	CP-2	X	-.003	-.003	0 %100
3	CP-3	X	-.003	-.003	0 %100
4	FFTH	X	-.008	-.008	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
5	GSI-1	X	-0.05	-0.05	0 %100
6	GSI-2	X	-0.11	-0.11	0 %100
7	GSI-3	X	-0.06	-0.06	0 %100
8	INT1-P1	X	-0.03	-0.03	0 %100
9	INT1-P2	X	-0.03	-0.03	0 %100
10	INT2-P1	X	-0.03	-0.03	0 %100
11	INT2-P2	X	-0.03	-0.03	0 %100
12	INT3-P1	X	-0.07	-0.07	0 %100
13	INT3-P2	X	-0.07	-0.07	0 %100
14	MP-1	X	-0.04	-0.04	0 %100
15	MP-2	X	-0.04	-0.04	0 %100
16	MP-3	X	-0.04	-0.04	0 %100
17	MP-4	X	-0.04	-0.04	0 %100
18	MP-5	X	-0.04	-0.04	0 %100
19	MP-6	X	-0.04	-0.04	0 %100
20	MP-7	X	-0.04	-0.04	0 %100
21	MP-8	X	-0.04	-0.04	0 %100
22	MP-9	X	-0.04	-0.04	0 %100
23	MP-10	X	-0.04	-0.04	0 %100
24	MP-11	X	-0.04	-0.04	0 %100
25	MP-12	X	-0.04	-0.04	0 %100
26	MP-13	X	-0.04	-0.04	0 %100
27	MP-14	X	-0.04	-0.04	0 %100
28	MP-15	X	-0.04	-0.04	0 %100
29	SA-1	X	-0.08	-0.08	0 %100
30	SA-2	X	0	0	0 %100
31	SA-3	X	-0.06	-0.06	0 %100
32	SF1-TH	X	-0.06	-0.06	0 %100
33	SF2-TH	X	-0.13	-0.13	0 %100
34	M34	X	-0.02	-0.02	0 %100
35	M35	X	-0.02	-0.02	0 %100
36	M36	X	-0.05	-0.05	0 %100
37	M37	X	-0.03	-0.03	0 %100
38	M38	X	-0.02	-0.02	0 %100
39	M39	X	-0.02	-0.02	0 %100
40	M40	X	-0.04	-0.04	0 %100
41	M41	X	-0.02	-0.02	0 %100
42	M42	X	-0.02	-0.02	0 %100
43	M43	X	-0.05	-0.05	0 %100
44	M44	X	-0.05	-0.05	0 %100
45	M45	X	-0.05	-0.05	0 %100
46	M46	X	-0.05	-0.05	0 %100
47	M47	X	-0.05	-0.05	0 %100
48	M48	X	-0.05	-0.05	0 %100
49	CP-1	Z	0.11	0.11	0 %100
50	CP-2	Z	0.06	0.06	0 %100
51	CP-3	Z	0.06	0.06	0 %100
52	FFTH	Z	0.14	0.14	0 %100
53	GSI-1	Z	.01	.01	0 %100
54	GSI-2	Z	.021	.021	0 %100
55	GSI-3	Z	.011	.011	0 %100
56	INT1-P1	Z	.006	.006	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
57	INT1-P2	Z	.006	.006	0 %100
58	INT2-P1	Z	.006	.006	0 %100
59	INT2-P2	Z	.006	.006	0 %100
60	INT3-P1	Z	.011	.011	0 %100
61	INT3-P2	Z	.011	.011	0 %100
62	MP-1	Z	.007	.007	0 %100
63	MP-2	Z	.007	.007	0 %100
64	MP-3	Z	.007	.007	0 %100
65	MP-4	Z	.006	.006	0 %100
66	MP-5	Z	.007	.007	0 %100
67	MP-6	Z	.007	.007	0 %100
68	MP-7	Z	.007	.007	0 %100
69	MP-8	Z	.007	.007	0 %100
70	MP-9	Z	.006	.006	0 %100
71	MP-10	Z	.007	.007	0 %100
72	MP-11	Z	.007	.007	0 %100
73	MP-12	Z	.007	.007	0 %100
74	MP-13	Z	.007	.007	0 %100
75	MP-14	Z	.006	.006	0 %100
76	MP-15	Z	.007	.007	0 %100
77	SA-1	Z	.012	.012	0 %100
78	SA-2	Z	0	0	0 %100
79	SA-3	Z	.014	.014	0 %100
80	SF1-TH	Z	.013	.013	0 %100
81	SF2-TH	Z	.027	.027	0 %100
82	M34	Z	.004	.004	0 %100
83	M35	Z	.004	.004	0 %100
84	M36	Z	.008	.008	0 %100
85	M37	Z	.007	.007	0 %100
86	M38	Z	.003	.003	0 %100
87	M39	Z	.003	.003	0 %100
88	M40	Z	.008	.008	0 %100
89	M41	Z	.004	.004	0 %100
90	M42	Z	.004	.004	0 %100
91	M43	Z	.009	.009	0 %100
92	M44	Z	.009	.009	0 %100
93	M45	Z	.009	.009	0 %100
94	M46	Z	.009	.009	0 %100
95	M47	Z	.009	.009	0 %100
96	M48	Z	.009	.009	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	-.009	-.009	0 %100
2	CP-2	X	-.002	-.002	0 %100
3	CP-3	X	-.007	-.007	0 %100
4	FFTH	X	-.016	-.016	0 %100
5	GSI-1	X	-.004	-.004	0 %100
6	GSI-2	X	-.015	-.015	0 %100
7	GSI-3	X	-.013	-.013	0 %100
8	INT1-P1	X	-.002	-.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
9	INT1-P2	X	-0.02	0	%100
10	INT2-P1	X	-0.07	0	%100
11	INT2-P2	X	-0.07	0	%100
12	INT3-P1	X	-0.09	0	%100
13	INT3-P2	X	-0.09	0	%100
14	MP-1	X	-0.05	0	%100
15	MP-2	X	-0.05	0	%100
16	MP-3	X	-0.05	0	%100
17	MP-4	X	-0.05	0	%100
18	MP-5	X	-0.05	0	%100
19	MP-6	X	-0.05	0	%100
20	MP-7	X	-0.05	0	%100
21	MP-8	X	-0.05	0	%100
22	MP-9	X	-0.05	0	%100
23	MP-10	X	-0.05	0	%100
24	MP-11	X	-0.05	0	%100
25	MP-12	X	-0.05	0	%100
26	MP-13	X	-0.05	0	%100
27	MP-14	X	-0.05	0	%100
28	MP-15	X	-0.05	0	%100
29	SA-1	X	-0.12	0	%100
30	SA-2	X	-0.03	0	%100
31	SA-3	X	-0.07	0	%100
32	SF1-TH	X	-0.05	0	%100
33	SF2-TH	X	-0.18	0	%100
34	M34	X	-0.05	0	%100
35	M35	X	-0.02	0	%100
36	M36	X	-0.06	0	%100
37	M37	X	-0.04	0	%100
38	M38	X	-0.01	0	%100
39	M39	X	-0.04	0	%100
40	M40	X	-0.06	0	%100
41	M41	X	-0.02	0	%100
42	M42	X	-0.05	0	%100
43	M43	X	-0.07	0	%100
44	M44	X	-0.07	0	%100
45	M45	X	-0.07	0	%100
46	M46	X	-0.07	0	%100
47	M47	X	-0.07	0	%100
48	M48	X	-0.07	0	%100
49	CP-1	Z	0.09	0	%100
50	CP-2	Z	0.02	0	%100
51	CP-3	Z	0.07	0	%100
52	FFTH	Z	0.16	0	%100
53	GSI-1	Z	0.04	0	%100
54	GSI-2	Z	0.17	0	%100
55	GSI-3	Z	0.13	0	%100
56	INT1-P1	Z	0.02	0	%100
57	INT1-P2	Z	0.02	0	%100
58	INT2-P1	Z	0.07	0	%100
59	INT2-P2	Z	0.07	0	%100
60	INT3-P1	Z	0.09	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
61	INT3-P2	Z	0.09	0	%100
62	MP-1	Z	0.05	0	%100
63	MP-2	Z	0.05	0	%100
64	MP-3	Z	0.05	0	%100
65	MP-4	Z	0.05	0	%100
66	MP-5	Z	0.05	0	%100
67	MP-6	Z	0.05	0	%100
68	MP-7	Z	0.05	0	%100
69	MP-8	Z	0.05	0	%100
70	MP-9	Z	0.05	0	%100
71	MP-10	Z	0.05	0	%100
72	MP-11	Z	0.05	0	%100
73	MP-12	Z	0.05	0	%100
74	MP-13	Z	0.05	0	%100
75	MP-14	Z	0.05	0	%100
76	MP-15	Z	0.05	0	%100
77	SA-1	Z	0.11	0	%100
78	SA-2	Z	0.03	0	%100
79	SA-3	Z	0.09	0	%100
80	SF1-TH	Z	0.06	0	%100
81	SF2-TH	Z	0.21	0	%100
82	M34	Z	0.05	0	%100
83	M35	Z	0.02	0	%100
84	M36	Z	0.06	0	%100
85	M37	Z	0.05	0	%100
86	M38	Z	0.01	0	%100
87	M39	Z	0.04	0	%100
88	M40	Z	0.06	0	%100
89	M41	Z	0.02	0	%100
90	M42	Z	0.05	0	%100
91	M43	Z	0.07	0	%100
92	M44	Z	0.07	0	%100
93	M45	Z	0.07	0	%100
94	M46	Z	0.07	0	%100
95	M47	Z	0.07	0	%100
96	M48	Z	0.07	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	-0.1	0	%100
2	CP-2	X	0	0	%100
3	CP-3	X	-0.1	0	%100
4	FFTH	X	-0.24	0	%100
5	GSI-1	X	0	0	%100
6	GSI-2	X	-0.16	0	%100
7	GSI-3	X	-0.19	0	%100
8	INT1-P1	X	0	0	%100
9	INT1-P2	X	0	0	%100
10	INT2-P1	X	-0.1	0	%100
11	INT2-P2	X	-0.1	0	%100
12	INT3-P1	X	-0.1	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
13	INT3-P2	X	-01	0	%100	
14	MP-1	X	-007	0	%100	
15	MP-2	X	-007	0	%100	
16	MP-3	X	-007	0	%100	
17	MP-4	X	-006	0	%100	
18	MP-5	X	-007	0	%100	
19	MP-6	X	-007	0	%100	
20	MP-7	X	-007	0	%100	
21	MP-8	X	-007	0	%100	
22	MP-9	X	-006	0	%100	
23	MP-10	X	-007	0	%100	
24	MP-11	X	-007	0	%100	
25	MP-12	X	-007	0	%100	
26	MP-13	X	-007	0	%100	
27	MP-14	X	-006	0	%100	
28	MP-15	X	-007	0	%100	
29	SA-1	X	-016	0	%100	
30	SA-2	X	-008	0	%100	
31	SA-3	X	-006	0	%100	
32	SF1-TH	X	0	0	%100	
33	SF2-TH	X	-019	0	%100	
34	M34	X	-007	0	%100	
35	M35	X	0	0	%100	
36	M36	X	-007	0	%100	
37	M37	X	-005	0	%100	
38	M38	X	0	0	%100	
39	M39	X	-006	0	%100	
40	M40	X	-006	0	%100	
41	M41	X	0	0	%100	
42	M42	X	-007	0	%100	
43	M43	X	-009	0	%100	
44	M44	X	-009	0	%100	
45	M45	X	-009	0	%100	
46	M46	X	-009	0	%100	
47	M47	X	-009	0	%100	
48	M48	X	-009	0	%100	
49	CP-1	Z	.006	.006	0	%100
50	CP-2	Z	0	0	0	%100
51	CP-3	Z	.006	.006	0	%100
52	FFTH	Z	.014	.014	0	%100
53	GSI-1	Z	0	0	0	%100
54	GSI-2	Z	.01	.01	0	%100
55	GSI-3	Z	.011	.011	0	%100
56	INT1-P1	Z	0	0	0	%100
57	INT1-P2	Z	0	0	0	%100
58	INT2-P1	Z	.006	.006	0	%100
59	INT2-P2	Z	.006	.006	0	%100
60	INT3-P1	Z	.006	.006	0	%100
61	INT3-P2	Z	.006	.006	0	%100
62	MP-1	Z	.004	.004	0	%100
63	MP-2	Z	.004	.004	0	%100
64	MP-3	Z	.004	.004	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
65	MP-4	Z	.004	.004	0	%100
66	MP-5	Z	.004	.004	0	%100
67	MP-6	Z	.004	.004	0	%100
68	MP-7	Z	.004	.004	0	%100
69	MP-8	Z	.004	.004	0	%100
70	MP-9	Z	.004	.004	0	%100
71	MP-10	Z	.004	.004	0	%100
72	MP-11	Z	.004	.004	0	%100
73	MP-12	Z	.004	.004	0	%100
74	MP-13	Z	.004	.004	0	%100
75	MP-14	Z	.004	.004	0	%100
76	MP-15	Z	.004	.004	0	%100
77	SA-1	Z	.008	.008	0	%100
78	SA-2	Z	.004	.004	0	%100
79	SA-3	Z	.005	.005	0	%100
80	SF1-TH	Z	0	0	0	%100
81	SF2-TH	Z	.013	.013	0	%100
82	M34	Z	.004	.004	0	%100
83	M35	Z	0	0	0	%100
84	M36	Z	.004	.004	0	%100
85	M37	Z	.003	.003	0	%100
86	M38	Z	0	0	0	%100
87	M39	Z	.003	.003	0	%100
88	M40	Z	.004	.004	0	%100
89	M41	Z	0	0	0	%100
90	M42	Z	.004	.004	0	%100
91	M43	Z	.005	.005	0	%100
92	M44	Z	.005	.005	0	%100
93	M45	Z	.005	.005	0	%100
94	M46	Z	.005	.005	0	%100
95	M47	Z	.005	.005	0	%100
96	M48	Z	.005	.005	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]	
1	CP-1	Y	-.004	-.004	0	%100
2	CP-2	Y	-.004	-.004	0	%100
3	CP-3	Y	-.004	-.004	0	%100
4	FFTH	Y	-.008	-.008	0	%100
5	GSI-1	Y	-.008	-.008	0	%100
6	GSI-2	Y	-.008	-.008	0	%100
7	GSI-3	Y	-.008	-.008	0	%100
8	INT1-P1	Y	-.005	-.005	0	%100
9	INT1-P2	Y	-.005	-.005	0	%100
10	INT2-P1	Y	-.005	-.005	0	%100
11	INT2-P2	Y	-.005	-.005	0	%100
12	INT3-P1	Y	-.005	-.005	0	%100
13	INT3-P2	Y	-.005	-.005	0	%100
14	MP-1	Y	-.004	-.004	0	%100
15	MP-2	Y	-.004	-.004	0	%100
16	MP-3	Y	-.004	-.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
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Member Distributed Loads (BLC 18 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
17	MP-4	Y	-0.04	-0.04	0 %100
18	MP-5	Y	-0.04	-0.04	0 %100
19	MP-6	Y	-0.04	-0.04	0 %100
20	MP-7	Y	-0.04	-0.04	0 %100
21	MP-8	Y	-0.04	-0.04	0 %100
22	MP-9	Y	-0.04	-0.04	0 %100
23	MP-10	Y	-0.04	-0.04	0 %100
24	MP-11	Y	-0.04	-0.04	0 %100
25	MP-12	Y	-0.04	-0.04	0 %100
26	MP-13	Y	-0.04	-0.04	0 %100
27	MP-14	Y	-0.04	-0.04	0 %100
28	MP-15	Y	-0.04	-0.04	0 %100
29	SA-1	Y	-0.06	-0.06	0 %100
30	SA-2	Y	-0.06	-0.06	0 %100
31	SA-3	Y	-0.06	-0.06	0 %100
32	SF1-TH	Y	-0.08	-0.08	0 %100
33	SF2-TH	Y	-0.08	-0.08	0 %100
34	M34	Y	-0.05	-0.05	0 %100
35	M35	Y	-0.05	-0.05	0 %100
36	M36	Y	-0.05	-0.05	0 %100
37	M37	Y	-0.04	-0.04	0 %100
38	M38	Y	-0.04	-0.04	0 %100
39	M39	Y	-0.04	-0.04	0 %100
40	M40	Y	-0.04	-0.04	0 %100
41	M41	Y	-0.04	-0.04	0 %100
42	M42	Y	-0.04	-0.04	0 %100
43	M43	Y	-0.04	-0.04	0 %100
44	M44	Y	-0.04	-0.04	0 %100
45	M45	Y	-0.04	-0.04	0 %100
46	M46	Y	-0.04	-0.04	0 %100
47	M47	Y	-0.04	-0.04	0 %100
48	M48	Y	-0.04	-0.04	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	-0.04	-0.04	0 %100
2	CP-2	X	-0.04	-0.04	0 %100
3	CP-3	X	-0.04	-0.04	0 %100
4	FFTH	X	-0.07	-0.07	0 %100
5	GSI-1	X	-0.05	-0.05	0 %100
6	GSI-2	X	-0.05	-0.05	0 %100
7	GSI-3	X	-0.06	-0.06	0 %100
8	INT1-P1	X	-0.05	-0.05	0 %100
9	INT1-P2	X	-0.05	-0.05	0 %100
10	INT2-P1	X	-0.05	-0.05	0 %100
11	INT2-P2	X	-0.05	-0.05	0 %100
12	INT3-P1	X	-0.05	-0.05	0 %100
13	INT3-P2	X	-0.05	-0.05	0 %100
14	MP-1	X	-0.02	-0.02	0 %100
15	MP-2	X	-0.02	-0.02	0 %100
16	MP-3	X	-0.02	-0.02	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
17	MP-4	X	-0.02	-0.02	0 %100
18	MP-5	X	-0.02	-0.02	0 %100
19	MP-6	X	-0.02	-0.02	0 %100
20	MP-7	X	-0.02	-0.02	0 %100
21	MP-8	X	-0.02	-0.02	0 %100
22	MP-9	X	-0.02	-0.02	0 %100
23	MP-10	X	-0.02	-0.02	0 %100
24	MP-11	X	-0.02	-0.02	0 %100
25	MP-12	X	-0.02	-0.02	0 %100
26	MP-13	X	-0.02	-0.02	0 %100
27	MP-14	X	-0.02	-0.02	0 %100
28	MP-15	X	-0.02	-0.02	0 %100
29	SA-1	X	-0.05	-0.05	0 %100
30	SA-2	X	-0.05	-0.05	0 %100
31	SA-3	X	-0.04	-0.04	0 %100
32	SF1-TH	X	-0.06	-0.06	0 %100
33	SF2-TH	X	-0.06	-0.06	0 %100
34	M34	X	-0.03	-0.03	0 %100
35	M35	X	-0.02	-0.02	0 %100
36	M36	X	-0.02	-0.02	0 %100
37	M37	X	-0.02	-0.02	0 %100
38	M38	X	-0.02	-0.02	0 %100
39	M39	X	-0.02	-0.02	0 %100
40	M40	X	-0.03	-0.03	0 %100
41	M41	X	-0.03	-0.03	0 %100
42	M42	X	-0.03	-0.03	0 %100
43	M43	X	-0.03	-0.03	0 %100
44	M44	X	-0.03	-0.03	0 %100
45	M45	X	-0.03	-0.03	0 %100
46	M46	X	-0.03	-0.03	0 %100
47	M47	X	-0.03	-0.03	0 %100
48	M48	X	-0.03	-0.03	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....	End Location[ft....
1	CP-1	X	0	0	0 %100
2	CP-2	X	-0.03	-0.03	0 %100
3	CP-3	X	-0.03	-0.03	0 %100
4	FFTH	X	-0.05	-0.05	0 %100
5	GSI-1	X	-0.04	-0.04	0 %100
6	GSI-2	X	0	0	0 %100
7	GSI-3	X	-0.04	-0.04	0 %100
8	INT1-P1	X	-0.04	-0.04	0 %100
9	INT1-P2	X	-0.04	-0.04	0 %100
10	INT2-P1	X	-0.04	-0.04	0 %100
11	INT2-P2	X	-0.04	-0.04	0 %100
12	INT3-P1	X	0	0	0 %100
13	INT3-P2	X	0	0	0 %100
14	MP-1	X	-0.02	-0.02	0 %100
15	MP-2	X	-0.02	-0.02	0 %100
16	MP-3	X	-0.02	-0.02	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
17	MP-4	X	-0.002	-0.002	0 %100
18	MP-5	X	-0.002	-0.002	0 %100
19	MP-6	X	-0.002	-0.002	0 %100
20	MP-7	X	-0.002	-0.002	0 %100
21	MP-8	X	-0.002	-0.002	0 %100
22	MP-9	X	-0.002	-0.002	0 %100
23	MP-10	X	-0.002	-0.002	0 %100
24	MP-11	X	-0.002	-0.002	0 %100
25	MP-12	X	-0.002	-0.002	0 %100
26	MP-13	X	-0.002	-0.002	0 %100
27	MP-14	X	-0.002	-0.002	0 %100
28	MP-15	X	-0.002	-0.002	0 %100
29	SA-1	X	-0.002	-0.002	0 %100
30	SA-2	X	-0.004	-0.004	0 %100
31	SA-3	X	-0.002	-0.002	0 %100
32	SF1-TH	X	-0.004	-0.004	0 %100
33	SF2-TH	X	0	0	0 %100
34	M34	X	-0.002	-0.002	0 %100
35	M35	X	-0.002	-0.002	0 %100
36	M36	X	0	0	0 %100
37	M37	X	0	0	0 %100
38	M38	X	-0.001	-0.001	0 %100
39	M39	X	-0.002	-0.002	0 %100
40	M40	X	0	0	0 %100
41	M41	X	-0.002	-0.002	0 %100
42	M42	X	-0.002	-0.002	0 %100
43	M43	X	-0.003	-0.003	0 %100
44	M44	X	-0.003	-0.003	0 %100
45	M45	X	-0.003	-0.003	0 %100
46	M46	X	-0.003	-0.003	0 %100
47	M47	X	-0.003	-0.003	0 %100
48	M48	X	-0.003	-0.003	0 %100
49	CP-1	Z	0	0	0 %100
50	CP-2	Z	-0.002	-0.002	0 %100
51	CP-3	Z	-0.002	-0.002	0 %100
52	FFTH	Z	-0.003	-0.003	0 %100
53	GSI-1	Z	-0.002	-0.002	0 %100
54	GSI-2	Z	0	0	0 %100
55	GSI-3	Z	-0.002	-0.002	0 %100
56	INT1-P1	Z	-0.002	-0.002	0 %100
57	INT1-P2	Z	-0.002	-0.002	0 %100
58	INT2-P1	Z	-0.002	-0.002	0 %100
59	INT2-P2	Z	-0.002	-0.002	0 %100
60	INT3-P1	Z	0	0	0 %100
61	INT3-P2	Z	0	0	0 %100
62	MP-1	Z	-0.001	-0.001	0 %100
63	MP-2	Z	-0.001	-0.001	0 %100
64	MP-3	Z	-0.001	-0.001	0 %100
65	MP-4	Z	-0.001	-0.001	0 %100
66	MP-5	Z	-0.001	-0.001	0 %100
67	MP-6	Z	-0.001	-0.001	0 %100
68	MP-7	Z	-0.001	-0.001	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
69	MP-8	Z	-0.001	-0.001	0 %100
70	MP-9	Z	-0.001	-0.001	0 %100
71	MP-10	Z	-0.001	-0.001	0 %100
72	MP-11	Z	-0.001	-0.001	0 %100
73	MP-12	Z	-0.001	-0.001	0 %100
74	MP-13	Z	-0.001	-0.001	0 %100
75	MP-14	Z	-0.001	-0.001	0 %100
76	MP-15	Z	-0.001	-0.001	0 %100
77	SA-1	Z	-0.001	-0.001	0 %100
78	SA-2	Z	-0.002	-0.002	0 %100
79	SA-3	Z	-0.001	-0.001	0 %100
80	SF1-TH	Z	-0.003	-0.003	0 %100
81	SF2-TH	Z	0	0	0 %100
82	M34	Z	-0.001	-0.001	0 %100
83	M35	Z	-0.001	-0.001	0 %100
84	M36	Z	0	0	0 %100
85	M37	Z	0	0	0 %100
86	M38	Z	-0.00092	-0.00092	0 %100
87	M39	Z	-0.000868	-0.000868	0 %100
88	M40	Z	0	0	0 %100
89	M41	Z	-0.001	-0.001	0 %100
90	M42	Z	-0.001	-0.001	0 %100
91	M43	Z	-0.002	-0.002	0 %100
92	M44	Z	-0.002	-0.002	0 %100
93	M45	Z	-0.002	-0.002	0 %100
94	M46	Z	-0.002	-0.002	0 %100
95	M47	Z	-0.002	-0.002	0 %100
96	M48	Z	-0.002	-0.002	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-0.00764	-0.00764	0 %100
2	CP-2	X	-0.003	-0.003	0 %100
3	CP-3	X	-0.002	-0.002	0 %100
4	FFTH	X	-0.004	-0.004	0 %100
5	GSI-1	X	-0.004	-0.004	0 %100
6	GSI-2	X	-0.00958	-0.00958	0 %100
7	GSI-3	X	-0.003	-0.003	0 %100
8	INT1-P1	X	-0.003	-0.003	0 %100
9	INT1-P2	X	-0.003	-0.003	0 %100
10	INT2-P1	X	-0.003	-0.003	0 %100
11	INT2-P2	X	-0.003	-0.003	0 %100
12	INT3-P1	X	-0.00932	-0.00932	0 %100
13	INT3-P2	X	-0.00932	-0.00932	0 %100
14	MP-1	X	-0.002	-0.002	0 %100
15	MP-2	X	-0.002	-0.002	0 %100
16	MP-3	X	-0.002	-0.002	0 %100
17	MP-4	X	-0.001	-0.001	0 %100
18	MP-5	X	-0.002	-0.002	0 %100
19	MP-6	X	-0.002	-0.002	0 %100
20	MP-7	X	-0.002	-0.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
21	MP-8	X	-0.002	-0.002	0 %100
22	MP-9	X	-0.001	-0.001	0 %100
23	MP-10	X	-0.002	-0.002	0 %100
24	MP-11	X	-0.002	-0.002	0 %100
25	MP-12	X	-0.002	-0.002	0 %100
26	MP-13	X	-0.002	-0.002	0 %100
27	MP-14	X	-0.001	-0.001	0 %100
28	MP-15	X	-0.002	-0.002	0 %100
29	SA-1	X	-0.000842	-0.000842	0 %100
30	SA-2	X	-0.003	-0.003	0 %100
31	SA-3	X	-0.002	-0.002	0 %100
32	SF1-TH	X	-0.004	-0.004	0 %100
33	SF2-TH	X	-0.001	-0.001	0 %100
34	M34	X	-0.001	-0.001	0 %100
35	M35	X	-0.002	-0.002	0 %100
36	M36	X	-0.000445	-0.000445	0 %100
37	M37	X	-0.000337	-0.000337	0 %100
38	M38	X	-0.001	-0.001	0 %100
39	M39	X	-0.001	-0.001	0 %100
40	M40	X	-0.000554	-0.000554	0 %100
41	M41	X	-0.002	-0.002	0 %100
42	M42	X	-0.002	-0.002	0 %100
43	M43	X	-0.002	-0.002	0 %100
44	M44	X	-0.002	-0.002	0 %100
45	M45	X	-0.002	-0.002	0 %100
46	M46	X	-0.002	-0.002	0 %100
47	M47	X	-0.002	-0.002	0 %100
48	M48	X	-0.002	-0.002	0 %100
49	CP-1	Z	-0.000764	-0.000764	0 %100
50	CP-2	Z	-0.003	-0.003	0 %100
51	CP-3	Z	-0.002	-0.002	0 %100
52	FFTH	Z	-0.003	-0.003	0 %100
53	GSI-1	Z	-0.004	-0.004	0 %100
54	GSI-2	Z	-0.001	-0.001	0 %100
55	GSI-3	Z	-0.003	-0.003	0 %100
56	INT1-P1	Z	-0.003	-0.003	0 %100
57	INT1-P2	Z	-0.003	-0.003	0 %100
58	INT2-P1	Z	-0.002	-0.002	0 %100
59	INT2-P2	Z	-0.002	-0.002	0 %100
60	INT3-P1	Z	-0.000932	-0.000932	0 %100
61	INT3-P2	Z	-0.000932	-0.000932	0 %100
62	MP-1	Z	-0.002	-0.002	0 %100
63	MP-2	Z	-0.002	-0.002	0 %100
64	MP-3	Z	-0.002	-0.002	0 %100
65	MP-4	Z	-0.001	-0.001	0 %100
66	MP-5	Z	-0.002	-0.002	0 %100
67	MP-6	Z	-0.002	-0.002	0 %100
68	MP-7	Z	-0.002	-0.002	0 %100
69	MP-8	Z	-0.002	-0.002	0 %100
70	MP-9	Z	-0.001	-0.001	0 %100
71	MP-10	Z	-0.002	-0.002	0 %100
72	MP-11	Z	-0.002	-0.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
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Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
73	MP-12	Z	-0.002	-0.002	0 %100
74	MP-13	Z	-0.002	-0.002	0 %100
75	MP-14	Z	-0.001	-0.001	0 %100
76	MP-15	Z	-0.002	-0.002	0 %100
77	SA-1	Z	-0.000758	-0.000758	0 %100
78	SA-2	Z	-0.003	-0.003	0 %100
79	SA-3	Z	-0.002	-0.002	0 %100
80	SF1-TH	Z	-0.005	-0.005	0 %100
81	SF2-TH	Z	-0.001	-0.001	0 %100
82	M34	Z	-0.001	-0.001	0 %100
83	M35	Z	-0.002	-0.002	0 %100
84	M36	Z	-0.000535	-0.000535	0 %100
85	M37	Z	-0.000389	-0.000389	0 %100
86	M38	Z	-0.001	-0.001	0 %100
87	M39	Z	-0.001	-0.001	0 %100
88	M40	Z	-0.000569	-0.000569	0 %100
89	M41	Z	-0.002	-0.002	0 %100
90	M42	Z	-0.001	-0.001	0 %100
91	M43	Z	-0.002	-0.002	0 %100
92	M44	Z	-0.002	-0.002	0 %100
93	M45	Z	-0.002	-0.002	0 %100
94	M46	Z	-0.002	-0.002	0 %100
95	M47	Z	-0.002	-0.002	0 %100
96	M48	Z	-0.002	-0.002	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-0.001	-0.001	0 %100
2	CP-2	X	-0.002	-0.002	0 %100
3	CP-3	X	-0.001	-0.001	0 %100
4	FFTH	X	-0.002	-0.002	0 %100
5	GSI-1	X	-0.003	-0.003	0 %100
6	GSI-2	X	-0.001	-0.001	0 %100
7	GSI-3	X	-0.001	-0.001	0 %100
8	INT1-P1	X	-0.003	-0.003	0 %100
9	INT1-P2	X	-0.003	-0.003	0 %100
10	INT2-P1	X	-0.001	-0.001	0 %100
11	INT2-P2	X	-0.001	-0.001	0 %100
12	INT3-P1	X	-0.001	-0.001	0 %100
13	INT3-P2	X	-0.001	-0.001	0 %100
14	MP-1	X	-0.001	-0.001	0 %100
15	MP-2	X	-0.001	-0.001	0 %100
16	MP-3	X	-0.001	-0.001	0 %100
17	MP-4	X	-0.00091	-0.00091	0 %100
18	MP-5	X	-0.001	-0.001	0 %100
19	MP-6	X	-0.001	-0.001	0 %100
20	MP-7	X	-0.001	-0.001	0 %100
21	MP-8	X	-0.001	-0.001	0 %100
22	MP-9	X	-0.00091	-0.00091	0 %100
23	MP-10	X	-0.001	-0.001	0 %100
24	MP-11	X	-0.001	-0.001	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
25	MP-12	X	-0.001	-0.001	0 %100
26	MP-13	X	-0.001	-0.001	0 %100
27	MP-14	X	-0.00091	-0.00091	0 %100
28	MP-15	X	-0.001	-0.001	0 %100
29	SA-1	X	0	0	0 %100
30	SA-2	X	-0.002	-0.002	0 %100
31	SA-3	X	-0.002	-0.002	0 %100
32	SF1-TH	X	-0.003	-0.003	0 %100
33	SF2-TH	X	-0.001	-0.001	0 %100
34	M34	X	-0.000731	-0.000731	0 %100
35	M35	X	-0.001	-0.001	0 %100
36	M36	X	-0.000608	-0.000608	0 %100
37	M37	X	-0.00046	-0.00046	0 %100
38	M38	X	-0.00092	-0.00092	0 %100
39	M39	X	-0.000557	-0.000557	0 %100
40	M40	X	-0.000757	-0.000757	0 %100
41	M41	X	-0.002	-0.002	0 %100
42	M42	X	-0.000789	-0.000789	0 %100
43	M43	X	-0.001	-0.001	0 %100
44	M44	X	-0.001	-0.001	0 %100
45	M45	X	-0.001	-0.001	0 %100
46	M46	X	-0.001	-0.001	0 %100
47	M47	X	-0.001	-0.001	0 %100
48	M48	X	-0.001	-0.001	0 %100
49	CP-1	Z	-0.002	-0.002	0 %100
50	CP-2	Z	-0.004	-0.004	0 %100
51	CP-3	Z	-0.002	-0.002	0 %100
52	FFTH	Z	-0.003	-0.003	0 %100
53	GSI-1	Z	-0.005	-0.005	0 %100
54	GSI-2	Z	-0.002	-0.002	0 %100
55	GSI-3	Z	-0.002	-0.002	0 %100
56	INT1-P1	Z	-0.004	-0.004	0 %100
57	INT1-P2	Z	-0.004	-0.004	0 %100
58	INT2-P1	Z	-0.002	-0.002	0 %100
59	INT2-P2	Z	-0.002	-0.002	0 %100
60	INT3-P1	Z	-0.002	-0.002	0 %100
61	INT3-P2	Z	-0.002	-0.002	0 %100
62	MP-1	Z	-0.002	-0.002	0 %100
63	MP-2	Z	-0.002	-0.002	0 %100
64	MP-3	Z	-0.002	-0.002	0 %100
65	MP-4	Z	-0.002	-0.002	0 %100
66	MP-5	Z	-0.002	-0.002	0 %100
67	MP-6	Z	-0.002	-0.002	0 %100
68	MP-7	Z	-0.002	-0.002	0 %100
69	MP-8	Z	-0.002	-0.002	0 %100
70	MP-9	Z	-0.002	-0.002	0 %100
71	MP-10	Z	-0.002	-0.002	0 %100
72	MP-11	Z	-0.002	-0.002	0 %100
73	MP-12	Z	-0.002	-0.002	0 %100
74	MP-13	Z	-0.002	-0.002	0 %100
75	MP-14	Z	-0.002	-0.002	0 %100
76	MP-15	Z	-0.002	-0.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
77	SA-1	Z	0	0	0 %100
78	SA-2	Z	-0.003	-0.003	0 %100
79	SA-3	Z	-0.004	-0.004	0 %100
80	SF1-TH	Z	-0.006	-0.006	0 %100
81	SF2-TH	Z	-0.003	-0.003	0 %100
82	M34	Z	-0.001	-0.001	0 %100
83	M35	Z	-0.003	-0.003	0 %100
84	M36	Z	-0.001	-0.001	0 %100
85	M37	Z	-0.00092	-0.00092	0 %100
86	M38	Z	-0.002	-0.002	0 %100
87	M39	Z	-0.000868	-0.000868	0 %100
88	M40	Z	-0.001	-0.001	0 %100
89	M41	Z	-0.003	-0.003	0 %100
90	M42	Z	-0.001	-0.001	0 %100
91	M43	Z	-0.003	-0.003	0 %100
92	M44	Z	-0.003	-0.003	0 %100
93	M45	Z	-0.003	-0.003	0 %100
94	M46	Z	-0.003	-0.003	0 %100
95	M47	Z	-0.003	-0.003	0 %100
96	M48	Z	-0.003	-0.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	Z	-0.004	-0.004	0 %100
2	CP-2	Z	-0.004	-0.004	0 %100
3	CP-3	Z	0	0	0 %100
4	FFTH	Z	0	0	0 %100
5	GSI-1	Z	-0.005	-0.005	0 %100
6	GSI-2	Z	-0.005	-0.005	0 %100
7	GSI-3	Z	0	0	0 %100
8	INT1-P1	Z	-0.004	-0.004	0 %100
9	INT1-P2	Z	-0.004	-0.004	0 %100
10	INT2-P1	Z	0	0	0 %100
11	INT2-P2	Z	0	0	0 %100
12	INT3-P1	Z	-0.004	-0.004	0 %100
13	INT3-P2	Z	-0.004	-0.004	0 %100
14	MP-1	Z	-0.003	-0.003	0 %100
15	MP-2	Z	-0.003	-0.003	0 %100
16	MP-3	Z	-0.003	-0.003	0 %100
17	MP-4	Z	-0.002	-0.002	0 %100
18	MP-5	Z	-0.003	-0.003	0 %100
19	MP-6	Z	-0.003	-0.003	0 %100
20	MP-7	Z	-0.003	-0.003	0 %100
21	MP-8	Z	-0.003	-0.003	0 %100
22	MP-9	Z	-0.002	-0.002	0 %100
23	MP-10	Z	-0.003	-0.003	0 %100
24	MP-11	Z	-0.003	-0.003	0 %100
25	MP-12	Z	-0.003	-0.003	0 %100
26	MP-13	Z	-0.003	-0.003	0 %100
27	MP-14	Z	-0.002	-0.002	0 %100
28	MP-15	Z	-0.003	-0.003	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
29	SA-1	Z	-.002	0	%100
30	SA-2	Z	-.002	0	%100
31	SA-3	Z	-.005	0	%100
32	SF1-TH	Z	-.006	0	%100
33	SF2-TH	Z	-.006	0	%100
34	M34	Z	0	0	%100
35	M35	Z	-.003	0	%100
36	M36	Z	-.003	0	%100
37	M37	Z	-.002	0	%100
38	M38	Z	-.002	0	%100
39	M39	Z	0	0	%100
40	M40	Z	-.003	0	%100
41	M41	Z	-.003	0	%100
42	M42	Z	0	0	%100
43	M43	Z	-.003	0	%100
44	M44	Z	-.003	0	%100
45	M45	Z	-.003	0	%100
46	M46	Z	-.003	0	%100
47	M47	Z	-.003	0	%100
48	M48	Z	-.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.002	0	%100
2	CP-2	X	.001	0	%100
3	CP-3	X	.001	0	%100
4	FFTH	X	.002	0	%100
5	GSI-1	X	.001	0	%100
6	GSI-2	X	.003	0	%100
7	GSI-3	X	.001	0	%100
8	INT1-P1	X	.001	0	%100
9	INT1-P2	X	.001	0	%100
10	INT2-P1	X	.001	0	%100
11	INT2-P2	X	.001	0	%100
12	INT3-P1	X	.003	0	%100
13	INT3-P2	X	.003	0	%100
14	MP-1	X	.001	0	%100
15	MP-2	X	.001	0	%100
16	MP-3	X	.001	0	%100
17	MP-4	X	.00091	0	%100
18	MP-5	X	.001	0	%100
19	MP-6	X	.001	0	%100
20	MP-7	X	.001	0	%100
21	MP-8	X	.001	0	%100
22	MP-9	X	.00091	0	%100
23	MP-10	X	.001	0	%100
24	MP-11	X	.001	0	%100
25	MP-12	X	.001	0	%100
26	MP-13	X	.001	0	%100
27	MP-14	X	.00091	0	%100
28	MP-15	X	.001	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
29	SA-1	X	.002	0	%100
30	SA-2	X	0	0	%100
31	SA-3	X	.002	0	%100
32	SF1-TH	X	.001	0	%100
33	SF2-TH	X	.003	0	%100
34	M34	X	.000731	0	%100
35	M35	X	.000608	0	%100
36	M36	X	.001	0	%100
37	M37	X	.00092	0	%100
38	M38	X	.00046	0	%100
39	M39	X	.000557	0	%100
40	M40	X	.002	0	%100
41	M41	X	.000757	0	%100
42	M42	X	.000789	0	%100
43	M43	X	.001	0	%100
44	M44	X	.001	0	%100
45	M45	X	.001	0	%100
46	M46	X	.001	0	%100
47	M47	X	.001	0	%100
48	M48	X	.001	0	%100
49	CP-1	Z	-.004	0	%100
50	CP-2	Z	-.002	0	%100
51	CP-3	Z	-.002	0	%100
52	FFTH	Z	-.003	0	%100
53	GSI-1	Z	-.002	0	%100
54	GSI-2	Z	-.005	0	%100
55	GSI-3	Z	-.002	0	%100
56	INT1-P1	Z	-.002	0	%100
57	INT1-P2	Z	-.002	0	%100
58	INT2-P1	Z	-.002	0	%100
59	INT2-P2	Z	-.002	0	%100
60	INT3-P1	Z	-.004	0	%100
61	INT3-P2	Z	-.004	0	%100
62	MP-1	Z	-.002	0	%100
63	MP-2	Z	-.002	0	%100
64	MP-3	Z	-.002	0	%100
65	MP-4	Z	-.002	0	%100
66	MP-5	Z	-.002	0	%100
67	MP-6	Z	-.002	0	%100
68	MP-7	Z	-.002	0	%100
69	MP-8	Z	-.002	0	%100
70	MP-9	Z	-.002	0	%100
71	MP-10	Z	-.002	0	%100
72	MP-11	Z	-.002	0	%100
73	MP-12	Z	-.002	0	%100
74	MP-13	Z	-.002	0	%100
75	MP-14	Z	-.002	0	%100
76	MP-15	Z	-.002	0	%100
77	SA-1	Z	-.003	0	%100
78	SA-2	Z	0	0	%100
79	SA-3	Z	-.004	0	%100
80	SF1-TH	Z	-.003	0	%100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
81	SF2-TH	Z	-.006	-.006	0 %100
82	M34	Z	-.001	-.001	0 %100
83	M35	Z	-.001	-.001	0 %100
84	M36	Z	-.003	-.003	0 %100
85	M37	Z	-.002	-.002	0 %100
86	M38	Z	-.00092	-.00092	0 %100
87	M39	Z	-.000868	-.000868	0 %100
88	M40	Z	-.003	-.003	0 %100
89	M41	Z	-.001	-.001	0 %100
90	M42	Z	-.001	-.001	0 %100
91	M43	Z	-.003	-.003	0 %100
92	M44	Z	-.003	-.003	0 %100
93	M45	Z	-.003	-.003	0 %100
94	M46	Z	-.003	-.003	0 %100
95	M47	Z	-.003	-.003	0 %100
96	M48	Z	-.003	-.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.003	.003	0 %100
2	CP-2	X	.000764	.000764	0 %100
3	CP-3	X	.002	.002	0 %100
4	FFTH	X	.004	.004	0 %100
5	GSI-1	X	.000958	.000958	0 %100
6	GSI-2	X	.004	.004	0 %100
7	GSI-3	X	.003	.003	0 %100
8	INT1-P1	X	.000932	.000932	0 %100
9	INT1-P2	X	.000932	.000932	0 %100
10	INT2-P1	X	.003	.003	0 %100
11	INT2-P2	X	.003	.003	0 %100
12	INT3-P1	X	.003	.003	0 %100
13	INT3-P2	X	.003	.003	0 %100
14	MP-1	X	.002	.002	0 %100
15	MP-2	X	.002	.002	0 %100
16	MP-3	X	.002	.002	0 %100
17	MP-4	X	.001	.001	0 %100
18	MP-5	X	.002	.002	0 %100
19	MP-6	X	.002	.002	0 %100
20	MP-7	X	.002	.002	0 %100
21	MP-8	X	.002	.002	0 %100
22	MP-9	X	.001	.001	0 %100
23	MP-10	X	.002	.002	0 %100
24	MP-11	X	.002	.002	0 %100
25	MP-12	X	.002	.002	0 %100
26	MP-13	X	.002	.002	0 %100
27	MP-14	X	.001	.001	0 %100
28	MP-15	X	.002	.002	0 %100
29	SA-1	X	.003	.003	0 %100
30	SA-2	X	.000842	.000842	0 %100
31	SA-3	X	.002	.002	0 %100
32	SF1-TH	X	.001	.001	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
33	SF2-TH	X	.004	.004	0 %100
34	M34	X	.001	.001	0 %100
35	M35	X	.000445	.000445	0 %100
36	M36	X	.002	.002	0 %100
37	M37	X	.001	.001	0 %100
38	M38	X	.000337	.000337	0 %100
39	M39	X	.001	.001	0 %100
40	M40	X	.002	.002	0 %100
41	M41	X	.000554	.000554	0 %100
42	M42	X	.002	.002	0 %100
43	M43	X	.002	.002	0 %100
44	M44	X	.002	.002	0 %100
45	M45	X	.002	.002	0 %100
46	M46	X	.002	.002	0 %100
47	M47	X	.002	.002	0 %100
48	M48	X	.002	.002	0 %100
49	CP-1	Z	-.003	-.003	0 %100
50	CP-2	Z	-.000764	-.000764	0 %100
51	CP-3	Z	-.002	-.002	0 %100
52	FFTH	Z	-.003	-.003	0 %100
53	GSI-1	Z	-.001	-.001	0 %100
54	GSI-2	Z	-.004	-.004	0 %100
55	GSI-3	Z	-.003	-.003	0 %100
56	INT1-P1	Z	-.000932	-.000932	0 %100
57	INT1-P2	Z	-.000932	-.000932	0 %100
58	INT2-P1	Z	-.002	-.002	0 %100
59	INT2-P2	Z	-.002	-.002	0 %100
60	INT3-P1	Z	-.003	-.003	0 %100
61	INT3-P2	Z	-.003	-.003	0 %100
62	MP-1	Z	-.002	-.002	0 %100
63	MP-2	Z	-.002	-.002	0 %100
64	MP-3	Z	-.002	-.002	0 %100
65	MP-4	Z	-.001	-.001	0 %100
66	MP-5	Z	-.002	-.002	0 %100
67	MP-6	Z	-.002	-.002	0 %100
68	MP-7	Z	-.002	-.002	0 %100
69	MP-8	Z	-.002	-.002	0 %100
70	MP-9	Z	-.001	-.001	0 %100
71	MP-10	Z	-.002	-.002	0 %100
72	MP-11	Z	-.002	-.002	0 %100
73	MP-12	Z	-.002	-.002	0 %100
74	MP-13	Z	-.002	-.002	0 %100
75	MP-14	Z	-.001	-.001	0 %100
76	MP-15	Z	-.002	-.002	0 %100
77	SA-1	Z	-.003	-.003	0 %100
78	SA-2	Z	-.000758	-.000758	0 %100
79	SA-3	Z	-.002	-.002	0 %100
80	SF1-TH	Z	-.001	-.001	0 %100
81	SF2-TH	Z	-.005	-.005	0 %100
82	M34	Z	-.001	-.001	0 %100
83	M35	Z	-.000535	-.000535	0 %100
84	M36	Z	-.002	-.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
85	M37	Z	-.001	0	%100
86	M38	Z	-.000389	0	%100
87	M39	Z	-.001	0	%100
88	M40	Z	-.002	0	%100
89	M41	Z	-.000569	0	%100
90	M42	Z	-.001	0	%100
91	M43	Z	-.002	0	%100
92	M44	Z	-.002	0	%100
93	M45	Z	-.002	0	%100
94	M46	Z	-.002	0	%100
95	M47	Z	-.002	0	%100
96	M48	Z	-.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.003	0	%100
2	CP-2	X	0	0	%100
3	CP-3	X	.003	0	%100
4	FFTH	X	.005	0	%100
5	GSI-1	X	0	0	%100
6	GSI-2	X	.004	0	%100
7	GSI-3	X	.004	0	%100
8	INT1-P1	X	0	0	%100
9	INT1-P2	X	0	0	%100
10	INT2-P1	X	.004	0	%100
11	INT2-P2	X	.004	0	%100
12	INT3-P1	X	.004	0	%100
13	INT3-P2	X	.004	0	%100
14	MP-1	X	.002	0	%100
15	MP-2	X	.002	0	%100
16	MP-3	X	.002	0	%100
17	MP-4	X	.002	0	%100
18	MP-5	X	.002	0	%100
19	MP-6	X	.002	0	%100
20	MP-7	X	.002	0	%100
21	MP-8	X	.002	0	%100
22	MP-9	X	.002	0	%100
23	MP-10	X	.002	0	%100
24	MP-11	X	.002	0	%100
25	MP-12	X	.002	0	%100
26	MP-13	X	.002	0	%100
27	MP-14	X	.002	0	%100
28	MP-15	X	.002	0	%100
29	SA-1	X	.004	0	%100
30	SA-2	X	.002	0	%100
31	SA-3	X	.002	0	%100
32	SF1-TH	X	0	0	%100
33	SF2-TH	X	.004	0	%100
34	M34	X	.002	0	%100
35	M35	X	0	0	%100
36	M36	X	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
37	M37	X	.001	0	%100
38	M38	X	0	0	%100
39	M39	X	.002	0	%100
40	M40	X	.002	0	%100
41	M41	X	0	0	%100
42	M42	X	.002	0	%100
43	M43	X	.003	0	%100
44	M44	X	.003	0	%100
45	M45	X	.003	0	%100
46	M46	X	.003	0	%100
47	M47	X	.003	0	%100
48	M48	X	.003	0	%100
49	CP-1	Z	-.002	0	%100
50	CP-2	Z	0	0	%100
51	CP-3	Z	-.002	0	%100
52	FFTH	Z	-.003	0	%100
53	GSI-1	Z	0	0	%100
54	GSI-2	Z	-.002	0	%100
55	GSI-3	Z	-.002	0	%100
56	INT1-P1	Z	0	0	%100
57	INT1-P2	Z	0	0	%100
58	INT2-P1	Z	-.002	0	%100
59	INT2-P2	Z	-.002	0	%100
60	INT3-P1	Z	-.002	0	%100
61	INT3-P2	Z	-.002	0	%100
62	MP-1	Z	-.001	0	%100
63	MP-2	Z	-.001	0	%100
64	MP-3	Z	-.001	0	%100
65	MP-4	Z	-.001	0	%100
66	MP-5	Z	-.001	0	%100
67	MP-6	Z	-.001	0	%100
68	MP-7	Z	-.001	0	%100
69	MP-8	Z	-.001	0	%100
70	MP-9	Z	-.001	0	%100
71	MP-10	Z	-.001	0	%100
72	MP-11	Z	-.001	0	%100
73	MP-12	Z	-.001	0	%100
74	MP-13	Z	-.001	0	%100
75	MP-14	Z	-.001	0	%100
76	MP-15	Z	-.001	0	%100
77	SA-1	Z	-.002	0	%100
78	SA-2	Z	-.001	0	%100
79	SA-3	Z	-.001	0	%100
80	SF1-TH	Z	0	0	%100
81	SF2-TH	Z	-.003	0	%100
82	M34	Z	-.001	0	%100
83	M35	Z	0	0	%100
84	M36	Z	-.001	0	%100
85	M37	Z	-.00092	0	%100
86	M38	Z	0	0	%100
87	M39	Z	-.000868	0	%100
88	M40	Z	-.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
89	M41	Z	0	0	%100
90	M42	Z	-.001	0	%100
91	M43	Z	-.002	0	%100
92	M44	Z	-.002	0	%100
93	M45	Z	-.002	0	%100
94	M46	Z	-.002	0	%100
95	M47	Z	-.002	0	%100
96	M48	Z	-.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.004	0	%100
2	CP-2	X	.004	0	%100
3	CP-3	X	.004	0	%100
4	FFTH	X	.007	0	%100
5	GSI-1	X	.005	0	%100
6	GSI-2	X	.005	0	%100
7	GSI-3	X	.006	0	%100
8	INT1-P1	X	.005	0	%100
9	INT1-P2	X	.005	0	%100
10	INT2-P1	X	.005	0	%100
11	INT2-P2	X	.005	0	%100
12	INT3-P1	X	.005	0	%100
13	INT3-P2	X	.005	0	%100
14	MP-1	X	.002	0	%100
15	MP-2	X	.002	0	%100
16	MP-3	X	.002	0	%100
17	MP-4	X	.002	0	%100
18	MP-5	X	.002	0	%100
19	MP-6	X	.002	0	%100
20	MP-7	X	.002	0	%100
21	MP-8	X	.002	0	%100
22	MP-9	X	.002	0	%100
23	MP-10	X	.002	0	%100
24	MP-11	X	.002	0	%100
25	MP-12	X	.002	0	%100
26	MP-13	X	.002	0	%100
27	MP-14	X	.002	0	%100
28	MP-15	X	.002	0	%100
29	SA-1	X	.005	0	%100
30	SA-2	X	.005	0	%100
31	SA-3	X	.004	0	%100
32	SF1-TH	X	.006	0	%100
33	SF2-TH	X	.006	0	%100
34	M34	X	.003	0	%100
35	M35	X	.002	0	%100
36	M36	X	.002	0	%100
37	M37	X	.002	0	%100
38	M38	X	.002	0	%100
39	M39	X	.002	0	%100
40	M40	X	.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
41	M41	X	.003	0	%100
42	M42	X	.003	0	%100
43	M43	X	.003	0	%100
44	M44	X	.003	0	%100
45	M45	X	.003	0	%100
46	M46	X	.003	0	%100
47	M47	X	.003	0	%100
48	M48	X	.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	0	0	%100
2	CP-2	X	.003	0	%100
3	CP-3	X	.003	0	%100
4	FFTH	X	.005	0	%100
5	GSI-1	X	.004	0	%100
6	GSI-2	X	0	0	%100
7	GSI-3	X	.004	0	%100
8	INT1-P1	X	.004	0	%100
9	INT1-P2	X	.004	0	%100
10	INT2-P1	X	.004	0	%100
11	INT2-P2	X	.004	0	%100
12	INT3-P1	X	0	0	%100
13	INT3-P2	X	0	0	%100
14	MP-1	X	.002	0	%100
15	MP-2	X	.002	0	%100
16	MP-3	X	.002	0	%100
17	MP-4	X	.002	0	%100
18	MP-5	X	.002	0	%100
19	MP-6	X	.002	0	%100
20	MP-7	X	.002	0	%100
21	MP-8	X	.002	0	%100
22	MP-9	X	.002	0	%100
23	MP-10	X	.002	0	%100
24	MP-11	X	.002	0	%100
25	MP-12	X	.002	0	%100
26	MP-13	X	.002	0	%100
27	MP-14	X	.002	0	%100
28	MP-15	X	.002	0	%100
29	SA-1	X	.002	0	%100
30	SA-2	X	.004	0	%100
31	SA-3	X	.002	0	%100
32	SF1-TH	X	.004	0	%100
33	SF2-TH	X	0	0	%100
34	M34	X	.002	0	%100
35	M35	X	.002	0	%100
36	M36	X	0	0	%100
37	M37	X	0	0	%100
38	M38	X	.001	0	%100
39	M39	X	.002	0	%100
40	M40	X	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
41	M41	X	.002	.002	0 %100
42	M42	X	.002	.002	0 %100
43	M43	X	.003	.003	0 %100
44	M44	X	.003	.003	0 %100
45	M45	X	.003	.003	0 %100
46	M46	X	.003	.003	0 %100
47	M47	X	.003	.003	0 %100
48	M48	X	.003	.003	0 %100
49	CP-1	Z	0	0	0 %100
50	CP-2	Z	.002	.002	0 %100
51	CP-3	Z	.002	.002	0 %100
52	FFTH	Z	.003	.003	0 %100
53	GSI-1	Z	.002	.002	0 %100
54	GSI-2	Z	0	0	0 %100
55	GSI-3	Z	.002	.002	0 %100
56	INT1-P1	Z	.002	.002	0 %100
57	INT1-P2	Z	.002	.002	0 %100
58	INT2-P1	Z	.002	.002	0 %100
59	INT2-P2	Z	.002	.002	0 %100
60	INT3-P1	Z	0	0	0 %100
61	INT3-P2	Z	0	0	0 %100
62	MP-1	Z	.001	.001	0 %100
63	MP-2	Z	.001	.001	0 %100
64	MP-3	Z	.001	.001	0 %100
65	MP-4	Z	.001	.001	0 %100
66	MP-5	Z	.001	.001	0 %100
67	MP-6	Z	.001	.001	0 %100
68	MP-7	Z	.001	.001	0 %100
69	MP-8	Z	.001	.001	0 %100
70	MP-9	Z	.001	.001	0 %100
71	MP-10	Z	.001	.001	0 %100
72	MP-11	Z	.001	.001	0 %100
73	MP-12	Z	.001	.001	0 %100
74	MP-13	Z	.001	.001	0 %100
75	MP-14	Z	.001	.001	0 %100
76	MP-15	Z	.001	.001	0 %100
77	SA-1	Z	.001	.001	0 %100
78	SA-2	Z	.002	.002	0 %100
79	SA-3	Z	.001	.001	0 %100
80	SF1-TH	Z	.003	.003	0 %100
81	SF2-TH	Z	0	0	0 %100
82	M34	Z	.001	.001	0 %100
83	M35	Z	.001	.001	0 %100
84	M36	Z	0	0	0 %100
85	M37	Z	0	0	0 %100
86	M38	Z	.00092	.00092	0 %100
87	M39	Z	.000868	.000868	0 %100
88	M40	Z	0	0	0 %100
89	M41	Z	.001	.001	0 %100
90	M42	Z	.001	.001	0 %100
91	M43	Z	.002	.002	0 %100
92	M44	Z	.002	.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
93	M45	Z	.002	.002	0 %100
94	M46	Z	.002	.002	0 %100
95	M47	Z	.002	.002	0 %100
96	M48	Z	.002	.002	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.000764	.000764	0 %100
2	CP-2	X	.003	.003	0 %100
3	CP-3	X	.002	.002	0 %100
4	FFTH	X	.004	.004	0 %100
5	GSI-1	X	.004	.004	0 %100
6	GSI-2	X	.000958	.000958	0 %100
7	GSI-3	X	.003	.003	0 %100
8	INT1-P1	X	.003	.003	0 %100
9	INT1-P2	X	.003	.003	0 %100
10	INT2-P1	X	.003	.003	0 %100
11	INT2-P2	X	.003	.003	0 %100
12	INT3-P1	X	.000932	.000932	0 %100
13	INT3-P2	X	.000932	.000932	0 %100
14	MP-1	X	.002	.002	0 %100
15	MP-2	X	.002	.002	0 %100
16	MP-3	X	.002	.002	0 %100
17	MP-4	X	.001	.001	0 %100
18	MP-5	X	.002	.002	0 %100
19	MP-6	X	.002	.002	0 %100
20	MP-7	X	.002	.002	0 %100
21	MP-8	X	.002	.002	0 %100
22	MP-9	X	.001	.001	0 %100
23	MP-10	X	.002	.002	0 %100
24	MP-11	X	.002	.002	0 %100
25	MP-12	X	.002	.002	0 %100
26	MP-13	X	.002	.002	0 %100
27	MP-14	X	.001	.001	0 %100
28	MP-15	X	.002	.002	0 %100
29	SA-1	X	.000842	.000842	0 %100
30	SA-2	X	.003	.003	0 %100
31	SA-3	X	.002	.002	0 %100
32	SF1-TH	X	.004	.004	0 %100
33	SF2-TH	X	.001	.001	0 %100
34	M34	X	.001	.001	0 %100
35	M35	X	.002	.002	0 %100
36	M36	X	.000445	.000445	0 %100
37	M37	X	.000337	.000337	0 %100
38	M38	X	.001	.001	0 %100
39	M39	X	.001	.001	0 %100
40	M40	X	.000554	.000554	0 %100
41	M41	X	.002	.002	0 %100
42	M42	X	.002	.002	0 %100
43	M43	X	.002	.002	0 %100
44	M44	X	.002	.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
45	M45	X	.002	.002	0 %100
46	M46	X	.002	.002	0 %100
47	M47	X	.002	.002	0 %100
48	M48	X	.002	.002	0 %100
49	CP-1	Z	.000764	.000764	0 %100
50	CP-2	Z	.003	.003	0 %100
51	CP-3	Z	.002	.002	0 %100
52	FFTH	Z	.003	.003	0 %100
53	GSI-1	Z	.004	.004	0 %100
54	GSI-2	Z	.001	.001	0 %100
55	GSI-3	Z	.003	.003	0 %100
56	INT1-P1	Z	.003	.003	0 %100
57	INT1-P2	Z	.003	.003	0 %100
58	INT2-P1	Z	.002	.002	0 %100
59	INT2-P2	Z	.002	.002	0 %100
60	INT3-P1	Z	.000932	.000932	0 %100
61	INT3-P2	Z	.000932	.000932	0 %100
62	MP-1	Z	.002	.002	0 %100
63	MP-2	Z	.002	.002	0 %100
64	MP-3	Z	.002	.002	0 %100
65	MP-4	Z	.001	.001	0 %100
66	MP-5	Z	.002	.002	0 %100
67	MP-6	Z	.002	.002	0 %100
68	MP-7	Z	.002	.002	0 %100
69	MP-8	Z	.002	.002	0 %100
70	MP-9	Z	.001	.001	0 %100
71	MP-10	Z	.002	.002	0 %100
72	MP-11	Z	.002	.002	0 %100
73	MP-12	Z	.002	.002	0 %100
74	MP-13	Z	.002	.002	0 %100
75	MP-14	Z	.001	.001	0 %100
76	MP-15	Z	.002	.002	0 %100
77	SA-1	Z	.000758	.000758	0 %100
78	SA-2	Z	.003	.003	0 %100
79	SA-3	Z	.002	.002	0 %100
80	SF1-TH	Z	.005	.005	0 %100
81	SF2-TH	Z	.001	.001	0 %100
82	M34	Z	.001	.001	0 %100
83	M35	Z	.002	.002	0 %100
84	M36	Z	.000535	.000535	0 %100
85	M37	Z	.000389	.000389	0 %100
86	M38	Z	.001	.001	0 %100
87	M39	Z	.001	.001	0 %100
88	M40	Z	.000569	.000569	0 %100
89	M41	Z	.002	.002	0 %100
90	M42	Z	.001	.001	0 %100
91	M43	Z	.002	.002	0 %100
92	M44	Z	.002	.002	0 %100
93	M45	Z	.002	.002	0 %100
94	M46	Z	.002	.002	0 %100
95	M47	Z	.002	.002	0 %100
96	M48	Z	.002	.002	0 %100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 30 : 240 Wind - Ice)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	.001	.001	0 %100
2	CP-2	X	.002	.002	0 %100
3	CP-3	X	.001	.001	0 %100
4	FFTH	X	.002	.002	0 %100
5	GSI-1	X	.003	.003	0 %100
6	GSI-2	X	.001	.001	0 %100
7	GSI-3	X	.001	.001	0 %100
8	INT1-P1	X	.003	.003	0 %100
9	INT1-P2	X	.003	.003	0 %100
10	INT2-P1	X	.001	.001	0 %100
11	INT2-P2	X	.001	.001	0 %100
12	INT3-P1	X	.001	.001	0 %100
13	INT3-P2	X	.001	.001	0 %100
14	MP-1	X	.001	.001	0 %100
15	MP-2	X	.001	.001	0 %100
16	MP-3	X	.001	.001	0 %100
17	MP-4	X	.00091	.00091	0 %100
18	MP-5	X	.001	.001	0 %100
19	MP-6	X	.001	.001	0 %100
20	MP-7	X	.001	.001	0 %100
21	MP-8	X	.001	.001	0 %100
22	MP-9	X	.00091	.00091	0 %100
23	MP-10	X	.001	.001	0 %100
24	MP-11	X	.001	.001	0 %100
25	MP-12	X	.001	.001	0 %100
26	MP-13	X	.001	.001	0 %100
27	MP-14	X	.00091	.00091	0 %100
28	MP-15	X	.001	.001	0 %100
29	SA-1	X	0	0	0 %100
30	SA-2	X	.002	.002	0 %100
31	SA-3	X	.002	.002	0 %100
32	SF1-TH	X	.003	.003	0 %100
33	SF2-TH	X	.001	.001	0 %100
34	M34	X	.000731	.000731	0 %100
35	M35	X	.001	.001	0 %100
36	M36	X	.000608	.000608	0 %100
37	M37	X	.00046	.00046	0 %100
38	M38	X	.00092	.00092	0 %100
39	M39	X	.000557	.000557	0 %100
40	M40	X	.000757	.000757	0 %100
41	M41	X	.002	.002	0 %100
42	M42	X	.000789	.000789	0 %100
43	M43	X	.001	.001	0 %100
44	M44	X	.001	.001	0 %100
45	M45	X	.001	.001	0 %100
46	M46	X	.001	.001	0 %100
47	M47	X	.001	.001	0 %100
48	M48	X	.001	.001	0 %100
49	CP-1	Z	.002	.002	0 %100
50	CP-2	Z	.004	.004	0 %100
51	CP-3	Z	.002	.002	0 %100
52	FFTH	Z	.003	.003	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
53	GSI-1	Z	.005	.005	0 %100
54	GSI-2	Z	.002	.002	0 %100
55	GSI-3	Z	.002	.002	0 %100
56	INT1-P1	Z	.004	.004	0 %100
57	INT1-P2	Z	.004	.004	0 %100
58	INT2-P1	Z	.002	.002	0 %100
59	INT2-P2	Z	.002	.002	0 %100
60	INT3-P1	Z	.002	.002	0 %100
61	INT3-P2	Z	.002	.002	0 %100
62	MP-1	Z	.002	.002	0 %100
63	MP-2	Z	.002	.002	0 %100
64	MP-3	Z	.002	.002	0 %100
65	MP-4	Z	.002	.002	0 %100
66	MP-5	Z	.002	.002	0 %100
67	MP-6	Z	.002	.002	0 %100
68	MP-7	Z	.002	.002	0 %100
69	MP-8	Z	.002	.002	0 %100
70	MP-9	Z	.002	.002	0 %100
71	MP-10	Z	.002	.002	0 %100
72	MP-11	Z	.002	.002	0 %100
73	MP-12	Z	.002	.002	0 %100
74	MP-13	Z	.002	.002	0 %100
75	MP-14	Z	.002	.002	0 %100
76	MP-15	Z	.002	.002	0 %100
77	SA-1	Z	0	0	0 %100
78	SA-2	Z	.003	.003	0 %100
79	SA-3	Z	.004	.004	0 %100
80	SF1-TH	Z	.006	.006	0 %100
81	SF2-TH	Z	.003	.003	0 %100
82	M34	Z	.001	.001	0 %100
83	M35	Z	.003	.003	0 %100
84	M36	Z	.001	.001	0 %100
85	M37	Z	.00092	.00092	0 %100
86	M38	Z	.002	.002	0 %100
87	M39	Z	.000868	.000868	0 %100
88	M40	Z	.001	.001	0 %100
89	M41	Z	.003	.003	0 %100
90	M42	Z	.001	.001	0 %100
91	M43	Z	.003	.003	0 %100
92	M44	Z	.003	.003	0 %100
93	M45	Z	.003	.003	0 %100
94	M46	Z	.003	.003	0 %100
95	M47	Z	.003	.003	0 %100
96	M48	Z	.003	.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	Z	.004	.004	0 %100
2	CP-2	Z	.004	.004	0 %100
3	CP-3	Z	0	0	0 %100
4	FFTH	Z	0	0	0 %100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
5	GSI-1	Z	.005	.005	0 %100
6	GSI-2	Z	.005	.005	0 %100
7	GSI-3	Z	0	0	0 %100
8	INT1-P1	Z	.004	.004	0 %100
9	INT1-P2	Z	.004	.004	0 %100
10	INT2-P1	Z	0	0	0 %100
11	INT2-P2	Z	0	0	0 %100
12	INT3-P1	Z	.004	.004	0 %100
13	INT3-P2	Z	.004	.004	0 %100
14	MP-1	Z	.003	.003	0 %100
15	MP-2	Z	.003	.003	0 %100
16	MP-3	Z	.003	.003	0 %100
17	MP-4	Z	.002	.002	0 %100
18	MP-5	Z	.003	.003	0 %100
19	MP-6	Z	.003	.003	0 %100
20	MP-7	Z	.003	.003	0 %100
21	MP-8	Z	.003	.003	0 %100
22	MP-9	Z	.002	.002	0 %100
23	MP-10	Z	.003	.003	0 %100
24	MP-11	Z	.003	.003	0 %100
25	MP-12	Z	.003	.003	0 %100
26	MP-13	Z	.003	.003	0 %100
27	MP-14	Z	.002	.002	0 %100
28	MP-15	Z	.003	.003	0 %100
29	SA-1	Z	.002	.002	0 %100
30	SA-2	Z	.002	.002	0 %100
31	SA-3	Z	.005	.005	0 %100
32	SF1-TH	Z	.006	.006	0 %100
33	SF2-TH	Z	.006	.006	0 %100
34	M34	Z	0	0	0 %100
35	M35	Z	.003	.003	0 %100
36	M36	Z	.003	.003	0 %100
37	M37	Z	.002	.002	0 %100
38	M38	Z	.002	.002	0 %100
39	M39	Z	0	0	0 %100
40	M40	Z	.003	.003	0 %100
41	M41	Z	.003	.003	0 %100
42	M42	Z	0	0	0 %100
43	M43	Z	.003	.003	0 %100
44	M44	Z	.003	.003	0 %100
45	M45	Z	.003	.003	0 %100
46	M46	Z	.003	.003	0 %100
47	M47	Z	.003	.003	0 %100
48	M48	Z	.003	.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-.002	-.002	0 %100
2	CP-2	X	-.001	-.001	0 %100
3	CP-3	X	-.001	-.001	0 %100
4	FFTH	X	-.002	-.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
5	GSI-1	X	-0.001	-0.001	0 %100
6	GSI-2	X	-0.003	-0.003	0 %100
7	GSI-3	X	-0.001	-0.001	0 %100
8	INT1-P1	X	-0.001	-0.001	0 %100
9	INT1-P2	X	-0.001	-0.001	0 %100
10	INT2-P1	X	-0.001	-0.001	0 %100
11	INT2-P2	X	-0.001	-0.001	0 %100
12	INT3-P1	X	-0.003	-0.003	0 %100
13	INT3-P2	X	-0.003	-0.003	0 %100
14	MP-1	X	-0.001	-0.001	0 %100
15	MP-2	X	-0.001	-0.001	0 %100
16	MP-3	X	-0.001	-0.001	0 %100
17	MP-4	X	-0.0091	-0.0091	0 %100
18	MP-5	X	-0.001	-0.001	0 %100
19	MP-6	X	-0.001	-0.001	0 %100
20	MP-7	X	-0.001	-0.001	0 %100
21	MP-8	X	-0.001	-0.001	0 %100
22	MP-9	X	-0.0091	-0.0091	0 %100
23	MP-10	X	-0.001	-0.001	0 %100
24	MP-11	X	-0.001	-0.001	0 %100
25	MP-12	X	-0.001	-0.001	0 %100
26	MP-13	X	-0.001	-0.001	0 %100
27	MP-14	X	-0.0091	-0.0091	0 %100
28	MP-15	X	-0.001	-0.001	0 %100
29	SA-1	X	-0.002	-0.002	0 %100
30	SA-2	X	0	0	0 %100
31	SA-3	X	-0.002	-0.002	0 %100
32	SF1-TH	X	-0.001	-0.001	0 %100
33	SF2-TH	X	-0.003	-0.003	0 %100
34	M34	X	-0.00731	-0.00731	0 %100
35	M35	X	-0.00608	-0.00608	0 %100
36	M36	X	-0.001	-0.001	0 %100
37	M37	X	-0.0092	-0.0092	0 %100
38	M38	X	-0.0046	-0.0046	0 %100
39	M39	X	-0.00557	-0.00557	0 %100
40	M40	X	-0.002	-0.002	0 %100
41	M41	X	-0.00757	-0.00757	0 %100
42	M42	X	-0.00789	-0.00789	0 %100
43	M43	X	-0.001	-0.001	0 %100
44	M44	X	-0.001	-0.001	0 %100
45	M45	X	-0.001	-0.001	0 %100
46	M46	X	-0.001	-0.001	0 %100
47	M47	X	-0.001	-0.001	0 %100
48	M48	X	-0.001	-0.001	0 %100
49	CP-1	Z	0.004	0.004	0 %100
50	CP-2	Z	0.002	0.002	0 %100
51	CP-3	Z	0.002	0.002	0 %100
52	FFTH	Z	0.003	0.003	0 %100
53	GSI-1	Z	0.002	0.002	0 %100
54	GSI-2	Z	0.005	0.005	0 %100
55	GSI-3	Z	0.002	0.002	0 %100
56	INT1-P1	Z	0.002	0.002	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
57	INT1-P2	Z	0.002	0.002	0 %100
58	INT2-P1	Z	0.002	0.002	0 %100
59	INT2-P2	Z	0.002	0.002	0 %100
60	INT3-P1	Z	0.004	0.004	0 %100
61	INT3-P2	Z	0.004	0.004	0 %100
62	MP-1	Z	0.002	0.002	0 %100
63	MP-2	Z	0.002	0.002	0 %100
64	MP-3	Z	0.002	0.002	0 %100
65	MP-4	Z	0.002	0.002	0 %100
66	MP-5	Z	0.002	0.002	0 %100
67	MP-6	Z	0.002	0.002	0 %100
68	MP-7	Z	0.002	0.002	0 %100
69	MP-8	Z	0.002	0.002	0 %100
70	MP-9	Z	0.002	0.002	0 %100
71	MP-10	Z	0.002	0.002	0 %100
72	MP-11	Z	0.002	0.002	0 %100
73	MP-12	Z	0.002	0.002	0 %100
74	MP-13	Z	0.002	0.002	0 %100
75	MP-14	Z	0.002	0.002	0 %100
76	MP-15	Z	0.002	0.002	0 %100
77	SA-1	Z	0.003	0.003	0 %100
78	SA-2	Z	0	0	0 %100
79	SA-3	Z	0.004	0.004	0 %100
80	SF1-TH	Z	0.003	0.003	0 %100
81	SF2-TH	Z	0.006	0.006	0 %100
82	M34	Z	0.001	0.001	0 %100
83	M35	Z	0.001	0.001	0 %100
84	M36	Z	0.003	0.003	0 %100
85	M37	Z	0.002	0.002	0 %100
86	M38	Z	0.0092	0.0092	0 %100
87	M39	Z	0.00868	0.00868	0 %100
88	M40	Z	0.003	0.003	0 %100
89	M41	Z	0.001	0.001	0 %100
90	M42	Z	0.001	0.001	0 %100
91	M43	Z	0.003	0.003	0 %100
92	M44	Z	0.003	0.003	0 %100
93	M45	Z	0.003	0.003	0 %100
94	M46	Z	0.003	0.003	0 %100
95	M47	Z	0.003	0.003	0 %100
96	M48	Z	0.003	0.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-0.003	-0.003	0 %100
2	CP-2	X	-0.00764	-0.00764	0 %100
3	CP-3	X	-0.002	-0.002	0 %100
4	FFTH	X	-0.004	-0.004	0 %100
5	GSI-1	X	-0.00958	-0.00958	0 %100
6	GSI-2	X	-0.004	-0.004	0 %100
7	GSI-3	X	-0.003	-0.003	0 %100
8	INT1-P1	X	-0.00932	-0.00932	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
9	INT1-P2	X	-0.00932	-0.00932	0 %100
10	INT2-P1	X	-0.003	-0.003	0 %100
11	INT2-P2	X	-0.003	-0.003	0 %100
12	INT3-P1	X	-0.003	-0.003	0 %100
13	INT3-P2	X	-0.003	-0.003	0 %100
14	MP-1	X	-0.002	-0.002	0 %100
15	MP-2	X	-0.002	-0.002	0 %100
16	MP-3	X	-0.002	-0.002	0 %100
17	MP-4	X	-0.001	-0.001	0 %100
18	MP-5	X	-0.002	-0.002	0 %100
19	MP-6	X	-0.002	-0.002	0 %100
20	MP-7	X	-0.002	-0.002	0 %100
21	MP-8	X	-0.002	-0.002	0 %100
22	MP-9	X	-0.001	-0.001	0 %100
23	MP-10	X	-0.002	-0.002	0 %100
24	MP-11	X	-0.002	-0.002	0 %100
25	MP-12	X	-0.002	-0.002	0 %100
26	MP-13	X	-0.002	-0.002	0 %100
27	MP-14	X	-0.001	-0.001	0 %100
28	MP-15	X	-0.002	-0.002	0 %100
29	SA-1	X	-0.003	-0.003	0 %100
30	SA-2	X	-0.00842	-0.00842	0 %100
31	SA-3	X	-0.002	-0.002	0 %100
32	SF1-TH	X	-0.001	-0.001	0 %100
33	SF2-TH	X	-0.004	-0.004	0 %100
34	M34	X	-0.001	-0.001	0 %100
35	M35	X	-0.00445	-0.00445	0 %100
36	M36	X	-0.002	-0.002	0 %100
37	M37	X	-0.001	-0.001	0 %100
38	M38	X	-0.00337	-0.00337	0 %100
39	M39	X	-0.001	-0.001	0 %100
40	M40	X	-0.002	-0.002	0 %100
41	M41	X	-0.00554	-0.00554	0 %100
42	M42	X	-0.002	-0.002	0 %100
43	M43	X	-0.002	-0.002	0 %100
44	M44	X	-0.002	-0.002	0 %100
45	M45	X	-0.002	-0.002	0 %100
46	M46	X	-0.002	-0.002	0 %100
47	M47	X	-0.002	-0.002	0 %100
48	M48	X	-0.002	-0.002	0 %100
49	CP-1	Z	.003	.003	0 %100
50	CP-2	Z	.000764	.000764	0 %100
51	CP-3	Z	.002	.002	0 %100
52	FFTH	Z	.003	.003	0 %100
53	GSI-1	Z	.001	.001	0 %100
54	GSI-2	Z	.004	.004	0 %100
55	GSI-3	Z	.003	.003	0 %100
56	INT1-P1	Z	.000932	.000932	0 %100
57	INT1-P2	Z	.000932	.000932	0 %100
58	INT2-P1	Z	.002	.002	0 %100
59	INT2-P2	Z	.002	.002	0 %100
60	INT3-P1	Z	.003	.003	0 %100



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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
61	INT3-P2	Z	.003	.003	0 %100
62	MP-1	Z	.002	.002	0 %100
63	MP-2	Z	.002	.002	0 %100
64	MP-3	Z	.002	.002	0 %100
65	MP-4	Z	.001	.001	0 %100
66	MP-5	Z	.002	.002	0 %100
67	MP-6	Z	.002	.002	0 %100
68	MP-7	Z	.002	.002	0 %100
69	MP-8	Z	.002	.002	0 %100
70	MP-9	Z	.001	.001	0 %100
71	MP-10	Z	.002	.002	0 %100
72	MP-11	Z	.002	.002	0 %100
73	MP-12	Z	.002	.002	0 %100
74	MP-13	Z	.002	.002	0 %100
75	MP-14	Z	.001	.001	0 %100
76	MP-15	Z	.002	.002	0 %100
77	SA-1	Z	.003	.003	0 %100
78	SA-2	Z	.000758	.000758	0 %100
79	SA-3	Z	.002	.002	0 %100
80	SF1-TH	Z	.001	.001	0 %100
81	SF2-TH	Z	.005	.005	0 %100
82	M34	Z	.001	.001	0 %100
83	M35	Z	.000535	.000535	0 %100
84	M36	Z	.002	.002	0 %100
85	M37	Z	.001	.001	0 %100
86	M38	Z	.000389	.000389	0 %100
87	M39	Z	.001	.001	0 %100
88	M40	Z	.002	.002	0 %100
89	M41	Z	.000569	.000569	0 %100
90	M42	Z	.001	.001	0 %100
91	M43	Z	.002	.002	0 %100
92	M44	Z	.002	.002	0 %100
93	M45	Z	.002	.002	0 %100
94	M46	Z	.002	.002	0 %100
95	M47	Z	.002	.002	0 %100
96	M48	Z	.002	.002	0 %100

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

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-1	X	-0.003	-0.003	0 %100
2	CP-2	X	0	0	0 %100
3	CP-3	X	-0.003	-0.003	0 %100
4	FFTH	X	-0.005	-0.005	0 %100
5	GSI-1	X	0	0	0 %100
6	GSI-2	X	-0.004	-0.004	0 %100
7	GSI-3	X	-0.004	-0.004	0 %100
8	INT1-P1	X	0	0	0 %100
9	INT1-P2	X	0	0	0 %100
10	INT2-P1	X	-0.004	-0.004	0 %100
11	INT2-P2	X	-0.004	-0.004	0 %100
12	INT3-P1	X	-0.004	-0.004	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
13	INT3-P2	X	-0.04	-0.04	0 %100
14	MP-1	X	-0.02	-0.02	0 %100
15	MP-2	X	-0.02	-0.02	0 %100
16	MP-3	X	-0.02	-0.02	0 %100
17	MP-4	X	-0.02	-0.02	0 %100
18	MP-5	X	-0.02	-0.02	0 %100
19	MP-6	X	-0.02	-0.02	0 %100
20	MP-7	X	-0.02	-0.02	0 %100
21	MP-8	X	-0.02	-0.02	0 %100
22	MP-9	X	-0.02	-0.02	0 %100
23	MP-10	X	-0.02	-0.02	0 %100
24	MP-11	X	-0.02	-0.02	0 %100
25	MP-12	X	-0.02	-0.02	0 %100
26	MP-13	X	-0.02	-0.02	0 %100
27	MP-14	X	-0.02	-0.02	0 %100
28	MP-15	X	-0.02	-0.02	0 %100
29	SA-1	X	-0.04	-0.04	0 %100
30	SA-2	X	-0.02	-0.02	0 %100
31	SA-3	X	-0.02	-0.02	0 %100
32	SF1-TH	X	0	0	0 %100
33	SF2-TH	X	-0.04	-0.04	0 %100
34	M34	X	-0.02	-0.02	0 %100
35	M35	X	0	0	0 %100
36	M36	X	-0.02	-0.02	0 %100
37	M37	X	-0.01	-0.01	0 %100
38	M38	X	0	0	0 %100
39	M39	X	-0.02	-0.02	0 %100
40	M40	X	-0.02	-0.02	0 %100
41	M41	X	0	0	0 %100
42	M42	X	-0.02	-0.02	0 %100
43	M43	X	-0.03	-0.03	0 %100
44	M44	X	-0.03	-0.03	0 %100
45	M45	X	-0.03	-0.03	0 %100
46	M46	X	-0.03	-0.03	0 %100
47	M47	X	-0.03	-0.03	0 %100
48	M48	X	-0.03	-0.03	0 %100
49	CP-1	Z	.002	.002	0 %100
50	CP-2	Z	0	0	0 %100
51	CP-3	Z	.002	.002	0 %100
52	FFTH	Z	.003	.003	0 %100
53	GSI-1	Z	0	0	0 %100
54	GSI-2	Z	.002	.002	0 %100
55	GSI-3	Z	.002	.002	0 %100
56	INT1-P1	Z	0	0	0 %100
57	INT1-P2	Z	0	0	0 %100
58	INT2-P1	Z	.002	.002	0 %100
59	INT2-P2	Z	.002	.002	0 %100
60	INT3-P1	Z	.002	.002	0 %100
61	INT3-P2	Z	.002	.002	0 %100
62	MP-1	Z	.001	.001	0 %100
63	MP-2	Z	.001	.001	0 %100
64	MP-3	Z	.001	.001	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
65	MP-4	Z	.001	.001	0 %100
66	MP-5	Z	.001	.001	0 %100
67	MP-6	Z	.001	.001	0 %100
68	MP-7	Z	.001	.001	0 %100
69	MP-8	Z	.001	.001	0 %100
70	MP-9	Z	.001	.001	0 %100
71	MP-10	Z	.001	.001	0 %100
72	MP-11	Z	.001	.001	0 %100
73	MP-12	Z	.001	.001	0 %100
74	MP-13	Z	.001	.001	0 %100
75	MP-14	Z	.001	.001	0 %100
76	MP-15	Z	.001	.001	0 %100
77	SA-1	Z	.002	.002	0 %100
78	SA-2	Z	.001	.001	0 %100
79	SA-3	Z	.001	.001	0 %100
80	SF1-TH	Z	0	0	0 %100
81	SF2-TH	Z	.003	.003	0 %100
82	M34	Z	.001	.001	0 %100
83	M35	Z	0	0	0 %100
84	M36	Z	.001	.001	0 %100
85	M37	Z	.00092	.00092	0 %100
86	M38	Z	0	0	0 %100
87	M39	Z	.000868	.000868	0 %100
88	M40	Z	.001	.001	0 %100
89	M41	Z	0	0	0 %100
90	M42	Z	.001	.001	0 %100
91	M43	Z	.002	.002	0 %100
92	M44	Z	.002	.002	0 %100
93	M45	Z	.002	.002	0 %100
94	M46	Z	.002	.002	0 %100
95	M47	Z	.002	.002	0 %100
96	M48	Z	.002	.002	0 %100

Member Distributed Loads (BLC 37 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location[ft....]	End Location[ft....]
1	CP-2	Y	-.003	-.003	.205 .736
2	FFTH	Y	-.0004718	-.007	6.25 7.5
3	FFTH	Y	-.007	-.011	7.5 8.75
4	FFTH	Y	-.011	-.01	8.75 10
5	FFTH	Y	-.01	-.006	10 11.25
6	FFTH	Y	-.006	-.0004718	11.25 12.5
7	GSI-1	Y	-.004	-.007	0 1.1
8	GSI-1	Y	-.007	-.008	1.1 2.2
9	GSI-1	Y	-.008	-.008	2.2 3.3
10	GSI-1	Y	-.008	-.007	3.3 4.4
11	GSI-1	Y	-.007	-.004	4.4 5.5
12	INT1-P1	Y	-.002	-.002	.045 .352
13	INT1-P2	Y	-.002	-.002	.045 .353
14	SA-1	Y	-.004	-.018	.569 1.848
15	SA-1	Y	-.018	-.022	1.848 3.128
16	SA-1	Y	-.022	-.012	3.128 4.408



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
 Model Name : 43036 - West Haven & RT 162 CT

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Member Distributed Loads (BLC 37 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
17	SA-1	Y	-0.12	-0.01	4.408 5.687
18	SF2-TH	Y	-.0004719	-.007	6.25 7.5
19	SF2-TH	Y	-.007	-.011	7.5 8.75
20	SF2-TH	Y	-.011	-.01	8.75 10
21	SF2-TH	Y	-.01	-.006	10 11.25
22	SF2-TH	Y	-.006	-.0004719	11.25 12.5
23	CP-3	Y	-.003	-.003	.205 .736
24	GSI-3	Y	-.004	-.007	0 1.1
25	GSI-3	Y	-.007	-.008	1.1 2.2
26	GSI-3	Y	-.008	-.008	2.2 3.3
27	GSI-3	Y	-.008	-.007	3.3 4.4
28	GSI-3	Y	-.007	-.004	4.4 5.5
29	INT2-P1	Y	-.002	-.002	.045 .352
30	INT2-P2	Y	-.002	-.002	.045 .353
31	SA-3	Y	-.004	-.018	.569 1.848
32	SA-3	Y	-.018	-.022	1.848 3.128
33	SA-3	Y	-.022	-.012	3.128 4.408
34	SA-3	Y	-.012	-.001	4.408 5.688
35	SF1-TH	Y	-.0004719	-.007	6.25 7.5
36	SF1-TH	Y	-.007	-.011	7.5 8.75
37	SF1-TH	Y	-.011	-.01	8.75 10
38	SF1-TH	Y	-.01	-.006	10 11.25
39	SF1-TH	Y	-.006	-.0004719	11.25 12.5
40	SF2-TH	Y	-.0004718	-.006	0 1.25
41	SF2-TH	Y	-.006	-.01	1.25 2.5
42	SF2-TH	Y	-.01	-.011	2.5 3.75
43	SF2-TH	Y	-.011	-.007	3.75 5
44	SF2-TH	Y	-.007	-.0004718	5 6.25
45	CP-1	Y	-.003	-.003	.205 .736
46	FFTH	Y	-.0004719	-.006	0 1.25
47	FFTH	Y	-.006	-.01	1.25 2.5
48	FFTH	Y	-.01	-.011	2.5 3.75
49	FFTH	Y	-.011	-.007	3.75 5
50	FFTH	Y	-.007	-.0004719	5 6.25
51	GSI-2	Y	-.004	-.007	0 1.1
52	GSI-2	Y	-.007	-.008	1.1 2.2
53	GSI-2	Y	-.008	-.008	2.2 3.3
54	GSI-2	Y	-.008	-.007	3.3 4.4
55	GSI-2	Y	-.007	-.004	4.4 5.5
56	INT3-P1	Y	-.002	-.002	.045 .352
57	INT3-P2	Y	-.002	-.002	.045 .353
58	SA-2	Y	-.004	-.018	.569 1.848
59	SA-2	Y	-.018	-.022	1.848 3.128
60	SA-2	Y	-.022	-.012	3.128 4.408
61	SA-2	Y	-.012	-.001	4.408 5.687
62	SF1-TH	Y	-.0004718	-.006	0 1.25
63	SF1-TH	Y	-.006	-.01	1.25 2.5
64	SF1-TH	Y	-.01	-.011	2.5 3.75
65	SF1-TH	Y	-.011	-.007	3.75 5
66	SF1-TH	Y	-.007	-.0004718	5 6.25



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 38 : BLC 18 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
1	CP-2	Y	-.001	-.001	.205 .736
2	FFTH	Y	-.0001966	-.003	6.25 7.5
3	FFTH	Y	-.003	-.005	7.5 8.75
4	FFTH	Y	-.005	-.004	8.75 10
5	FFTH	Y	-.004	-.003	10 11.25
6	FFTH	Y	-.003	-.0001966	11.25 12.5
7	GSI-1	Y	-.002	-.003	0 1.1
8	GSI-1	Y	-.003	-.004	1.1 2.2
9	GSI-1	Y	-.004	-.004	2.2 3.3
10	GSI-1	Y	-.004	-.003	3.3 4.4
11	GSI-1	Y	-.003	-.002	4.4 5.5
12	INT1-P1	Y	-.000686	-.000686	.045 .352
13	INT1-P2	Y	-.0006861	-.0006861	.045 .353
14	SA-1	Y	-.002	-.008	.569 1.848
15	SA-1	Y	-.008	-.009	1.848 3.128
16	SA-1	Y	-.009	-.005	3.128 4.408
17	SA-1	Y	-.005	-.0005938	4.408 5.687
18	SF2-TH	Y	-.0001966	-.003	6.25 7.5
19	SF2-TH	Y	-.003	-.005	7.5 8.75
20	SF2-TH	Y	-.005	-.004	8.75 10
21	SF2-TH	Y	-.004	-.003	10 11.25
22	SF2-TH	Y	-.003	-.0001966	11.25 12.5
23	CP-3	Y	-.001	-.001	.205 .736
24	GSI-3	Y	-.002	-.003	0 1.1
25	GSI-3	Y	-.003	-.004	1.1 2.2
26	GSI-3	Y	-.004	-.004	2.2 3.3
27	GSI-3	Y	-.004	-.003	3.3 4.4
28	GSI-3	Y	-.003	-.002	4.4 5.5
29	INT2-P1	Y	-.000686	-.000686	.045 .352
30	INT2-P2	Y	-.0006861	-.0006861	.045 .353
31	SA-3	Y	-.002	-.008	.569 1.848
32	SA-3	Y	-.008	-.009	1.848 3.128
33	SA-3	Y	-.009	-.005	3.128 4.408
34	SA-3	Y	-.005	-.0005938	4.408 5.688
35	SF1-TH	Y	-.0001966	-.003	6.25 7.5
36	SF1-TH	Y	-.003	-.005	7.5 8.75
37	SF1-TH	Y	-.005	-.004	8.75 10
38	SF1-TH	Y	-.004	-.003	10 11.25
39	SF1-TH	Y	-.003	-.0001966	11.25 12.5
40	SF2-TH	Y	-.0001966	-.003	0 1.25
41	SF2-TH	Y	-.003	-.004	1.25 2.5
42	SF2-TH	Y	-.004	-.005	2.5 3.75
43	SF2-TH	Y	-.005	-.003	3.75 5
44	SF2-TH	Y	-.003	-.0001966	5 6.25
45	CP-1	Y	-.001	-.001	.205 .736
46	FFTH	Y	-.0001966	-.003	0 1.25
47	FFTH	Y	-.003	-.004	1.25 2.5
48	FFTH	Y	-.004	-.005	2.5 3.75
49	FFTH	Y	-.005	-.003	3.75 5
50	FFTH	Y	-.003	-.0001966	5 6.25
51	GSI-2	Y	-.002	-.003	0 1.1
52	GSI-2	Y	-.003	-.004	1.1 2.2



Company : Tower Engineering Professionals, Inc.
 Designer : DC
 Job Number : TEP No. 87791.424445
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Member Distributed Loads (BLC 38 : BLC 18 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,ksf]	Start Location[ft,...]	End Location[ft,...]
53	GSI-2	Y	-0.04	-0.04	2.2 3.3
54	GSI-2	Y	-0.04	-0.03	3.3 4.4
55	GSI-2	Y	-0.03	-0.02	4.4 5.5
56	INT3-P1	Y	-0.00686	-0.00686	.045 .352
57	INT3-P2	Y	-0.006861	-0.006861	.045 .353
58	SA-2	Y	-0.02	-0.08	.569 1.848
59	SA-2	Y	-0.08	-0.09	1.848 3.128
60	SA-2	Y	-0.09	-0.05	3.128 4.408
61	SA-2	Y	-0.05	-0.005938	4.408 5.687
62	SF1-TH	Y	-0.0001966	-0.03	0 1.25
63	SF1-TH	Y	-0.03	-0.04	1.25 2.5
64	SF1-TH	Y	-0.04	-0.05	2.5 3.75
65	SF1-TH	Y	-0.05	-0.03	3.75 5
66	SF1-TH	Y	-0.03	-0.0001966	5 6.25

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P1	P2	P3	P4	Y	Two Way	-0.12
2	P5	N21	N23	P8	Y	Two Way	-0.12
3	P9	N20	N19	P12	Y	Two Way	-0.12

Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P1	P2	P3	P4	Y	Two Way	-0.05
2	P5	N21	N23	P8	Y	Two Way	-0.05
3	P9	N20	N19	P12	Y	Two Way	-0.05

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

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M39	PIPE 2.0	.836 4.328	29	.122 4.387	29	21.79	32.13	1.872	1.872	1...	1.872	1...	H1-1b
2	M38	PIPE 2.0	.836 4.328	23	.122 4.387	23	21.79	32.13	1.872	1.872	1...	1.872	1...	H1-1b
3	M37	PIPE 2.0	.835 4.328	18	.122 4.387	18	21.79	32.13	1.872	1.872	1...	1.872	1...	H1-1b
4	SA-3	HSS4X4X3	.764 0	34	.097 0	y 21	62.205	116.1	13.762	13.762	1...	13.762	1...	H1-1b
5	SA-1	HSS4X4X3	.755 0	45	.097 0	y 31	62.205	116.1	13.762	13.762	1.9	13.762	1.9	H1-1b
6	SA-2	HSS4X4X3	.755 0	40	.097 0	y 26	62.205	116.1	13.762	13.762	1...	13.762	1...	H1-1b
7	MP-1	PIPE 2.0X	.604 4.5	26	.059 4.5	11	14.528	44.1	2.531	2.531	1...	2.531	1...	H1-1b
8	MP-6	PIPE 2.0X	.602 4.5	31	.059 4.5	16	14.528	44.1	2.531	2.531	1...	2.531	1...	H1-1b
9	MP-11	PIPE 2.0X	.602 4.5	21	.058 4.5	6	14.528	44.1	2.531	2.531	1...	2.531	1...	H1-1b
10	M34	PIPE 2.5	.564 7.292	23	.270 .651	18	3.301	50.715	3.596	3.596	4...	3.596	4...	H1-1a
11	M36	PIPE 2.5	.564 5.208	29	.270 .651	23	3.301	50.715	3.596	3.596	3...	3.596	3...	H1-1a
12	M35	PIPE 2.5	.563 7.292	18	.270 .651	29	3.301	50.715	3.596	3.596	3...	3.596	3...	H1-1a
13	M41	L2.5x2.5x4	.454 1.191	23	.065 0	y 23	37.809	38.556	1.114	2.537	2...	2.537	2...	H2-1
14	M40	L2.5x2.5x4	.453 1.191	18	.065 0	y 18	37.809	38.556	1.114	2.537	2...	2.537	2...	H2-1
15	M42	L2.5x2.5x4	.453 1.191	29	.064 0	y 29	37.809	38.556	1.114	2.537	2...	2.537	2...	H2-1
16	MP-7	PIPE 2.0	.307 4.5	33	.057 4.5	23	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b
17	MP-12	PIPE 2.0	.306 4.5	28	.057 4.5	29	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b
18	MP-2	PIPE 2.0	.282 4.5	11	.056 4.5	18	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b
19	MP-5	PIPE 2.0	.252 4.5	26	.041 4.5	9	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b



Company : Tower Engineering Professionals, Inc.
 Designer : DC
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Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn
20	MP-15	PIPE 2.0	.247 4.5	22	.041 4.5	3	11.015	32.13	1.872	1.872	4...	1.872	4...	H1-1b
21	MP-10	PIPE 2.0	.246 4.5	31	.041 4.5	14	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b
22	MP-13	PIPE 2.0	.194 4.5	27	.049 4.5	29	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b
23	MP-8	PIPE 2.0	.194 4.5	23	.049 4.5	23	11.015	32.13	1.872	1.872	1...	1.872	1...	H1-1b
24	MP-3	PIPE 2.0	.189 4.5	33	.048 4.5	18	11.015	32.13	1.872	1.872	2...	1.872	2...	H1-1b
25	FFTH	C6X8.2	.126 .391	26	.099 .391	y 25	7.217	77.436	2.108	10.597	1...	10.597	1...	H1-1b
26	SF1-TH	C6X8.2	.126 12.109	21	.103 12.109	y 20	7.217	77.436	2.108	10.588	1...	10.588	1...	H1-1b
27	SF2-TH	C6X8.2	.125 12.109	31	.099 12.109	y 30	7.217	77.436	2.108	10.576	1...	10.576	1...	H1-1b
28	MP-4	PIPE 2.0	.114 .5	28	.050 3.5	32	31.708	32.13	1.872	1.872	1...	1.872	1...	H1-1b
29	MP-14	PIPE 2.0	.112 .5	23	.048 3.5	26	31.708	32.13	1.872	1.872	1...	1.872	1...	H1-1b
30	MP-9	PIPE 2.0	.112 .5	18	.049 3.5	21	31.708	32.13	1.872	1.872	1...	1.872	1...	H1-1b
31	M46	L2.5x2.5x3	.094 .94	24	.016 0	z 27	25.599	29.192	.873	1.95	1...	1.95	1...	H2-1
32	M48	L2.5x2.5x3	.090 .961	30	.016 0	z 32	25.599	29.192	.873	1.95	1...	1.95	1...	H2-1
33	M44	L2.5x2.5x3	.090 .961	19	.016 0	z 22	25.599	29.192	.873	1.95	1...	1.95	1...	H2-1
34	M47	L2.5x2.5x3	.089 .961	22	.017 0	y 19	25.599	29.192	.873	1.95	1...	1.95	1...	H2-1
35	M43	L2.5x2.5x3	.088 .961	27	.017 0	y 25	25.599	29.192	.873	1.95	1...	1.95	1...	H2-1
36	M45	L2.5x2.5x3	.088 .961	33	.017 0	y 30	25.599	29.192	.873	1.95	1...	1.95	1...	H2-1
37	GSI-3	C6X8.2	.052 2.75	26	.008 5.5	y 30	34.872	77.436	2.108	13.221	1...	13.221	1...	H1-1b
38	GSI-1	C6X8.2	.049 2.75	21	.008 5.5	y 25	34.872	77.436	2.108	13.221	1...	13.221	1...	H1-1b
39	GSI-2	C6X8.2	.049 2.75	31	.008 0	y 20	34.872	77.436	2.108	13.221	1...	13.221	1...	H1-1b

APPENDIX B
ADDITIONAL CALCULATIONS



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

Wind Inputs:		
Ult. Wind Velocity:	120.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	143.0	ft
Antenna Centerline:	143.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	138	ft

Wind Calculations:		
K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.095	Section 2.6.5.2
$K_{z-Antenna}$:	1.095	Section 2.6.5.2
K_{iz} :	1.158	Section 2.6.10
Ice Thickness:	0.984	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)	
$(q_z G_h)_{Mount}$:	36.23	$(q_z G_h)_{Mount}$:	6.62
$(q_z G_h)_{Antenna}$:	36.23	$(q_z G_h)_{Antenna}$:	6.62



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,%)
RFS/CELWAVE	APXVAARR24_43-U-NA20	95.90	24.00	8.70	127.90	0.00	1	Flat	MP-1	0.50	7.00	
ERICSSON	RADIO 4449 B71/B85A	15.00	13.20	10.50	75.00	90.00	1	Flat	MP-1	4.00		
ERICSSON	RRUS 4415 B25	15.00	13.20	5.40	46.00	90.00	1	Flat	MP-1	4.00		
ERICSSON	AIR 3246 B66	58.10	15.70	9.40	194.00	0.00	1	Flat	MP-2	1.33	6.00	
ERICSSON	AIR6449 B41	33.10	20.60	8.60	104.00	0.00	1	Flat	MP-3	2.33	4.83	
ERICSSON	AIR 32 B66Aa/B2a	56.60	12.90	8.70	132.20	0.00	1	Flat	MP-5	1.33	6.00	
RFS/CELWAVE	APXVAARR24_43-U-NA20	95.90	24.00	8.70	127.90	120.00	1	Flat	MP-6	0.50	7.00	
ERICSSON	RADIO 4449 B71/B85A	15.00	13.20	10.50	75.00	210.00	1	Flat	MP-6	4.00		
ERICSSON	RRUS 4415 B25	15.00	13.20	5.40	46.00	210.00	1	Flat	MP-6	4.00		
ERICSSON	AIR 3246 B66	58.10	15.70	9.40	194.00	120.00	1	Flat	MP-7	1.33	6.00	
ERICSSON	AIR6449 B41	33.10	20.60	8.60	104.00	120.00	1	Flat	MP-8	2.33	4.83	
ERICSSON	AIR 32 B66Aa/B2a	56.60	12.90	8.70	132.20	120.00	1	Flat	MP-10	1.33	6.00	
RFS/CELWAVE	APXVAARR24_43-U-NA20	95.90	24.00	8.70	127.90	240.00	1	Flat	MP-11	0.50	7.00	
ERICSSON	RADIO 4449 B71/B85A	15.00	13.20	10.50	75.00	330.00	1	Flat	MP-11	4.00		
ERICSSON	RRUS 4415 B25	15.00	13.20	5.40	46.00	330.00	1	Flat	MP-11	4.00		
ERICSSON	AIR 3246 B66	58.10	15.70	9.40	194.00	240.00	1	Flat	MP-12	1.33	6.00	
ERICSSON	AIR6449 B41	33.10	20.60	8.60	104.00	240.00	1	Flat	MP-13	2.33	4.83	
ERICSSON	AIR 32 B66Aa/B2a	56.60	12.90	8.70	132.20	240.00	1	Flat	MP-15	1.33	6.00	



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

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	4.000	11.29	Flat	-30.00	9.00
CP-2	4.000	11.29	Flat	30.00	9.00
CP-3	4.000	11.29	Flat	90.00	9.00
FFTH	6.000	150.00	Flat	90.00	19.60
GSI-1	6.000	66.00	Flat	30.00	19.60
GSI-2	6.000	66.00	Flat	-30.00	19.60
GSI-3	6.000	66.00	Flat	90.00	19.60
INT1-P1	4.000	4.56	Flat	30.00	9.00
INT1-P2	4.000	4.56	Flat	30.00	9.00
INT2-P1	4.000	4.56	Flat	90.00	9.00
INT2-P2	4.000	4.56	Flat	90.00	9.00
INT3-P1	4.000	4.56	Flat	-30.00	9.00
INT3-P2	4.000	4.56	Flat	-30.00	9.00
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	48.00	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	48.00	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
MP-13	2.375	96.00	Round		7.46
MP-14	2.375	48.00	Round		7.46
MP-15	2.375	96.00	Round		7.46
SA-1	4.000	68.25	Flat	-60.00	16.00
SA-2	4.000	68.25	Flat	60.00	16.00
SA-3	4.000	68.25	Flat	0.00	16.00
SF1-TH	6.000	150.00	Flat	30.00	19.60
SF2-TH	6.000	150.00	Flat	-30.00	19.60
M34	2.875	150.00	Round	90.00	9.03
M35	2.875	150.00	Round	30.00	9.03
M36	2.875	150.00	Round	-30.00	9.03
M37	2.375	68.29	Round	-30.00	7.46
M38	2.375	68.29	Round	30.00	7.46
M39	2.375	68.29	Round	90.00	7.46
M40	2.500	14.29	Flat	-30.00	10.00
M41	2.500	14.29	Flat	30.00	10.00
M42	2.500	14.29	Flat	90.00	10.00
M43	2.500	24.08	Flat		10.00
M44	2.500	24.08	Flat		10.00
M45	2.500	24.08	Flat		10.00
M46	2.500	24.08	Flat		10.00
M47	2.500	24.08	Flat		10.00
M48	2.500	24.08	Flat		10.00

Moment Bolt Group - Support Arm

Bolt Size: 0.625 in
 # Bolts: 4
 Plate Width: 11.5 in
 Plate Height: 11.5 in
 Bolt H Gap: 9.25 in
 Bolt V Gap: 9.25 in
 Plate T: 0.625 in
 Slip Member \emptyset : N/A in
 Bolt Grade: A325N
 $F_{u\text{bolt}}$: 120 ksi
 r: 6.5407 in
 J: 171.13 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 =	33.9%	PASS
Plate Capacity =	99.5%	PASS

Plate Bending

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

Plate F_y : 36 ksi

$M_y = 3.4105$ k - in

$Z_y = 1.123$ in³

$S_y = 0.749$ in³

$M_z = 36.1921$ k - in

$Z_z = 1.123$ in³

$S_z = 0.749$ in³

$\emptyset Mp_y (Z)$: 36.387 k - in

$\emptyset Mp_y (S)$: 38.813 k - in

$\emptyset Mp_z (Z)$: 36.387 k - in

$\emptyset Mp_z (S)$: 38.813 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: CT11821E

CT821/D&B Flower Farm
668 Jones Hill Road
West Haven, Connecticut 06516

July 15, 2020

EBI Project Number: 6220003081

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	51.40%

July 15, 2020

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

Emissions Analysis for Site: CT11821E - CT821/D&B Flower Farm

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **668 Jones Hill Road in West Haven, 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 668 Jones Hill Road in West Haven, 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) 2 UMTS 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.

- 6) 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.
- 7) 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.
- 8) 4 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 9) 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.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) The antennas used in this modeling are the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz channel(s), the Ericsson AIR 3246 for the 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector A, the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz channel(s), the Ericsson AIR 3246 for the 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector B, the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz channel(s), the Ericsson AIR 3246 for the 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback

from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

- 14) The antenna mounting height centerline of the proposed antennas is 143 feet above ground level (AGL).
- 15) 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.
- 16) 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:	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 / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd / 15.65 dBd
Height (AGL):	143 feet	Height (AGL):	143 feet	Height (AGL):	143 feet
Channel Count:	9	Channel Count:	9	Channel Count:	9
Total TX Power (W):	380 Watts	Total TX Power (W):	380 Watts	Total TX Power (W):	380 Watts
ERP (W):	10,670.10	ERP (W):	10,670.10	ERP (W):	10,670.10
Antenna A1 MPE %:	2.86%	Antenna B1 MPE %:	2.86%	Antenna C1 MPE %:	2.86%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR 3246	Make / Model:	Ericsson AIR 3246	Make / Model:	Ericsson AIR 3246
Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz
Gain:	15.85 dBd	Gain:	15.85 dBd	Gain:	15.85 dBd
Height (AGL):	143 feet	Height (AGL):	143 feet	Height (AGL):	143 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):	6,153.47	ERP (W):	6,153.47	ERP (W):	6,153.47
Antenna A2 MPE %:	1.08%	Antenna B2 MPE %:	1.08%	Antenna C2 MPE %:	1.08%
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):	143 feet	Height (AGL):	143 feet	Height (AGL):	143 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 %:	4.51%	Antenna B3 MPE %:	4.51%	Antenna C3 MPE %:	4.51%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32
Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.35 dBd / 15.85 dBd
Height (AGL):	143 feet	Height (AGL):	143 feet	Height (AGL):	143 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	300 Watts	Total TX Power (W):	300 Watts	Total TX Power (W):	300 Watts

ERP (W):	10,533.98	ERP (W):	10,533.98	ERP (W):	10,533.98
Antenna A4 MPE %:	1.85%	Antenna B4 MPE %:	1.85%	Antenna C4 MPE %:	1.85%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	10.31%
Sprint	2.79%
Metro PCS	1.02%
Computer Hospital	0.23%
Verizon	18.24%
AT&T	18.81%
Site Total MPE % :	51.40%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	10.31%
T-Mobile Sector B Total:	10.31%
T-Mobile Sector C Total:	10.31%
Site Total MPE % :	51.40%

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 600 MHz LTE	2	591.73	143.0	2.08	600 MHz LTE	400	0.52%
T-Mobile 600 MHz NR	1	1577.94	143.0	2.77	600 MHz NR	400	0.69%
T-Mobile 700 MHz LTE	2	648.82	143.0	2.28	700 MHz LTE	467	0.49%
T-Mobile 1900 MHz UMTS	2	1101.85	143.0	3.87	1900 MHz UMTS	1000	0.39%
T-Mobile 1900 MHz LTE	2	2203.69	143.0	7.75	1900 MHz LTE	1000	0.77%
T-Mobile 2100 MHz LTE	4	1538.37	143.0	10.82	2100 MHz LTE	1000	1.08%
T-Mobile 2500 MHz LTE	2	6412.98	143.0	22.55	2500 MHz LTE	1000	2.25%
T-Mobile 2500 MHz NR	2	6412.98	143.0	22.55	2500 MHz NR	1000	2.25%
T-Mobile 1900 MHz GSM	4	1028.30	143.0	7.23	1900 MHz GSM	1000	0.72%
T-Mobile 1900 MHz LTE	2	2056.61	143.0	7.23	1900 MHz LTE	1000	0.72%
T-Mobile 2100 MHz UMTS	2	1153.78	143.0	4.06	2100 MHz UMTS	1000	0.41%
						Total:	10.31%

• 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:	10.31%
Sector B:	10.31%
Sector C:	10.31%
T-Mobile Maximum MPE % (Sector A):	10.31%
Site Total:	51.40%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **51.40%** 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

UPS CampusShip: View/Print Label

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

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.

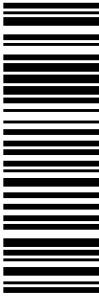
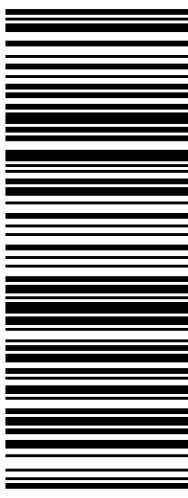

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

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SOUTH EASTON ,MA 02375

UPS Access Point™
CVS STORE # 7232
689 DEPOT ST
NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: PATRICK MASSEY, PM, SITE DEVT. AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p>	<p style="font-size: 2em;">MA 018 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1692 8901</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: CT11821E - CSC to ATC</p> <p style="font-size: 0.8em;">CS 22.0.12. WNTNV50 31.0A 07/2020*</p> 
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Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Monday, August 31, 2020 10:15 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030316928901



Hello, your package has been delivered.

Delivery Date: Monday, 08/31/2020

Delivery Time: 10:12 AM

Left At: FRONT DESK

Signed by: ANCRI

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030316928901](#)

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: CT11821E - CSC TO ATC



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- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

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.

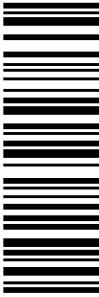


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NORTH EASTON ,MA 02356

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TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: HON. NANCY R. ROSSI, MAYOR CITY OF WEST HAVEN 355 MAIN STREET WEST HAVEN CT 06516-4310</p>	<p style="font-size: 2em;">CT 064 7-02</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0509 6929</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: CT11821E - CSC to City CS 22.0.12. WNTNV50 31.0A 07/2020*</p> 
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Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Monday, August 31, 2020 3:02 PM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030305096929



Hello, your package has been delivered.

Delivery Date: Monday, 08/31/2020

Delivery Time: 03:00 PM

Left At: RECEIVER

Signed by: SAL

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030305096929](#)

Ship To: CITY OF WEST HAVEN
355 MAIN STREET
WEST HAVEN, CT 065164310
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11821E - CSC TO CITY



[Download the UPS mobile app](#)

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UPS CampusShip: View/Print Label

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

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.

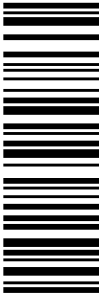
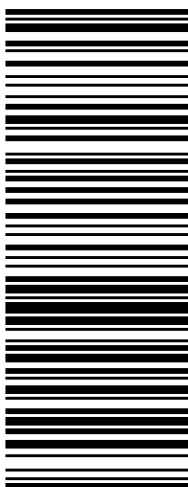

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

UPS Access Point™
CVS STORE # 972
555 WASHINGTON ST
SOUTH EASTON ,MA 02375

UPS Access Point™
CVS STORE # 7232
689 DEPOT ST
NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<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: FRED MESSORE, COMMISSIONER PLANNING CITY OF WEST HAVEN 355 MAIN STREET WEST HAVEN CT 06516-4310</p>	<p style="font-size: 2em;">CT 064 7-02</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0271 1910</p> 	<p>BILLING: P/P</p> <p>Reference # 1: CT11821E - CSC to Planning</p> <p style="font-size: 0.8em;">CS 22.0.12. WNTNV50 31.0A 07/2020*</p> 
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Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Monday, August 31, 2020 3:02 PM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030302711910



Hello, your package has been delivered.

Delivery Date: Monday, 08/31/2020

Delivery Time: 03:00 PM

Left At: RECEIVER

Signed by: SAL

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030302711910](#)

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