



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

December 9, 2020

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

**RE: Notice of Exempt Modification for AT&T - 876352
94 East High Street, East Hampton, CT 06424
Latitude: 41° 35' 14.20" / Longitude: -72° 29' 19.60"**

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 91-foot mount on the existing 118-foot Monopole Tower, located at 94 East High Street, East Hampton, CT. The property is owned by Paul & Sandys Too, Inc. and the Tower is owned by Crown Castle. AT&T now intends to remove and replace six (6) existing antennas with nine (9) new antennas. The new antennas will be installed at the 91-ft level of the tower. AT&T is also proposing a tower mount replacement as shown on the enclosed Mount Replacement Analysis. This modification includes B2, B5, and B12 hardware that is both 4G(LTE) and 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

The facility was approved by the Town of East Hampton Planning and Zoning Commission on May 7, 1997 via Special Permit. The approval was given with conditions which this exempt modification follows.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to David Cox, Town Manager for the Town of East Hampton, Jeremy DeCarli, Planning & Zoning Official, Paul & Sandys Too, Inc. as the property owners and Crown Castle is the tower owner.

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

The Foundation for a Wireless World.

CrownCastle.com

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,

Anne Marie Zsamba
Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
(201) 236-9224
AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

David Cox, Town Manager (*via email only to dcox@easthamptonct.gov & csirois@easthamptonct.gov*)
Town of East Hampton
1 Community Drive
East Hampton, CT 06424

Jeremy DeCarli, Planning & Zoning Official (*via email only to jdecarli@easthamptonct.gov*)
Town of East Hampton
1 Community Drive
East Hampton, CT 06424

Paul & Sandys Too Inc (*via email only to nthpast@yahoo.com*)
93 East High Street
East Hampton, CT 06424

Crown Castle, Tower Owner

From: [Zsamba, Anne Marie](#)
To: ["nthpast@yahoo.com"](mailto:nthpast@yahoo.com)
Subject: Notice of Exempt Modification - AT&T - 94 East High Street, East Hampton - 876352
Date: Wednesday, December 9, 2020 11:49:00 AM
Attachments: [EM-AT&T-94 EAST HIGH ST EAST HAMPTON-876352-NOTICE.pdf](#)

Dear Paul & Sandy's Too Inc:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, December 9, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,
Anne Marie Zsamba

ANNE MARIE ZSAMBA
Site Acquisition Specialist
T: (201) 236-9224
M: (518) 350-3639
F: (724) 416-6112

CROWN CASTLE
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Clifton Park, NY 12065
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From: [Zsamba, Anne Marie](#)
To: ["jdecarli@easthamptonct.gov"](mailto:jdecarli@easthamptonct.gov)
Subject: Notice of Exempt Modification - AT&T - 94 East High Street, East Hampton - 876352
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Dear Planning Official DeCarli:

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Clifton Park, NY 12065
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From: [Zsamba, Anne Marie](#)
To: ["dcox@easthamptonct.gov"](mailto:dcox@easthamptonct.gov)
Cc: ["csirois@easthamptonct.gov"](mailto:csirois@easthamptonct.gov)
Subject: Notice of Exempt Modification - AT&T - 94 East High Street, East Hampton - 876352
Date: Wednesday, December 9, 2020 11:49:00 AM
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Dear Town Manager Cox:

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CROWN CASTLE
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Clifton Park, NY 12065
CrownCastle.com

Exhibit A

Original Facility Approval

SPECIAL PERMIT

Applicant: Sprint Spectrum, L.P.
Owner: Richard Wall, et al
Location: 94 East High Street
(Map 26, Block #5, Lot 16)
Date Granted: May 7, 1997
Nature of Permit: Section 7.6.1.E - Public Utility Structure
Section 7.9.1.G - Retail/Commercial Use
Section 7.12 - Lake Porcupine Protection Area
Action: Subject to the provisions of the relevant regulations and written, oral
and graphic testimony, the permit is approved with the following:
Conditions: 1. IWS/SEA Approval
A. All E&S controls shall be in place prior to start of any work
B. E&S controls will be monitored by Town Hall
C. Bonding will be determined by Town Engineer
D. The surface of the lower portion of the access drive shall be
restored to consistent with new construction as well as noted on the
plans.
2. The tower shall be disassembled and removed upon cessation of
use.

Carol Micek
Carol Micek, Clerk

East Hampton Planning & Zoning
Commission

May 13, 1997
Date

RECEIVED FOR RECORD AT E. HAMPTON, NY
ON 5/28/97 AT 11:30 A.M.

Attest: PAULINE L. MARSHALL, Town Clerk
Pauline L. Marshall, Clerk

Exhibit B

Property Card

94 EAST HIGH ST #CELL

Location 94 EAST HIGH ST #CELL

Mblu 26/ 85/ 16/ /

Acct# R07038

Owner PAULS + SANDYS TOO INC

Assessment \$238,530

Appraisal \$340,760

PID 5476

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$140,760	\$200,000	\$340,760
Assessment			
Valuation Year	Improvements	Land	Total
2020	\$98,530	\$140,000	\$238,530

Owner of Record

Owner PAULS + SANDYS TOO INC

Sale Price \$0

Co-Owner

Certificate

Address 93 EAST HIGH ST
EAST HAMPTON, CT 06424

Book & Page 0344/0096

Sale Date 01/28/2002

Instrument 29

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
PAULS + SANDYS TOO INC	\$0		0344/0096	29	01/28/2002

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes

Field	Description
Style	Outbuildings
Model	
Grade:	
Story Height	
Foundation	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
# Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Fireplace	
Cndtn	
Usrflid 103	
Usrflid 104	
Fin Basement	
Fin Bsmt Qual	
Bsmt. Garages	
Num Park	
Fireplaces	
Usrflid 108	
Solar	
Gas Fireplace	
Usrflid 100	
Usrflid 300	
Usrflid 301	

Building Photo



(<http://images.vgsi.com/photos/EastHamptonCTPhotos//default.jpg>)

Building Layout



Building Layout

(http://images.vgsi.com/photos/EastHamptonCTPhotos//Sketches/5476_54)

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

Extra Features**Legend**

No Data for Extra Features

Land**Land Use**

Use Code 202
Description Commercial Land & OB
Zone C
Neighborhood COM
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 1
Frontage
Depth
Assessed Value \$140,000
Appraised Value \$200,000

Outbuildings**Outbuildings****Legend**

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
BLD	Building			360.00 SF	\$48,600	1
SHD1	Shed	FR	Frame	120.00 S.F.	\$2,160	1
CEL	Cell Tower			1.00 UNITS	\$90,000	1

Valuation History**Appraisal**

Valuation Year	Improvements	Land	Total
2019	\$156,400	\$200,000	\$356,400
2018	\$156,400	\$200,000	\$356,400
2016	\$156,400	\$200,000	\$356,400

Assessment

Valuation Year	Improvements	Land	Total
2019	\$109,480	\$140,000	\$249,480
2018	\$109,480	\$140,000	\$249,480
2016	\$109,480	\$140,000	\$249,480

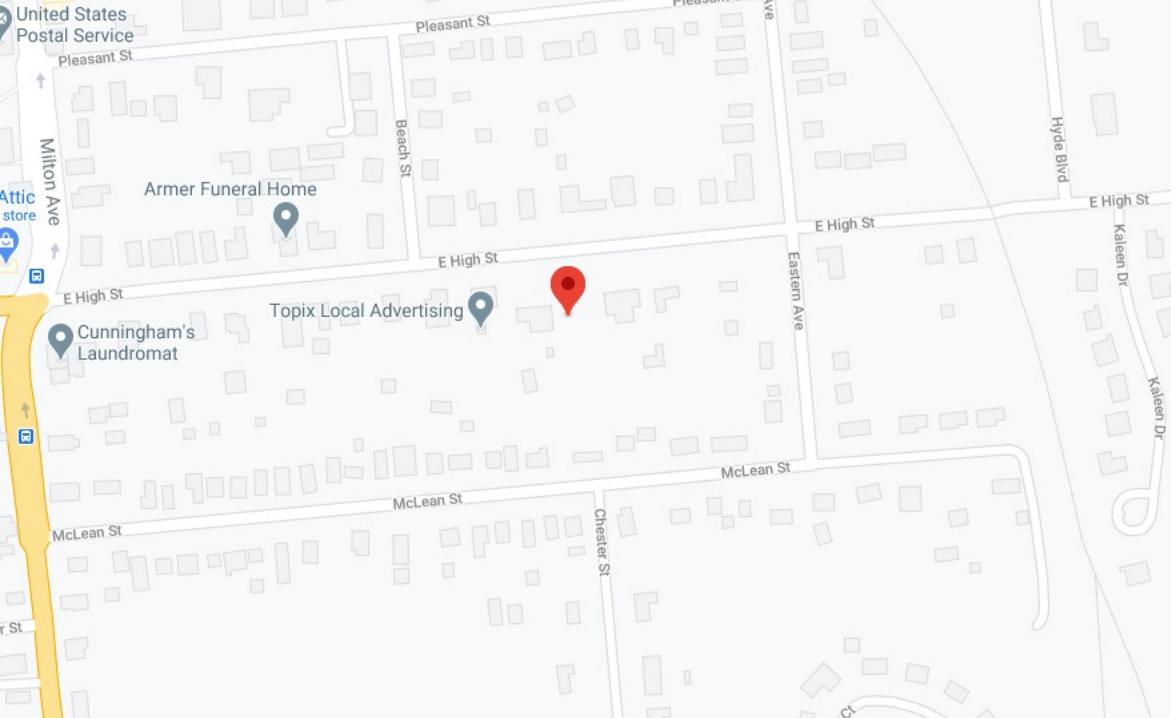


Exhibit C

Construction Drawings



AT&T SITE NUMBER: 26076
AT&T SITE NAME: CTL01053
AT&T FA CODE: 10035422
AT&T PACE NUMBER: MRCTB048729, MRCTB048728, MRCTB048708, MRCTB048692,
 MRCTB048709, MRCTB048727
AT&T PROJECT: LTE 3C/4C/5C, 4TX4RX SOFTWARE RETROFIT, BWE TOWER
 TOP RRH SWAP, 5G NR 1DR-1

BUSINESS UNIT #: 876352
SITE ADDRESS: 94 EAST HIGHT STREET
 EAST HAMPTON, CT 06424
COUNTY: MIDDLESEX
SITE TYPE: MONOPOLE
TOWER HEIGHT: 117'-6"



AT&T SITE NUMBER: 26076
BU #: 876352
RICHARD WALL

94 EAST HIGHT STREET
EAST HAMPTON, CT 06424
EXISTING 117'-6" MONOPOLE

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	10/30/20	AMM	PRELIMINARY
0	11/19/20	ERK	CONSTRUCTION

SITE INFORMATION	
CROWN CASTLE USA INC.	RICHARD WALL
SITE NAME:	
SITE ADDRESS:	94 EAST HIGHT STREET EAST HAMPTON, CT 06424
COUNTY:	MIDDLESEX
MAP/PARCEL #:	26-85-16
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 35' 14.20"
LONGITUDE:	-72° 29' 19.60"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	668 FT.
CURRENT ZONING:	R-3S
JURISDICTION:	TOWN OF EAST HAMPTON
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	PAULS & SANDYS TOO INC 93 EAST HIGHT STREET EAST HAMPTON, CT 06424
TOWER OWNER:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO (800) 268-2000
TELCO PROVIDER:	FRONTIER (877) 563-4740

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAI. EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAI. EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS
C-5	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ATTACHED	MOUNT SPECIFICATION DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

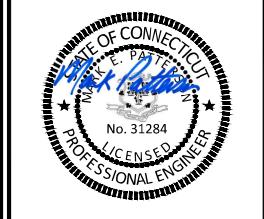
CALL CONNECTICUT ONE CALL
(800) 922-4455 CBLY.COM
CALL 2 WORKING DAYS
BEFORE YOU DIG!



PROJECT TEAM	
A&E FIRM:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWNCA. APPROVAL@CROWNCastle.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 VERONICA DELIA - PROJECT MANAGER (610) 635-3222 JASON D'AMICO - CONSTRUCTION MANAGER (860) 209-0104
NOTE:	PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

PROJECT DESCRIPTION	
<p>THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.</p> <p>TOWER SCOPE OF WORK:</p> <ul style="list-style-type: none"> REMOVE EXISTING PLATFORM MOUNT AND AJJ. ASSOCIATED PARTS REMOVE (3) KMP COMM - AM X CD-16-65-007 RET ANTENNAS REMOVE (3) PLATEWAVE TECH - B2 B2 RRUs INSTALL (3) STP PRO 1 - RMQD-4120-H10 PLATFORM MOUNT INSTALL (3) CCI - HPA65R/HU6A ANTENNAS INSTALL (3) CCI - OPA65R/HU6A ANTENNAS INSTALL (3) CCI - DMP65R/HU6A ANTENNAS INSTALL (3) ERICSSON - RRU449 B5/B12 RRUs INSTALL (3) ERICSSON - RRU843 B2/B66A RRUs INSTALL (3) ERICSSON - 4478 B14 RRUs INSTALL (3) ERICSSON - 4415 B30 RRUs INSTALL (3) BACK TO BACK RRU MOUNTS INSTALL (1) RAYCAP - DC6-48-60-18-8F SQUID INSTALL (2) #8WG D CABLES INSTALL (1) 18-PAIR FIBER CABLE INSTALL (1) CABLES FOR DUAL BAND RRU GROUP 2 SITES OF WORK REMOVE (2) PLATEWAVE TECH - LGP2100H DIPLEXERS REMOVE (2) ERICSSON - RRU B2 B2 RRUs RELOCATE (5) DC12 UNITS TO (E) H-FRAME INSTALL (1) 6630 BASE/BAND INSTALL (1) XMU INSTALL (1) IDLE CABLE INSTALL (1) PURCELL FLEX-12 CABINET INSTALL (2) 19" DISTRIBUTION PANELS IN (N) FLEX-12 CABINET INSTALL (18) VERTIV UP-CONVERTERS IN (N) FLEX-12 CABINET 	
NOTE:	PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE:	CODE
BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS
MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS
ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS
REFERENCE DOCUMENTS:	
STRUCTURAL ANALYSIS:	CROWN CASTLE USA INC.
DATED:	OCTOBER 21, 2020
MOUNT REPLACEMENT ANALYSIS:	KIMLEY-HORN AND ASSOCIATES, INC.
DATED:	OCTOBER 15, 2020
AC ELECTRICAL POWER DESIGN:	BY OTHERS
DATED:	
R/D'S REVISION:	PRELIMINARY
DATED:	09/30/20
ORDER ID:	527517
REVISION:	0
INSTALLER NOTE:	
NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT SWAP IS COMPLETE. CONTRACTOR TO INSTALL MOUNT PER MANUFACTURER'S SPECIFICATIONS.	
NOTE:	THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.



SHEET NUMBER: T-1
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED - NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER, PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER;
- LOCK UP - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONALITY OF THE SAFETY CLIMB AND/OR THE ANCHOR POINTS OR THE WIRE ROPE WHICH SUPPORT THE SAFETY CLIMB. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE TRACTION OR WEAR TO THE ANCHOR POINTS OR ANY WAY TO IMPEDE/BLOCK THE SAFETY CLIMB. THE CONTRACTOR SHALL NOT USE ANY EQUIPMENT OR METHODS OF INTERACTION WITH THE SAFETY CLIMB, INCLUDING EXISTING CONSTRUCTION, TO AVOID OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET;
- PRICING AND STAFF OF CONTRACTOR: REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THE INVOICE IS NOT LIMITED TO BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD, ZONING, ENVIRONMENTAL, AND ZONING. AFTER ON SITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS;
- ALL CONSTRUCTION MEANS AND METHODS: INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK, CONTAINED HEREIN, AND SHALL MEET AND COMPLY WITH ALL APPLICABLE STATED AND LOCAL REQUIREMENTS AND APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/AESSE A10.45 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD A10.45-12025, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IN CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/AESSE A10.45 (LATEST EDITION);
- ALL SITE WORK TO COMPLY WITH GAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE INC. TOWER SITE," CED-STD-10242 "STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE INC. TOWER SITE," AND CED-STD-10142 "STANDARDS FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING. IF THE CONTRACTOR CHOOSES TO INSTALL THE EQUIPMENT IN A MANNER OTHER THAN SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY CROWN CASTLE USA INC. AND THE CARRIER PRIOR TO PROCEEDING.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWS AND ORDERS OF ANY PUBLIC AUTHORITY. REGARDING THE WORK, THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS;
- THE CONTRACTOR SHALL USE THE MANUFACTURER'S EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE;
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION;
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK AREA SHALL BE LOCATED AND PROTECTED. CONTRACTOR SHALL NOT DAMAGE THESE UTILITIES. THE WORK SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FAIL PROOF (NO EXCAVATION) B) ELECTRICAL SAFETY C) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES;
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS. LATEST PROJECT REQUIREMENTS;
- THE CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK, IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY;
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXCAVATION, SHALL BE LOCATED AND PROTECTED AND CARE PLACED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES;
- THE CONTRACTOR SHALL PLACE APPROPRIATE PROTECTIVE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR GROUNDING REQUIRED ON LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS;
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER;
- THE GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION;
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK ARE NOT COVERED BY THE TOWER, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES TO PREVENT EROSION AS SPECIFIED IN THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS;
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION CONTROL AND CONSTRUCTION;
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER;
- OWNER SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO OWNER'S DESIGNATED LOCATION;
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED PRIOR TO LEAVING THE SITE. CONCRETE, STONE, AND OTHER MATERIALS REMOVED FROM THE SITE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT;

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC;
- THE CONTRACTOR SHALL PROTECT IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES TO ACHIEVE A TEST RESULT OF 10 OHMS OR LESS;
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATIONS AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS;
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING SPLICES OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT;
- EXCAVATION AND DUGOUTS SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS, #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS;
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED;
- AN EXCAVATED GROUND CONDUIT, EQUIPMENT GROUND CONDUIT, AND GROUND BUS SHALL BE SOLID TINNED COPPER UNLESS OTHERWISE INDICATED;
- ALUMINUM CONDUIT, COPPER CLAD STEEL CONDUIT, AND GROUND BUS SHALL NOT BE USED FOR GROUNDING CONDUCTORS;
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED;
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE;
- ALL GROUND CONDUIT SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS USING HIGH PRESS CRIMPS;
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS;
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR;
- APPLIED ANTI-OXIDANT COATINGS (i.e. CONDUCTIVE PAINT OR PASTA) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS;
- ALL EXCAVATED GROUND CONDUIT, EQUIPMENT GROUND CONDUIT, AND GROUND BUS SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS;
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC;
- BOND ALL METALLIC OBJECTS WITHIN 6' OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR, AND (2) #6 STRANDED COPPER GROUND CONDUCTOR, AND (3) #6 STRANDED COPPER GROUND CONDUCTOR, WHICH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED, WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT;
- ALL GROUNDS THAT TRANSITION FROM GRADE TO ABOVE GROUND MUST BE #2 BARE SOLID TINNED COPPER OR 3/4" NON-METALLIC, FLEXIBLE CONDUCTOR FROM 24" BELOW GRADE TO WITHIN 3' TO 6' OF CAD-WELD TERMINATION POINTS, WHICH SHALL BE BONDED TO THE GROUND RING;
- BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINES (FERROUS OR NONFERROUS METAL PIPING ONLY);

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: THE CARRIER THAT IS HAVING THE CONSTRUCTION ACTIVITIES
TOWER OWNER: CROWN CASTLE USA INC.
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS INFORMATION PROVIDED BY CONTRACTOR IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE, AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE AND MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THIS DO NOT INCLUDE THE CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, INSPECTION OF THE DRAWINGS, INSPECTION OF THE CONSTRUCTION, INSPECTION OF THESE ITEMS AND FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. THE CONTRACTOR SHALL TAKE PRECEDENCE OVER THE WORK, WHICH IS NOT SHOWN ON THE DRAWINGS, AND AS PROVIDED FOR IN THE CONTRACT DOCUMENTS, WHERE DISCREPANCY OCCURS BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN, IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- SUPPLY OF EQUIPMENT, MATERIALS, AND SERVICES, DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS, BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CLIMBING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS FOUND THAT THERE ARE ANY CLEARANCES WHICH DO NOT MEET THE REQUIREMENTS OF THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONSTRUCTION, AND SHALL ACCOMPLISH THE FOLLOWING CONSTRUCTION DRAWINGS:
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES, RULES, REGULATIONS, AND LAWS AND ORDERS OF ANY PUBLIC AUTHORITY. REGARDING THE WORK, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS;
- UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE FURNISHED, MATERIAL, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS, AND AS SHOWN ON THE DRAWINGS.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FON GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ASTM C-301, ACI 318, ACI 335, ASTM A184, ASTM A185 AND THE APPROPRIATE CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE, UNLESS NOTED OTHERWISE. CONCRETE SHALL BE PLACED AND FINISHED IN ACCORDANCE WITH THE DRAWINGS AND STANDARDS OF THE CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi, OR 28 MPa, UNLESS NOTED OTHERWISE. CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES, AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A615. TENSION SPLICES SHALL BE APPROVED BY THE ENGINEER OF RECORD. TENSION SPLICES UNLESS NOTED OTHERWISE, YIELD STRENGTH (fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

 - #4 BARS AND SMALLER.....40 ksi
 - #5 BARS AND SMALLER.....50 ksi
 - #6 BARS AND SMALLER.....60 ksi

- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER.....2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER.....1 1/2"
 - BEAMS AND COLUMNS.....3/4"
 - JOIST.....1/2"

- A TOLLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- WIRING CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

- ALL EQUIPMENT SHALL BE UNDERWITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENTS OF THE NEC.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110-24 NEC OR THE MOST CURRENT ADAPTED CODES, PER THE GOVERNMENT PURSUANT TO THE NEC.

- EVERY POWER CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (GM BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION).

- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMINOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPERAGE RATING AND BRANCH CIRCUIT ID NUMBERS (i.e., PANEL BOARD AND CIRCUIT D'S).

- PARTICLE CABLE (D NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 OR LARGER) WITH TYPE THHN, THWN, THHN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

- ALL POWER AND EQUIPMENT GROUND WIRING IN FLEXIBLE CONDUIT SHALL BE MULTICONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHN, THWN, THHN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

- POWER AND EQUIPMENT GROUND WIRING IN FLEXIBLE CONDUIT SHALL BE CRIMP-STYLE, COMPRESSION-STYLE WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL).

- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

- ELECTRICAL METALIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXTERIOR INDOOR LOCATIONS.

- ELCTRICAL METALIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.

- UNIVERSAL METALIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREWS ON FITTINGS ARE NOT ACCEPTABLE.

- CABINETS, BOXES AND WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

- WIREWAYS SHALL BE PAINTED WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNTOWARDS THE EXTERIOR, INTEGRAL SPACER, AND PROTECTOR.

- SLOTTED, FLOWING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

- CONDUS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICE (i.e., POWER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. FOLLOW THE UNITS OF USE FOR THE POWER-ACTUATED DEVICE. THE HANGER SHALL BE SECURED TO THE STRUCTURE SO THAT THE HANGERS DO NOT SWING IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE, WALL AND CEILING LINES. ALL CONDUIT SHALL BE SECURED TO THE STRUCTURE, WALL AND CEILING LINES. CONDUIT OUTLET BODIES SHALL BE SECURED TO THE STRUCTURE, WALL AND CEILING LINES TO PREVENT CONCRETE PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO PLATES BY GALVANIZED OR MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED IRON LOCKNUT ON OUTSIDE AND INSIDE.

- STEEL SHALL MEET OR EXCEED 50 ksi AND SHALL BE GALVANIZED OR EPOXY-COATED SHEET METAL OR BETTER FOR EXTERIOR LOCATIONS.

- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA 3 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR EXTERIOR LOCATIONS.

- THE CONTRACTOR SHALL NOT USE OR CARRY NECESSARY INFORMATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE APPROVING THE WORK ON POWER CONSTRUCTION PROJECTS.

- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAGUARO LIFE AND PROPERTY.

- NO EXCAVATION OR TRENCHING CABLES SHALL BE PLACED IN THE GROUND.

- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MILE TAPE PULL CORD INSTALLED.

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

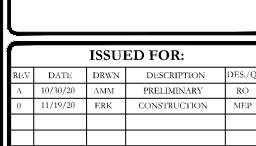
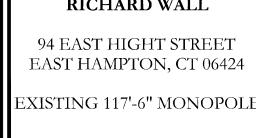
ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MICRO GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	POWER
PP	POWER PLANT
QTY	QUANTITY
RET	RETE
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFD	REMOTE FREQUENCY DATA SHEET
RHD	REMOTE HEAD, HEAD
RRU	REMOTE RADIO UNIT
SIAD	SIMPLIFIED INTEGRATED DEVICE
TM	TRANSMITTER
TYP	Typical
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL
94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

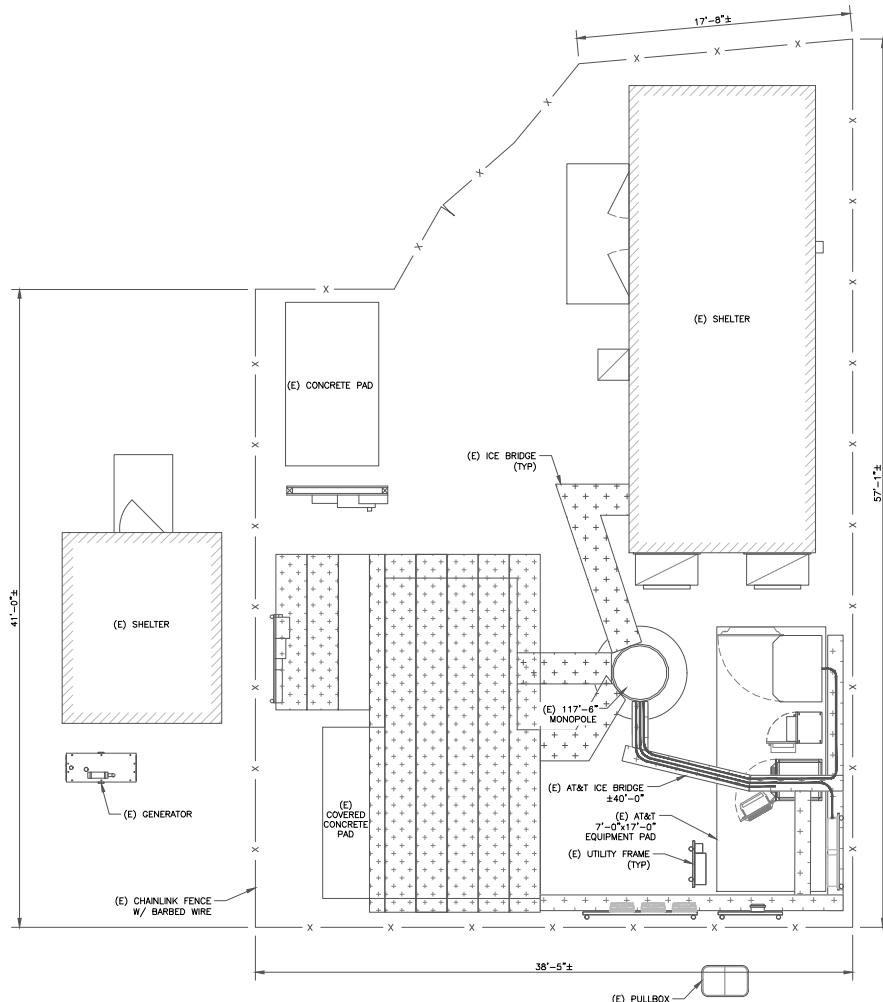
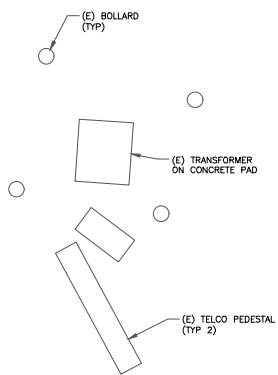


11/19/2020

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SHEET NUMBER: T-2

REVISION: 0



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL

94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR

REV	DATE	DRWN	DESCRIPTION	DFS/QM
A	10/30/20	AMM	PRELIMINARY	RO
0	11/19/20	ERK	CONSTRUCTION	MEP



11/19/2020

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SHEET NUMBER: REVISION:

C-1.1 0

1 SITE PLAN
SCALE: 1/4"=1'-0" (FULL SIZE)
4' 3' 2' 1' 0' 4' 1/8"=1'-0" (11x17)

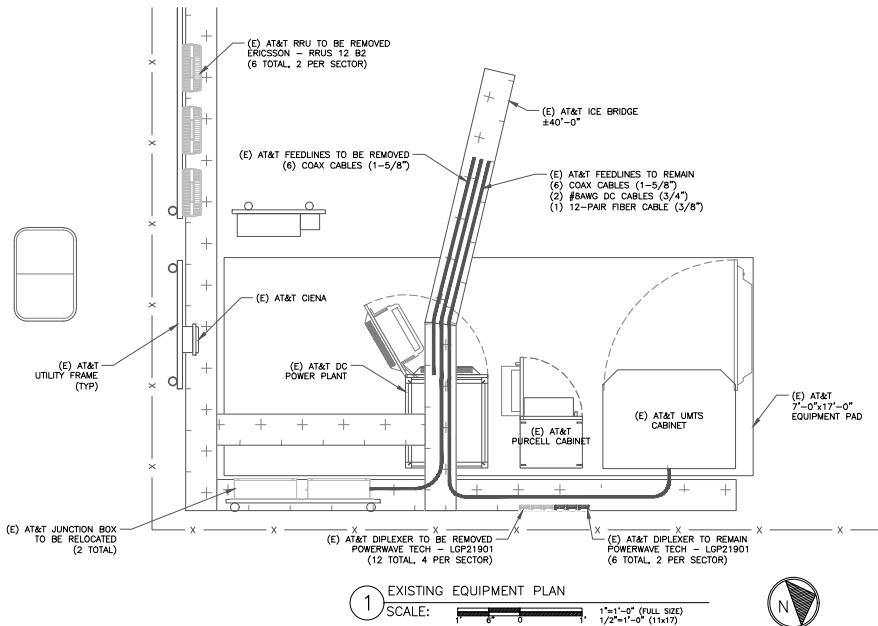




AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE



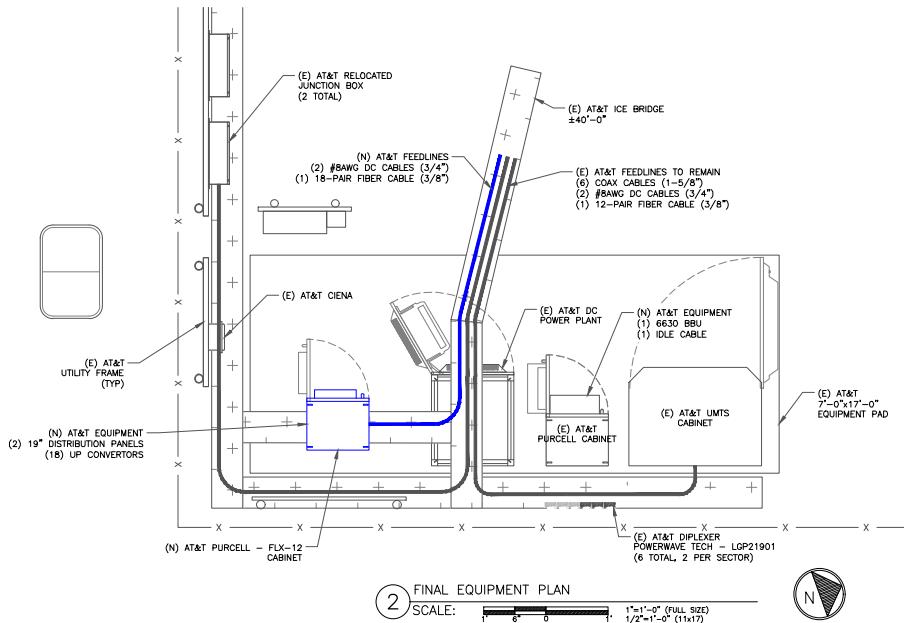
ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	10/10/20	AMM	PRELIMINARY
0	11/19/20	ERK	CONSTRUCTION

GROUND SCOPE OF WORK:

- REMOVE (12) POWERWAVE TECH - LGP21901 DIPLEXERS
- REMOVE (6) ERICSSON - RRUS 12 B2 RRUs
- RELOCATE (6) DC12 UNITS TO (E) H-FRAME
- INSTALL (1) 6630 BASEBAND
- INSTALL (1) XMU
- INSTALL (1) IDLE CABLE
- INSTALL (1) PURCELL FLX-12 CABINET
- INSTALL (2) 19" DISTRIBUTION PANELS IN (N) FLX-12 CABINET
- INSTALL (18) VERTV UP-CONVERTERS IN (N) FLX-12 CABINET

NOTE:

THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS NOT RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.



11/19/2020

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SHEET NUMBER: C-1.2 | REVISION: 0



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DFS/Q
A	10/10/20	AMM	PRELIMINARY	RO
0	11/19/20	ERK	CONSTRUCTION	MEP

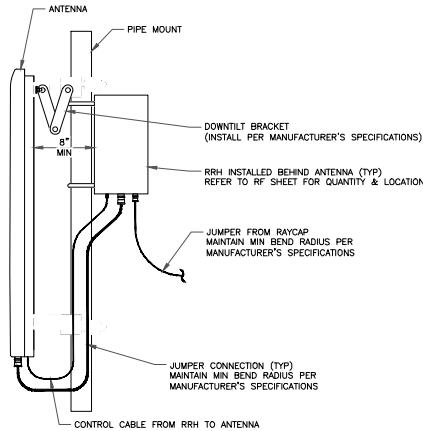


11/19/2020

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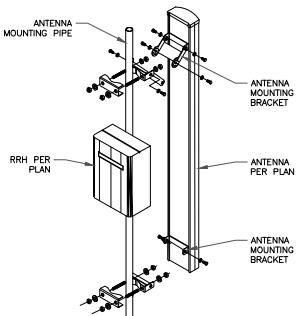
1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE



1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRIC POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPERATE EQUIPMENT IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



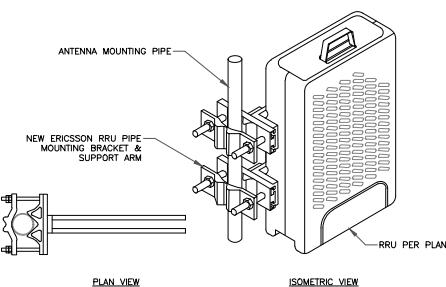
4 ANTENNA WITH RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

ERICSSON RRU MOUNTING KIT:

SKX 107-2839/1: SINGLE RRU SUPPORT KIT (PART # 5335) (OR ENGINEER APPROVED EQUIVALENT)
SKX 107-2839/2: EXPANSION KIT (PART # 5336) (OR ENGINEER APPROVED EQUIVALENT)

MOUNTING NOTES:

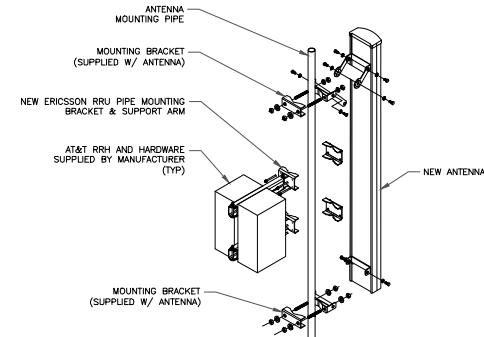
REFER TO PRODUCT SPEC FOR BOLT SIZE & PIPE DIAMETER TOLERANCES. THE PART NO. SXK107-2839/2 IS REQUIRED FOR (2) RRUS.



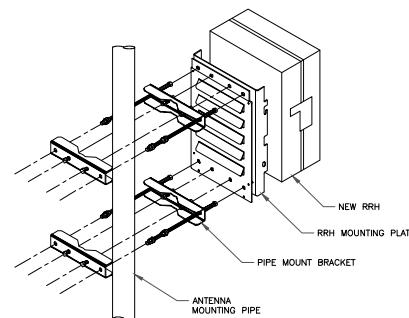
2 ERICSSON - SXK 107 2839
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRIC POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
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5 ANTENNA WITH DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

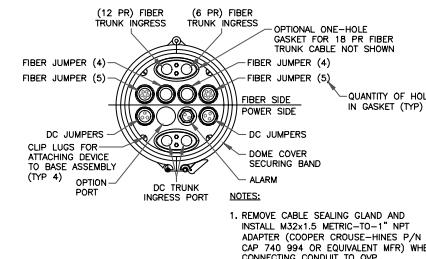
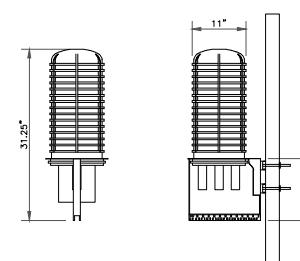
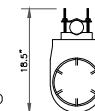


3 SINGLE RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

RAYCAP
DC6-48-60-18-8F

RAYCAP - DC6-48-60-18-8F
SIZE: 11x31.25 IN.
WEIGHT: 32.8 LBS
NORMAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 400 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION



6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

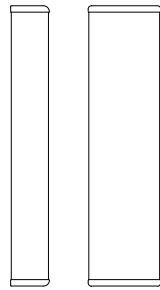
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A	10/10/20	AMM	PRELIMINARY	RO
0	11/19/20	ERK	CONSTRUCTION	MEP



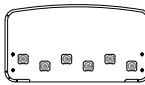
11/19/2020

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: C-4
REVISION: 0

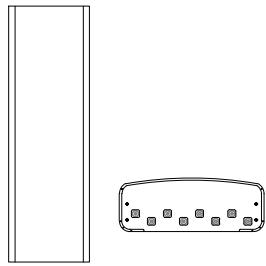


1 CCI ANTENNAS - HPA65R-BU6BA
SCALE: NOT TO SCALE



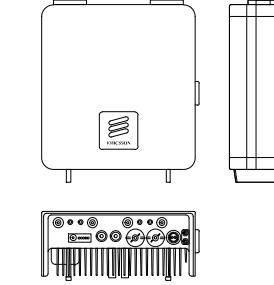
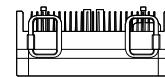
2 CCI ANTENNAS - OPA65R-BU6BA
SCALE: NOT TO SCALE

CCI ANTENNAS - OPA65R-BU6BA
WEIGHT (WITHOUT MOUNTING HARDWARE): 54.5 LBS
SIZE (HxWxD): 71.1x11.7x8.4 IN.
MOUNTING HARDWARE P/N: MBK-01
RATED WIND VELOCITY: 150.0 MPH



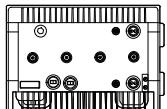
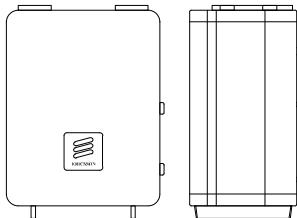
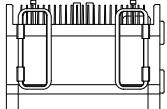
3 CCI ANTENNAS - DMP65R-BU6DA
SCALE: NOT TO SCALE

CCI ANTENNAS - DMP65R-BU6DA
WEIGHT (WITHOUT MOUNTING HARDWARE): 89.3 LBS
SIZE (HxWxD): 71.2x20.7x7.7 IN.

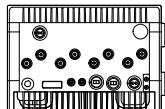
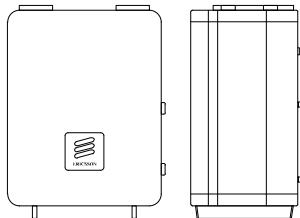
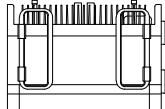


4 ERICSSON - RRUS 4478 B14
SCALE: NOT TO SCALE

ERICSSON - RRUS 4478 B14
WEIGHT: 60.0 LBS
SIZE (HxWxD): 15.0x13.0x8.0 IN.

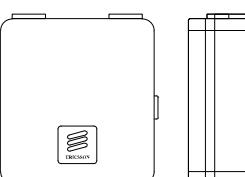
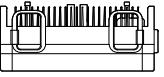


5 ERICSSON - RRUS 4449 B5/B12
SCALE: NOT TO SCALE



6 ERICSSON - RRUS 8843 B2/B66A
SCALE: NOT TO SCALE

ERICSSON - RRUS 8843 B2/B66A
WEIGHT: 70.0 LBS
SIZE (HxWxD): 18.0x13.2x9.4 IN.



7 ERICSSON - RRUS 4415 B30
SCALE: NOT TO SCALE

ERICSSON - RRUS 4415 B30
WEIGHT: 60.0 LBS
SIZE (HxWxD): 15.0x13.0x8.0 IN.

8 NOT USED
SCALE: NOT TO SCALE



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL

94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

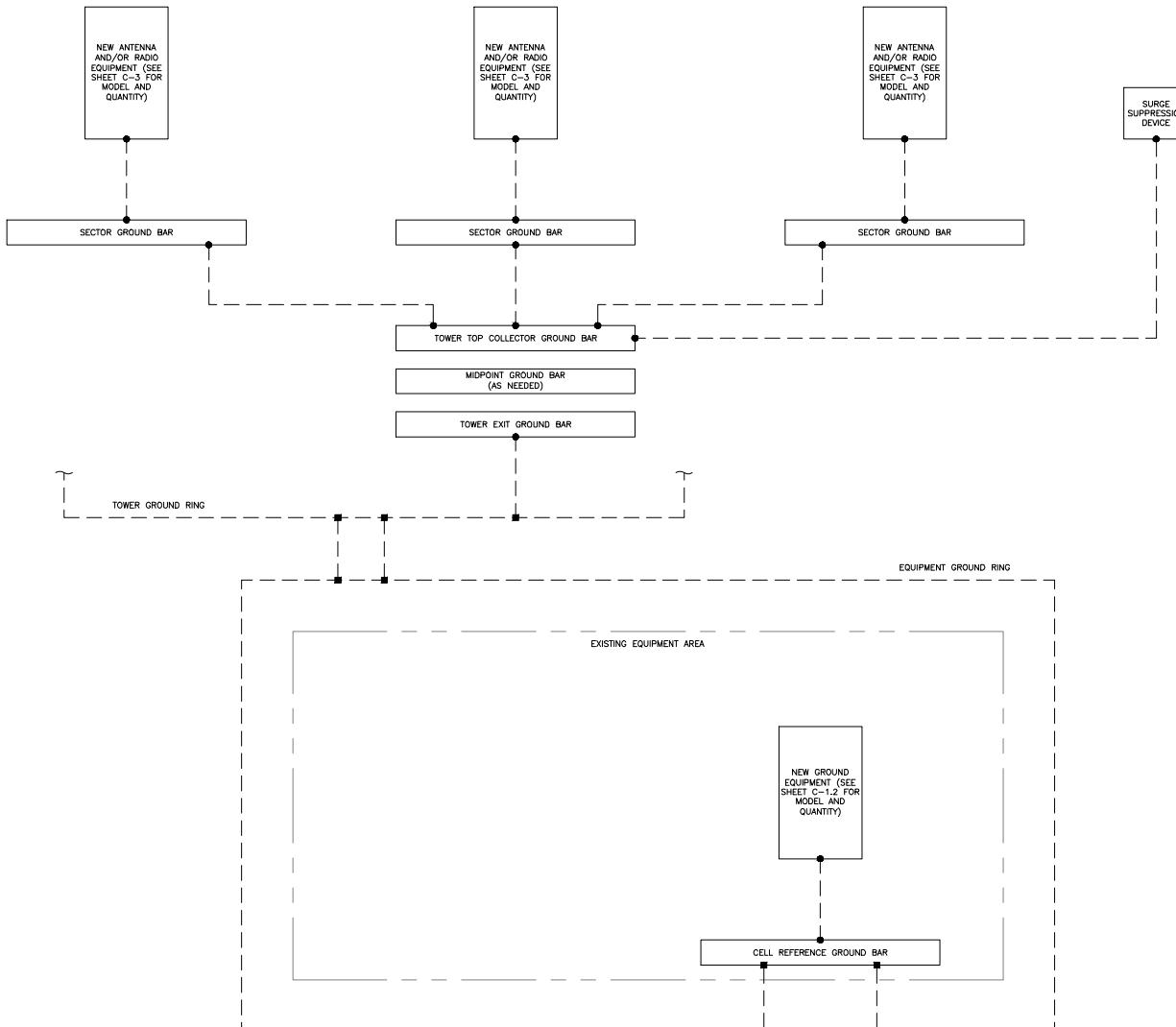
REV	DATE	DRWN	DESCRIPTION	DFS/QA
A	10/10/20	AMM	PRELIMINARY	RO
0	11/19/20	ERK	CONSTRUCTION	MEP



11/19/2020

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SHEET NUMBER: C-5
REVISION: 0



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- ⊗ GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR; POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT. BOND TO GROUND WIRE WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR; BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS; LOCATED AT THE ENTRANCE TO THE CELL SITE BOND TO BOTH GROUND RINGS WITH (2) #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, GREEN INSULATED COPPER BATTERIES ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS, SHALL BE MADE THAT ALL SERVICE CONDUCTORS, TERM ALL DC POWER SYSTEM ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN GROUND CONDUCTOR TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION II 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL

94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

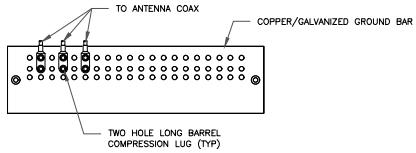
REV	DATE	DRWN	DESCRIPTION	DFS/Q
A	10/30/20	AMM	PRELIMINARY	RO
0	11/19/20	ERK	CONSTRUCTION	MEP



11/19/2020

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SHEET NUMBER: G-1
REVISION: 0

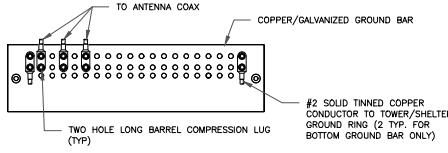


NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTICORROSION JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

① ANTENNA SECTOR GROUND BAR DETAIL

SCALE: NOT TO SCALE

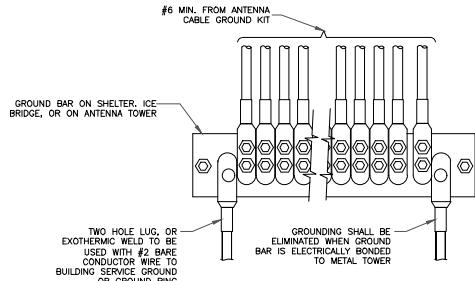


NOTES:

1. EXTERIOR ANTICORROSION JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

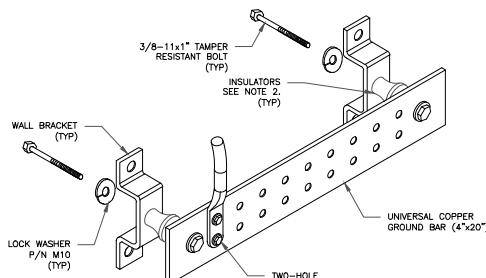
② TOWER/SHELTER GROUND BAR DETAIL

SCALE: NOT TO SCALE



④ GROUNDWIRE INSTALLATION

SCALE: NOT TO SCALE

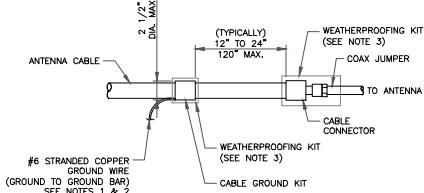


NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER. PER THE GROUNDING DOWN CONDUCTOR POLICY DAS-STD-10091, NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING TO THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATEFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

⑤ GROUND BAR DETAIL

SCALE: NOT TO SCALE

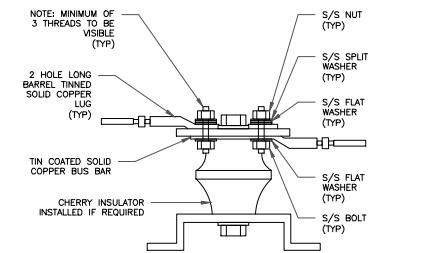


NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. USE EXACT CABLE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

⑥ CABLE GROUND KIT CONNECTION

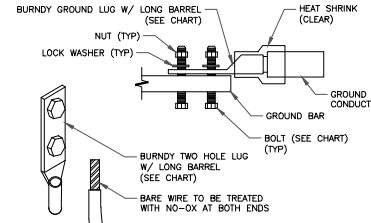
SCALE: NOT TO SCALE



⑦ LUG DETAIL

SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT

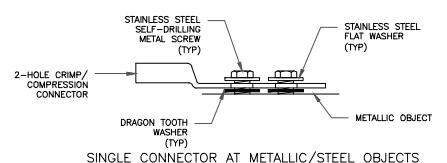
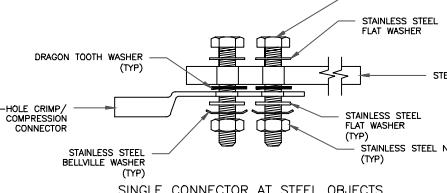
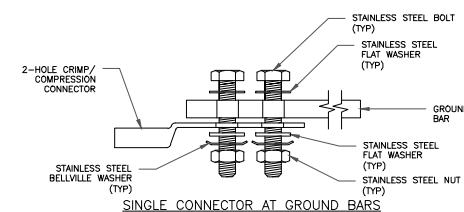


NOTES:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. HARDWARE MUST BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

③ MECHANICAL LUG CONNECTION

SCALE: NOT TO SCALE



⑧ HARDWARE DETAIL FOR EXTERIOR CONNECTIONS

SCALE: NOT TO SCALE



AT&T SITE NUMBER: 26076

BU #: 876352
RICHARD WALL94 EAST HIGHT STREET
EAST HAMPTON, CT 06424

EXISTING 117'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DFS/QA
A	10/10/20	AMM	PRELIMINARY	RO
0	11/19/20	ERK	CONSTRUCTION	MEP

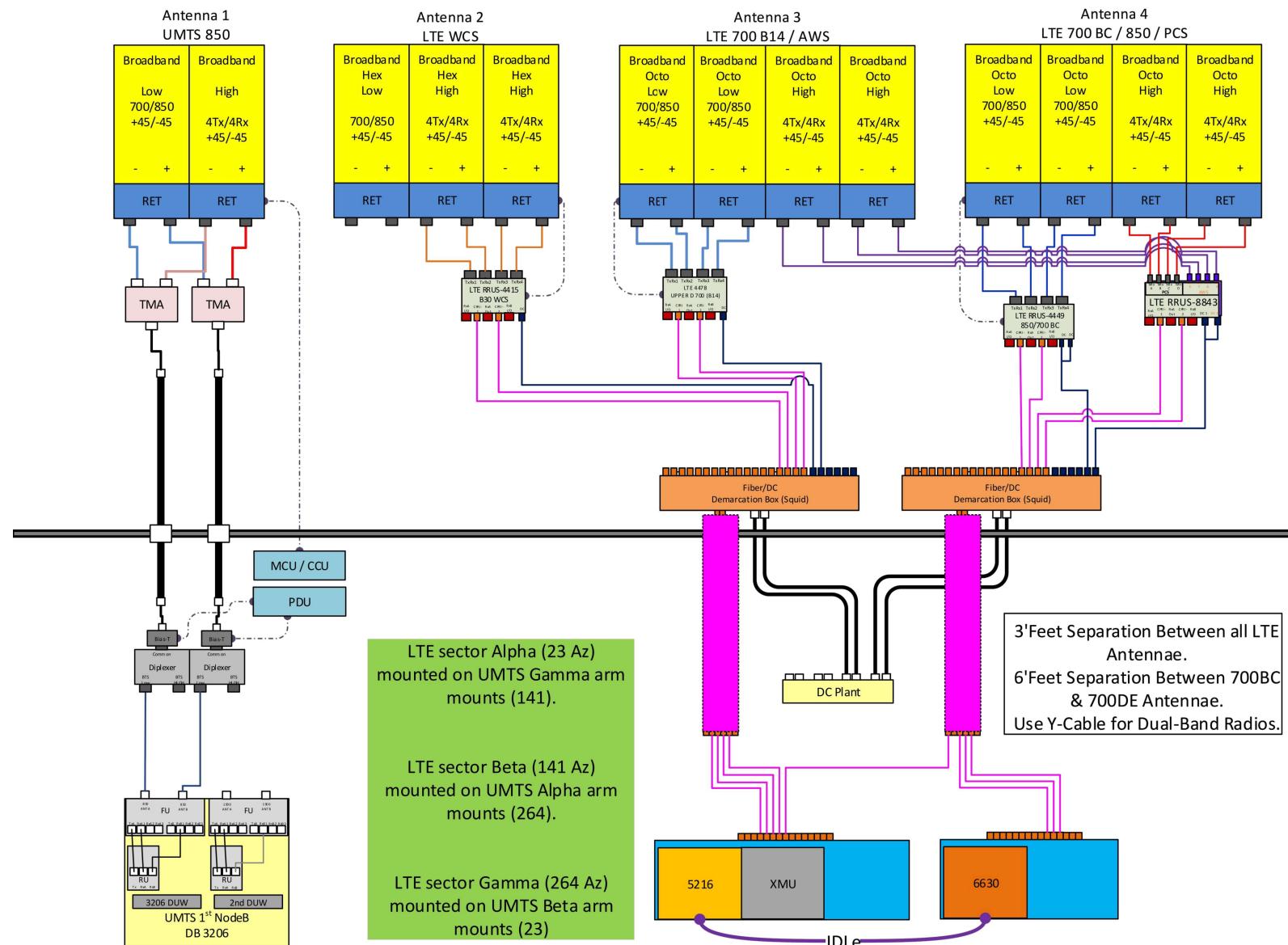


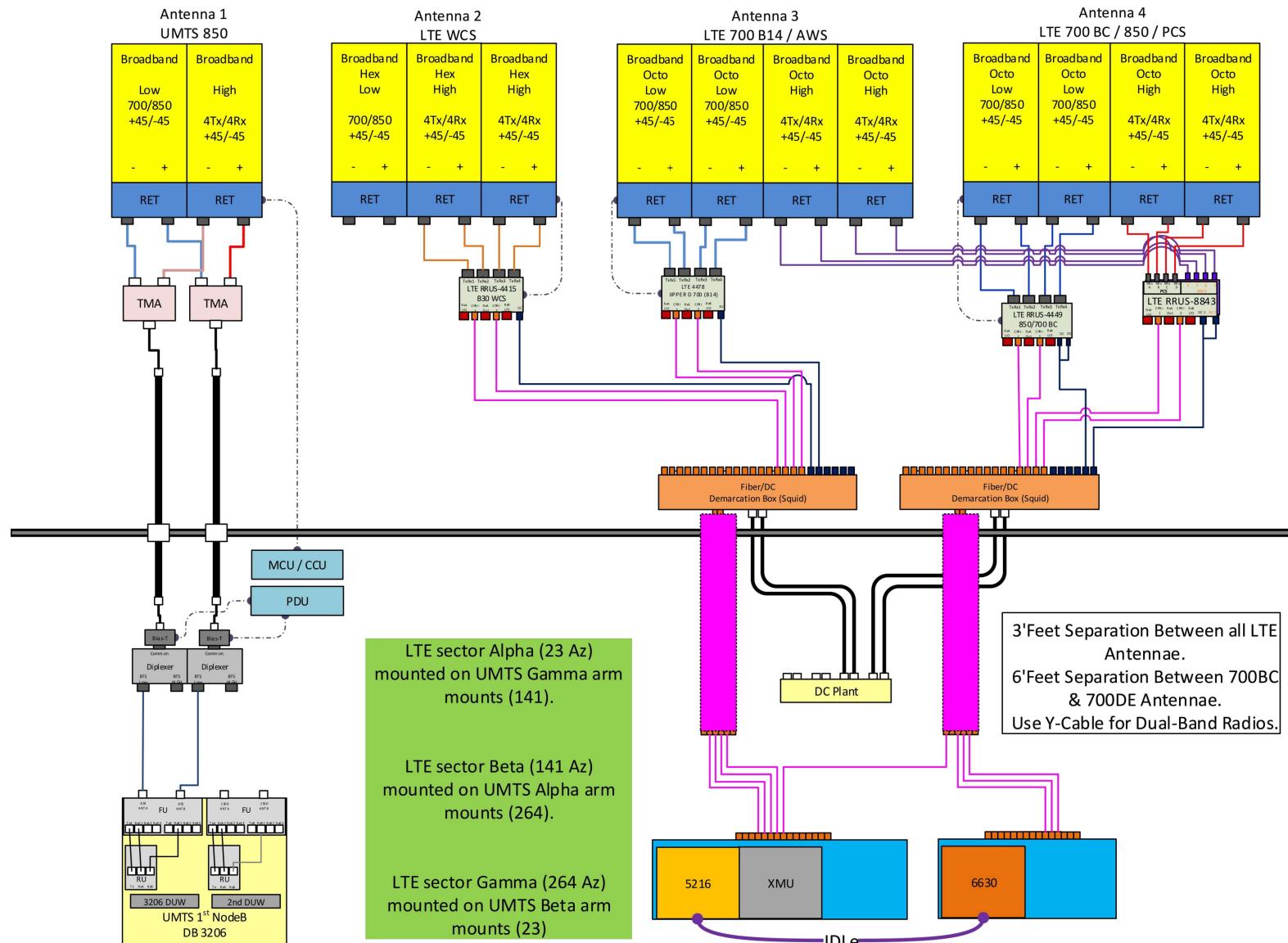
11/19/2020

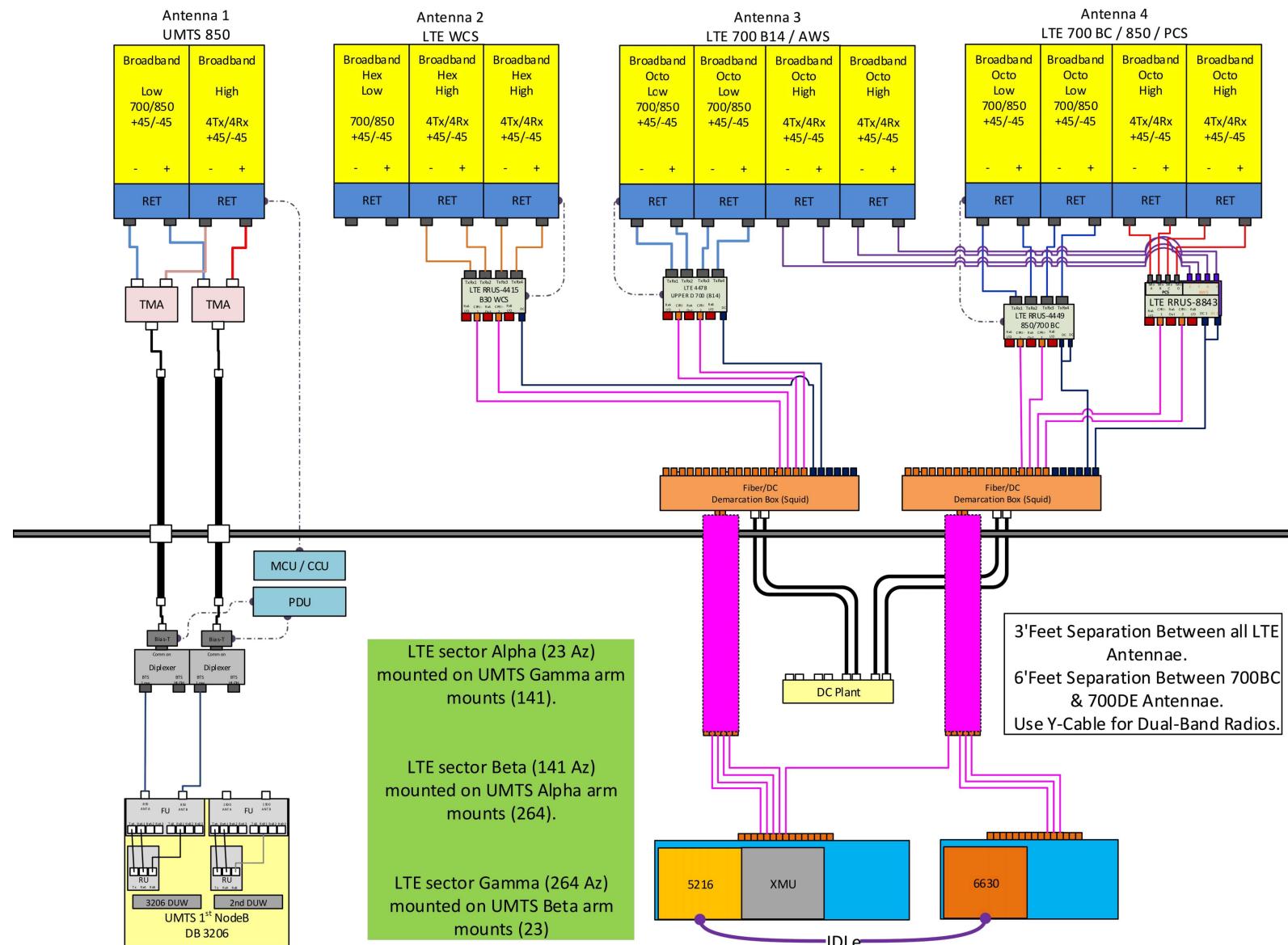
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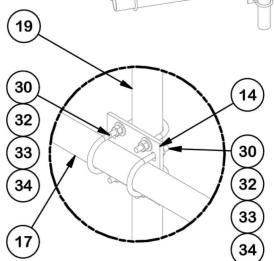
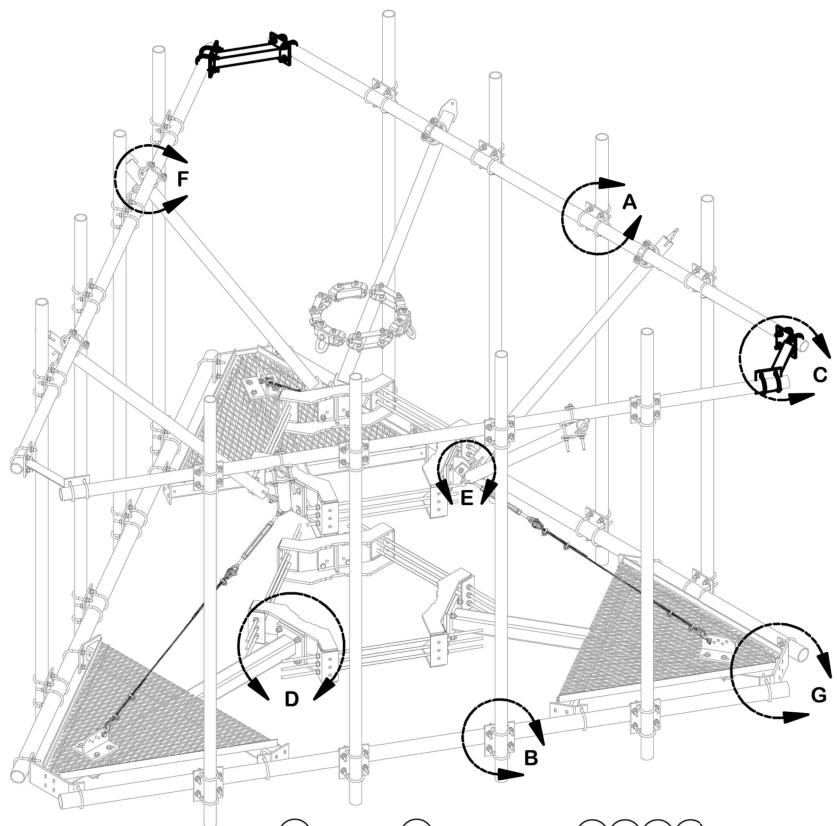
SHEET NUMBER: **G-2** | REVISION: **0**

Diagram - Sector A
 Atoll Site Name - CTL01053
 Location Name - EAST HAMPTON EAST
 Market - CONNECTICUT
 Market Cluster - NEW ENGLAND
 Comments: Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna_Radio Connection Drawings Playbook v6.0_Ericsson

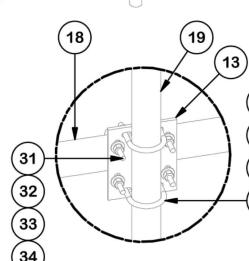




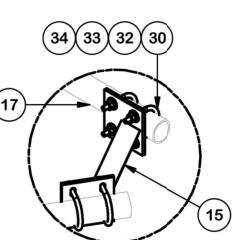




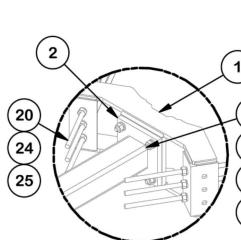
DETAIL A



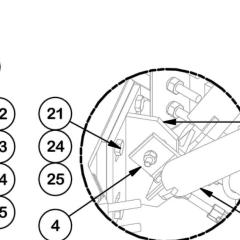
DETAIL B



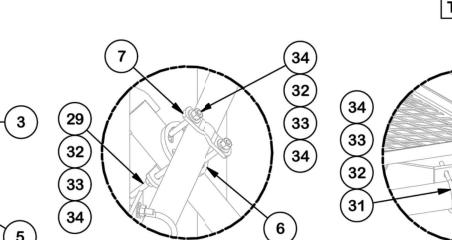
DETAIL C



DETAIL D



DETAIL E



DETAIL F

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX
 Tampa, FL



Engineering
Support Team:
1-888-753-7446

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
 14' 6" LOW PROFILE PLATFORM
 WITH TWELVE 2-7/8" ANTENNA MOUNTING
 PIPES, REINFORCED HANDRAIL, AND CABLE

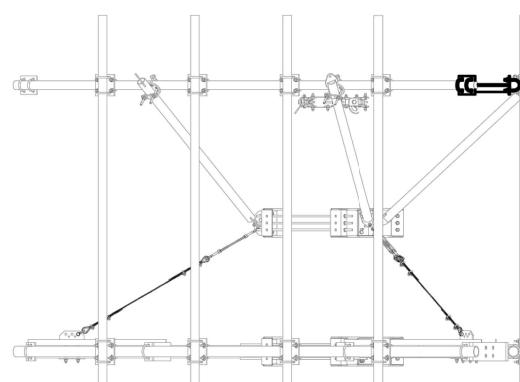
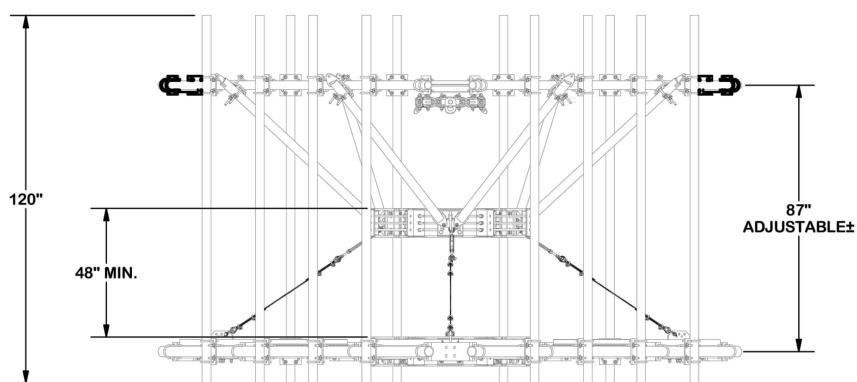
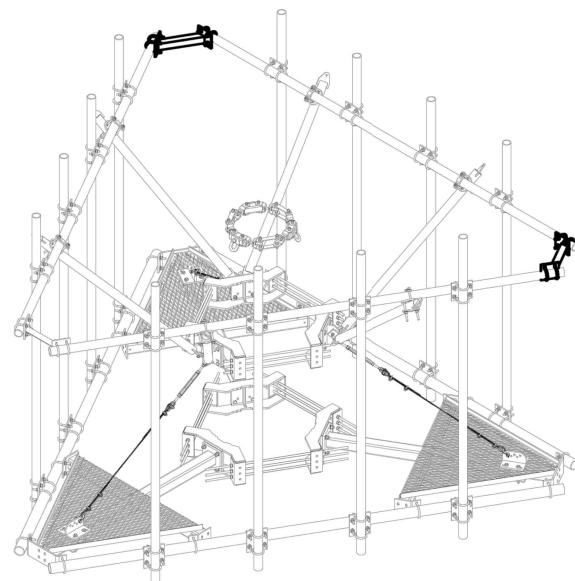
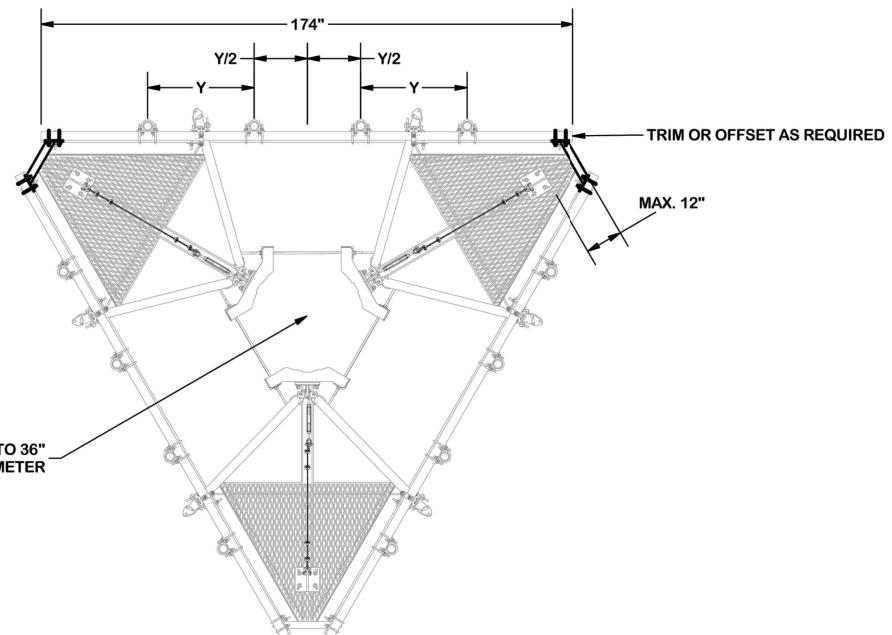
CPD NO. DRAWN BY
 CSL 10/17/2019 ENG. APPROVAL
 10/18/2019

PART NO.

RMQLP-4120-H10

DWG. NO.

RMQLP-4120-H10



TOLERANCE NOTES

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 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
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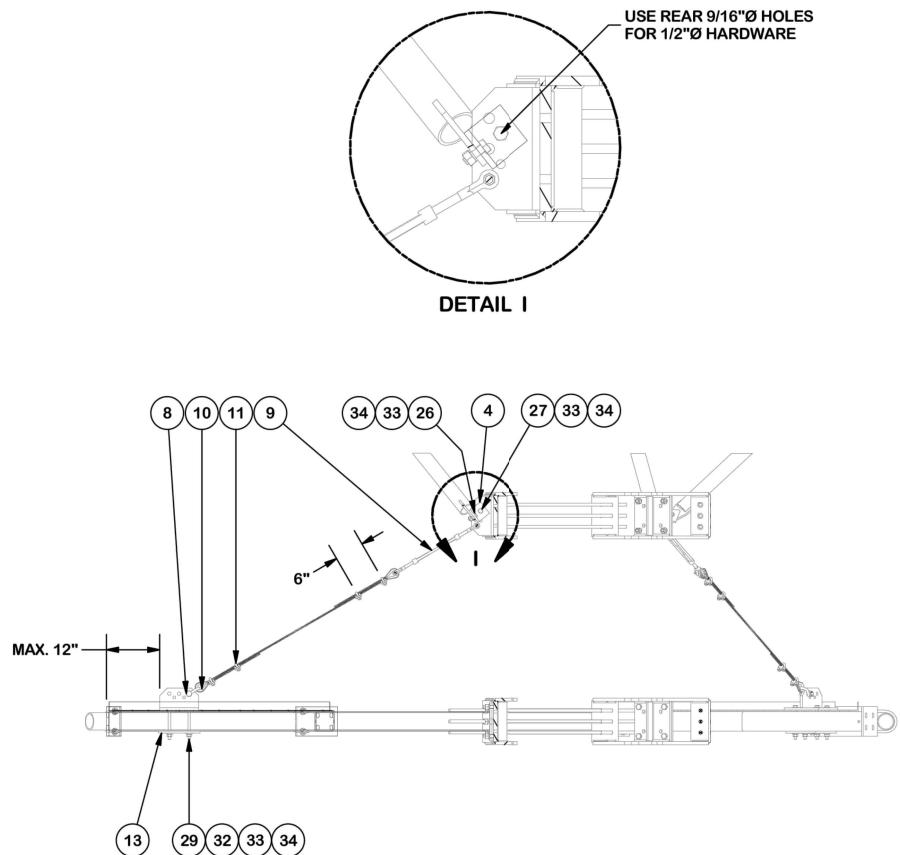
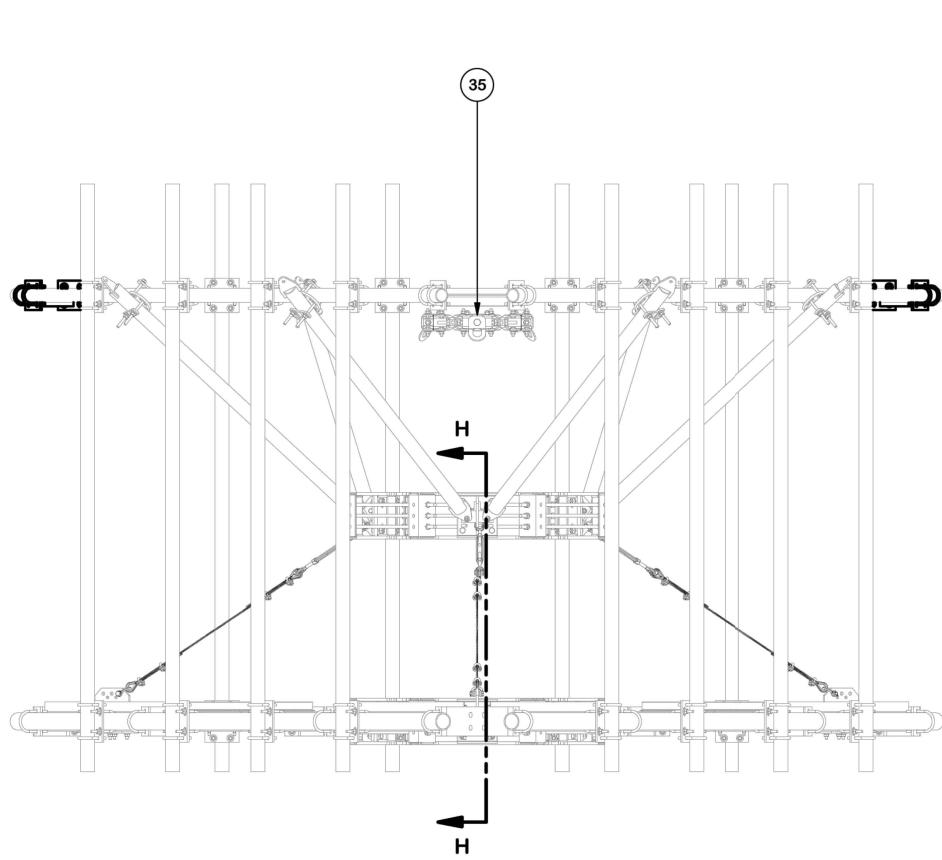
DESCRIPTION
**14' 6" LOW PROFILE PLATFORM
 WITH TWELVE 2-7/8" ANTENNA MOUNTING
 PIPES, REINFORCED HANDRAIL, AND CABLE**

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
CSL	10/17/2019	10/18/2019	RMQLP-4120-H10
87	02	CUSTOMER	BMC
		10/18/2019	RMQLP-4120-H10



Engineering
 Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX
 Tampa, FL



SECTION H-H

NOTE:
SOME OBJECTS ARE TRANSPARENT FOR CLARITY

TOLERANCE NOTES

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 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
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PROPRIETARY NOTE:
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DESCRIPTION
 14' 6" LOW PROFILE PLATFORM
 WITH TWELVE 2-7/8" ANTENNA MOUNTING
 PIPES, REINFORCED HANDRAIL, AND CABLE

CPD NO.

DRAWN BY
CSL 10/17/2019ENG. APPROVAL
10/18/2019

PART NO.

RMQLP-4120-H10



Engineering
Support Team:
1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX
 Tampa, FL

Exhibit D

Structural Analysis Report



Date: October 21, 2020

Denice Nicholson
Crown Castle
3 Corporate Dr
Clifton Park, NY 12065

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: Structural Analysis Report

Carrier Designation: AT&T Mobility Co-Locate

Carrier Site Number: 26076
Carrier Site Name: CTL01053

Crown Castle Designation: Crown Castle BU Number: 876352
Crown Castle Site Name: RICHARD WALL
Crown Castle JDE Job Number: 617841
Crown Castle Work Order Number: 1891645
Crown Castle Order Number: 527517 Rev. 0

Engineering Firm Designation: Crown Castle Project Number: 1891645

Site Data: 94 East Hight Street, EAST HAMPTON, Middlesex County, CT
Latitude 41° 35' 14.2", Longitude -72° 29' 19.6"
117.5 Foot - Monopole Tower

Dear Denice Nicholson,

Crown Castle is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration

Sufficient Capacity-81.4%

This analysis utilizes an ultimate 3-second gust wind speed of 130 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Kibreab Gebremariam

Respectfully submitted by:

Terry P. Styran, P.E.
Senior Project Engineer



Terry P Styran
2020.10.21 19:24:30 -04'00'

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1) INTRODUCTION

This tower is a 117.5 ft Monopole tower designed by ENGINEERED ENDEAVORS, INC.. The tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	130
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
91.0	93.0	3	cci antennas	DMP65R-BU6D	6	1-5/8
		3	cci antennas	HPA65R-BU6A		
		3	cci antennas	OPA65R-BU6BA-K		
		3	ericsson	RADIO 4415 B30		
		3	ericsson	RADIO 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
		3	powerwave technologies	7770.00		
		2	raycap	DC6-48-60-18-8F		
	91.0	1	Site pro 1	RMQLP-4120-H10		3/4
		6	powerwave technologies	LGP 17201		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
118.0	118.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER	-	-
		3	alcatel lucent	PCS 1900MHz 4x45W-65MHz		
		1	tower mounts	Side Arm Mount [SO 102-3]		
117.0	130.0	1	decibel	DB264-A	2	7/8
		1	decibel	DB420-A		
	126.0	1	decibel	ASP-2011	1	1/2
	119.0	3	alcatel lucent	TD-RRH8x20-25	1	3/8
		1	gabriel electronics	GHF3W-23	1	5/8
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe	3	1-1/4

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
	117.0	1	tower mounts	Platform Mount [LP 601-1]		
		3	alcatel lucent	RRH2X60-AWS		
		3	alcatel lucent	RRH2X60-PCS		
105.0	108.0	6	andrew	HBXX-6517DS-A2M w/ Mount Pipe	12	1-1/4
		6	andrew	LNX-6514DS-A1M w/ Mount Pipe	2	1-5/8
		1	rfs celwave	DB-B1-6C-12AB-0Z		
		6	rfs celwave	FD9R6004/2C-3L		
	105.0	1	tower mounts	Platform Mount [LP 1201-1]		
		8	andrew	641280-DF-2X		
		1	commscope	SHPX3-11W		
		4	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe		
		4	ericsson	RADIO 4478		
82.0	83.0	4	ericsson	RRUS 11 B12	4	1-1/4
		4	ericsson	RRUS 11 B4	2	1/2
		1	gps	GPS_A		
		4	rfs celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		
		4	rfs celwave	APXVAA24_43-U-A20 w/ Mount Pipe		
	82.0	1	tower mounts	Platform Mount [LP 701-1]		
75.0	76.0	1	lucent	KS24019-L112A	1	1/2
	75.0	1	tower mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	CHA	1532964	CCISITES
4-POST-MODIFICATION INSPECTION	TEP	1956331	CCISITES
4-POST-MODIFICATION INSPECTION	B+T	3404046	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	EEI,	2122776	CCISITES
4-TOWER MANUFACTURER DRAWINGS	EEI	2122777	CCISITES
4-POST-MODIFICATION INSPECTION	ETS	8406841	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	TEP	2055770	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	B+T	3250765	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF	8034413	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are included in Appendix C.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
117.5 - 112.5	Pole	TP16.266x15x0.1875	Pole	15.6%	Pass
112.5 - 107.5	Pole	TP17.531x16.266x0.1875	Pole	24.8%	Pass
107.5 - 102.5	Pole	TP18.797x17.531x0.1875	Pole	39.6%	Pass
102.5 - 97.5	Pole	TP20.062x18.797x0.1875	Pole	51.9%	Pass
97.5 - 92.5	Pole	TP21.328x20.062x0.1875	Pole	61.8%	Pass
92.5 - 89.71	Pole	TP22.9x21.328x0.1875	Pole	70.7%	Pass
89.71 - 84.71	Pole	TP22.913x21.659x0.3125	Pole	49.4%	Pass
84.71 - 79.71	Pole	TP24.166x22.913x0.3125	Pole	58.7%	Pass
79.71 - 74.71	Pole	TP25.419x24.166x0.3125	Pole	67.3%	Pass
74.71 - 69.71	Pole	TP26.672x25.419x0.3125	Pole	74.1%	Pass
69.71 - 64.71	Pole	TP27.926x26.672x0.3125	Pole	79.6%	Pass
64.71 - 62.83	Pole	TP28.397x27.926x0.3125	Pole	81.4%	Pass
62.83 - 62.58	Pole + Reinf.	TP28.459x28.397x0.7375	Reinf. 2 Tension Rupture	55.7%	Pass
62.58 - 57.58	Pole + Reinf.	TP29.713x28.459x0.7125	Reinf. 2 Tension Rupture	60.0%	Pass
57.58 - 52.58	Pole + Reinf.	TP30.966x29.713x0.7	Reinf. 2 Tension Rupture	63.9%	Pass
52.58 - 47.58	Pole + Reinf.	TP32.219x30.966x0.675	Reinf. 2 Tension Rupture	67.5%	Pass
47.58 - 47.38	Pole + Reinf.	TP33.46x32.219x0.675	Reinf. 2 Tension Rupture	67.6%	Pass
47.38 - 42.38	Pole + Reinf.	TP32.896x31.644x0.675	Reinf. 2 Tension Rupture	72.8%	Pass
42.38 - 37.38	Pole + Reinf.	TP34.147x32.896x0.65	Reinf. 2 Tension Rupture	75.6%	Pass

37.38 -32.38	Pole + Reinf.	TP35.398x34.147x0.6375	Reinf. 2 Tension Rupture	78.4%	Pass
32.38 -31.75	Pole + Reinf.	TP35.555x35.398x0.6375	Reinf. 2 Tension Rupture	78.7%	Pass
31.75 -31.5	Pole + Reinf.	TP35.618x35.555x0.7375	Reinf. 1 Bolt Shear	67.2%	Pass
31.5 -26.5	Pole + Reinf.	TP36.869x35.618x0.725	Reinf. 1 Compression	66.8%	Pass
26.5 -21.5	Pole + Reinf.	TP38.12x36.869x0.7125	Reinf. 1 Compression	68.9%	Pass
21.5 -16.5	Pole + Reinf.	TP39.371x38.12x0.6875	Reinf. 1 Compression	70.7%	Pass
16.5 -11.5	Pole + Reinf.	TP40.622x39.371x0.675	Reinf. 1 Compression	72.3%	Pass
11.5 -6.5	Pole + Reinf.	TP41.874x40.622x0.6625	Reinf. 1 Compression	73.8%	Pass
6.5 - 2	Pole + Reinf.	TP43x41.874x0.6625	Reinf. 1 Bolt Shear	77.9%	Pass
2 - 1.75	Pole + Reinf.	TP43.062x43x0.8	Reinf. 3 Compression	63.6%	Pass
1.75 - 0	Pole + Reinf.	TP43.5x43.062x0.7875	Reinf. 3 Compression	64.1%	Pass
			Summary		
			Pole	81.4%	Pass
			Reinforcement	78.7%	Pass
			Overall	81.4%	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	72.1	Pass
1	Base Plate	0	71.3	Pass
1	Base Foundation (Structure)	0	80.7	Pass
1	Base Foundation (Soil Interaction)	0	66.8	Pass

Structure Rating (max from all components) =	81.4%
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Notes:

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

4.1) Recommendations

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

APPENDIX A

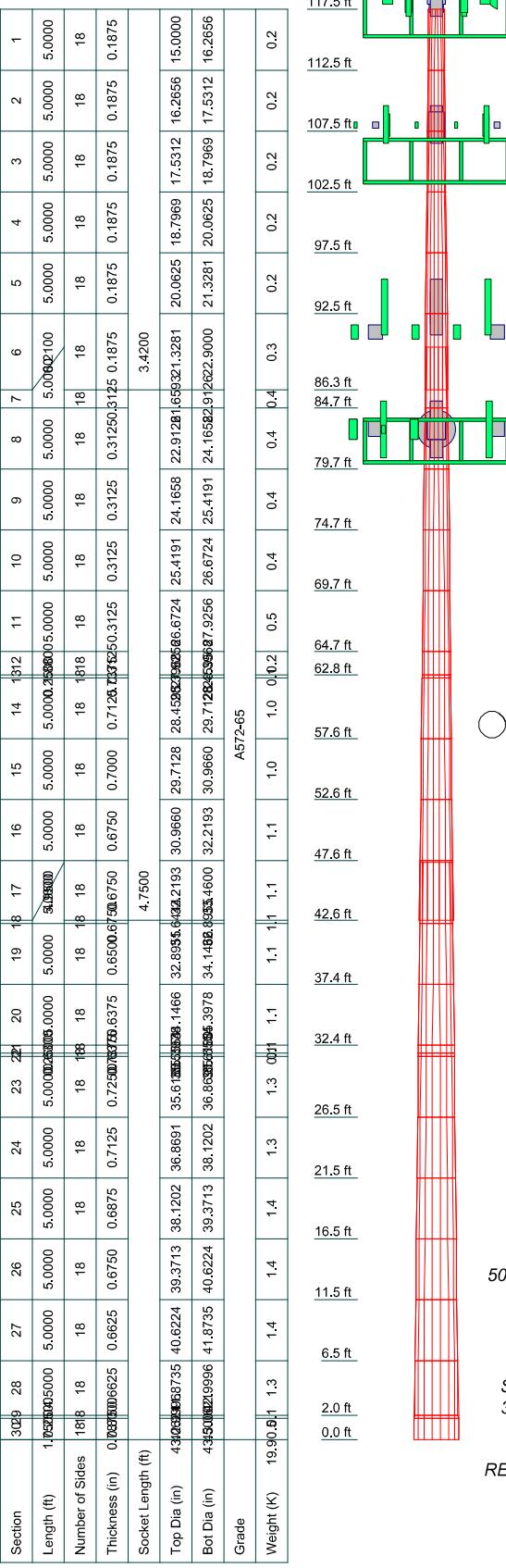
TNXTOWER OUTPUT

MATERIAL STRENGTH

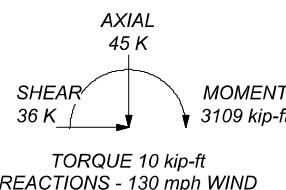
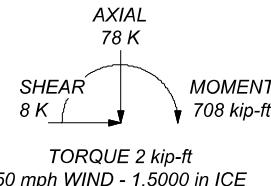
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Middlesex County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 130 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.0000 ft
8. TOWER RATING 81.4%



ALL REACTIONS
ARE FACTORED



Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
The pathway to Possible
Phone: (724) 416-2000
FAX:

Job: **BU 876352**

Project:			
Client:	Crown Castle	Drawn by:	KGebremariam
Code:	TIA-222-H	Date:	10/21/20
Path:	C:\Users\KGebremariam\Desktop\Work Area\876352\WO 1891645 - SAWProd\876352-R.erf		
App'd:	NTS		
Scale:	1:100		
Dwg No.	E-1		

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- 1) Tower is located in Middlesex County, Connecticut.
- 2) Tower base elevation above sea level: 665.0000 ft.
- 3) Basic wind speed of 130 mph.
- 4) Risk Category II.
- 5) Exposure Category C.
- 6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 7) Topographic Category: 1.
- 8) Crest Height: 0.0000 ft.
- 9) Nominal ice thickness of 1.5000 in.
- 10) Ice thickness is considered to increase with height.
- 11) Ice density of 56.00pcf.
- 12) A wind speed of 50 mph is used in combination with ice.
- 13) Temperature drop of 50 °F.
- 14) Deflections calculated using a wind speed of 60 mph.
- 15) TOWER RATING 81.4%.
- 16) A non-linear (P-delta) analysis was used.
- 17) Pressures are calculated at each section.
- 18) Stress ratio used in pole design is 1.05.
- 19) Tower analysis based on target reliabilities in accordance with Annex S.
- 20) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 21) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation	Section	Splice	Number	Top	Bottom	Wall	Bend	Pole Grade
ft	ft	Length	Length	of	Diameter	Diameter	Thickness	Radius	

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	117.5000- 112.5000	5.0000	0.00	18	15.0000	16.2656	0.1875	0.7500	A572-65 (65 ksi)
L2	112.5000- 107.5000	5.0000	0.00	18	16.2656	17.5312	0.1875	0.7500	A572-65 (65 ksi)
L3	107.5000- 102.5000	5.0000	0.00	18	17.5312	18.7969	0.1875	0.7500	A572-65 (65 ksi)
L4	102.5000- 97.5000	5.0000	0.00	18	18.7969	20.0625	0.1875	0.7500	A572-65 (65 ksi)
L5	97.5000- 92.5000	5.0000	0.00	18	20.0625	21.3281	0.1875	0.7500	A572-65 (65 ksi)
L6	92.5000- 86.2900	6.2100	3.42	18	21.3281	22.9000	0.1875	0.7500	A572-65 (65 ksi)
L7	86.2900- 84.7100	5.0000	0.00	18	21.6593	22.9126	0.3125	1.2500	A572-65 (65 ksi)
L8	84.7100- 79.7100	5.0000	0.00	18	22.9126	24.1658	0.3125	1.2500	A572-65 (65 ksi)
L9	79.7100- 74.7100	5.0000	0.00	18	24.1658	25.4191	0.3125	1.2500	A572-65 (65 ksi)
L10	74.7100- 69.7100	5.0000	0.00	18	25.4191	26.6724	0.3125	1.2500	A572-65 (65 ksi)
L11	69.7100- 64.7100	5.0000	0.00	18	26.6724	27.9256	0.3125	1.2500	A572-65 (65 ksi)
L12	64.7100- 62.8300	1.8800	0.00	18	27.9256	28.3968	0.3125	1.2500	A572-65 (65 ksi)
L13	62.8300- 62.5800	0.2500	0.00	18	28.3968	28.4595	0.7375	2.9500	A572-65 (65 ksi)
L14	62.5800- 57.5800	5.0000	0.00	18	28.4595	29.7128	0.7125	2.8500	A572-65 (65 ksi)
L15	57.5800- 52.5800	5.0000	0.00	18	29.7128	30.9660	0.7000	2.8000	A572-65 (65 ksi)
L16	52.5800- 47.5800	5.0000	0.00	18	30.9660	32.2193	0.6750	2.7000	A572-65 (65 ksi)
L17	47.5800- 42.6300	4.9500	4.75	18	32.2193	33.4600	0.6750	2.7000	A572-65 (65 ksi)
L18	42.6300- 42.3800	5.0000	0.00	18	31.6444	32.8955	0.6750	2.7000	A572-65 (65 ksi)
L19	42.3800- 37.3800	5.0000	0.00	18	32.8955	34.1466	0.6500	2.6000	A572-65 (65 ksi)
L20	37.3800- 32.3800	5.0000	0.00	18	34.1466	35.3978	0.6375	2.5500	A572-65 (65 ksi)
L21	32.3800- 31.7500	0.6300	0.00	18	35.3978	35.5554	0.6375	2.5500	A572-65 (65 ksi)
L22	31.7500- 31.5000	0.2500	0.00	18	35.5554	35.6180	0.7375	2.9500	A572-65 (65 ksi)
L23	31.5000- 26.5000	5.0000	0.00	18	35.6180	36.8691	0.7250	2.9000	A572-65 (65 ksi)
L24	26.5000- 21.5000	5.0000	0.00	18	36.8691	38.1202	0.7125	2.8500	A572-65 (65 ksi)
L25	21.5000- 16.5000	5.0000	0.00	18	38.1202	39.3713	0.6875	2.7500	A572-65 (65 ksi)
L26	16.5000- 11.5000	5.0000	0.00	18	39.3713	40.6224	0.6750	2.7000	A572-65 (65 ksi)
L27	11.5000- 6.5000	5.0000	0.00	18	40.6224	41.8735	0.6625	2.6500	A572-65 (65 ksi)
L28	6.5000-2.0000	4.5000	0.00	18	41.8735	42.9996	0.6625	2.6500	A572-65 (65 ksi)
L29	2.0000-1.7500	0.2500	0.00	18	42.9996	43.0621	0.8000	3.2000	A572-65 (65 ksi)
L30	1.7500-0.0000	1.7500		18	43.0621	43.5000	0.7875	3.1500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
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Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	15.2025	8.8153	244.3603	5.2584	7.6200	32.0683	489.0422	4.4085	2.3100	12.32
	16.4876	9.5685	312.5010	5.7077	8.2629	37.8196	625.4132	4.7852	2.5327	13.508
L2	16.4876	9.5685	312.5010	5.7077	8.2629	37.8196	625.4132	4.7852	2.5327	13.508
	17.7728	10.3217	392.2599	6.1570	8.9059	44.0451	785.0359	5.1618	2.7555	14.696
L3	17.7728	10.3217	392.2599	6.1570	8.9059	44.0451	785.0359	5.1618	2.7555	14.696
	19.0579	11.0749	484.5515	6.6063	9.5488	50.7447	969.7406	5.5385	2.9782	15.884
L4	19.0579	11.0749	484.5515	6.6063	9.5488	50.7447	969.7406	5.5385	2.9782	15.884
	20.3431	11.8281	590.2904	7.0556	10.1917	57.9185	1181.3576	5.9152	3.2010	17.072
L5	20.3431	11.8281	590.2904	7.0556	10.1917	57.9185	1181.3576	5.9152	3.2010	17.072
	21.6282	12.5813	710.3912	7.5049	10.8347	65.5665	1421.7171	6.2918	3.4237	18.26
L6	21.6282	12.5813	710.3912	7.5049	10.8347	65.5665	1421.7171	6.2918	3.4237	18.26
	23.2243	13.5168	880.9281	8.0629	11.6332	75.7253	1763.0154	6.7597	3.7004	19.735
L7	22.8157	21.1734	1218.9719	7.5781	11.0029	110.7861	2439.5478	10.5887	3.2620	10.439
	23.2178	22.4164	1446.5186	8.0230	11.6396	124.2758	2894.9405	11.2104	3.4826	11.144
L8	23.2178	22.4164	1446.5186	8.0230	11.6396	124.2758	2894.9405	11.2104	3.4826	11.144
	24.4904	23.6595	1700.7545	8.4679	12.2762	138.5403	3403.7469	11.8320	3.7032	11.85
L9	24.4904	23.6595	1700.7545	8.4679	12.2762	138.5403	3403.7469	11.8320	3.7032	11.85
	25.7630	24.9026	1983.1597	8.9128	12.9129	153.5797	3968.9289	12.4537	3.9238	12.556
L10	25.7630	24.9026	1983.1597	8.9128	12.9129	153.5797	3968.9289	12.4537	3.9238	12.556
	27.0356	26.1457	2295.2143	9.3577	13.5496	169.3941	4593.4487	13.0753	4.1443	13.262
L11	27.0356	26.1457	2295.2143	9.3577	13.5496	169.3941	4593.4487	13.0753	4.1443	13.262
	28.3082	27.3888	2638.3982	9.8027	14.1862	185.9833	5280.2680	13.6970	4.3649	13.968
L12	28.3082	27.3888	2638.3982	9.8027	14.1862	185.9833	5280.2680	13.6970	4.3649	13.968
	28.7867	27.8561	2775.7914	9.9699	14.4256	192.4213	5555.2352	13.9307	4.4478	14.233
L13	28.7211	64.7457	6257.9428	9.8191	14.4256	433.8084	12524.120	32.3790	3.6998	5.017
					0					
	28.7848	64.8923	6300.5718	9.8413	14.4574	435.8018	12609.434	32.4523	3.7109	5.032
L14	28.7886	62.7491	6103.4759	9.8502	14.4574	422.1690	12214.983	31.3805	3.7549	5.27
	30.0612	65.5834	6968.4270	10.2951	15.0941	461.6662	13946.023	32.7979	3.9754	5.58
L15	30.0631	64.4605	6855.0305	10.2995	15.0941	454.1536	13719.080	32.2364	3.9974	5.711
	31.3357	67.2450	7782.3032	10.7444	15.7307	494.7196	15574.846	33.6289	4.2180	6.026
L16	31.3396	64.8970	7522.9752	10.7533	15.7307	478.2342	15055.849	32.4547	4.2620	6.314
	32.6122	67.5820	8495.9070	11.1982	16.3674	519.0752	17002.993	33.7974	4.4826	6.641
L17	32.6122	67.5820	8495.9070	11.1982	16.3674	519.0752	17002.993	33.7974	4.4826	6.641
	33.8720	70.2402	9538.3600	11.6387	16.9977	561.1566	19089.270	35.1268	4.7010	6.964
L18	33.2353	66.3504	8039.8269	10.9941	16.0754	500.1336	16090.232	33.1815	4.3814	6.491
	33.2989	69.0309	9054.1123	11.4383	16.7109	541.8080	18120.138	34.5220	4.6016	6.817
L19	33.3027	66.5257	8739.0853	11.4472	16.7109	522.9564	17489.669	33.2692	4.6456	7.147
	34.5731	69.1069	9796.2867	11.8913	17.3465	564.7416	19605.463	34.5600	4.8658	7.486
L20	34.5751	67.8032	9618.6568	11.8957	17.3465	554.5015	19249.970	33.9081	4.8878	7.667
	35.8455	70.3348	10736.767	12.3399	17.9821	597.0821	21487.663	35.1741	5.1080	8.013
L21	35.8455	70.3348	10736.767	12.3399	17.9821	597.0821	21487.663	35.1741	5.1080	8.013
	36.0056	70.6538	10883.507	12.3959	18.0621	602.5591	21781.336	35.3336	5.1358	8.056
L22	35.9901	81.5026	12482.860	12.3604	18.0621	691.1063	24982.145	40.7590	4.9598	6.725
	36.0536	81.6490	12550.263	12.3826	18.0939	693.6177	25117.040	40.8323	4.9708	6.74
L23	36.0556	80.2939	12350.815	12.3870	18.0939	682.5948	24717.883	40.1546	4.9928	6.887
	37.3260	83.1729	13727.570	12.8311	18.7295	732.9388	27473.203	41.5944	5.2130	7.19
L24	37.3279	81.7672	13504.889	12.8356	18.7295	721.0495	27027.549	40.8914	5.2350	7.347

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
	38.5983	84.5966	14955.880 2	13.2797	19.3651	772.3127 7	29931.439 0	42.3063	5.4552	7.656
L25	38.6022	81.6828	14460.065 3	13.2886	19.3651	746.7091 5	28939.157	40.8492	5.4992	7.999
	39.8726	84.4129	15958.967 9	13.7328	20.0006	797.9234	31938.935	42.2145	5.7194	8.319
	39.8745	82.9049	15683.999 1	13.7372	20.0006	784.1754	31388.635 5	41.4603	5.7414	8.506
L27	41.1450	85.5854	17254.986 4	14.1813	20.6362	836.1516	34532.677 3	42.8008	5.9615	8.832
	41.1469	84.0267	16951.352 4	14.1858	20.6362	821.4379	33925.009 9	42.0214	5.9835	9.032
	42.4173	86.6576	18593.929 5	14.6299	21.2718	874.1133	37212.325 4	43.3370	6.2037	9.364
L28	42.4173	86.6576	18593.929 5	14.6299	21.2718	874.1133	37212.325 4	43.3370	6.2037	9.364
	43.5607	89.0253	20160.073 9	15.0297	21.8438	922.9209	40346.675 0	44.5211	6.4019	9.663
	43.5395	107.1531	24107.818 0	14.9808	21.8438	1103.6472	48247.357 6	53.5867	6.1599	7.7
L29	43.6030	107.3119	24215.188 0	15.0030	21.8756	1106.9521	48462.239 1	53.6662	6.1709	7.714
	43.6049	105.6664	23857.982 9	15.0075	21.8756	1090.6232	47747.358 7	52.8433	6.1929	7.864
	44.0496	106.7610	24607.070 3	15.1629	22.0980	1113.5429	49246.519 3	53.3906	6.2700	7.962

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Diagonals in	Double Angle Stitch Bolt Horizontal in	Double Angle Stitch Bolt Redundants in
L1 117.5000- 112.5000				1	1	1			
L2 112.5000- 107.5000				1	1	1			
L3 107.5000- 102.5000				1	1	1			
L4 102.5000- 97.5000				1	1	1			
L5 97.5000- 92.5000				1	1	1			
L6 92.5000- 86.2900				1	1	1			
L7 86.2900- 84.7100				1	1	1			
L8 84.7100- 79.7100				1	1	1			
L9 79.7100- 74.7100				1	1	1			
L10 74.7100- 69.7100				1	1	1			
L11 69.7100- 64.7100				1	1	1			
L12 64.7100- 62.8300				1	1	1			
L13 62.8300- 62.5800				1	1	0.931072			
L14 62.5800- 57.5800				1	1	0.940216			
L15 57.5800- 52.5800				1	1	0.935469			
L16 52.5800- 47.5800				1	1	0.949198			
L17 47.5800- 42.6300				1	1	0.948426			
L18 42.6300- 42.3800				1	1	0.938992			
L19 42.3800-				1	1	0.955916			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
37.3800									
L20 37.3800-32.3800				1	1	0.956872			
L21 32.3800-31.7500				1	1	0.954765			
L22 31.7500-31.5000				1	1	0.949431			
L23 31.5000-26.5000				1	1	0.946956			
L24 26.5000-21.5000				1	1	0.945689			
L25 21.5000-16.5000				1	1	0.962447			
L26 16.5000-11.5000				1	1	0.963762			
L27 11.5000-6.5000				1	1	0.966158			
L28 6.5000-2.0000				1	1	0.953007			
L29 2.0000-1.7500				1	1	0.802836			
L30 1.7500-0.0000				1	1	0.811047			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diamete r in	Perimeter in	Weight plf
HB114-1-08U4-M5J(1-1/4) *****	B	No	Surface Ar (CaAa)	117.0000 - 0.0000	3	3	-0.220 -0.200	1.5400		1.08
LDF4-50A(1/2) *****	C	No	Surface Ar (CaAa)	75.0000 - 0.0000	1	1	0.200 0.210	0.6300		0.15
WR-VG86ST-BRD(3/4)	B	No	Surface Ar (CaAa)	91.0000 - 0.0000	2	1	0.470 0.490	0.7950		0.58
FB-L98B-002-75000(3/8) *****	B	No	Surface Ar (CaAa)	91.0000 - 0.0000	1	1	0.490 0.500	0.3937		0.06
CCI-65FP-085125	A	No	Surface Af (CaAa)	35.5000 - 0.0000	1	1	0.350 0.400	8.5000	19.5000	0.00
CCI-65FP-085125	B	No	Surface Af (CaAa)	35.5000 - 0.0000	1	1	0.000 0.050	8.5000	19.5000	0.00
CCI-65FP-085125	C	No	Surface Af (CaAa)	35.5000 - 0.0000	1	1	-0.050 0.000	8.5000	19.5000	0.00
CCI-65FP-085125	A	No	Surface Af (CaAa)	35.5000 - 0.0000	1	1	-0.050 0.000	8.5000	19.5000	0.00
CCI-65FP-065125 *****	A	No	Surface Af (CaAa)	65.5000 - 35.5000	1	1	0.350 0.400	6.5000	15.5000	0.00
CCI-65FP-065125	B	No	Surface Af (CaAa)	65.5000 - 35.5000	1	1	0.000 0.050	6.5000	15.5000	0.00
CCI-65FP-065125	C	No	Surface Af (CaAa)	65.5000 - 35.5000	1	1	-0.050 0.000	6.5000	15.5000	0.00
CCI-65FP-065125 *****	A	No	Surface Af (CaAa)	65.5000 - 35.5000	1	1	-0.050 0.000	6.5000	15.5000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _{AA} ft ² /ft	Weight plf

LDF2-50A(3/8)	C	No	No	Inside Pole	117.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.0000 0.0000 0.0000 0.0000
LDF4-50A(1/2)	C	No	No	Inside Pole	117.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.15 0.0000 0.0000 0.0000
LDF5-50A(7/8)	C	No	No	Inside Pole	117.0000 - 0.0000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.33 0.0000 0.0000 0.0000
LDF4.5-50(5/8)	C	No	No	Inside Pole	117.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.15 0.0000 0.0000 0.0000

LDF6-50A(1-1/4)	C	No	No	Inside Pole	105.0000 - 0.0000	12	No Ice 1/2" Ice 1" Ice 2" Ice	0.60 0.0000 0.0000 0.0000
HB158-1-08U8-S8F18(1-5/8)	C	No	No	Inside Pole	105.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	1.70 0.0000 0.0000 0.0000
HB158-1-08U8-S8J18(1-5/8)	C	No	No	Inside Pole	105.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	1.30 0.0000 0.0000 0.0000

LDF4-50A(1/2)	C	No	No	Inside Pole	82.0000 - 0.0000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.15 0.0000 0.0000 0.0000
HB114-U6S12-XXX-LI(1-1/4)	C	No	No	Inside Pole	82.0000 - 0.0000	4	No Ice 1/2" Ice 1" Ice 2" Ice	1.70 0.0000 0.0000 0.0000

2" Flex Conduit	C	No	No	Inside Pole	91.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.36 0.0000 0.0000 0.0000
LCF158-50A(1-5/8)	C	No	No	Inside Pole	91.0000 - 0.0000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.80 0.0000 0.0000 0.0000
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	91.0000 - 0.0000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.58 0.0000 0.0000 0.0000
FB-L98B-002-75000(3/8)	C	No	No	Inside Pole	91.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.06 0.0000 0.0000 0.0000

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	117.5000-112.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.079	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L2	112.5000-107.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.310	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.01
L3	107.5000-102.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.310	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.03
L4	102.5000-97.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.310	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.06
L5	97.5000-92.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.310	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.06
L6	92.5000-86.2900	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	3.429	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.10
L7	86.2900-84.7100	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.918	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.03
L8	84.7100-79.7100	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.904	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.10
L9	79.7100-74.7100	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.904	0.000	0.02
		C	0.000	0.000	0.018	0.000	0.12
L10	74.7100-69.7100	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.904	0.000	0.02
		C	0.000	0.000	0.315	0.000	0.12
L11	69.7100-64.7100	A	0.000	0.000	1.712	0.000	0.00
		B	0.000	0.000	3.760	0.000	0.02
		C	0.000	0.000	1.171	0.000	0.12
L12	64.7100-62.8300	A	0.000	0.000	4.073	0.000	0.00
		B	0.000	0.000	3.129	0.000	0.01
		C	0.000	0.000	2.155	0.000	0.05
L13	62.8300-62.5800	A	0.000	0.000	0.542	0.000	0.00
		B	0.000	0.000	0.416	0.000	0.00
		C	0.000	0.000	0.287	0.000	0.01
L14	62.5800-57.5800	A	0.000	0.000	10.833	0.000	0.00
		B	0.000	0.000	8.321	0.000	0.02
		C	0.000	0.000	5.732	0.000	0.12
L15	57.5800-52.5800	A	0.000	0.000	10.833	0.000	0.00
		B	0.000	0.000	8.321	0.000	0.02
		C	0.000	0.000	5.732	0.000	0.12
L16	52.5800-47.5800	A	0.000	0.000	10.833	0.000	0.00
		B	0.000	0.000	8.321	0.000	0.02
		C	0.000	0.000	5.732	0.000	0.12
L17	47.5800-42.6300	A	0.000	0.000	10.725	0.000	0.00
		B	0.000	0.000	8.238	0.000	0.02
		C	0.000	0.000	5.674	0.000	0.12
L18	42.6300-42.3800	A	0.000	0.000	0.542	0.000	0.00
		B	0.000	0.000	0.416	0.000	0.00
		C	0.000	0.000	0.287	0.000	0.01
L19	42.3800-37.3800	A	0.000	0.000	10.833	0.000	0.00
		B	0.000	0.000	8.321	0.000	0.02
		C	0.000	0.000	5.732	0.000	0.12
L20	37.3800-32.3800	A	0.000	0.000	12.913	0.000	0.00
		B	0.000	0.000	9.361	0.000	0.02
		C	0.000	0.000	6.772	0.000	0.12
L21	32.3800-31.7500	A	0.000	0.000	1.785	0.000	0.00
		B	0.000	0.000	1.258	0.000	0.00
		C	0.000	0.000	0.932	0.000	0.02
L22	31.7500-31.5000	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.499	0.000	0.00
		C	0.000	0.000	0.370	0.000	0.01
L23	31.5000-26.5000	A	0.000	0.000	14.167	0.000	0.00
		B	0.000	0.000	9.988	0.000	0.02

Tower Section	Tower Elevation	Face	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight
n	ft		ft ²	ft ²	ft ²	ft ²	
L24	26.5000-21.5000	C	0.000	0.000	7.398	0.000	0.12
		A	0.000	0.000	14.167	0.000	0.00
		B	0.000	0.000	9.988	0.000	0.02
L25	21.5000-16.5000	C	0.000	0.000	7.398	0.000	0.12
		A	0.000	0.000	14.167	0.000	0.00
		B	0.000	0.000	9.988	0.000	0.02
L26	16.5000-11.5000	C	0.000	0.000	7.398	0.000	0.12
		A	0.000	0.000	14.167	0.000	0.00
		B	0.000	0.000	9.988	0.000	0.02
L27	11.5000-6.5000	C	0.000	0.000	7.398	0.000	0.12
		A	0.000	0.000	14.167	0.000	0.00
		B	0.000	0.000	9.988	0.000	0.02
L28	6.5000-2.0000	C	0.000	0.000	7.398	0.000	0.12
		A	0.000	0.000	12.750	0.000	0.00
		B	0.000	0.000	8.989	0.000	0.02
L29	2.0000-1.7500	C	0.000	0.000	6.659	0.000	0.11
		A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.499	0.000	0.00
L30	1.7500-0.0000	C	0.000	0.000	0.370	0.000	0.01
		A	0.000	0.000	4.958	0.000	0.00
		B	0.000	0.000	3.496	0.000	0.01
		C	0.000	0.000	2.589	0.000	0.04

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight
n	ft		in	ft ²	ft ²	ft ²	ft ²	
L1	117.5000-112.5000	A	1.444	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	4.224	0.000	0.06
		C		0.000	0.000	0.000	0.000	0.00
L2	112.5000-107.5000	A	1.438	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	4.685	0.000	0.06
		C		0.000	0.000	0.000	0.000	0.01
L3	107.5000-102.5000	A	1.431	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	4.677	0.000	0.06
		C		0.000	0.000	0.000	0.000	0.03
L4	102.5000-97.5000	A	1.424	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	4.668	0.000	0.06
		C		0.000	0.000	0.000	0.000	0.06
L5	97.5000-92.5000	A	1.417	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	4.659	0.000	0.06
		C		0.000	0.000	0.000	0.000	0.06
L6	92.5000-86.2900	A	1.409	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	8.987	0.000	0.13
		C		0.000	0.000	0.000	0.000	0.10
L7	86.2900-84.7100	A	1.402	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	2.547	0.000	0.04
		C		0.000	0.000	0.000	0.000	0.03
L8	84.7100-79.7100	A	1.397	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	8.022	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.10
L9	79.7100-74.7100	A	1.388	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	7.993	0.000	0.12
		C		0.000	0.000	0.099	0.000	0.12
L10	74.7100-69.7100	A	1.379	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	7.963	0.000	0.12
		C		0.000	0.000	1.694	0.000	0.14
L11	69.7100-64.7100	A	1.369	0.000	0.000	2.144	0.000	0.02
		B		0.000	0.000	9.003	0.000	0.12
		C		0.000	0.000	2.756	0.000	0.15
L12	64.7100-62.8300	A	1.362	0.000	0.000	5.097	0.000	0.04
		B		0.000	0.000	5.522	0.000	0.06
		C		0.000	0.000	3.179	0.000	0.07
L13	62.8300-62.5800	A	1.360	0.000	0.000	0.678	0.000	0.01
		B		0.000	0.000	0.734	0.000	0.01

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L14	62.5800-57.5800	C		0.000	0.000	0.423	0.000	0.01
		A	1.354	0.000	0.000	13.541	0.000	0.11
		B		0.000	0.000	14.652	0.000	0.17
L15	57.5800-52.5800	C		0.000	0.000	8.439	0.000	0.20
		A	1.342	0.000	0.000	13.517	0.000	0.11
		B		0.000	0.000	14.602	0.000	0.17
L16	52.5800-47.5800	C		0.000	0.000	8.416	0.000	0.19
		A	1.329	0.000	0.000	13.492	0.000	0.11
		B		0.000	0.000	14.548	0.000	0.17
L17	47.5800-42.6300	C		0.000	0.000	8.390	0.000	0.19
		A	1.315	0.000	0.000	13.330	0.000	0.10
		B		0.000	0.000	14.344	0.000	0.16
L18	42.6300-42.3800	C		0.000	0.000	8.279	0.000	0.19
		A	1.308	0.000	0.000	0.673	0.000	0.01
		B		0.000	0.000	0.724	0.000	0.01
L19	42.3800-37.3800	C		0.000	0.000	0.418	0.000	0.01
		A	1.299	0.000	0.000	13.432	0.000	0.10
		B		0.000	0.000	14.421	0.000	0.16
L20	37.3800-32.3800	C		0.000	0.000	8.330	0.000	0.19
		A	1.282	0.000	0.000	15.477	0.000	0.11
		B		0.000	0.000	15.387	0.000	0.16
L21	32.3800-31.7500	C		0.000	0.000	9.336	0.000	0.20
		A	1.271	0.000	0.000	2.105	0.000	0.02
		B		0.000	0.000	2.012	0.000	0.02
L22	31.7500-31.5000	C		0.000	0.000	1.253	0.000	0.03
		A	1.270	0.000	0.000	0.835	0.000	0.01
		B		0.000	0.000	0.798	0.000	0.01
L23	31.5000-26.5000	C		0.000	0.000	0.497	0.000	0.01
		A	1.259	0.000	0.000	16.684	0.000	0.12
		B		0.000	0.000	15.914	0.000	0.16
L24	26.5000-21.5000	C		0.000	0.000	9.915	0.000	0.20
		A	1.235	0.000	0.000	16.637	0.000	0.12
		B		0.000	0.000	15.814	0.000	0.16
L25	21.5000-16.5000	C		0.000	0.000	9.868	0.000	0.20
		A	1.206	0.000	0.000	16.580	0.000	0.11
		B		0.000	0.000	15.693	0.000	0.16
L26	16.5000-11.5000	C		0.000	0.000	9.811	0.000	0.19
		A	1.170	0.000	0.000	16.507	0.000	0.11
		B		0.000	0.000	15.538	0.000	0.15
L27	11.5000-6.5000	C		0.000	0.000	9.739	0.000	0.19
		A	1.119	0.000	0.000	16.406	0.000	0.10
		B		0.000	0.000	15.323	0.000	0.14
L28	6.5000-2.0000	C		0.000	0.000	9.637	0.000	0.19
		A	1.038	0.000	0.000	14.619	0.000	0.09
		B		0.000	0.000	13.481	0.000	0.12
L29	2.0000-1.7500	C		0.000	0.000	8.528	0.000	0.16
		A	0.957	0.000	0.000	0.804	0.000	0.00
		B		0.000	0.000	0.732	0.000	0.01
L30	1.7500-0.0000	C		0.000	0.000	0.466	0.000	0.01
		A	0.887	0.000	0.000	5.579	0.000	0.03
		B		0.000	0.000	5.017	0.000	0.04
		C		0.000	0.000	3.210	0.000	0.06

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	117.5000-112.5000	1.4823	-2.1327	1.2918	-1.8586
L2	112.5000-107.5000	1.6161	-2.3253	1.4128	-2.0327
L3	107.5000-102.5000	1.6417	-2.3622	1.4554	-2.0941
L4	102.5000-97.5000	1.6649	-2.3955	1.4949	-2.1508

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
L5	97.5000-92.5000	1.6860	-2.4259	1.5314	-2.2034
L6	92.5000-86.2900	2.1144	-2.0803	2.5649	-1.3630
L7	86.2900-84.7100	2.2463	-1.9837	2.8607	-1.1401
L8	84.7100-79.7100	2.2648	-1.9996	2.8999	-1.1601
L9	79.7100-74.7100	2.2778	-1.9982	2.9288	-1.1357
L10	74.7100-69.7100	2.0952	-1.6464	2.4810	-0.3746
L11	69.7100-64.7100	2.0780	-2.0934	2.4507	-0.8135
L12	64.7100-62.8300	1.7309	-2.4911	2.2629	-1.9678
L13	62.8300-62.5800	1.7428	-2.5075	2.2793	-1.9829
L14	62.5800-57.5800	1.7687	-2.5428	2.3164	-2.0171
L15	57.5800-52.5800	1.8169	-2.6085	2.3854	-2.0816
L16	52.5800-47.5800	1.8637	-2.6723	2.4522	-2.1453
L17	47.5800-42.6300	2.2628	-3.2409	2.5155	-2.2071
L18	42.6300-42.3800	2.2640	-3.2425	2.5172	-2.2085
L19	42.3800-37.3800	2.2955	-3.2858	2.5461	-2.2431
L20	37.3800-32.3800	2.3650	-3.4790	2.5944	-2.4480
L21	32.3800-31.7500	2.4029	-3.5820	2.6209	-2.5616
L22	31.7500-31.5000	2.4087	-3.5903	2.6264	-2.5679
L23	31.5000-26.5000	2.4413	-3.6369	2.6569	-2.6042
L24	26.5000-21.5000	2.5026	-3.7246	2.7129	-2.6735
L25	21.5000-16.5000	2.5628	-3.8107	2.7652	-2.7438
L26	16.5000-11.5000	2.6219	-3.8953	2.8127	-2.8164
L27	11.5000-6.5000	2.6800	-3.9785	2.8526	-2.8942
L28	6.5000-2.0000	2.7343	-4.0562	2.8748	-2.9816
L29	2.0000-1.7500	2.7616	-4.0951	2.8677	-3.0436
L30	1.7500-0.0000	2.7728	-4.1111	2.8483	-3.0858

Note: For pole sections, center of pressure calculations do not consider feedline shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	12	HB114-1-08U4-M5J(1-1/4)	112.50 - 117.00	1.0000	1.0000
L2	12	HB114-1-08U4-M5J(1-1/4)	107.50 - 112.50	1.0000	1.0000
L3	12	HB114-1-08U4-M5J(1-1/4)	102.50 - 107.50	1.0000	1.0000
L4	12	HB114-1-08U4-M5J(1-1/4)	97.50 - 102.50	1.0000	1.0000
L5	12	HB114-1-08U4-M5J(1-1/4)	92.50 - 97.50	1.0000	1.0000
L6	12	HB114-1-08U4-M5J(1-1/4)	86.29 - 92.50	1.0000	1.0000
L6	26	WR-VG86ST-BRD(3/4)	86.29 - 91.00	1.0000	1.0000
L6	27	FB-L98B-002-75000(3/8)	86.29 - 91.00	1.0000	1.0000
L7	12	HB114-1-08U4-M5J(1-1/4)	84.71 - 86.29	1.0000	1.0000
L7	26	WR-VG86ST-BRD(3/4)	84.71 - 86.29	1.0000	1.0000
L7	27	FB-L98B-002-75000(3/8)	84.71 - 86.29	1.0000	1.0000
L8	12	HB114-1-08U4-M5J(1-1/4)	79.71 - 84.71	1.0000	1.0000
L8	26	WR-VG86ST-BRD(3/4)	79.71 - 84.71	1.0000	1.0000
L8	27	FB-L98B-002-75000(3/8)	79.71 - 84.71	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L9	12	HB114-1-08U4-M5J(1-1/4)	74.71 - 79.71	1.0000	1.0000
L9	22	LDF4-50A(1/2)	74.71 - 75.00	1.0000	1.0000
L9	26	WR-VG86ST-BRD(3/4)	74.71 - 79.71	1.0000	1.0000
L9	27	FB-L98B-002-75000(3/8)	74.71 - 79.71	1.0000	1.0000
L10	12	HB114-1-08U4-M5J(1-1/4)	69.71 - 74.71	1.0000	1.0000
L10	22	LDF4-50A(1/2)	69.71 - 74.71	1.0000	1.0000
L10	26	WR-VG86ST-BRD(3/4)	69.71 - 74.71	1.0000	1.0000
L10	27	FB-L98B-002-75000(3/8)	69.71 - 74.71	1.0000	1.0000
L11	12	HB114-1-08U4-M5J(1-1/4)	64.71 - 69.71	1.0000	1.0000
L11	22	LDF4-50A(1/2)	64.71 - 69.71	1.0000	1.0000
L11	26	WR-VG86ST-BRD(3/4)	64.71 - 69.71	1.0000	1.0000
L11	27	FB-L98B-002-75000(3/8)	64.71 - 69.71	1.0000	1.0000
L11	36	CCI-65FP-065125	64.71 - 65.50	1.0000	1.0000
L11	37	CCI-65FP-065125	64.71 - 65.50	1.0000	1.0000
L11	38	CCI-65FP-065125	64.71 - 65.50	1.0000	1.0000
L11	39	CCI-65FP-065125	64.71 - 65.50	1.0000	1.0000
L12	12	HB114-1-08U4-M5J(1-1/4)	62.83 - 64.71	1.0000	1.0000
L12	22	LDF4-50A(1/2)	62.83 - 64.71	1.0000	1.0000
L12	26	WR-VG86ST-BRD(3/4)	62.83 - 64.71	1.0000	1.0000
L12	27	FB-L98B-002-75000(3/8)	62.83 - 64.71	1.0000	1.0000
L12	36	CCI-65FP-065125	62.83 - 64.71	1.0000	1.0000
L12	37	CCI-65FP-065125	62.83 - 64.71	1.0000	1.0000
L12	38	CCI-65FP-065125	62.83 - 64.71	1.0000	1.0000
L12	39	CCI-65FP-065125	62.83 - 64.71	1.0000	1.0000
L13	12	HB114-1-08U4-M5J(1-1/4)	62.58 - 62.83	1.0000	1.0000
L13	22	LDF4-50A(1/2)	62.58 - 62.83	1.0000	1.0000
L13	26	WR-VG86ST-BRD(3/4)	62.58 - 62.83	1.0000	1.0000
L13	27	FB-L98B-002-75000(3/8)	62.58 - 62.83	1.0000	1.0000
L13	36	CCI-65FP-065125	62.58 - 62.83	1.0000	1.0000
L13	37	CCI-65FP-065125	62.58 - 62.83	1.0000	1.0000
L13	38	CCI-65FP-065125	62.58 - 62.83	1.0000	1.0000
L13	39	CCI-65FP-065125	62.58 - 62.83	1.0000	1.0000
L14	12	HB114-1-08U4-M5J(1-1/4)	57.58 - 62.58	1.0000	1.0000
L14	22	LDF4-50A(1/2)	57.58 - 62.58	1.0000	1.0000
L14	26	WR-VG86ST-BRD(3/4)	57.58 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L14	27	FB-L98B-002-75000(3/8)	62.58 57.58 - 62.58	1.0000	1.0000
L14	36	CCI-65FP-065125	57.58 - 62.58	1.0000	1.0000
L14	37	CCI-65FP-065125	57.58 - 62.58	1.0000	1.0000
L14	38	CCI-65FP-065125	57.58 - 62.58	1.0000	1.0000
L14	39	CCI-65FP-065125	57.58 - 62.58	1.0000	1.0000
L15	12	HB114-1-08U4-M5J(1-1/4)	52.58 - 57.58	1.0000	1.0000
L15	22	LDF4-50A(1/2)	52.58 - 57.58	1.0000	1.0000
L15	26	WR-VG86ST-BRD(3/4)	52.58 - 57.58	1.0000	1.0000
L15	27	FB-L98B-002-75000(3/8)	52.58 - 57.58	1.0000	1.0000
L15	36	CCI-65FP-065125	52.58 - 57.58	1.0000	1.0000
L15	37	CCI-65FP-065125	52.58 - 57.58	1.0000	1.0000
L15	38	CCI-65FP-065125	52.58 - 57.58	1.0000	1.0000
L15	39	CCI-65FP-065125	52.58 - 57.58	1.0000	1.0000
L16	12	HB114-1-08U4-M5J(1-1/4)	47.58 - 52.58	1.0000	1.0000
L16	22	LDF4-50A(1/2)	47.58 - 52.58	1.0000	1.0000
L16	26	WR-VG86ST-BRD(3/4)	47.58 - 52.58	1.0000	1.0000
L16	27	FB-L98B-002-75000(3/8)	47.58 - 52.58	1.0000	1.0000
L16	36	CCI-65FP-065125	47.58 - 52.58	1.0000	1.0000
L16	37	CCI-65FP-065125	47.58 - 52.58	1.0000	1.0000
L16	38	CCI-65FP-065125	47.58 - 52.58	1.0000	1.0000
L16	39	CCI-65FP-065125	47.58 - 52.58	1.0000	1.0000
L17	12	HB114-1-08U4-M5J(1-1/4)	42.63 - 47.58	1.0000	1.0000
L17	22	LDF4-50A(1/2)	42.63 - 47.58	1.0000	1.0000
L17	26	WR-VG86ST-BRD(3/4)	42.63 - 47.58	1.0000	1.0000
L17	27	FB-L98B-002-75000(3/8)	42.63 - 47.58	1.0000	1.0000
L17	36	CCI-65FP-065125	42.63 - 47.58	1.0000	1.0000
L17	37	CCI-65FP-065125	42.63 - 47.58	1.0000	1.0000
L17	38	CCI-65FP-065125	42.63 - 47.58	1.0000	1.0000
L17	39	CCI-65FP-065125	42.63 - 47.58	1.0000	1.0000
L18	12	HB114-1-08U4-M5J(1-1/4)	42.38 - 42.63	1.0000	1.0000
L18	22	LDF4-50A(1/2)	42.38 - 42.63	1.0000	1.0000
L18	26	WR-VG86ST-BRD(3/4)	42.38 - 42.63	1.0000	1.0000
L18	27	FB-L98B-002-75000(3/8)	42.38 - 42.63	1.0000	1.0000
L18	36	CCI-65FP-065125	42.38 - 42.63	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L18	37	CCI-65FP-065125	42.38 - 42.63	1.0000	1.0000
L18	38	CCI-65FP-065125	42.38 - 42.63	1.0000	1.0000
L18	39	CCI-65FP-065125	42.38 - 42.63	1.0000	1.0000
L19	12	HB114-1-08U4-M5J(1-1/4)	37.38 - 42.38	1.0000	1.0000
L19	22	LDF4-50A(1/2)	37.38 - 42.38	1.0000	1.0000
L19	26	WR-VG86ST-BRD(3/4)	37.38 - 42.38	1.0000	1.0000
L19	27	FB-L98B-002-75000(3/8)	37.38 - 42.38	1.0000	1.0000
L19	36	CCI-65FP-065125	37.38 - 42.38	1.0000	1.0000
L19	37	CCI-65FP-065125	37.38 - 42.38	1.0000	1.0000
L19	38	CCI-65FP-065125	37.38 - 42.38	1.0000	1.0000
L19	39	CCI-65FP-065125	37.38 - 42.38	1.0000	1.0000
L20	12	HB114-1-08U4-M5J(1-1/4)	32.38 - 37.38	1.0000	1.0000
L20	22	LDF4-50A(1/2)	32.38 - 37.38	1.0000	1.0000
L20	26	WR-VG86ST-BRD(3/4)	32.38 - 37.38	1.0000	1.0000
L20	27	FB-L98B-002-75000(3/8)	32.38 - 37.38	1.0000	1.0000
L20	31	CCI-65FP-085125	32.38 - 35.50	1.0000	1.0000
L20	32	CCI-65FP-085125	32.38 - 35.50	1.0000	1.0000
L20	33	CCI-65FP-085125	32.38 - 35.50	1.0000	1.0000
L20	34	CCI-65FP-085125	32.38 - 35.50	1.0000	1.0000
L20	36	CCI-65FP-065125	35.50 - 37.38	1.0000	1.0000
L20	37	CCI-65FP-065125	35.50 - 37.38	1.0000	1.0000
L20	38	CCI-65FP-065125	35.50 - 37.38	1.0000	1.0000
L20	39	CCI-65FP-065125	35.50 - 37.38	1.0000	1.0000
L21	12	HB114-1-08U4-M5J(1-1/4)	31.75 - 32.38	1.0000	1.0000
L21	22	LDF4-50A(1/2)	31.75 - 32.38	1.0000	1.0000
L21	26	WR-VG86ST-BRD(3/4)	31.75 - 32.38	1.0000	1.0000
L21	27	FB-L98B-002-75000(3/8)	31.75 - 32.38	1.0000	1.0000
L21	31	CCI-65FP-085125	31.75 - 32.38	1.0000	1.0000
L21	32	CCI-65FP-085125	31.75 - 32.38	1.0000	1.0000
L21	33	CCI-65FP-085125	31.75 - 32.38	1.0000	1.0000
L21	34	CCI-65FP-085125	31.75 - 32.38	1.0000	1.0000
L22	12	HB114-1-08U4-M5J(1-1/4)	31.50 - 31.75	1.0000	1.0000
L22	22	LDF4-50A(1/2)	31.50 - 31.75	1.0000	1.0000
L22	26	WR-VG86ST-BRD(3/4)	31.50 - 31.75	1.0000	1.0000
L22	27	FB-L98B-002-75000(3/8)	31.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L22	31	CCI-65FP-085125	31.75 31.50 - 31.75	1.0000	1.0000
L22	32	CCI-65FP-085125	31.50 - 31.75	1.0000	1.0000
L22	33	CCI-65FP-085125	31.50 - 31.75	1.0000	1.0000
L22	34	CCI-65FP-085125	31.50 - 31.75	1.0000	1.0000
L23	12	HB114-1-08U4-M5J(1-1/4)	26.50 - 31.50	1.0000	1.0000
L23	22	LDF4-50A(1/2)	26.50 - 31.50	1.0000	1.0000
L23	26	WR-VG86ST-BRD(3/4)	26.50 - 31.50	1.0000	1.0000
L23	27	FB-L98B-002-75000(3/8)	26.50 - 31.50	1.0000	1.0000
L23	31	CCI-65FP-085125	26.50 - 31.50	1.0000	1.0000
L23	32	CCI-65FP-085125	26.50 - 31.50	1.0000	1.0000
L23	33	CCI-65FP-085125	26.50 - 31.50	1.0000	1.0000
L23	34	CCI-65FP-085125	26.50 - 31.50	1.0000	1.0000
L24	12	HB114-1-08U4-M5J(1-1/4)	21.50 - 26.50	1.0000	1.0000
L24	22	LDF4-50A(1/2)	21.50 - 26.50	1.0000	1.0000
L24	26	WR-VG86ST-BRD(3/4)	21.50 - 26.50	1.0000	1.0000
L24	27	FB-L98B-002-75000(3/8)	21.50 - 26.50	1.0000	1.0000
L24	31	CCI-65FP-085125	21.50 - 26.50	1.0000	1.0000
L24	32	CCI-65FP-085125	21.50 - 26.50	1.0000	1.0000
L24	33	CCI-65FP-085125	21.50 - 26.50	1.0000	1.0000
L24	34	CCI-65FP-085125	21.50 - 26.50	1.0000	1.0000
L25	12	HB114-1-08U4-M5J(1-1/4)	16.50 - 21.50	1.0000	1.0000
L25	22	LDF4-50A(1/2)	16.50 - 21.50	1.0000	1.0000
L25	26	WR-VG86ST-BRD(3/4)	16.50 - 21.50	1.0000	1.0000
L25	27	FB-L98B-002-75000(3/8)	16.50 - 21.50	1.0000	1.0000
L25	31	CCI-65FP-085125	16.50 - 21.50	1.0000	1.0000
L25	32	CCI-65FP-085125	16.50 - 21.50	1.0000	1.0000
L25	33	CCI-65FP-085125	16.50 - 21.50	1.0000	1.0000
L25	34	CCI-65FP-085125	16.50 - 21.50	1.0000	1.0000
L26	12	HB114-1-08U4-M5J(1-1/4)	11.50 - 16.50	1.0000	1.0000
L26	22	LDF4-50A(1/2)	11.50 - 16.50	1.0000	1.0000
L26	26	WR-VG86ST-BRD(3/4)	11.50 - 16.50	1.0000	1.0000
L26	27	FB-L98B-002-75000(3/8)	11.50 - 16.50	1.0000	1.0000
L26	31	CCI-65FP-085125	11.50 - 16.50	1.0000	1.0000
L26	32	CCI-65FP-085125	11.50 - 16.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L26	33	CCI-65FP-085125	11.50 - 16.50	1.0000	1.0000
L26	34	CCI-65FP-085125	11.50 - 16.50	1.0000	1.0000
L27	12	HB114-1-08U4-M5J(1-1/4)	6.50 - 11.50	1.0000	1.0000
L27	22	LDF4-50A(1/2)	6.50 - 11.50	1.0000	1.0000
L27	26	WR-VG86ST-BRD(3/4)	6.50 - 11.50	1.0000	1.0000
L27	27	FB-L98B-002-75000(3/8)	6.50 - 11.50	1.0000	1.0000
L27	31	CCI-65FP-085125	6.50 - 11.50	1.0000	1.0000
L27	32	CCI-65FP-085125	6.50 - 11.50	1.0000	1.0000
L27	33	CCI-65FP-085125	6.50 - 11.50	1.0000	1.0000
L27	34	CCI-65FP-085125	6.50 - 11.50	1.0000	1.0000
L28	12	HB114-1-08U4-M5J(1-1/4)	2.00 - 6.50	1.0000	1.0000
L28	22	LDF4-50A(1/2)	2.00 - 6.50	1.0000	1.0000
L28	26	WR-VG86ST-BRD(3/4)	2.00 - 6.50	1.0000	1.0000
L28	27	FB-L98B-002-75000(3/8)	2.00 - 6.50	1.0000	1.0000
L28	31	CCI-65FP-085125	2.00 - 6.50	1.0000	1.0000
L28	32	CCI-65FP-085125	2.00 - 6.50	1.0000	1.0000
L28	33	CCI-65FP-085125	2.00 - 6.50	1.0000	1.0000
L28	34	CCI-65FP-085125	2.00 - 6.50	1.0000	1.0000
L29	12	HB114-1-08U4-M5J(1-1/4)	1.75 - 2.00	1.0000	1.0000
L29	22	LDF4-50A(1/2)	1.75 - 2.00	1.0000	1.0000
L29	26	WR-VG86ST-BRD(3/4)	1.75 - 2.00	1.0000	1.0000
L29	27	FB-L98B-002-75000(3/8)	1.75 - 2.00	1.0000	1.0000
L29	31	CCI-65FP-085125	1.75 - 2.00	1.0000	1.0000
L29	32	CCI-65FP-085125	1.75 - 2.00	1.0000	1.0000
L29	33	CCI-65FP-085125	1.75 - 2.00	1.0000	1.0000
L29	34	CCI-65FP-085125	1.75 - 2.00	1.0000	1.0000
L30	12	HB114-1-08U4-M5J(1-1/4)	0.00 - 1.75	1.0000	1.0000
L30	22	LDF4-50A(1/2)	0.00 - 1.75	1.0000	1.0000
L30	26	WR-VG86ST-BRD(3/4)	0.00 - 1.75	1.0000	1.0000
L30	27	FB-L98B-002-75000(3/8)	0.00 - 1.75	1.0000	1.0000
L30	31	CCI-65FP-085125	0.00 - 1.75	1.0000	1.0000
L30	32	CCI-65FP-085125	0.00 - 1.75	1.0000	1.0000
L30	33	CCI-65FP-085125	0.00 - 1.75	1.0000	1.0000
L30	34	CCI-65FP-085125	0.00 - 1.75	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L11	36	CCI-65FP-065125	64.71 - 65.50	Manual	1.0000
L11	37	CCI-65FP-065125	64.71 - 65.50	Manual	1.0000
L11	38	CCI-65FP-065125	64.71 - 65.50	Manual	1.0000
L11	39	CCI-65FP-065125	64.71 - 65.50	Manual	1.0000
L12	36	CCI-65FP-065125	62.83 - 64.71	Manual	1.0000
L12	37	CCI-65FP-065125	62.83 - 64.71	Manual	1.0000
L12	38	CCI-65FP-065125	62.83 - 64.71	Manual	1.0000
L12	39	CCI-65FP-065125	62.83 - 64.71	Manual	1.0000
L13	36	CCI-65FP-065125	62.58 - 62.83	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	37	CCI-65FP-065125	62.58 - 62.83	Manual	1.0000
L13	38	CCI-65FP-065125	62.58 - 62.83	Manual	1.0000
L13	39	CCI-65FP-065125	62.58 - 62.83	Manual	1.0000
L14	36	CCI-65FP-065125	57.58 - 62.58	Manual	1.0000
L14	37	CCI-65FP-065125	57.58 - 62.58	Manual	1.0000
L14	38	CCI-65FP-065125	57.58 - 62.58	Manual	1.0000
L14	39	CCI-65FP-065125	57.58 - 62.58	Manual	1.0000
L15	36	CCI-65FP-065125	52.58 - 57.58	Manual	1.0000
L15	37	CCI-65FP-065125	52.58 - 57.58	Manual	1.0000
L15	38	CCI-65FP-065125	52.58 - 57.58	Manual	1.0000
L15	39	CCI-65FP-065125	52.58 - 57.58	Manual	1.0000
L16	36	CCI-65FP-065125	47.58 - 52.58	Manual	1.0000
L16	37	CCI-65FP-065125	47.58 - 52.58	Manual	1.0000
L16	38	CCI-65FP-065125	47.58 - 52.58	Manual	1.0000
L16	39	CCI-65FP-065125	47.58 - 52.58	Manual	1.0000
L17	36	CCI-65FP-065125	42.63 - 47.58	Manual	1.0000
L17	37	CCI-65FP-065125	42.63 - 47.58	Manual	1.0000
L17	38	CCI-65FP-065125	42.63 - 47.58	Manual	1.0000
L17	39	CCI-65FP-065125	42.63 - 47.58	Manual	1.0000
L18	36	CCI-65FP-065125	42.38 - 42.63	Manual	1.0000
L18	37	CCI-65FP-065125	42.38 - 42.63	Manual	1.0000
L18	38	CCI-65FP-065125	42.38 - 42.63	Manual	1.0000
L18	39	CCI-65FP-065125	42.38 - 42.63	Manual	1.0000
L19	36	CCI-65FP-065125	37.38 - 42.38	Manual	1.0000
L19	37	CCI-65FP-065125	37.38 - 42.38	Manual	1.0000
L19	38	CCI-65FP-065125	37.38 - 42.38	Manual	1.0000
L19	39	CCI-65FP-065125	37.38 - 42.38	Manual	1.0000
L20	31	CCI-65FP-085125	32.38 - 35.50	Auto	0.4071
L20	32	CCI-65FP-085125	32.38 - 35.50	Auto	0.4071
L20	33	CCI-65FP-085125	32.38 - 35.50	Auto	0.4071
L20	34	CCI-65FP-085125	32.38 - 35.50	Auto	0.4071
L20	36	CCI-65FP-065125	35.50 - 37.38	Manual	1.0000
L20	37	CCI-65FP-065125	35.50 - 37.38	Manual	1.0000
L20	38	CCI-65FP-065125	35.50 - 37.38	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L20	39	CCI-65FP-065125	35.50 - 37.38	Manual	1.0000
L21	31	CCI-65FP-085125	31.75 - 32.38	Auto	0.3974
L21	32	CCI-65FP-085125	31.75 - 32.38	Auto	0.3974
L21	33	CCI-65FP-085125	31.75 - 32.38	Auto	0.3974
L21	34	CCI-65FP-085125	31.75 - 32.38	Auto	0.3974
L22	31	CCI-65FP-085125	31.50 - 31.75	Auto	0.4159
L22	32	CCI-65FP-085125	31.50 - 31.75	Auto	0.4159
L22	33	CCI-65FP-085125	31.50 - 31.75	Auto	0.4159
L22	34	CCI-65FP-085125	31.50 - 31.75	Auto	0.4159
L23	31	CCI-65FP-085125	26.50 - 31.50	Auto	0.3997
L23	32	CCI-65FP-085125	26.50 - 31.50	Auto	0.3997
L23	33	CCI-65FP-085125	26.50 - 31.50	Auto	0.3997
L23	34	CCI-65FP-085125	26.50 - 31.50	Auto	0.3997
L24	31	CCI-65FP-085125	21.50 - 26.50	Auto	0.3712
L24	32	CCI-65FP-085125	21.50 - 26.50	Auto	0.3712
L24	33	CCI-65FP-085125	21.50 - 26.50	Auto	0.3712
L24	34	CCI-65FP-085125	21.50 - 26.50	Auto	0.3712
L25	31	CCI-65FP-085125	16.50 - 21.50	Auto	0.3401
L25	32	CCI-65FP-085125	16.50 - 21.50	Auto	0.3401
L25	33	CCI-65FP-085125	16.50 - 21.50	Auto	0.3401
L25	34	CCI-65FP-085125	16.50 - 21.50	Auto	0.3401
L26	31	CCI-65FP-085125	11.50 - 16.50	Auto	0.3116
L26	32	CCI-65FP-085125	11.50 - 16.50	Auto	0.3116
L26	33	CCI-65FP-085125	11.50 - 16.50	Auto	0.3116
L26	34	CCI-65FP-085125	11.50 - 16.50	Auto	0.3116
L27	31	CCI-65FP-085125	6.50 - 11.50	Auto	0.2831
L27	32	CCI-65FP-085125	6.50 - 11.50	Auto	0.2831
L27	33	CCI-65FP-085125	6.50 - 11.50	Auto	0.2831
L27	34	CCI-65FP-085125	6.50 - 11.50	Auto	0.2831
L28	31	CCI-65FP-085125	2.00 - 6.50	Auto	0.2585
L28	32	CCI-65FP-085125	2.00 - 6.50	Auto	0.2585
L28	33	CCI-65FP-085125	2.00 - 6.50	Auto	0.2585
L28	34	CCI-65FP-085125	2.00 - 6.50	Auto	0.2585
L29	31	CCI-65FP-085125	1.75 - 2.00	Auto	0.2747
L29	32	CCI-65FP-085125	1.75 - 2.00	Auto	0.2747
L29	33	CCI-65FP-085125	1.75 - 2.00	Auto	0.2747
L29	34	CCI-65FP-085125	1.75 - 2.00	Auto	0.2747
L30	31	CCI-65FP-085125	0.00 - 1.75	Auto	0.2669
L30	32	CCI-65FP-085125	0.00 - 1.75	Auto	0.2669
L30	33	CCI-65FP-085125	0.00 - 1.75	Auto	0.2669
L30	34	CCI-65FP-085125	0.00 - 1.75	Auto	0.2669

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front		C _{AA} Side		Weight
						ft ²	ft ²	ft ²	K	
Lightning Rod 5/8" x 6'	C	From Leg	0.0000 0.00 3.00	0.000	117.5000	No Ice 1/2" Ice 1" Ice 2" Ice	0.3750 0.9885 1.6187 2.4644	0.3750 0.9885 1.6187 2.4644	0.01 0.01 0.02 0.05	

800MHz 2X50W RRH W/FILTER	A	From Leg	2.0000 0.00 0.00	0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.0583 2.2398 2.4287 2.8287	1.9317 2.1087 2.2931 2.6843	0.06 0.09 0.11 0.17	
800MHz 2X50W RRH W/FILTER	B	From Leg	2.0000 0.00 0.00	0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.0583 2.2398 2.4287 2.8287	1.9317 2.1087 2.2931 2.6843	0.06 0.09 0.11 0.17	
800MHz 2X50W RRH W/FILTER	C	From Leg	2.0000 0.00 0.00	0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.0583 2.2398 2.4287 2.8287	1.9317 2.1087 2.2931 2.6843	0.06 0.09 0.11 0.17	
PCS 1900MHz 4x45W-65MHz	A	From Leg	2.0000 0.00 0.00	0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.3218 2.5266 2.7388 3.1855	2.2381 2.4407 2.6507 3.0929	0.06 0.08 0.11 0.17	
PCS 1900MHz 4x45W-65MHz	B	From Leg	2.0000 0.00 0.00	0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.3218 2.5266 2.7388 3.1855	2.2381 2.4407 2.6507 3.0929	0.06 0.08 0.11 0.17	
PCS 1900MHz 4x45W-65MHz	C	From Leg	2.0000 0.00 0.00	0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.3218 2.5266 2.7388 3.1855	2.2381 2.4407 2.6507 3.0929	0.06 0.08 0.11 0.17	
Side Arm Mount [SO 102-3]	C	None		0.000	118.0000	No Ice 1/2" Ice 1" Ice 2" Ice	3.6000 4.1800 4.7500 5.9000	3.6000 4.1800 4.7500 5.9000	0.07 0.11 0.14 0.20	

DB420-A	A	From Leg	4.0000 0.00 13.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	3.3300 5.9940 8.6580 13.9860	3.3300 5.9940 8.6580 13.9860	0.03 0.04 0.05 0.07	
DB264-A	B	From Leg	4.0000 0.00 13.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	3.1600 5.6880 8.2160 13.2720	3.1600 5.6880 8.2160 13.2720	0.04 0.05 0.06 0.08	
ASP-2011	C	From Leg	4.0000 0.00 9.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.0625 1.9312 2.8167 4.2245	1.0625 1.9312 2.8167 4.2245	0.00 0.01 0.03 0.07	

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft	CA A Front	CA A Side	Weight K
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.6000 5.0500 5.5000 6.4400 5.8200	4.0100 4.4500 4.8900 5.8200 0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.6000 5.0500 5.5000 6.4400 5.8200	4.0100 4.4500 4.8900 5.8200 0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.6000 5.0500 5.5000 6.4400 5.8200	4.0100 4.4500 4.8900 5.8200 0.10 0.16 0.23 0.42
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0900 4.4800 4.8800 5.7100 4.4000	2.8600 3.2300 3.6100 4.4000 0.08 0.13 0.19 0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0900 4.4800 4.8800 5.7100 4.4000	2.8600 3.2300 3.6100 4.4000 0.08 0.13 0.19 0.33
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0900 4.4800 4.8800 5.7100 4.4000	2.8600 3.2300 3.6100 4.4000 0.08 0.13 0.19 0.33
TD-RRH8x20-25	A	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0455 4.2975 4.5570 5.0981 2.2951	1.5345 1.7142 1.9008 2.2951 0.07 0.10 0.13 0.20
TD-RRH8x20-25	B	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0455 4.2975 4.5570 5.0981 2.2951	1.5345 1.7142 1.9008 2.2951 0.07 0.10 0.13 0.20
TD-RRH8x20-25	C	From Leg	4.0000 0.00 2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0455 4.2975 4.5570 5.0981 2.2951	1.5345 1.7142 1.9008 2.2951 0.07 0.10 0.13 0.20
(2) 2.375" OD x 6' Mount Pipe	A	From Leg	4.0000 0.00 0.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.4250 1.9250 2.2939 3.0596 3.0596	1.4250 1.9250 2.2939 3.0596 0.03 0.04 0.05 0.09
(2) 2.375" OD x 6' Mount Pipe	B	From Leg	4.0000 0.00 0.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.4250 1.9250 2.2939 3.0596 3.0596	1.4250 1.9250 2.2939 3.0596 0.03 0.04 0.05 0.09
(2) 2.375" OD x 6' Mount Pipe	C	From Leg	4.0000 0.00 0.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.4250 1.9250 2.2939 3.0596 3.0596	1.4250 1.9250 2.2939 3.0596 0.03 0.04 0.05 0.09
8-ft Ladder	C	From Leg	2.0000 0.00 -2.00	0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	7.0700 9.7300 11.1900 13.9800 13.9800	7.0700 9.7300 11.1900 13.9800 0.04 0.07 0.08 0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft	CA A Front	CA A Side	Weight K
Platform Mount [LP 601-1]	C	None		0.000	117.0000	No Ice 1/2" Ice 1" Ice 2" Ice	28.5000 31.6900 34.8700 41.2300	28.5000 31.6900 34.8700 41.2300
								1.12 1.68 2.28 3.65

(2) HBXX-6517DS-A2M w/ Mount Pipe	A	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	7.9700 8.7300 9.5100 11.1100	5.9900 6.7200 7.4700 9.0200
								0.08 0.14 0.21 0.40
(2) HBXX-6517DS-A2M w/ Mount Pipe	B	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	7.9700 8.7300 9.5100 11.1100	5.9900 6.7200 7.4700 9.0200
								0.08 0.14 0.21 0.40
(2) HBXX-6517DS-A2M w/ Mount Pipe	C	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	7.9700 8.7300 9.5100 11.1100	5.9900 6.7200 7.4700 9.0200
								0.08 0.14 0.21 0.40
(2) LNX-6514DS-A1M w/ Mount Pipe	A	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0900 4.4900 4.8900 5.7100	3.3000 3.6800 4.0600 4.8700
								0.06 0.13 0.20 0.38
(2) LNX-6514DS-A1M w/ Mount Pipe	B	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0900 4.4900 4.8900 5.7100	3.3000 3.6800 4.0600 4.8700
								0.06 0.13 0.20 0.38
(2) LNX-6514DS-A1M w/ Mount Pipe	C	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	4.0900 4.4900 4.8900 5.7100	3.3000 3.6800 4.0600 4.8700
								0.06 0.13 0.20 0.38
(2) FD9R6004/2C-3L	A	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.3142 0.3862 0.4656 0.6468	0.0762 0.1189 0.1685 0.2940
								0.00 0.01 0.01 0.02
(2) FD9R6004/2C-3L	B	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.3142 0.3862 0.4656 0.6468	0.0762 0.1189 0.1685 0.2940
								0.00 0.01 0.01 0.02
(2) FD9R6004/2C-3L	C	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.3142 0.3862 0.4656 0.6468	0.0762 0.1189 0.1685 0.2940
								0.00 0.01 0.01 0.02
RRH2X60-PCS	A	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.2000 2.3926 2.5926 3.0148	1.7233 1.9015 2.0870 2.4804
								0.06 0.08 0.10 0.16
RRH2X60-PCS	B	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.2000 2.3926 2.5926 3.0148	1.7233 1.9015 2.0870 2.4804
								0.06 0.08 0.10 0.16
RRH2X60-PCS	C	From Leg	4.0000 0.00 3.00	0.000	105.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.2000 2.3926 2.5926 3.0148	1.7233 1.9015 2.0870 2.4804
								0.06 0.08 0.10 0.16

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A		Weight K	
						Front	Side		
DMP65R-BU6D	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	1" Ice	15.0300	7.1600	0.43
						2" Ice			
						No Ice	11.9300	4.4800	0.09
						1/2"	12.6800	5.1200	0.16
						Ice	13.4500	5.7800	0.24
						1" Ice	15.0300	7.1600	0.43
DMP65R-BU6D	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	2" Ice			
						No Ice	11.9300	4.4800	0.09
						1/2"	12.6800	5.1200	0.16
						Ice	13.4500	5.7800	0.24
						1" Ice	15.0300	7.1600	0.43
						2" Ice			
HPA65R-BU6A	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice	5.8800	3.8200	0.05
						1/2"	6.4700	4.3900	0.10
						Ice	7.0700	4.9600	0.16
						1" Ice	8.3200	6.1500	0.29
						2" Ice			
						No Ice	5.8800	3.8200	0.05
HPA65R-BU6A	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	1/2"	6.4700	4.3900	0.10
						Ice	7.0700	4.9600	0.16
						1" Ice	8.3200	6.1500	0.29
						2" Ice			
						No Ice	5.8800	3.8200	0.05
						1/2"	6.4700	4.3900	0.10
HPA65R-BU6A	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	Ice	7.0700	4.9600	0.16
						1" Ice	8.3200	6.1500	0.29
						2" Ice			
						No Ice	5.8800	3.8200	0.05
						1/2"	6.4700	4.3900	0.10
						Ice	7.0700	4.9600	0.16
OPA65R-BU6BA-K	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	1" Ice	9.5300	7.3500	0.32
						2" Ice			
						No Ice	6.7800	4.7300	0.07
						1/2"	7.4400	5.3600	0.13
						Ice	8.1200	6.0100	0.18
						1" Ice	9.5300	7.3500	0.32
OPA65R-BU6BA-K	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	2" Ice			
						No Ice	6.7800	4.7300	0.07
						1/2"	7.4400	5.3600	0.13
						Ice	8.1200	6.0100	0.18
						1" Ice	9.5300	7.3500	0.32
						2" Ice			
OPA65R-BU6BA-K	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice	6.7800	4.7300	0.07
						1/2"	7.4400	5.3600	0.13
						Ice	8.1200	6.0100	0.18
						1" Ice	9.5300	7.3500	0.32
						2" Ice			
						No Ice	1.6431	0.6392	0.04
RADIO 4415 B30	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	1/2"	1.8031	0.7497	0.05
						Ice	1.9706	0.8672	0.07
						1" Ice	2.3277	1.1320	0.11
						2" Ice			
						No Ice	1.6431	0.6392	0.04
						1/2"	1.8031	0.7497	0.05
RADIO 4415 B30	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	Ice	1.9706	0.8672	0.07
						1" Ice	2.3277	1.1320	0.11
						2" Ice			
						No Ice	1.6431	0.6392	0.04
						1/2"	1.8031	0.7497	0.05
						Ice	1.9706	0.8672	0.07
RADIO 4415 B30	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	1" Ice	2.3277	1.1320	0.11
						2" Ice			
						No Ice	1.6431	0.6392	0.04
						1/2"	1.8031	0.7497	0.05
						Ice	1.9706	0.8672	0.07
						1" Ice	2.3277	1.1320	0.11
RRUS 4478 B14	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	2" Ice			
						No Ice	1.8425	1.0588	0.06
						1/2"	2.0123	1.1969	0.08
						Ice	2.1895	1.3425	0.09
						1" Ice	2.5662	1.6558	0.14
						2" Ice			
RRUS 4478 B14	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice	1.8425	1.0588	0.06
						1/2"	2.0123	1.1969	0.08
						Ice	2.1895	1.3425	0.09
						1" Ice			
						2" Ice			
						No Ice	1.8425	1.0588	0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A		Weight K
						Front	Side	
RRUS 4478 B14	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	1" Ice 2" Ice No Ice 1/2" Ice 1" Ice 2" Ice	2.5662 1.8425 2.0123 2.1895 2.5662 1.6558	1.6558 1.0588 1.1969 1.3425 1.6558 0.14
RADIO 4449 B5/B12	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6444 1.8044 1.9719 2.3292	1.3003 1.4450 1.5972 1.9238
RADIO 4449 B5/B12	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6444 1.8044 1.9719 2.3292	1.3003 1.4450 1.5972 1.9238
RADIO 4449 B5/B12	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6444 1.8044 1.9719 2.3292	1.3003 1.4450 1.5972 1.9238
DC6-48-60-18-8F	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.2117 1.8924 2.1051 2.5703	1.2117 1.8924 2.1051 2.5703
RRUS 8843 B2/B66A	A	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6390 1.7988 1.9660 2.3227	1.3534 1.5005 1.6549 1.9860
RRUS 8843 B2/B66A	B	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6390 1.7988 1.9660 2.3227	1.3534 1.5005 1.6549 1.9860
RRUS 8843 B2/B66A	C	From Leg	4.0000 0.00 2.00	0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6390 1.7988 1.9660 2.3227	1.3534 1.5005 1.6549 1.9860
Site pro 1 RMQLP-4120-H10	C	None		0.000	91.0000	No Ice 1/2" Ice 1" Ice 2" Ice	35.0300 44.4600 53.7200 72.2900	1.86 2.52 3.33 5.42

APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.2900 6.8600 7.4500 8.6800	2.7600 3.2700 3.7900 4.9000
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.0000 0.00 1.00	30.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.2900 6.8600 7.4500 8.6800	2.7600 3.2700 3.7900 4.9000
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.0000 0.00 1.00	-20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.2900 6.8600 7.4500 8.6800	2.7600 3.2700 3.7900 4.9000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A		Weight K	
						Front	Side		
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	-60.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.2900 6.8600 7.4500 8.6800	2.7600 3.2700 3.7900 4.9000	0.06 0.11 0.16 0.29
GPS_A	A	From Leg	4.0000 0.00 1.00	0.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.2550 0.3205 0.3934 0.5614	0.2550 0.3205 0.3934 0.5614	0.00 0.00 0.01 0.02
APXVAA24_43-U-A20 w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	14.6900 15.4600 16.2300 17.8200	6.8700 7.5500 8.2500 9.6700	0.16 0.28 0.43 0.76
APXVAA24_43-U-A20 w/ Mount Pipe	B	From Leg	4.0000 0.00 1.00	30.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	14.6900 15.4600 16.2300 17.8200	6.8700 7.5500 8.2500 9.6700	0.16 0.28 0.43 0.76
APXVAA24_43-U-A20 w/ Mount Pipe	C	From Leg	4.0000 0.00 1.00	-20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	14.6900 15.4600 16.2300 17.8200	6.8700 7.5500 8.2500 9.6700	0.16 0.28 0.43 0.76
APXVAA24_43-U-A20 w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	-60.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	14.6900 15.4600 16.2300 17.8200	6.8700 7.5500 8.2500 9.6700	0.16 0.28 0.43 0.76
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.7474 7.2017 7.6475 8.5651	6.0700 6.8671 7.5828 9.0629	0.15 0.21 0.28 0.44
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.0000 0.00 1.00	30.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.7474 7.2017 7.6475 8.5651	6.0700 6.8671 7.5828 9.0629	0.15 0.21 0.28 0.44
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.0000 0.00 1.00	-20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.7474 7.2017 7.6475 8.5651	6.0700 6.8671 7.5828 9.0629	0.15 0.21 0.28 0.44
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	-60.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	6.7474 7.2017 7.6475 8.5651	6.0700 6.8671 7.5828 9.0629	0.15 0.21 0.28 0.44
(3) 641280-DF-2X	A	From Leg	4.0000 0.00 1.00	0.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.4441 0.5289 0.6211 0.8278	0.2372 0.3032 0.3765 0.5454	0.01 0.02 0.02 0.04
(2) 641280-DF-2X	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.4441 0.5289 0.6211 0.8278	0.2372 0.3032 0.3765 0.5454	0.01 0.02 0.02 0.04
(3) 641280-DF-2X	C	From Leg	4.0000 0.00 1.00	-20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.4441 0.5289 0.6211 0.8278	0.2372 0.3032 0.3765 0.5454	0.01 0.02 0.02 0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft	$C_A A_A$ Front	$C_A A_A$ Side	Weight K
RRUS 11 B12	A	From Leg	4.0000 0.00 1.00	0.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.8333 3.0426 3.2593 3.7148 1.8259	1.1821 1.3299 1.4848 1.8259 0.05
RRUS 11 B12	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.8333 3.0426 3.2593 3.7148 1.8259	1.1821 1.3299 1.4848 1.8259 0.05
(2) RRUS 11 B12	C	From Leg	4.0000 0.00 1.00	-20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.8333 3.0426 3.2593 3.7148 1.8259	1.1821 1.3299 1.4848 1.8259 0.05
RADIO 4478	A	From Leg	4.0000 0.00 1.00	0.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6250 1.7843 1.9509 2.3065	1.0000 1.1315 1.2704 1.5704
(3) RADIO 4478	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.6250 1.7843 1.9509 2.3065	1.0000 1.1315 1.2704 1.5704
RRUS 11 B4	A	From Leg	4.0000 0.00 1.00	0.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.8333 3.0426 3.2593 3.7148 1.8259	1.1821 1.3299 1.4848 1.8259 0.05
RRUS 11 B4	A	From Leg	4.0000 0.00 1.00	20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.8333 3.0426 3.2593 3.7148 1.8259	1.1821 1.3299 1.4848 1.8259 0.05
(2) RRUS 11 B4	C	From Leg	4.0000 0.00 1.00	-20.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	2.8333 3.0426 3.2593 3.7148 1.8259	1.1821 1.3299 1.4848 1.8259 0.05
Platform Mount [LP 701-1]	C	None		0.000	82.0000	No Ice 1/2" Ice 1" Ice 2" Ice	58.6800 66.0100 73.4100 88.4000	58.6800 66.0100 73.4100 88.4000

KS24019-L112A	C	From Leg	3.0000 0.00 1.00	0.000	75.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.1000 0.1800 0.2600 0.4200	0.1000 0.1800 0.2600 0.4200
Side Arm Mount [SO 701-1]	C	None		0.000	75.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.8500 1.1400 1.4300 2.0100	1.6700 2.3400 3.0100 4.3500

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Lateral ft		°	ft	ft	ft ²	K	
GHF3W-23	B	Grid	From Leg	4.0000 0.00 2.00	0.000	°	117.0000	3.0000	No Ice 1/2" Ice 1" Ice 2" Ice	7.0700 7.4700 7.8600 8.6600	0.00 0.04 0.00 0.00

SHPX3-11W	A	Paraboloid w/Shroud (HP)	From Leg	4.0000 0.00 1.00	0.000		82.0000	3.2500	No Ice 1/2" Ice 1" Ice 2" Ice	7.0686 7.4667 7.8649 8.6612	0.13 0.17 0.21 0.29

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation	z	K _z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
L1 117.5000-112.5000	114.9663	1.303	49.68	6.602	A	0.000	6.602	6.602	100.00	0.000	0.000
					B	0.000	6.602		100.00	2.079	0.000
					C	0.000	6.602		100.00	0.000	0.000
L2 112.5000-107.5000	109.9688	1.291	49.22	7.138	A	0.000	7.138	7.138	100.00	0.000	0.000
					B	0.000	7.138		100.00	2.310	0.000
					C	0.000	7.138		100.00	0.000	0.000
L3 107.5000-102.5000	104.9710	1.279	48.74	7.673	A	0.000	7.673	7.673	100.00	0.000	0.000
					B	0.000	7.673		100.00	2.310	0.000
					C	0.000	7.673		100.00	0.000	0.000
L4 102.5000-97.5000	99.9729	1.266	48.24	8.209	A	0.000	8.209	8.209	100.00	0.000	0.000
					B	0.000	8.209		100.00	2.310	0.000
					C	0.000	8.209		100.00	0.000	0.000
L5 97.5000-92.5000	94.9745	1.252	47.72	8.744	A	0.000	8.744	8.744	100.00	0.000	0.000
					B	0.000	8.744		100.00	2.310	0.000
					C	0.000	8.744		100.00	0.000	0.000
L6 92.5000-86.2900	89.3582	1.236	47.11	11.606	A	0.000	11.606	11.606	100.00	0.000	0.000
					B	0.000	11.606		100.00	3.429	0.000
					C	0.000	11.606		100.00	0.000	0.000
L7 86.2900-84.7100	85.4977	1.225	46.68	3.031	A	0.000	3.031	3.031	100.00	0.000	0.000
					B	0.000	3.031		100.00	0.918	0.000
					C	0.000	3.031		100.00	0.000	0.000
L8 84.7100-79.7100	82.1878	1.214	46.29	9.939	A	0.000	9.939	9.939	100.00	0.000	0.000
					B	0.000	9.939		100.00	2.904	0.000
					C	0.000	9.939		100.00	0.000	0.000
L9 79.7100-74.7100	77.1889	1.198	45.68	10.469	A	0.000	10.469	10.469	100.00	0.000	0.000
					B	0.000	10.469		100.00	2.904	0.000
					C	0.000	10.469		100.00	0.018	0.000
L10 74.7100-69.7100	72.1900	1.182	45.04	11.000	A	0.000	11.000	11.000	100.00	0.000	0.000
					B	0.000	11.000		100.00	2.904	0.000
					C	0.000	11.000		100.00	0.315	0.000
L11 69.7100-64.7100	67.1909	1.164	44.37	11.530	A	0.000	11.530	11.530	100.00	1.712	0.000
					B	0.000	11.530		100.00	3.760	0.000
					C	0.000	11.530		100.00	1.171	0.000
L12 64.7100-62.8300	63.7674	1.151	43.88	4.472	A	0.000	4.472	4.472	100.00	4.073	0.000
					B	0.000	4.472		100.00	3.129	0.000
					C	0.000	4.472		100.00	2.155	0.000
L13 62.8300-62.5800	62.7050	1.147	43.73	0.599	A	0.000	0.599	0.599	100.00	0.542	0.000
					B	0.000	0.599		100.00	0.416	0.000
					C	0.000	0.599		100.00	0.287	0.000
L14 62.5800-57.5800	60.0620	1.137	43.33	12.260	A	0.000	12.260	12.260	100.00	10.833	0.000
					B	0.000	12.260		100.00	8.321	0.000
					C	0.000	12.260		100.00	5.732	0.000

Section Elevation	z	K _Z	q _z	A _G	F _a c _e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
	ft	ft	psf	ft ²		ft ²	ft ²	ft ²			
L15 57.5800-52.5800	55.0628	1.116	42.55	12.791	A	0.000	12.791	12.791	100.00	10.833	0.000
					B	0.000	12.791		100.00	8.321	0.000
					C	0.000	12.791		100.00	5.732	0.000
L16 52.5800-47.5800	50.0635	1.094	41.70	13.323	A	0.000	13.323	13.323	100.00	10.833	0.000
					B	0.000	13.323		100.00	8.321	0.000
					C	0.000	13.323		100.00	5.732	0.000
L17 47.5800-42.6300	45.0894	1.07	40.79	13.712	A	0.000	13.712	13.712	100.00	10.725	0.000
					B	0.000	13.712		100.00	8.238	0.000
					C	0.000	13.712		100.00	5.674	0.000
L18 42.6300-42.3800	42.5050	1.057	40.29	0.693	A	0.000	0.693	0.693	100.00	0.542	0.000
					B	0.000	0.693		100.00	0.416	0.000
					C	0.000	0.693		100.00	0.287	0.000
L19 42.3800-37.3800	39.8644	1.043	39.75	14.141	A	0.000	14.141	14.141	100.00	10.833	0.000
					B	0.000	14.141		100.00	8.321	0.000
					C	0.000	14.141		100.00	5.732	0.000
L20 37.3800-32.3800	34.8650	1.014	38.64	14.671	A	0.000	14.671	14.671	100.00	12.913	0.000
					B	0.000	14.671		100.00	9.361	0.000
					C	0.000	14.671		100.00	6.772	0.000
L21 32.3800-31.7500	32.0648	0.996	37.97	1.886	A	0.000	1.886	1.886	100.00	1.785	0.000
					B	0.000	1.886		100.00	1.258	0.000
					C	0.000	1.886		100.00	0.932	0.000
L22 31.7500-31.5000	31.6250	0.993	37.86	0.750	A	0.000	0.750	0.750	100.00	0.708	0.000
					B	0.000	0.750		100.00	0.499	0.000
					C	0.000	0.750		100.00	0.370	0.000
L23 31.5000-26.5000	28.9856	0.975	37.17	15.288	A	0.000	15.288	15.288	100.00	14.167	0.000
					B	0.000	15.288		100.00	9.988	0.000
					C	0.000	15.288		100.00	7.398	0.000
L24 26.5000-21.5000	23.9861	0.937	35.72	15.818	A	0.000	15.818	15.818	100.00	14.167	0.000
					B	0.000	15.818		100.00	9.988	0.000
					C	0.000	15.818		100.00	7.398	0.000
L25 21.5000-16.5000	18.9865	0.892	34.00	16.349	A	0.000	16.349	16.349	100.00	14.167	0.000
					B	0.000	16.349		100.00	9.988	0.000
					C	0.000	16.349		100.00	7.398	0.000
L26 16.5000-11.5000	13.9870	0.85	32.40	16.879	A	0.000	16.879	16.879	100.00	14.167	0.000
					B	0.000	16.879		100.00	9.988	0.000
					C	0.000	16.879		100.00	7.398	0.000
L27 11.5000-6.5000	8.9874	0.85	32.40	17.409	A	0.000	17.409	17.409	100.00	14.167	0.000
					B	0.000	17.409		100.00	9.988	0.000
					C	0.000	17.409		100.00	7.398	0.000
L28 6.5000-2.0000	4.2400	0.85	32.40	16.121	A	0.000	16.121	16.121	100.00	12.750	0.000
					B	0.000	16.121		100.00	8.989	0.000
					C	0.000	16.121		100.00	6.659	0.000
L29 2.0000-1.7500	1.8750	0.85	32.40	0.908	A	0.000	0.908	0.908	100.00	0.708	0.000
					B	0.000	0.908		100.00	0.499	0.000
					C	0.000	0.908		100.00	0.370	0.000
L30 1.7500-0.0000	0.8735	0.85	32.40	6.391	A	0.000	6.391	6.391	100.00	4.958	0.000
					B	0.000	6.391		100.00	3.496	0.000
					C	0.000	6.391		100.00	2.589	0.000

Tower Pressure - With Ice

G_H = 1.100

Section Elevation	z	K _Z	q _z	t _z	A _G	F _a c _e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
	ft	ft	psf	in	ft ²		ft ²	ft ²	ft ²			
L1 117.5000-112.5000	114.9663	1.303	7.35	1.4445	7.806	A	0.000	7.806	7.806	100.00	0.000	0.000
						B	0.000	7.806		100.00	4.224	0.000
						C	0.000	7.806		100.00	0.000	0.000
L2 112.5000-107.5000	109.9688	1.291	7.28	1.4381	8.336	A	0.000	8.336	8.336	100.00	0.000	0.000
						B	0.000	8.336		100.00	4.685	0.000
						C	0.000	8.336		100.00	0.000	0.000
L3 107.5000-102.5000	104.9710	1.279	7.21	1.4314	8.866	A	0.000	8.866	8.866	100.00	0.000	0.000
						B	0.000	8.866		100.00	4.677	0.000

Section Elevation	z	K _z	q _z	t _z	A _G	F _a c _e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²			
L4 102.5000-97.5000	99.9729	1.266	7.14	1.4244	9.396	C A	0.000 0.000	8.866 9.396	9.396	100.00	0.000	0.000
						B	0.000	9.396		100.00	0.000	0.000
						C	0.000	9.396		100.00	0.000	0.000
L5 97.5000-92.5000	94.9745	1.252	7.06	1.4172	9.925	A B	0.000 0.000	9.925 9.925	9.925	100.00	0.000	0.000
						C	0.000	9.925		100.00	4.659	0.000
L6 92.5000-86.2900	89.3582	1.236	6.97	1.4085	13.063	A B C	0.000 0.000 0.000	13.063 13.063 13.063	13.063	100.00	0.000	0.000
						A	0.000	13.063		100.00	8.987	0.000
L7 86.2900-84.7100	85.4977	1.225	6.90	1.4023	3.401	B	0.000	13.063		100.00	0.000	0.000
						C	0.000	13.063		100.00	0.000	0.000
L8 84.7100-79.7100	82.1878	1.214	6.85	1.3968	11.103	A B C	0.000 0.000 0.000	11.103 11.103 11.103	11.103	100.00	0.000	0.000
						A	0.000	11.103		100.00	8.022	0.000
L9 79.7100-74.7100	77.1889	1.198	6.76	1.3881	11.626	B	0.000	11.103		100.00	0.000	0.000
						C	0.000	11.103		100.00	7.993	0.000
L10 74.7100-69.7100	72.1900	1.182	6.66	1.3788	12.149	A B C	0.000 0.000 0.000	12.149 12.149 12.149	12.149	100.00	0.000	0.000
						A	0.000	12.149		100.00	7.963	0.000
L11 69.7100-64.7100	67.1909	1.164	6.56	1.3690	12.671	B	0.000	12.149		100.00	1.694	0.000
						C	0.000	12.671		100.00	0.099	0.000
L12 64.7100-62.8300	63.7674	1.151	6.49	1.3618	4.899	A B C	0.000 0.000 0.000	4.899 4.899 4.899	4.899	100.00	2.144	0.000
						A	0.000	4.899		100.00	9.003	0.000
L13 62.8300-62.5800	62.7050	1.147	6.47	1.3595	0.656	B	0.000	0.656		100.00	2.756	0.000
						C	0.000	0.656		100.00	5.097	0.000
L14 62.5800-57.5800	60.0620	1.137	6.41	1.3537	13.388	A B C	0.000 0.000 0.000	13.388 13.388 13.388	13.388	100.00	5.522	0.000
						A	0.000	13.388		100.00	3.179	0.000
L15 57.5800-52.5800	55.0628	1.116	6.29	1.3420	13.910	B	0.000	13.910		100.00	13.517	0.000
						C	0.000	13.910		100.00	14.602	0.000
L16 52.5800-47.5800	50.0635	1.094	6.17	1.3293	14.431	A B C	0.000 0.000 0.000	14.431 14.431 14.431	14.431	100.00	8.439	0.000
						A	0.000	14.431		100.00	8.416	0.000
L17 47.5800-42.6300	45.0894	1.07	6.03	1.3154	14.798	B	0.000	14.798		100.00	13.492	0.000
						C	0.000	14.798		100.00	14.548	0.000
L18 42.6300-42.3800	42.5050	1.057	5.96	1.3077	0.748	A B C	0.000 0.000 0.000	0.748 0.748 0.748	0.748	100.00	8.390	0.000
						A	0.000	0.748		100.00	8.279	0.000
L19 42.3800-37.3800	39.8644	1.043	5.88	1.2993	15.224	B	0.000	15.224		100.00	0.673	0.000
						C	0.000	15.224		100.00	0.724	0.000
L20 37.3800-32.3800	34.8650	1.014	5.72	1.2820	15.739	A B C	0.000 0.000 0.000	15.739 15.739 15.739	15.739	100.00	0.418	0.000
						A	0.000	15.739		100.00	9.336	0.000
L21 32.3800-31.7500	32.0648	0.996	5.62	1.2713	2.020	B	0.000	2.020		100.00	2.105	0.000
						C	0.000	2.020		100.00	2.012	0.000
L22 31.7500-31.5000	31.6250	0.993	5.60	1.2696	0.803	A B C	0.000 0.000 0.000	0.803 0.803 0.803	0.803	100.00	1.253	0.000
						A	0.000	0.803		100.00	0.497	0.000
L23 31.5000-26.5000	28.9856	0.975	5.50	1.2586	16.337	B	0.000	16.337		100.00	16.684	0.000
						C	0.000	16.337		100.00	15.914	0.000
L24 26.5000-21.5000	23.9861	0.937	5.28	1.2350	16.847	A B C	0.000 0.000 0.000	16.847 16.847 16.847	16.847	100.00	16.637	0.000
						A	0.000	16.847		100.00	15.814	0.000
L25 21.5000-16.5000	18.9865	0.892	5.03	1.2064	17.354	B	0.000	17.354		100.00	9.868	0.000
						C	0.000	17.354		100.00	16.593	0.000
L26 16.5000-13.9870	13.9870	0.85	4.79	1.1701	17.854	A B C	0.000 0.000 0.000	17.854 17.854 17.854	17.854	100.00	9.811	0.000
						A	0.000	17.854		100.00	16.507	0.000

Section Elevation	z	K _z	q _z	t _z	A _G	F _{a c e}	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²				
11.5000						B	0.000	17.854		100.00	15.538	0.000	
L27 11.5000-6.5000	8.9874	0.85	4.79	1.1195	18.342	C	0.000	17.854	18.342	100.00	9.739	0.000	
L28 6.5000-2.0000	4.2400	0.85	4.79	1.0385	16.900	A	0.000	18.342		100.00	16.406	0.000	
L29 2.0000-1.7500	1.8750	0.85	4.79	0.9571	0.948	B	0.000	18.342	16.900	100.00	15.323	0.000	
L30 1.7500-0.0000	0.8735	0.85	4.79	0.8867	6.650	C	0.000	16.900		100.00	9.637	0.000	
						A	0.000	16.900	0.948	0.948	100.00	14.619	0.000
						B	0.000	16.900		100.00	13.481	0.000	
						C	0.000	16.900	0.948	100.00	8.528	0.000	
						A	0.000	0.948		100.00	0.804	0.000	
						B	0.000	0.948	0.948	100.00	0.732	0.000	
						C	0.000	0.948		100.00	0.466	0.000	
						A	0.000	6.650	6.650	100.00	5.579	0.000	
						B	0.000	6.650		100.00	5.017	0.000	
						C	0.000	6.650		100.00	3.210	0.000	

Tower Pressure - Service

G_H = 1.100

Section Elevation	z	K _z	q _z	A _G	F _{a c e}	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
L1 117.5000-112.5000	114.9663	1.303	9.97	6.602	A	0.000	6.602	6.602	100.00	0.000	0.000
					B	0.000	6.602		100.00	2.079	0.000
					C	0.000	6.602		100.00	0.000	0.000
L2 112.5000-107.5000	109.9688	1.291	9.87	7.138	A	0.000	7.138	7.138	100.00	0.000	0.000
					B	0.000	7.138		100.00	2.310	0.000
					C	0.000	7.138		100.00	0.000	0.000
L3 107.5000-102.5000	104.9710	1.279	9.78	7.673	A	0.000	7.673	7.673	100.00	0.000	0.000
					B	0.000	7.673		100.00	2.310	0.000
					C	0.000	7.673		100.00	0.000	0.000
L4 102.5000-97.5000	99.9729	1.266	9.68	8.209	A	0.000	8.209	8.209	100.00	0.000	0.000
					B	0.000	8.209		100.00	2.310	0.000
					C	0.000	8.209		100.00	0.000	0.000
L5 97.5000-92.5000	94.9745	1.252	9.57	8.744	A	0.000	8.744	8.744	100.00	0.000	0.000
					B	0.000	8.744		100.00	2.310	0.000
					C	0.000	8.744		100.00	0.000	0.000
L6 92.5000-86.2900	89.3582	1.236	9.45	11.606	A	0.000	11.606	11.606	100.00	0.000	0.000
					B	0.000	11.606		100.00	3.429	0.000
					C	0.000	11.606		100.00	0.000	0.000
L7 86.2900-84.7100	85.4977	1.225	9.36	3.031	A	0.000	3.031	3.031	100.00	0.000	0.000
					B	0.000	3.031		100.00	0.918	0.000
					C	0.000	3.031		100.00	0.000	0.000
L8 84.7100-79.7100	82.1878	1.214	9.29	9.939	A	0.000	9.939	9.939	100.00	0.000	0.000
					B	0.000	9.939		100.00	2.904	0.000
					C	0.000	9.939		100.00	0.000	0.000
L9 79.7100-74.7100	77.1889	1.198	9.17	10.469	A	0.000	10.469	10.469	100.00	0.000	0.000
					B	0.000	10.469		100.00	2.904	0.000
					C	0.000	10.469		100.00	0.018	0.000
L10 74.7100-69.7100	72.1900	1.182	9.04	11.000	A	0.000	11.000	11.000	100.00	0.000	0.000
					B	0.000	11.000		100.00	2.904	0.000
					C	0.000	11.000		100.00	0.315	0.000
L11 69.7100-64.7100	67.1909	1.164	8.90	11.530	A	0.000	11.530	11.530	100.00	1.712	0.000
					B	0.000	11.530		100.00	3.760	0.000
					C	0.000	11.530		100.00	1.171	0.000
L12 64.7100-62.8300	63.7674	1.151	8.80	4.472	A	0.000	4.472	4.472	100.00	4.073	0.000
					B	0.000	4.472		100.00	3.129	0.000
					C	0.000	4.472		100.00	2.155	0.000
L13 62.8300-62.5800	62.7050	1.147	8.77	0.599	A	0.000	0.599	0.599	100.00	0.542	0.000
					B	0.000	0.599		100.00	0.416	0.000
					C	0.000	0.599		100.00	0.287	0.000
L14 62.5800-	60.0620	1.137	8.69	12.260	A	0.000	12.260	12.260	100.00	10.833	0.000

Section Elevation	z	K _z	q _z	A _G	F _a c _e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft	psf	ft ²	ft ²		ft ²	ft ²	ft ²			
57.5800					B	0.000	12.260		100.00	8.321	0.000
					C	0.000	12.260		100.00	5.732	0.000
L15 57.5800-52.5800	55.0628	1.116	8.54	12.791	A	0.000	12.791	12.791	100.00	10.833	0.000
					B	0.000	12.791		100.00	8.321	0.000
					C	0.000	12.791		100.00	5.732	0.000
L16 52.5800-47.5800	50.0635	1.094	8.37	13.323	A	0.000	13.323	13.323	100.00	10.833	0.000
					B	0.000	13.323		100.00	8.321	0.000
					C	0.000	13.323		100.00	5.732	0.000
L17 47.5800-42.6300	45.0894	1.07	8.18	13.712	A	0.000	13.712	13.712	100.00	10.725	0.000
					B	0.000	13.712		100.00	8.238	0.000
					C	0.000	13.712		100.00	5.674	0.000
L18 42.6300-42.3800	42.5050	1.057	8.08	0.693	A	0.000	0.693	0.693	100.00	0.542	0.000
					B	0.000	0.693		100.00	0.416	0.000
					C	0.000	0.693		100.00	0.287	0.000
L19 42.3800-37.3800	39.8644	1.043	7.97	14.141	A	0.000	14.141	14.141	100.00	10.833	0.000
					B	0.000	14.141		100.00	8.321	0.000
					C	0.000	14.141		100.00	5.732	0.000
L20 37.3800-32.3800	34.8650	1.014	7.75	14.671	A	0.000	14.671	14.671	100.00	12.913	0.000
					B	0.000	14.671		100.00	9.361	0.000
					C	0.000	14.671		100.00	6.772	0.000
L21 32.3800-31.7500	32.0648	0.996	7.62	1.886	A	0.000	1.886	1.886	100.00	1.785	0.000
					B	0.000	1.886		100.00	1.258	0.000
					C	0.000	1.886		100.00	0.932	0.000
L22 31.7500-31.5000	31.6250	0.993	7.60	0.750	A	0.000	0.750	0.750	100.00	0.708	0.000
					B	0.000	0.750		100.00	0.499	0.000
					C	0.000	0.750		100.00	0.370	0.000
L23 31.5000-26.5000	28.9856	0.975	7.46	15.288	A	0.000	15.288	15.288	100.00	14.167	0.000
					B	0.000	15.288		100.00	9.988	0.000
					C	0.000	15.288		100.00	7.398	0.000
L24 26.5000-21.5000	23.9861	0.937	7.17	15.818	A	0.000	15.818	15.818	100.00	14.167	0.000
					B	0.000	15.818		100.00	9.988	0.000
					C	0.000	15.818		100.00	7.398	0.000
L25 21.5000-16.5000	18.9865	0.892	6.82	16.349	A	0.000	16.349	16.349	100.00	14.167	0.000
					B	0.000	16.349		100.00	9.988	0.000
					C	0.000	16.349		100.00	7.398	0.000
L26 16.5000-11.5000	13.9870	0.85	6.50	16.879	A	0.000	16.879	16.879	100.00	14.167	0.000
					B	0.000	16.879		100.00	9.988	0.000
					C	0.000	16.879		100.00	7.398	0.000
L27 11.5000-6.5000	8.9874	0.85	6.50	17.409	A	0.000	17.409	17.409	100.00	14.167	0.000
					B	0.000	17.409		100.00	9.988	0.000
					C	0.000	17.409		100.00	7.398	0.000
L28 6.5000-2.0000	4.2400	0.85	6.50	16.121	A	0.000	16.121	16.121	100.00	12.750	0.000
					B	0.000	16.121		100.00	8.989	0.000
					C	0.000	16.121		100.00	6.659	0.000
L29 2.0000-1.7500	1.8750	0.85	6.50	0.908	A	0.000	0.908	0.908	100.00	0.708	0.000
					B	0.000	0.908		100.00	0.499	0.000
					C	0.000	0.908		100.00	0.370	0.000
L30 1.7500-0.0000	0.8735	0.85	6.50	6.391	A	0.000	6.391	6.391	100.00	4.958	0.000
					B	0.000	6.391		100.00	3.496	0.000
					C	0.000	6.391		100.00	2.589	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg -No Ice
3	0.9 Dead+1.0 Wind 0 deg -No Ice
4	1.2 Dead+1.0 Wind 30 deg -No Ice
5	0.9 Dead+1.0 Wind 30 deg -No Ice
6	1.2 Dead+1.0 Wind 60 deg -No Ice
7	0.9 Dead+1.0 Wind 60 deg -No Ice
8	1.2 Dead+1.0 Wind 90 deg -No Ice
9	0.9 Dead+1.0 Wind 90 deg -No Ice
10	1.2 Dead+1.0 Wind 120 deg -No Ice

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	117.5 - 112.5	Pole	Max Tension	1	0.00	-0.00	-0.00
			Max. Compression	26	-7.72	0.12	-0.04
			Max. Mx	8	-2.59	-37.23	-0.02
			Max. My	2	-2.58	0.12	36.82
			Max. Vy	20	-6.32	37.11	0.21
			Max. Vx	14	6.27	-0.27	-36.81
L2	112.5 - 107.5	Pole	Max. Torque	21		0.65	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-8.16	0.08	0.03
			Max. Mx	8	-2.80	-69.57	-0.10
			Max. My	2	-2.80	0.22	68.89
			Max. Vy	20	-6.62	69.43	0.31
L3	107.5 - 102.5	Pole	Max. Vx	14	6.57	-0.46	-68.88
			Max. Torque	21		0.65	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.61	0.05	0.70
			Max. Mx	8	-6.57	-126.13	-0.08
			Max. My	2	-6.55	0.33	125.57

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L4	102.5 - 97.5	Pole	Max. Vy	20	-11.83	125.96	0.50
			Max. Vx	14	11.84	-0.64	-125.34
			Max. Torque	21		0.65	
			Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.16	0.01	0.84
			Max. Mx	8	-6.95	-186.04	-0.12
			Max. My	2	-6.92	0.44	185.49
			Max. Vy	20	-12.14	185.84	0.62
			Max. Vx	14	12.14	-0.83	-185.25
			Max. Torque	25		-0.22	
L5	97.5 - 92.5	Pole	Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.73	-0.03	0.98
			Max. Mx	8	-7.35	-247.46	-0.15
			Max. My	2	-7.32	0.54	246.93
			Max. Vy	20	-12.44	247.24	0.75
			Max. Vx	14	12.45	-1.01	-246.69
L6	92.5 - 86.29	Pole	Max. Torque	25		-0.22	
			Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-28.73	-0.07	2.02
			Max. Mx	8	-11.36	-297.68	0.04
			Max. My	2	-11.32	0.60	297.41
			Max. Vy	20	-18.76	297.45	1.04
L7	86.29 - 84.71	Pole	Max. Vx	14	18.77	-1.11	-296.69
			Max. Torque	25		-0.46	
			Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-29.93	-0.15	2.24
			Max. Mx	8	-12.17	-392.35	0.06
			Max. My	2	-12.13	0.69	392.13
L8	84.71 - 79.71	Pole	Max. Vy	20	-19.12	392.08	1.20
			Max. Vx	14	19.14	-1.29	-391.40
			Max. Torque	25		-0.46	
			Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.40	2.36	14.03
			Max. Mx	20	-18.41	511.70	5.34
L9	79.71 - 74.71	Pole	Max. My	2	-18.29	1.26	519.23
			Max. Vy	20	-27.20	511.70	5.34
			Max. Vx	14	28.33	0.28	-508.36
			Max. Torque	9		9.90	
			Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-45.51	2.31	14.28
L10	74.71 - 69.71	Pole	Max. Mx	20	-19.34	648.39	4.72
			Max. My	2	-19.23	0.40	661.10
			Max. Vy	20	-27.58	648.39	4.72
			Max. Vx	14	28.71	1.09	-650.68
			Max. Torque	9		9.89	
			Max. Tension	1	0.00	0.00	0.00
L11	69.71 - 64.71	Pole	Max. Compression	26	-46.56	2.21	14.49
			Max. Mx	20	-20.24	786.90	4.09
			Max. My	2	-20.14	-0.48	804.81
			Max. Vy	20	-27.86	786.90	4.09
			Max. Vx	14	28.99	1.88	-794.84
			Max. Torque	9		9.87	
L12	64.71 - 62.83	Pole	Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.67	2.10	14.68
			Max. Mx	20	-21.18	926.78	3.44
			Max. My	2	-21.09	-1.37	949.89
			Max. Vy	20	-28.14	926.78	3.44
			Max. Vx	14	29.26	2.67	-940.37
			Max. Torque	9		9.86	
			Max. Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.16	2.07	14.77
			Max. Mx	20	-21.52	979.83	3.19
			Max. My	2	-21.43	-1.71	1004.88

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L13	62.83 - 62.58	Pole	Max. Vy	8	28.36	-977.89	9.25
			Max. Vx	14	29.51	2.96	-995.57
			Max. Torque	9		9.86	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.26	2.07	14.78
			Max. Mx	20	-21.63	986.91	3.15
			Max. My	2	-21.55	-1.75	1012.23
			Max. Vy	8	28.37	-984.98	9.30
			Max. Vx	14	29.52	3.00	-1002.94
			Max. Torque	9		9.85	
L14	62.58 - 57.58	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.25	1.98	15.00
			Max. Mx	20	-23.11	1130.42	2.49
			Max. My	2	-23.04	-2.64	1160.86
			Max. Vy	8	29.07	-1128.56	10.43
			Max. Vx	14	30.27	3.78	-1152.34
			Max. Torque	9		9.85	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.27	1.88	15.22
			Max. Mx	20	-24.64	1277.39	1.83
L15	57.58 - 52.58	Pole	Max. My	2	-24.57	-3.53	1312.89
			Max. Vy	8	29.77	-1275.63	11.56
			Max. Vx	14	31.02	4.56	-1305.47
			Max. Torque	9		9.85	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.31	1.78	15.43
			Max. Mx	20	-26.19	1427.83	1.15
			Max. My	2	-26.13	-4.42	1468.34
			Max. Vy	8	30.47	-1426.21	12.68
			Max. Vx	14	31.76	5.34	-1462.33
L16	52.58 - 47.58	Pole	Max. Torque	9		9.85	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.40	1.78	15.45
			Max. Mx	20	-26.27	1433.92	1.13
			Max. My	2	-26.21	-4.46	1474.63
			Max. Vy	8	30.49	-1432.30	12.72
			Max. Vx	14	31.79	5.37	-1468.69
			Max. Torque	9		9.84	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.99	1.68	15.65
L17	47.58 - 42.63	Pole	Max. Mx	20	-29.05	1588.22	0.46
			Max. My	2	-29.00	-5.35	1633.09
			Max. Vy	8	31.28	-1586.76	13.85
			Max. Vx	14	32.63	6.14	-1629.67
			Max. Torque	9		9.84	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.08	1.57	15.86
			Max. Mx	20	-30.66	1746.13	-0.22
			Max. My	14	-30.58	6.92	-1794.52
			Max. Vy	8	31.96	-1744.86	14.96
L18	42.63 - 42.38	Pole	Max. Vx	14	33.34	6.92	-1794.52
			Max. Torque	9		9.84	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.99	1.68	15.65
			Max. Mx	20	-29.05	1588.22	0.46
			Max. My	2	-29.00	-5.35	1633.09
			Max. Vy	8	31.28	-1586.76	13.85
			Max. Vx	14	32.63	6.14	-1629.67
			Max. Torque	9		9.84	
			Max Tension	1	0.00	0.00	0.00
L19	42.38 - 37.38	Pole	Max. Compression	26	-60.08	1.57	15.86
			Max. Mx	20	-30.66	1746.13	-0.22
			Max. My	14	-30.58	6.92	-1794.52
			Max. Vy	8	31.96	-1744.86	14.96
			Max. Vx	14	33.34	6.92	-1794.52
			Max. Torque	9		9.84	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.08	1.57	15.86
			Max. Mx	20	-30.66	1746.13	-0.22
			Max. My	14	-30.58	6.92	-1794.52
L20	37.38 - 32.38	Pole	Max. Vy	8	31.96	-1744.86	14.96
			Max. Vx	14	33.34	6.92	-1794.52
			Max. Torque	9		9.84	
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.22	1.47	16.06
			Max. Mx	20	-32.31	1906.60	-0.91
			Max. My	14	-32.24	7.69	-1962.81
			Max. Vy	8	32.32	-1905.52	16.06
			Max. Vx	14	34.01	7.69	-1962.81
			Max. Torque	9		9.84	
L21	32.38 - 31.75	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L22	31.75 - 31.5	Pole	Max. Compression	26	-62.49	1.46	16.09
			Max. Mx	20	-32.53	1926.94	-0.99
			Max. My	14	-32.46	7.78	-1984.26
			Max. Vy	8	32.36	-1925.89	16.20
			Max. Vx	14	34.09	7.78	-1984.26
			Max. Torque	9			9.84
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.61	1.45	16.10
			Max. Mx	20	-32.63	1935.02	-1.03
			Max. My	14	-32.56	7.82	-1992.78
L23	31.5 - 26.5	Pole	Max. Vy	8	32.37	-1933.98	16.25
			Max. Vx	14	34.12	7.82	-1992.78
			Max. Torque	9			9.84
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.99	1.35	16.31
			Max. Mx	20	-34.49	2097.60	-1.71
			Max. My	14	-34.42	8.59	-2164.97
			Max. Vy	8	32.74	-2096.76	17.35
			Max. Vx	14	34.79	8.59	-2164.97
			Max. Torque	9			9.84
L24	26.5 - 21.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.40	1.24	16.51
			Max. Mx	20	-36.39	2261.97	-2.40
			Max. My	14	-36.33	9.35	-2339.68
			Max. Vy	8	33.10	-2261.33	18.44
			Max. Vx	14	35.13	9.35	-2339.68
			Max. Torque	9			9.84
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.82	1.13	16.67
			Max. Mx	20	-38.32	2428.03	-3.09
L25	21.5 - 16.5	Pole	Max. My	14	-38.27	10.11	-2516.07
			Max. Vy	8	33.42	-2427.59	19.52
			Max. Vx	14	35.46	10.11	-2516.07
			Max. Torque	9			9.84
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.26	1.02	16.83
			Max. Mx	20	-40.27	2595.68	-3.79
			Max. My	14	-40.24	10.87	-2694.03
			Max. Vy	8	33.73	-2595.46	20.60
			Max. Vx	14	35.76	10.87	-2694.03
L26	16.5 - 11.5	Pole	Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.26	1.02	16.83
			Max. Mx	20	-40.27	2595.68	-3.79
			Max. My	14	-40.24	10.87	-2694.03
			Max. Vy	8	33.73	-2595.46	20.60
			Max. Vx	14	35.76	10.87	-2694.03
			Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.70	0.92	16.99
L27	11.5 - 6.5	Pole	Max. Mx	20	-42.26	2764.88	-4.48
			Max. My	14	-42.24	11.62	-2873.51
			Max. Vy	8	34.04	-2764.87	21.66
			Max. Vx	14	36.07	11.62	-2873.51
			Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.70	0.92	16.99
			Max. Mx	20	-42.26	2764.88	-4.48
			Max. My	14	-42.24	11.62	-2873.51
			Max. Vy	8	34.04	-2764.87	21.66
L28	6.5 - 2	Pole	Max. Vx	14	36.07	11.62	-2873.51
			Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-76.88	0.82	17.12
			Max. Mx	20	-44.06	-2918.67	22.62
			Max. My	14	-44.06	12.29	-3036.35
			Max. Vy	8	34.33	-2918.67	22.62
			Max. Vx	14	36.35	12.29	-3036.35
			Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
L29	2 - 1.75	Pole	Max. Compression	26	-77.00	0.82	17.13
			Max. Mx	20	-44.18	-2927.25	22.67
			Max. My	14	-44.17	12.32	-3045.44
			Max. Vy	8	34.33	-2927.25	22.67
			Max. Vx	14	36.35	12.32	-3045.44
			Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.00	0.82	17.13
			Max. Mx	20	-44.18	-2927.25	22.67
			Max. My	14	-44.17	12.32	-3045.44
L30	1.75 - 0	Pole	Max. Vy	8	34.33	-2927.25	22.67
			Max. Vx	14	36.35	12.32	-3045.44
			Max. Torque	9			9.83
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.84	0.78	17.18
			Max. Mx	20	-44.87	-2987.45	23.04
			Max. My	14	-44.87	12.58	-3109.14
			Max. Vy	8	34.47	-2987.45	23.04
			Max. Vx	14	36.49	12.58	-3109.14
			Max. Torque	9			9.83

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	77.84	-0.00	-0.00
	Max. H _x	21	33.67	34.42	-0.14
	Max. H _z	3	33.67	-0.17	34.77
	Max. M _x	2	3048.51	-0.17	34.77
	Max. M _z	8	2987.45	-34.45	0.21
	Max. Torsion	9	9.83	-34.45	0.21
	Min. Vert	15	33.67	0.16	-36.47
	Min. H _x	9	33.67	-34.45	0.21
	Min. H _z	14	44.89	0.16	-36.47
	Min. M _x	14	-3109.14	0.16	-36.47
	Min. M _z	20	-2987.19	34.42	-0.14
	Min. Torsion	21	-9.79	34.42	-0.14

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overshoring Moment, M _x kip-ft	Overshoring Moment, M _z kip-ft	Torque kip-ft
Dead Only	37.41	0.00	0.00	-4.98	0.41	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	44.89	0.17	-34.77	-3048.51	-12.92	-0.86
0.9 Dead+1.0 Wind 0 deg - No Ice	33.67	0.17	-34.77	-3021.45	-12.98	-0.87
1.2 Dead+1.0 Wind 30 deg - No Ice	44.89	17.29	-30.76	-2670.48	-1498.35	-5.62
0.9 Dead+1.0 Wind 30 deg - No Ice	33.67	17.29	-30.76	-2646.70	-1485.98	-5.64
1.2 Dead+1.0 Wind 60 deg - No Ice	44.89	29.86	-17.94	-1559.39	-2588.16	-8.83
0.9 Dead+1.0 Wind 60 deg - No Ice	33.67	29.86	-17.94	-1544.86	-2566.66	-8.85
1.2 Dead+1.0 Wind 90 deg - No Ice	44.89	34.45	-0.21	-23.04	-2987.45	-9.81
0.9 Dead+1.0 Wind 90 deg - No Ice	33.67	34.45	-0.21	-21.30	-2962.61	-9.83
1.2 Dead+1.0 Wind 120 deg - No Ice	44.89	30.06	17.97	1543.26	-2591.24	-7.72
0.9 Dead+1.0 Wind 120 deg - No Ice	33.67	30.06	17.97	1532.02	-2569.76	-7.74
1.2 Dead+1.0 Wind 150 deg - No Ice	44.89	17.28	31.17	2677.99	-1488.80	-4.04
0.9 Dead+1.0 Wind 150 deg - No Ice	33.67	17.28	31.17	2657.35	-1476.52	-4.04
1.2 Dead+1.0 Wind 180 deg - No Ice	44.89	-0.16	36.47	3109.14	12.58	0.86
0.9 Dead+1.0 Wind 180 deg - No Ice	33.67	-0.16	36.47	3084.99	12.37	0.86
1.2 Dead+1.0 Wind 210 deg - No Ice	44.89	-17.50	31.26	2684.08	1506.09	5.60
0.9 Dead+1.0 Wind 210 deg - No Ice	33.67	-17.50	31.26	2663.42	1493.44	5.61
1.2 Dead+1.0 Wind 240 deg - No Ice	44.89	-29.86	18.05	1556.11	2587.65	8.59
0.9 Dead+1.0 Wind 240 deg - No Ice	33.67	-29.86	18.05	1544.77	2565.90	8.61

Load Combination	Vertical	Shear _x	Shear _z	Overshooting Moment, M _x	Overshooting Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 270 deg - No Ice	44.89	-34.42	0.14	5.38	2987.19	9.77
0.9 Dead+1.0 Wind 270 deg - No Ice	33.67	-34.42	0.14	6.93	2962.07	9.79
1.2 Dead+1.0 Wind 300 deg - No Ice	44.89	-29.70	-17.66	-1538.62	2577.36	7.97
0.9 Dead+1.0 Wind 300 deg - No Ice	33.67	-29.70	-17.66	-1524.22	2555.65	7.99
1.2 Dead+1.0 Wind 330 deg - No Ice	44.89	-17.01	-30.66	-2665.88	1476.65	4.10
0.9 Dead+1.0 Wind 330 deg - No Ice	33.67	-17.01	-30.66	-2642.08	1464.13	4.10
1.2 Dead+1.0 Ice+1.0 Temp	77.84	0.00	0.00	-17.18	0.78	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	77.84	-0.05	-7.61	-707.96	9.34	-0.17
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	77.84	3.72	-6.58	-612.47	-336.20	-0.98
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	77.84	6.45	-3.83	-363.49	-583.60	-1.57
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	77.84	7.44	-0.04	-20.28	-674.31	-1.77
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	77.84	6.45	3.82	328.99	-583.82	-1.47
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	77.84	3.71	6.62	581.69	-334.93	-0.86
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	77.84	-0.02	7.65	674.29	2.19	0.06
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	77.84	-3.74	6.62	580.58	338.57	0.97
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	77.84	-6.51	3.79	323.61	593.16	1.64
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	77.84	-7.47	-0.03	-22.01	679.74	1.93
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	77.84	-6.46	-3.81	-363.84	588.59	1.52
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	77.84	-3.75	-6.58	-613.61	343.13	0.70
Dead+Wind 0 deg - Service	37.41	0.03	-6.97	-612.86	-2.24	-0.17
Dead+Wind 30 deg - Service	37.41	3.47	-6.17	-537.44	-298.98	-1.14
Dead+Wind 60 deg - Service	37.41	5.99	-3.60	-315.47	-516.68	-1.79
Dead+Wind 90 deg - Service	37.41	6.91	-0.04	-8.57	-596.43	-1.99
Dead+Wind 120 deg - Service	37.41	6.03	3.61	304.33	-517.30	-1.57
Dead+Wind 150 deg - Service	37.41	3.47	6.25	531.03	-297.08	-0.82
Dead+Wind 180 deg - Service	37.41	-0.03	7.31	617.08	2.85	0.18
Dead+Wind 210 deg - Service	37.41	-3.51	6.27	532.25	301.21	1.14
Dead+Wind 240 deg - Service	37.41	-5.99	3.62	306.89	517.26	1.74
Dead+Wind 270 deg - Service	37.41	-6.91	0.03	-2.89	597.05	1.98
Dead+Wind 300 deg - Service	37.41	-5.96	-3.54	-311.32	515.19	1.62
Dead+Wind 330 deg - Service	37.41	-3.41	-6.15	-536.49	295.30	0.83

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-37.41	0.00	-0.00	37.41	-0.00	0.005%
2	0.17	-44.89	-34.77	-0.17	44.89	34.77	0.002%
3	0.17	-33.67	-34.77	-0.17	33.67	34.77	0.001%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
4	17.29	-44.89	-30.76	-17.29	44.89	30.76	0.000%
5	17.29	-33.67	-30.76	-17.29	33.67	30.76	0.000%
6	29.86	-44.89	-17.94	-29.86	44.89	17.94	0.000%
7	29.86	-33.67	-17.94	-29.86	33.67	17.94	0.000%
8	34.45	-44.89	-0.21	-34.45	44.89	0.21	0.000%
9	34.45	-33.67	-0.21	-34.45	33.67	0.21	0.000%
10	30.06	-44.89	17.97	-30.06	44.89	-17.97	0.000%
11	30.06	-33.67	17.97	-30.06	33.67	-17.97	0.000%
12	17.28	-44.89	31.17	-17.28	44.89	-31.17	0.000%
13	17.28	-33.67	31.17	-17.28	33.67	-31.17	0.000%
14	-0.16	-44.89	36.47	0.16	44.89	-36.47	0.001%
15	-0.16	-33.67	36.47	0.16	33.67	-36.47	0.001%
16	-17.50	-44.89	31.26	17.50	44.89	-31.26	0.000%
17	-17.50	-33.67	31.26	17.50	33.67	-31.26	0.000%
18	-29.86	-44.89	18.05	29.86	44.89	-18.05	0.000%
19	-29.86	-33.67	18.05	29.86	33.67	-18.05	0.000%
20	-34.42	-44.89	0.14	34.42	44.89	-0.14	0.000%
21	-34.42	-33.67	0.14	34.42	33.67	-0.14	0.000%
22	-29.70	-44.89	-17.66	29.70	44.89	17.66	0.000%
23	-29.70	-33.67	-17.66	29.70	33.67	17.66	0.000%
24	-17.01	-44.89	-30.66	17.01	44.89	30.66	0.000%
25	-17.01	-33.67	-30.66	17.01	33.67	30.66	0.000%
26	0.00	-77.84	0.00	-0.00	77.84	-0.00	0.000%
27	-0.05	-77.84	-7.61	0.05	77.84	7.61	0.000%
28	3.72	-77.84	-6.58	-3.72	77.84	6.58	0.000%
29	6.45	-77.84	-3.83	-6.45	77.84	3.83	0.000%
30	7.44	-77.84	-0.04	-7.44	77.84	0.04	0.000%
31	6.45	-77.84	3.82	-6.45	77.84	-3.82	0.000%
32	3.71	-77.84	6.62	-3.71	77.84	-6.62	0.000%
33	-0.02	-77.84	7.65	0.02	77.84	-7.65	0.000%
34	-3.74	-77.84	6.62	3.74	77.84	-6.62	0.000%
35	-6.51	-77.84	3.79	6.51	77.84	-3.79	0.000%
36	-7.47	-77.84	-0.03	7.47	77.84	0.03	0.000%
37	-6.46	-77.84	-3.81	6.46	77.84	3.81	0.000%
38	-3.75	-77.84	-6.58	3.75	77.84	6.58	0.000%
39	0.03	-37.41	-6.98	-0.03	37.41	6.97	0.003%
40	3.47	-37.41	-6.17	-3.47	37.41	6.17	0.000%
41	5.99	-37.41	-3.60	-5.99	37.41	3.60	0.000%
42	6.91	-37.41	-0.04	-6.91	37.41	0.04	0.000%
43	6.03	-37.41	3.61	-6.03	37.41	-3.61	0.000%
44	3.47	-37.41	6.25	-3.47	37.41	-6.25	0.000%
45	-0.03	-37.41	7.32	0.03	37.41	-7.31	0.003%
46	-3.51	-37.41	6.27	3.51	37.41	-6.27	0.000%
47	-5.99	-37.41	3.62	5.99	37.41	-3.62	0.000%
48	-6.91	-37.41	0.03	6.91	37.41	-0.03	0.000%
49	-5.96	-37.41	-3.54	5.96	37.41	3.54	0.000%
50	-3.41	-37.41	-6.15	3.41	37.41	6.15	0.001%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00003205
2	Yes	14	0.00000001	0.00013094
3	Yes	14	0.00000001	0.00009331
4	Yes	18	0.00000001	0.00007275
5	Yes	17	0.00000001	0.00014687
6	Yes	18	0.00000001	0.00009637
7	Yes	18	0.00000001	0.00006763
8	Yes	17	0.00000001	0.00008722
9	Yes	17	0.00000001	0.00006399
10	Yes	18	0.00000001	0.00007090
11	Yes	17	0.00000001	0.00014403
12	Yes	18	0.00000001	0.00008575
13	Yes	18	0.00000001	0.00005991

14	Yes	15	0.00000001	0.00007663
15	Yes	14	0.00000001	0.00014643
16	Yes	18	0.00000001	0.00008960
17	Yes	18	0.00000001	0.00006265
18	Yes	18	0.00000001	0.00007142
19	Yes	17	0.00000001	0.00014511
20	Yes	17	0.00000001	0.00008230
21	Yes	17	0.00000001	0.00006043
22	Yes	18	0.00000001	0.00009367
23	Yes	18	0.00000001	0.00006572
24	Yes	18	0.00000001	0.00007342
25	Yes	17	0.00000001	0.00014829
26	Yes	13	0.00000001	0.00012536
27	Yes	17	0.00000001	0.00009173
28	Yes	17	0.00000001	0.00009653
29	Yes	17	0.00000001	0.00009632
30	Yes	17	0.00000001	0.00008643
31	Yes	17	0.00000001	0.00008998
32	Yes	17	0.00000001	0.00008986
33	Yes	17	0.00000001	0.00008339
34	Yes	17	0.00000001	0.00009025
35	Yes	17	0.00000001	0.00009121
36	Yes	17	0.00000001	0.00008826
37	Yes	17	0.00000001	0.00009824
38	Yes	17	0.00000001	0.00009847
39	Yes	12	0.00000001	0.00012186
40	Yes	14	0.00000001	0.00006433
41	Yes	14	0.00000001	0.00011912
42	Yes	14	0.00000001	0.00009140
43	Yes	14	0.00000001	0.00007255
44	Yes	14	0.00000001	0.00008237
45	Yes	12	0.00000001	0.00012047
46	Yes	14	0.00000001	0.00009387
47	Yes	14	0.00000001	0.00007813
48	Yes	14	0.00000001	0.00009044
49	Yes	14	0.00000001	0.00011229
50	Yes	13	0.00000001	0.00014476

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	117.5 - 112.5	15.728	39	1.400	0.009
L2	112.5 - 107.5	14.270	39	1.379	0.010
L3	107.5 - 102.5	12.846	39	1.337	0.010
L4	102.5 - 97.5	11.476	39	1.276	0.011
L5	97.5 - 92.5	10.182	39	1.193	0.011
L6	92.5 - 86.29	8.981	39	1.099	0.011
L7	89.71 - 84.71	8.355	39	1.041	0.011
L8	84.71 - 79.71	7.289	39	0.987	0.011
L9	79.71 - 74.71	6.297	39	0.904	0.010
L10	74.71 - 69.71	5.399	39	0.810	0.008
L11	69.71 - 64.71	4.602	39	0.711	0.006
L12	64.71 - 62.83	3.912	39	0.608	0.004
L13	62.83 - 62.58	3.680	39	0.569	0.004
L14	62.58 - 57.58	3.650	39	0.567	0.004
L15	57.58 - 52.58	3.081	39	0.519	0.003
L16	52.58 - 47.58	2.563	39	0.470	0.003
L17	47.58 - 42.63	2.098	40	0.420	0.002
L18	47.38 - 42.38	2.080	40	0.418	0.002
L19	42.38 - 37.38	1.656	40	0.392	0.002
L20	37.38 - 32.38	1.274	40	0.339	0.002
L21	32.38 - 31.75	0.947	40	0.286	0.001
L22	31.75 - 31.5	0.909	40	0.279	0.001
L23	31.5 - 26.5	0.895	40	0.277	0.001
L24	26.5 - 21.5	0.629	40	0.232	0.001
L25	21.5 - 16.5	0.410	45	0.187	0.001

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L26	16.5 - 11.5	0.238	45	0.142	0.001
L27	11.5 - 6.5	0.113	45	0.097	0.000
L28	6.5 - 2	0.034	45	0.053	0.000
L29	2 - 1.75	0.003	45	0.014	0.000
L30	1.75 - 0	0.002	45	0.012	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
119.0000	GHF3W-23	39	15.728	1.400	0.009	8593
118.0000	800MHz 2X50W RRH W/FILTER	39	15.728	1.400	0.009	8593
117.5000	Lightning Rod 5/8" x 6'	39	15.728	1.400	0.009	8593
117.0000	DB420-A	39	15.581	1.399	0.009	8593
105.0000	(2) HBXX-6517DS-A2M w/ Mount Pipe	39	12.153	1.309	0.011	4615
91.0000	7770.00	39	8.641	1.066	0.011	3461
83.0000	SHPX3-11W	39	6.941	0.963	0.011	3705
82.0000	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	39	6.741	0.946	0.010	3533
75.0000	KS24019-L112A	39	5.448	0.816	0.008	2965

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	117.5 - 112.5	77.788	14	6.928	0.042
L2	112.5 - 107.5	70.610	14	6.824	0.046
L3	107.5 - 102.5	63.601	14	6.612	0.050
L4	102.5 - 97.5	56.856	14	6.309	0.052
L5	97.5 - 92.5	50.487	14	5.898	0.052
L6	92.5 - 86.29	44.580	14	5.425	0.053
L7	89.71 - 84.71	41.505	14	5.139	0.053
L8	84.71 - 79.71	36.268	14	4.868	0.053
L9	79.71 - 74.71	31.398	14	4.461	0.047
L10	74.71 - 69.71	26.971	14	4.005	0.038
L11	69.71 - 64.71	23.030	14	3.523	0.029
L12	64.71 - 62.83	19.604	14	3.023	0.022
L13	62.83 - 62.58	18.450	14	2.836	0.020
L14	62.58 - 57.58	18.302	14	2.825	0.020
L15	57.58 - 52.58	15.468	14	2.590	0.017
L16	52.58 - 47.58	12.881	14	2.351	0.014
L17	47.58 - 42.63	10.549	14	2.105	0.012
L18	47.38 - 42.38	10.461	14	2.095	0.012
L19	42.38 - 37.38	8.332	14	1.964	0.011
L20	37.38 - 32.38	6.414	14	1.701	0.009
L21	32.38 - 31.75	4.771	14	1.438	0.007
L22	31.75 - 31.5	4.584	14	1.405	0.007
L23	31.5 - 26.5	4.510	14	1.394	0.007
L24	26.5 - 21.5	3.170	14	1.167	0.006
L25	21.5 - 16.5	2.066	14	0.942	0.004
L26	16.5 - 11.5	1.199	14	0.715	0.003
L27	11.5 - 6.5	0.569	14	0.489	0.002
L28	6.5 - 2	0.174	14	0.267	0.001
L29	2 - 1.75	0.015	14	0.071	0.000
L30	1.75 - 0	0.011	14	0.062	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
119.0000	GHF3W-23	14	77.788	6.928	0.046	1782
118.0000	800MHz 2X50W RRH W/FILTER	14	77.788	6.928	0.046	1782
117.5000	Lightning Rod 5/8" x 6'	14	77.788	6.928	0.046	1782
117.0000	DB420-A	14	77.067	6.920	0.046	1782
105.0000	(2) HBXX-6517DS-A2M w/ Mount Pipe	14	60.189	6.474	0.054	950
91.0000	7770.00	14	42.910	5.262	0.054	706
83.0000	SHPX3-11W	14	34.557	4.750	0.053	763
82.0000	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	14	33.578	4.667	0.051	730
75.0000	KS24019-L112A	14	27.215	4.033	0.039	614

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	ϕP _n K	Ratio P _u ϕP _n
L1	117.5 - 112.5 (1)	TP16.2656x15x0.1875	5.0000	0.0000	0.0	9.5685	-2.58	559.76	0.005
L2	112.5 - 107.5 (2)	TP17.5312x16.2656x0.18 75	5.0000	0.0000	0.0	10.321 7	-2.80	603.82	0.005
L3	107.5 - 102.5 (3)	TP18.7969x17.5312x0.18 75	5.0000	0.0000	0.0	11.074 9	-6.57	647.88	0.010
L4	102.5 - 97.5 (4)	TP20.0625x18.7969x0.18 75	5.0000	0.0000	0.0	11.828 1	-6.94	691.94	0.010
L5	97.5 - 92.5 (5)	TP21.3281x20.0625x0.18 75	5.0000	0.0000	0.0	12.581 3	-7.34	736.01	0.010
L6	92.5 - 86.29 (6)	TP22.9x21.3281x0.1875 25	6.2100	0.0000	0.0	13.001 6	-11.32	760.59	0.015
L7	86.29 - 84.71 (7)	TP22.9126x21.6593x0.31 25	5.0000	0.0000	0.0	22.416 4	-12.14	1311.36	0.009
L8	84.71 - 79.71 (8)	TP24.1658x22.9126x0.31 25	5.0000	0.0000	0.0	23.659 5	-18.32	1384.08	0.013
L9	79.71 - 74.71 (9)	TP25.4191x24.1658x0.31 25	5.0000	0.0000	0.0	24.902 6	-19.23	1456.80	0.013
L10	74.71 - 69.71 (10)	TP26.6724x25.4191x0.31 25	5.0000	0.0000	0.0	26.145 7	-20.14	1529.52	0.013
L11	69.71 - 64.71 (11)	TP27.9256x26.6724x0.31 25	5.0000	0.0000	0.0	27.388 8	-21.09	1602.24	0.013
L12	64.71 - 62.83 (12)	TP28.3968x27.9256x0.31 25	1.8800	0.0000	0.0	27.856 1	-21.43	1629.58	0.013
L13	62.83 - 62.58 (13)	TP28.4595x28.3968x0.73 75	0.2500	0.0000	0.0	64.892 3	-21.55	3796.20	0.006
L14	62.58 - 57.58 (14)	TP29.7128x28.4595x0.71 25	5.0000	0.0000	0.0	65.583 4	-23.04	3836.63	0.006
L15	57.58 - 52.58 (15)	TP30.966x29.7128x0.7 0	5.0000	0.0000	0.0	67.245 0	-24.57	3933.83	0.006
L16	52.58 - 47.58 (16)	TP32.2193x30.966x0.675 5	5.0000	0.0000	0.0	67.582 0	-26.13	3953.55	0.007
L17	47.58 - 42.63 (17)	TP33.46x32.2193x0.675 5	4.9500	0.0000	0.0	67.689 4	-26.21	3959.83	0.007
L18	42.63 - 42.38 (18)	TP32.8955x31.6444x0.67 5	5.0000	0.0000	0.0	69.030 9	-29.00	4038.31	0.007
L19	42.38 - 37.38 (19)	TP34.1466x32.8955x0.65 5	5.0000	0.0000	0.0	69.106 9	-30.58	4042.75	0.008
L20	37.38 - 32.38 (20)	TP35.3978x34.1466x0.63 5	5.0000	0.0000	0.0	70.334	-32.24	4114.58	0.008

Section No.	Elevation	Size	L	L _u	KI/r	A	P _u	ϕP _n	Ratio P _u / ϕP _n
	ft		ft	ft		in ²	K	K	
L21	32.38-31.75 (20) (21)	TP35.5554x35.3978x0.63 75 75	0.6300	0.0000	0.0	70.653 7	-32.46	4133.24	0.008
L22	31.75-31.5 (22)	TP35.618x35.5554x0.737 5	0.2500	0.0000	0.0	81.649 0	-32.56	4776.47	0.007
L23	31.5-26.5 (23)	TP36.8691x35.618x0.725	5.0000	0.0000	0.0	83.172 9	-34.42	4865.62	0.007
L24	26.5-21.5 (24)	TP38.1202x36.8691x0.71 25	5.0000	0.0000	0.0	84.596 6	-36.33	4948.90	0.007
L25	21.5-16.5 (25)	TP39.3713x38.1202x0.68 75	5.0000	0.0000	0.0	84.412 9	-38.27	4938.16	0.008
L26	16.5-11.5 (26)	TP40.6224x39.3713x0.67 5	5.0000	0.0000	0.0	85.585 4	-40.24	5006.74	0.008
L27	11.5-6.5 (27)	TP41.8735x40.6224x0.66 25	5.0000	0.0000	0.0	86.657 6	-42.24	5069.47	0.008
L28	6.5-2 (28)	TP42.9996x41.8735x0.66 25	4.5000	0.0000	0.0	89.025 3	-44.06	5207.98	0.008
L29	2-1.75 (29)	TP43.0621x42.9996x0.8	0.2500	0.0000	0.0	107.31 20	-44.17	6277.75	0.007
L30	1.75-0 (30)	TP43.5x43.0621x0.7875	1.7500	0.0000	0.0	105.66 60	-44.19	6181.49	0.007

Pole Bending Design Data

Section No.	Elevation	Size	M _{ux}	ϕM _{nx}	Ratio M _{ux} / ϕM _{nx}	M _{uy}	ϕM _{ny}	Ratio M _{uy} / ϕM _{ny}
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	117.5-112.5 (1)	TP16.2656x15x0.1875	37.41	234.15	0.160	0.00	234.15	0.000
L2	112.5-107.5 (2)	TP17.5312x16.2656x0.18 75	69.91	272.69	0.256	0.00	272.69	0.000
L3	107.5-102.5 (3)	TP18.7969x17.5312x0.18 75	126.64	310.87	0.407	0.00	310.87	0.000
L4	102.5-97.5 (4)	TP20.0625x18.7969x0.18 75	186.77	348.75	0.536	0.00	348.75	0.000
L5	97.5-92.5 (5)	TP21.3281x20.0625x0.18 75	248.41	387.93	0.640	0.00	387.93	0.000
L6	92.5-86.29 (6)	TP22.9x21.3281x0.1875	298.78	410.31	0.728	0.00	410.31	0.000
L7	86.29-84.71 (7)	TP22.9126x21.6593x0.31 25	393.71	769.42	0.512	0.00	769.42	0.000
L8	84.71-79.71 (8)	TP24.1658x22.9126x0.31 25	519.55	857.74	0.606	0.00	857.74	0.000
L9	79.71-74.71 (9)	TP25.4191x24.1658x0.31 25	661.10	950.85	0.695	0.00	950.85	0.000
L10	74.71-69.71 (10)	TP26.6724x25.4191x0.31 25	804.81	1048.76	0.767	0.00	1048.76	0.000
L11	69.71-64.71 (11)	TP27.9256x26.6724x0.31 25	949.89	1151.47	0.825	0.00	1151.47	0.000
L12	64.71-62.83 (12)	TP28.3968x27.9256x0.31 25	1004.88	1191.33	0.843	0.00	1191.33	0.000
L13	62.83-62.58 (13)	TP28.4595x28.3968x0.73 75	1012.23	2698.16	0.375	0.00	2698.16	0.000
L14	62.58-57.58 (14)	TP29.7128x28.4595x0.71 25	1160.86	2858.29	0.406	0.00	2858.29	0.000
L15	57.58-52.58 (15)	TP30.966x29.7128x0.7	1312.90	3062.93	0.429	0.00	3062.93	0.000
L16	52.58-47.58 (16)	TP32.2193x30.966x0.675	1468.34	3213.72	0.457	0.00	3213.72	0.000
L17	47.58-42.63 (17)	TP33.46x32.2193x0.675	1474.63	3224.06	0.457	0.00	3224.06	0.000
L18	42.63-42.38 (18)	TP32.8955x31.6444x0.67 5	1633.09	3354.47	0.487	0.00	3354.47	0.000
L19	42.38-37.38 (19)	TP34.1466x32.8955x0.65	1794.53	3496.46	0.513	0.00	3496.46	0.000

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L20	37.38 - 32.38 (20)	TP35.3978x34.1466x0.63 75	1962.83	3696.68	0.531	0.00	3696.68	0.000
L21	32.38 - 31.75 (21)	TP35.5554x35.3978x0.63 75	1984.28	3730.59	0.532	0.00	3730.59	0.000
L22	31.75 - 31.5 (22)	TP35.618x35.5554x0.737 5	1992.80	4294.36	0.464	0.00	4294.36	0.000
L23	31.5 - 26.5 (23)	TP36.8691x35.618x0.725	2164.99	4537.81	0.477	0.00	4537.81	0.000
L24	26.5 - 21.5 (24)	TP38.1202x36.8691x0.71 25	2339.70	4781.58	0.489	0.00	4781.58	0.000
L25	21.5 - 16.5 (25)	TP39.3713x38.1202x0.68 75	2516.09	4940.14	0.509	0.00	4940.14	0.000
L26	16.5 - 11.5 (26)	TP40.6224x39.3713x0.67 5	2694.05	5176.82	0.520	0.00	5176.82	0.000
L27	11.5 - 6.5 (27)	TP41.8735x40.6224x0.66 25	2873.53	5411.85	0.531	0.00	5411.85	0.000
L28	6.5 - 2 (28)	TP42.9996x41.8735x0.66 25	3036.38	5714.03	0.531	0.00	5714.03	0.000
L29	2 - 1.75 (29)	TP43.0621x42.9996x0.8	3045.46	6853.42	0.444	0.00	6853.42	0.000
L30	1.75 - 0 (30)	TP43.5x43.0621x0.7875	3045.46	6752.32	0.451	0.00	6752.32	0.000

Pole Shear Design Data

Section No.	Elevation	Size	Actual V_u	ϕV_n	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u	ϕT_n	Ratio $\frac{T_u}{\phi T_n}$
	ft		K	K		kip-ft	kip-ft	
L1	117.5 - 112.5 (1)	TP16.2656x15x0.1875	6.35	167.93	0.038	0.38	236.45	0.002
L2	112.5 - 107.5 (2)	TP17.5312x16.2656x0.18 75	6.65	181.15	0.037	0.38	275.14	0.001
L3	107.5 - 102.5 (3)	TP18.7969x17.5312x0.18 75	11.88	194.36	0.061	0.00	316.76	0.000
L4	102.5 - 97.5 (4)	TP20.0625x18.7969x0.18 75	12.18	207.58	0.059	0.00	361.31	0.000
L5	97.5 - 92.5 (5)	TP21.3281x20.0625x0.18 75	12.49	220.80	0.057	0.00	408.79	0.000
L6	92.5 - 86.29 (6)	TP22.9x21.3281x0.1875	18.81	228.18	0.082	0.46	436.56	0.001
L7	86.29 - 84.71 (7)	TP22.9126x21.6593x0.31 25	19.18	393.41	0.049	0.46	778.63	0.001
L8	84.71 - 79.71 (8)	TP24.1658x22.9126x0.31	27.87	415.23	0.067	4.14	867.38	0.005
L9	79.71 - 74.71 (9)	TP25.4191x24.1658x0.31 25	28.62	437.04	0.065	0.87	960.92	0.001
L10	74.71 - 69.71 (10)	TP26.6724x25.4191x0.31 25	28.90	458.86	0.063	0.87	1059.25	0.001
L11	69.71 - 64.71 (11)	TP27.9256x26.6724x0.31 25	29.17	480.67	0.061	0.87	1162.38	0.001
L12	64.71 - 62.83 (12)	TP28.3968x27.9256x0.31 25	29.39	488.88	0.060	0.87	1202.38	0.001
L13	62.83 - 62.58 (13)	TP28.4595x28.3968x0.73 75	29.40	1138.86	0.026	0.87	2764.88	0.000
L14	62.58 - 57.58 (14)	TP29.7128x28.4595x0.71 25	30.08	1150.99	0.026	0.87	2923.16	0.000
L15	57.58 - 52.58 (15)	TP30.966x29.7128x0.7	30.76	1180.15	0.026	0.87	3128.04	0.000
L16	52.58 - 47.58 (16)	TP32.2193x30.966x0.675	31.44	1186.06	0.027	0.87	3276.49	0.000
L17	47.58 - 42.63 (17)	TP33.46x32.2193x0.675	31.46	1187.95	0.026	0.87	3286.92	0.000
L18	42.63 - 42.38 (18)	TP32.8955x31.6444x0.67 5	31.94	1211.49	0.026	0.87	3418.48	0.000
L19	42.38 - 37.38 (19)	TP34.1466x32.8955x0.65	33.34	1212.83	0.027	0.86	3557.78	0.000
L20	37.38 - 32.38	TP35.3978x34.1466x0.63	34.01	1234.38	0.028	0.86	3757.60	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $V_u / \phi V_n$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $T_u / \phi T_n$
	(20)	75						
L21	32.38-31.75	TP35.5554x35.3978x0.63	34.09	1239.97	0.027	0.86	3791.76	0.000
	(21)	75						
L22	31.75-31.5	TP35.618x35.5554x0.737	34.12	1432.94	0.024	0.86	4377.14	0.000
	(22)	5						
L23	31.5-26.5	TP36.8691x35.618x0.725	34.79	1459.69	0.024	0.86	4620.37	0.000
	(23)							
L24	26.5-21.5	TP38.1202x36.8691x0.71	35.13	1484.67	0.024	0.86	4863.74	0.000
	(24)	25						
L25	21.5-16.5	TP39.3713x38.1202x0.68	35.46	1481.45	0.024	0.86	5018.75	0.000
	(25)	75						
L26	16.5-11.5	TP40.6224x39.3713x0.67	35.76	1502.02	0.024	0.86	5254.67	0.000
	(26)	5						
L27	11.5-6.5 (27)	TP41.8735x40.6224x0.66	36.07	1520.84	0.024	0.86	5488.80	0.000
		25						
L28	6.5 - 2 (28)	TP42.9996x41.8735x0.66	36.35	1562.39	0.023	0.86	5792.83	0.000
		25						
L29	2 - 1.75 (29)	TP43.0621x42.9996x0.8	36.35	1883.32	0.019	0.86	6970.37	0.000
L30	1.75 - 0 (30)	TP43.5x43.0621x0.7875	36.49	1873.65	0.019	0.86	6865.52	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $P_u / \phi P_n$	Ratio $M_{ax} / \phi M_{nx}$	Ratio $M_{ay} / \phi M_{ny}$	Ratio $V_u / \phi V_n$	Ratio $T_u / \phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	117.5-112.5	0.005	0.160	0.000	0.038	0.002	0.166	1.050	4.8.2
	(1)								
L2	112.5-107.5	0.005	0.256	0.000	0.037	0.001	0.262	1.050	4.8.2
	(2)								
L3	107.5-102.5	0.010	0.407	0.000	0.061	0.000	0.421	1.050	4.8.2
	(3)								
L4	102.5-97.5	0.010	0.536	0.000	0.059	0.000	0.549	1.050	4.8.2
	(4)								
L5	97.5-92.5 (5)	0.010	0.640	0.000	0.057	0.000	0.654	1.050	4.8.2
L6	92.5-86.29	0.015	0.728	0.000	0.082	0.001	0.750	1.050	4.8.2
	(6)								
L7	86.29-84.71	0.009	0.512	0.000	0.049	0.001	0.523	1.050	4.8.2
	(7)								
L8	84.71-79.71	0.013	0.606	0.000	0.067	0.005	0.624	1.050	4.8.2
	(8)								
L9	79.71-74.71	0.013	0.695	0.000	0.065	0.001	0.713	1.050	4.8.2
	(9)								
L10	74.71-69.71	0.013	0.767	0.000	0.063	0.001	0.785	1.050	4.8.2
	(10)								
L11	69.71-64.71	0.013	0.825	0.000	0.061	0.001	0.842	1.050	4.8.2
	(11)								
L12	64.71-62.83	0.013	0.843	0.000	0.060	0.001	0.860	1.050	4.8.2
	(12)								
L13	62.83-62.58 (13)	0.006	0.375	0.000	0.026	0.000	0.382	1.050	4.8.2
L14	62.58-57.58 (14)	0.006	0.406	0.000	0.026	0.000	0.413	1.050	4.8.2
L15	57.58-52.58 (15)	0.006	0.429	0.000	0.026	0.000	0.436	1.050	4.8.2
L16	52.58-47.58 (16)	0.007	0.457	0.000	0.027	0.000	0.464	1.050	4.8.2
L17	47.58-42.63 (17)	0.007	0.457	0.000	0.026	0.000	0.465	1.050	4.8.2
L18	42.63-42.38 (18)	0.007	0.487	0.000	0.026	0.000	0.495	1.050	4.8.2
L19	42.38-37.38 (19)	0.008	0.513	0.000	0.027	0.000	0.522	1.050	4.8.2
L20	37.38-32.38	0.008	0.531	0.000	0.028	0.000	0.540	1.050	4.8.2

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
(20)									
L21	32.38-31.75	0.008	0.532	0.000	0.027	0.000	0.541	1.050	4.8.2
(21)									
L22	31.75-31.5	0.007	0.464	0.000	0.024	0.000	0.471	1.050	4.8.2
(22)									
L23	31.5-26.5	0.007	0.477	0.000	0.024	0.000	0.485	1.050	4.8.2
(23)									
L24	26.5-21.5	0.007	0.489	0.000	0.024	0.000	0.497	1.050	4.8.2
(24)									
L25	21.5-16.5	0.008	0.509	0.000	0.024	0.000	0.518	1.050	4.8.2
(25)									
L26	16.5-11.5	0.008	0.520	0.000	0.024	0.000	0.529	1.050	4.8.2
(26)									
L27	11.5-6.5 (27)	0.008	0.531	0.000	0.024	0.000	0.540	1.050	4.8.2
L28	6.5-2 (28)	0.008	0.531	0.000	0.023	0.000	0.540	1.050	4.8.2
L29	2-1.75 (29)	0.007	0.444	0.000	0.019	0.000	0.452	1.050	4.8.2
L30	1.75-0 (30)	0.007	0.451	0.000	0.019	0.000	0.459	1.050	4.8.2

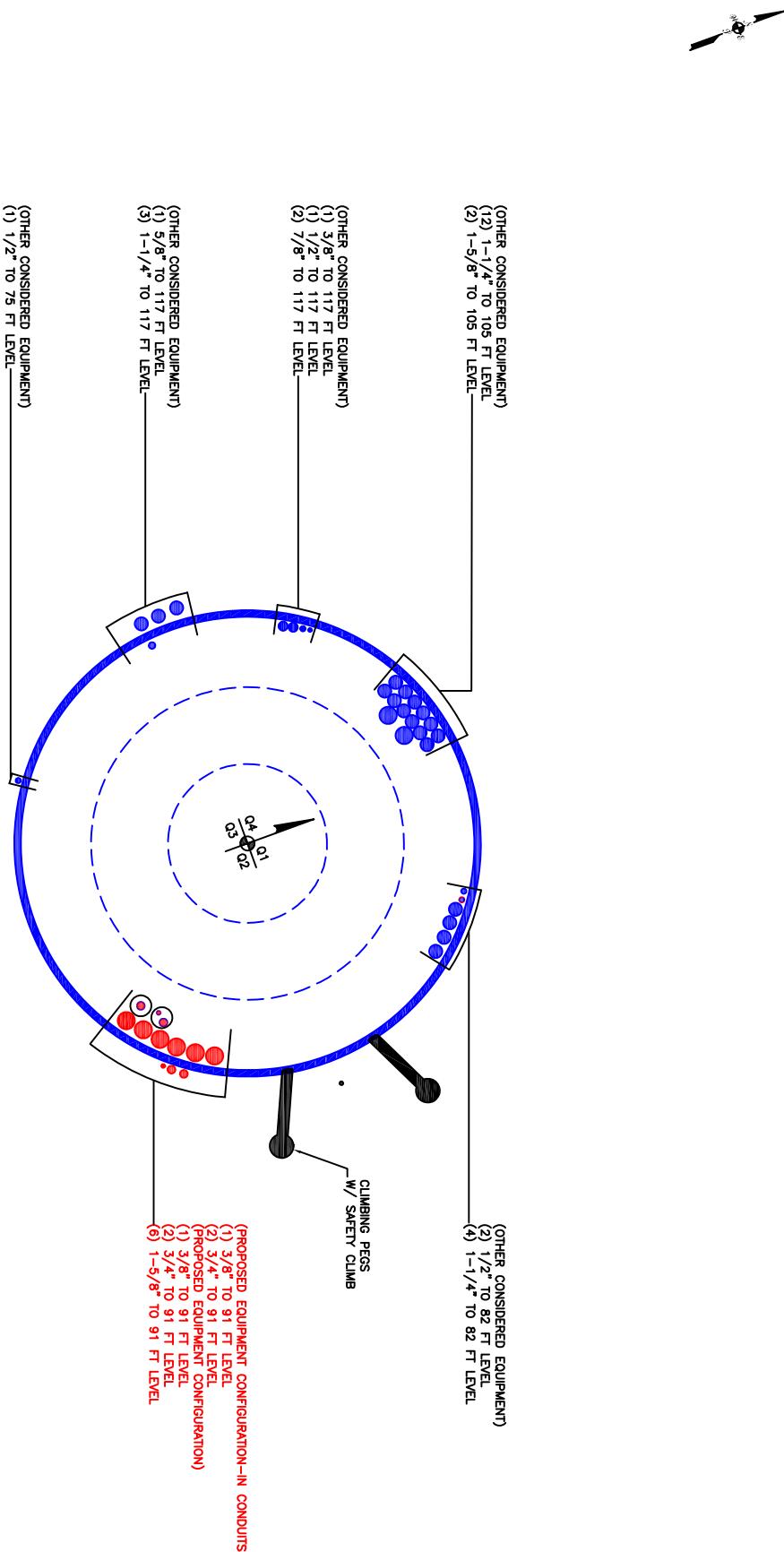
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	117.5-112.5	Pole	TP16.2656x15x0.1875	1	-2.58	587.74	15.8	Pass
L2	112.5-107.5	Pole	TP17.5312x16.2656x0.1875	2	-2.80	634.01	25.0	Pass
L3	107.5-102.5	Pole	TP18.7969x17.5312x0.1875	3	-6.57	680.28	40.1	Pass
L4	102.5-97.5	Pole	TP20.0625x18.7969x0.1875	4	-6.94	726.54	52.3	Pass
L5	97.5-92.5	Pole	TP21.3281x20.0625x0.1875	5	-7.34	772.81	62.2	Pass
L6	92.5-86.29	Pole	TP22.9x21.3281x0.1875	6	-11.32	798.62	71.4	Pass
L7	86.29-84.71	Pole	TP22.9126x21.6593x0.3125	7	-12.14	1376.93	49.8	Pass
L8	84.71-79.71	Pole	TP24.1658x22.9126x0.3125	8	-18.32	1453.28	59.4	Pass
L9	79.71-74.71	Pole	TP25.4191x24.1658x0.3125	9	-19.23	1529.64	67.9	Pass
L10	74.71-69.71	Pole	TP26.6724x25.4191x0.3125	10	-20.14	1606.00	74.7	Pass
L11	69.71-64.71	Pole	TP27.9256x26.6724x0.3125	11	-21.09	1682.35	80.2	Pass
L12	64.71-62.83	Pole	TP28.3968x27.9256x0.3125	12	-21.43	1711.06	81.9	Pass
L13	62.83-62.58	Pole	TP28.4595x28.3968x0.7375	13	-21.55	3986.01	36.3	Pass
L14	62.58-57.58	Pole	TP29.7128x28.4595x0.7125	14	-23.04	4028.46	39.3	Pass
L15	57.58-52.58	Pole	TP30.966x29.7128x0.7	15	-24.57	4130.52	41.5	Pass
L16	52.58-47.58	Pole	TP32.2193x30.966x0.675	16	-26.13	4151.23	44.2	Pass
L17	47.58-42.63	Pole	TP33.46x32.2193x0.675	17	-26.21	4157.82	44.3	Pass
L18	42.63-42.38	Pole	TP32.8955x31.6444x0.675	18	-29.00	4240.23	47.1	Pass
L19	42.38-37.38	Pole	TP34.1466x32.8955x0.65	19	-30.58	4244.89	49.7	Pass
L20	37.38-32.38	Pole	TP35.3978x34.1466x0.6375	20	-32.24	4320.31	51.4	Pass
L21	32.38-31.75	Pole	TP35.5554x35.3978x0.6375	21	-32.46	4339.90	51.5	Pass
L22	31.75-31.5	Pole	TP35.618x35.5554x0.7375	22	-32.56	5015.29	44.9	Pass
L23	31.5-26.5	Pole	TP36.8691x35.618x0.725	23	-34.42	5108.90	46.2	Pass
L24	26.5-21.5	Pole	TP38.1202x36.8691x0.7125	24	-36.33	5196.34	47.4	Pass
L25	21.5-16.5	Pole	TP39.3713x38.1202x0.6875	25	-38.27	5185.07	49.3	Pass
L26	16.5-11.5	Pole	TP40.6224x39.3713x0.675	26	-40.24	5257.08	50.4	Pass
L27	11.5-6.5	Pole	TP41.8735x40.6224x0.6625	27	-42.24	5322.94	51.4	Pass
L28	6.5-2	Pole	TP42.9996x41.8735x0.6625	28	-44.06	5468.38	51.5	Pass
L29	2-1.75	Pole	TP43.0621x42.9996x0.8	29	-44.17	6591.64	43.0	Pass
L30	1.75-0	Pole	TP43.5x43.0621x0.7875	30	-44.19	6490.56	43.7	Pass
Summary								
Pole (L12)								
RATING = 81.9								

*Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.

APPENDIX B

BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

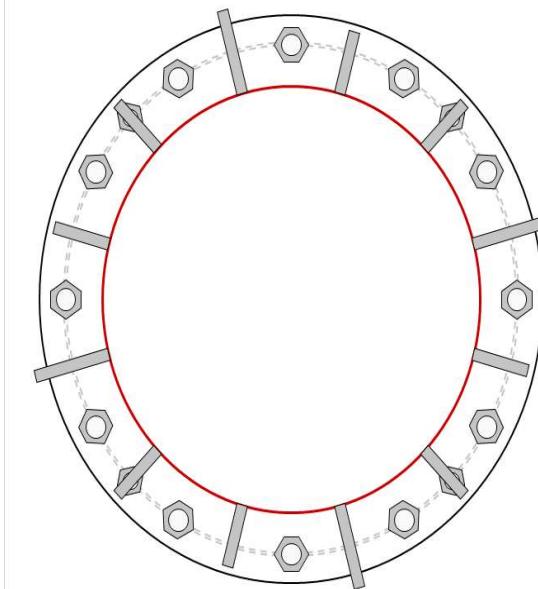


Site Info	
BU #	876352
Site Name	Richard Wall
Order #	527517 rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.25

Applied Loads	
Moment (kip-ft)	3109.16
Axial Force (kips)	44.87
Shear Force (kips)	36.49

*TIA-222-H Section 15.5 Applied



Connection Properties

Anchor Rod Data

GROUP 1: (12) 2-1/4" ϕ bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 52" BC
 GROUP 2: (4) 1-3/4" ϕ bolts (A193 Gr. B7 X; Fy=105 ksi, Fu=125 ksi) on 52.5" BC

Base Plate Data

58" OD x 1.75" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

(12) 30"H x 8.75"W x 1.25"T, Notch: 0.75"
 plate: Fy= 65 ksi ; weld: Fy= 80 ksi
 horiz. weld: 0.625" groove, 45° dbl bevel, 0.625" fillet
 vert. weld: 0.375" fillet

Pole Data

43.5" x 0.3125" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary

(units of kips, kip-in)		
GROUP 1:		
$P_{u_c} = 203.13$	$\phi P_{n_c} = 268.39$	Stress Rating
$V_u = 3.04$	$\phi V_n = 120.77$	72.1% Pass
$M_u = n/a$	$\phi M_n = n/a$	

GROUP 2:

		Stress Rating
$P_{u_c} = 117.69$	$\phi P_{n_c} = 227.3$	
$V_u = 0$	$\phi V_n = 102.28$	49.3% Pass
$M_u = n/a$	$\phi M_n = n/a$	

Base Plate Summary

Max Stress (ksi):	40.41	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	71.3%	Pass

Stiffener Summary

Horizontal Weld:	42.8%	Pass
Vertical Weld:	58.3%	Pass
Plate Flexure+Shear:	11.7%	Pass
Plate Tension+Shear:	42.3%	Pass
Plate Compression:	44.6%	Pass

Pole Summary

Punching Shear:	22.8%	Pass
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Drilled Pier Foundation

BU #: 876352
Site Name: Richard Wall
er Number: 527517 rev# 0

TIA-222 Revision: H
Tower Type: Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	3109	
Axial Force (kips)	45	
Shear Force (kips)	36	

Material Properties	
Concrete Strength, f'c:	3 ksi
Rebar Strength, Fy:	60 ksi
Tie Yield Strength, Fyt:	40 ksi

Pier Design Data	
Depth	22 ft
Ext. Above Grade	1 ft
Pier Section 1	

Front 12' 0" above ground to 2' below ground	
Pier Diameter	6 ft
Rebar Quantity	14
Rebar Size	11
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	in
Rebar Quantity	4
Rebar Size	14
Rebar Cage Diameter	52.5 in
Pier Section 2	
Front 15.034' below grade to 22' below grade	
Pier Diameter	6 ft
Rebar Quantity	14
Rebar Size	11
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	in

Analysis Results

Soil Lateral Check	Compression	Uplift
D ₁₀₀ (ft from TOC)	6.49	-
Soil Safety Factor	1.90	-
Max Moment (kip-ft)	3310.87	-
Rating*	66.8%	-

Material Properties	Material Pronerties	Skin Friction (k _s)	Skin Friction (k _s)	Compaction
Skin Friction Check	Skin Friction (k _s)	398.21	398.21	

End Bearing (kips)	169.65	-
Weight of Concrete (kips)	117.06	-
Total Capacity (kips)	567.92	-

Pier Design Data	Design Data	Design Data
Design Data	Design Data	Design Data
Design Data	Design Data	Design Data
Design Data	Design Data	Design Data
Design Data	Design Data	Design Data

Reinforced Concrete Flexure	Compression	Uplift
Critical Depth (ft from TOC)	6.42	-
Critical Moment (kip-ft)	3310.82	-

Screen Brightness Control	80.7%
---------------------------	-------

Reinforced Concrete Shear	Compression	Uplift
Critical Depth (ft from TOC)	18.89	-
Critical Shear (kip)	309.77	-
Critical Shear Capacity	423.54	-
Rating*	69.7%	-

Soil Interaction Rating*
Structural Foundation Rating*

Check Limitation

Apply TIA-2222-H Section 15.5:	<input checked="" type="checkbox"/>
NA	<input type="checkbox"/>
Shear Design Options	
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input checked="" type="checkbox"/>

Go to Soil Calculations

Soil Profile

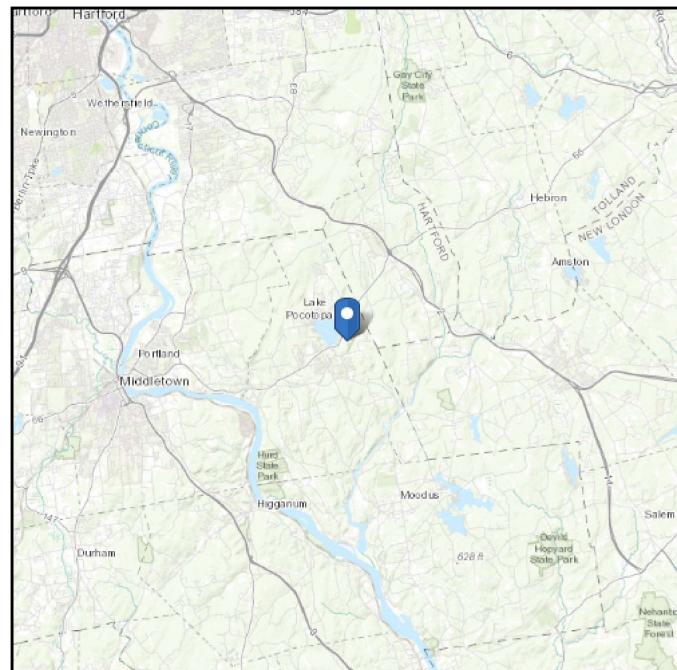
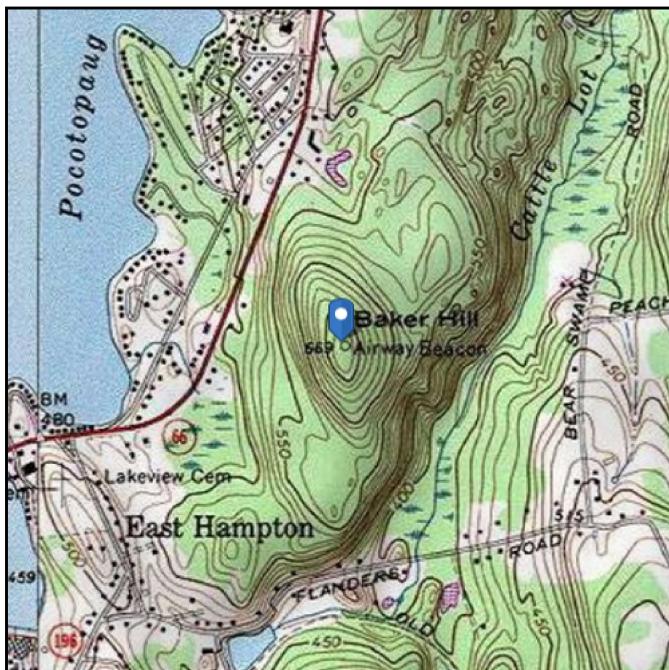
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	SPT Blow Count	Soil Type
1	0	3.33	3.33	120	150	0	0	0.000	0.000	0.00	0.00		Cohesionless
2	3.33	6.5	3.17	120	150	0	33	0.708	0.708				Cohesionless
3	6.5	11	4.5	120	150	0	33	1.156	1.156				Cohesionless
4	11	22	11	120	150	0	33	1.884	1.884				Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 664.58 ft (NAVD 88)
Latitude: 41.587278
Longitude: -72.488778



Wind

Results:

Wind Speed:	127 Vmph
10-year MRI	78 Vmph
25-year MRI	87 Vmph
50-year MRI	95 Vmph
100-year MRI	103 Vmph

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

Date Accessed: Fri Oct 16 2020

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

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

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

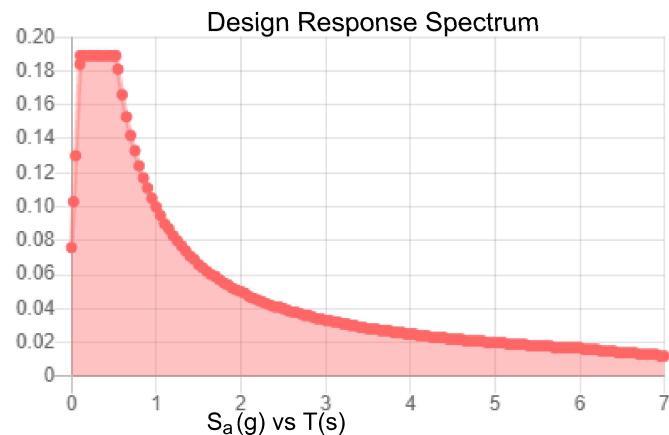
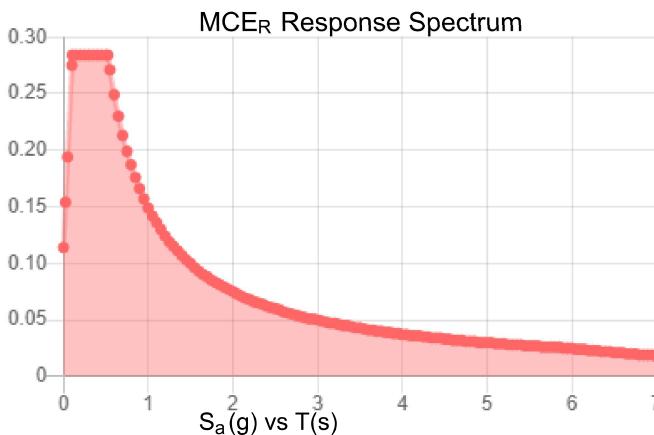
Seismic

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.177	S_{DS} :	0.189
S_1 :	0.062	S_{D1} :	0.1
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.09
S_{MS} :	0.284	PGA _M :	0.144
S_{M1} :	0.149	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Fri Oct 16 2020

Date Source:

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

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

Date Accessed: Fri Oct 16 2020

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

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

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

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In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Exhibit E

Mount Analysis

Date: October 12, 2020

Darcy Tarr
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 405-6589



Kimley-Horn and Associates, Inc.
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000
CrownMounts@kimley-horn.com

Subject: Mount Replacement Analysis Report

Carrier Designation: AT&T Equipment Change-Out
Carrier Site Number: 26076
Carrier Site Name: CTL01053

Crown Castle Designation: Crown Castle BU Number: 876352
Crown Castle Site Name: Richard Wall
Crown Castle JDE Job Number: 617841
Crown Castle Order Number: 527517, Rev. 0

Engineering Firm Designation: Kimley-Horn Report Designation: 019558051

Site Data: 94 East Hight Street, East Hampton, Middlesex County, CT 06424
Latitude 41° 35' 14.20" Longitude -72° 29' 19.60"

Structure Information: Tower Height & Type: 117.5 ft Monopole
Mount Elevation: 91 ft
Mount Type: 14.5 ft Platform w/ Support Rails

Dear Darcy Tarr,

Kimley-Horn is pleased to submit this “**Mount Replacement Analysis Report**” to determine the structural integrity of AT&T’s antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Platform w/ Support Rails **Sufficient**

This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 120 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Rich Lam, E.I.

Respectfully Submitted by:

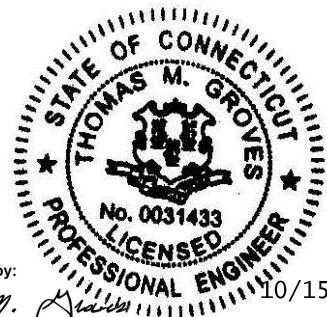
Thomas M. Groves, P.E.

Lic. #PEN.0031433, Exp. 1/31/2021
Kimley-Horn and Associates, Inc. COA #PEC.0000738

DocuSigned by:

Thomas M. Groves

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10/15/2020

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1) INTRODUCTION

The mounting configuration consists of proposed 14.5 ft Platform w/ Support Rails designed by Site Pro 1.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor at Base:	1.0
Topographic Factor at Mount:	1.0
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Live Loading Wind Speed:	30 mph
Man Live Load at Mount Pipes:	500 lb

Table 1 – Proposed Equipment Configuration

Elevation (ft)		Antennas	
Mount	Centerline	#	Name
91	93	3	CCI Antennas DMP65R-BU6D
		3	CCI Antennas HPA65R-BU6A
		3	CCI Antennas OPA65R-BU6BA-K
		3	Powerwave 7770.00
		2	Raycap DC6-48-60-18-8F
		3	Ericsson RRUS 8843 B2/B66A
		3	Ericsson RRUS 4478 B14
		3	Ericsson RADIO 4415 B30
		3	Ericsson RADIO 4449 B5/B12
91	91	6	Powerwave LGP 17201

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Site Photo	-	-	CCISites
Mount Info	Site Pro 1	RMQLP-4120-H10	On File
Supplemental Loading	AT&T RFDS	09/30/2020	TSA

3.1) Analysis Method

RISA-3D (version 17.02.00), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A proprietary tool internally developed by Kimley-Horn was used to calculate wind loading on all appurtenances, dishes and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Mount Analysis* (Revision B).

3.2) Assumptions

- 1) The antenna mounting system (including any considered modifications) was properly fabricated, installed and maintained in good condition in accordance with its original design, TIA standards, and manufacturer's specifications.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the provided reference information.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members that could not be verified at this time.
- 5) Steel grades have been assumed as follows, unless noted otherwise:

Channel, Solid Round, Angle, Plate	ASTM A36 (Gr. 36)
HSS (Rectangular)	ASTM A36 (Gr. 36)
Pipe	ASTM A53 (Gr. B-35)
Threaded Rods	ASTM A36 (Gr. 36)
Connection Bolts	ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Kimley-Horn should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity

Component	% Capacity	Pass / Fail
Corner Plates	39%	Pass
Reinforcements	37%	Pass
Support Rails	35%	Pass
Stand Off Horizontals	24%	Pass
Connections	23%	Pass
Platform Base	18%	Pass
Mount Pipes	16%	Pass
Face Horizontals	9%	Pass

Structure Rating (max from all components) =

39%

Notes:

- 1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.

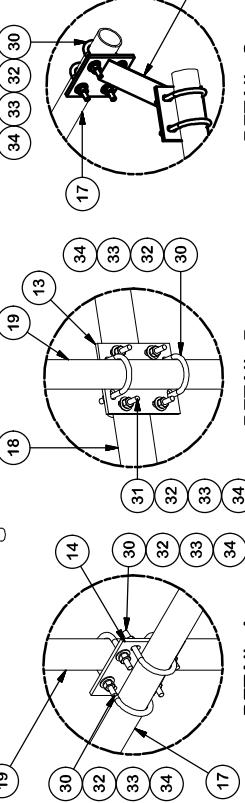
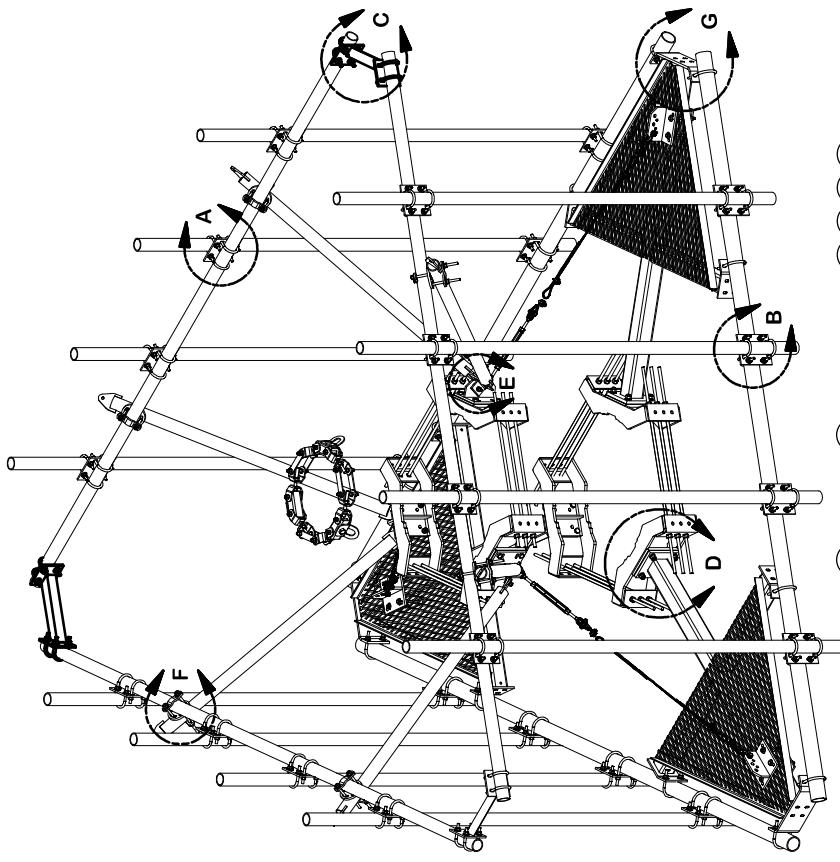
4.1) Recommendations

The proposed mounting configuration will have sufficient capacity to carry the referenced loading. In order for the results of this analysis to be considered valid, the following mounting configuration shall be installed:

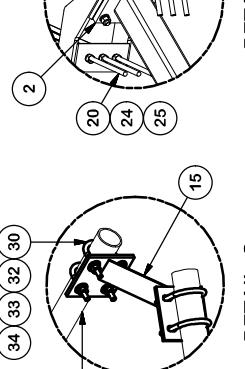
Site Pro 1 RMQLP-4120-H10.

Beyond the mount replacement, no structural modifications are required at this time, provided that the above-listed changes are implemented.

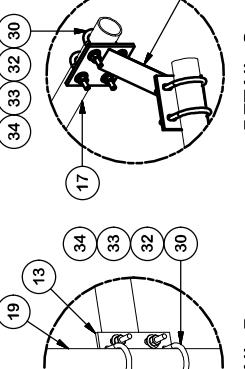
PARTS LIST					
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.
1	6	X-LVRM	RING MOUNT WELDMENT		NET WT.
2	3	X-SV196L	LONG PLATFORM WELDMENT	230.94	412.85
3	6	X-TBW	T-BRACKET WELDMENT	13.60	692.81
4	6	XHOM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	81.60
5	6	X-VSKL	LONG SUPPORT WELDMENT FOR VSK REINFORCEMENTS	37.05	11.15
6	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)	2.51	222.33
7	12	X-100064	CLAMP (4" V-CLAMP) GALVANIZED	0.92	15.04
8	3	320751-1	1/2" CHAIN SHACKLE	0.76	11.06
9	3	320801-1	5/8" TURNBUCKLE	2.63	2.29
10	6	320777-1	5/16" THIMBLE	0.06	7.89
11	12	320152-1	5/16" WIRE ROPE CLIP	1.32	0.36
12	3	AC516-10	5/16" AIRCRAFT CABLE	1.25	15.78
13	15	SCX4	CROSSOVER PLATE	8 1/2 in	3.76
14	12	SCX2	CROSSOVER PLATE	7 in	90.32
15	3	X-ALCP	ANGLE HANDRAIL CORNER PLATE	12.92	57.56
17	3	P30174	2-7/8" O.D. x 17/4" SCH. 40 GALVANIZED PIPE	174 in	38.76
18	3	P37174	3-1/2" X 17/4" SCH. 40 GALVANIZED PIPE	174 in	252.59
19	12	P30120	2-7/8" x 120" (2-1/2" SCH. 40) GALVANIZED PIPE	120 in	329.90
20	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)	4.18	696.79
20	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)	2.09	75.27
21	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	37.63
22	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	3.75
23	12	A58FW	5/8" HDG A325 FLATWASHER	0.31	4.27
24	60	G58LW	5/8" HDG LOCKWASHER	0.03	0.41
25	60	G58NUT	5/8" HDG HEAVY 2H HEX NUT	0.13	1.57
26	6	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	7.79
27	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	0.15	0.89
28	12	G12024	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	2 1/2 in	0.61
29	24	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	4 in	3.24
30	84	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)	5 1/2 in	9.83
31	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)	0.70	58.53
32	288	G12FW	1/2" HDG USS FLATWASHER	0.83	29.82
33	285	G12LW	1/2" HDG LOCKWASHER	0.03	9.82
34	285	G12NUT	1/2" HDG HEAVY 2H HEX NUT	0.01	3.96
35	1	HALO40	5,000 LB. MAINTENANCE TIE-OFF POINT	0.07	20.41
				41.12	41.12
				TOTAL WT. #	3249.41



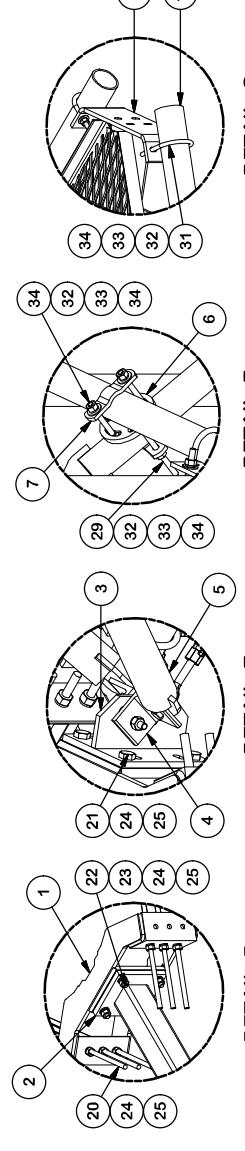
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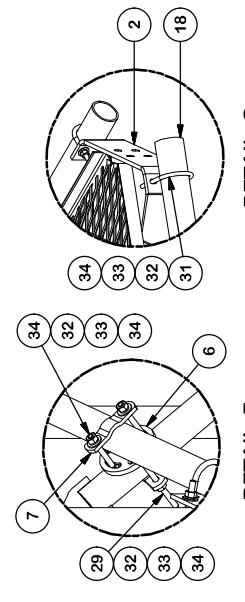
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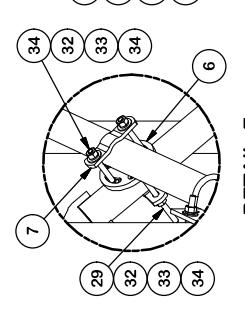
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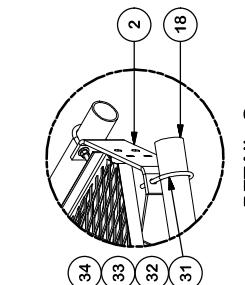
DETAIL D



DETAIL E



DETAIL F

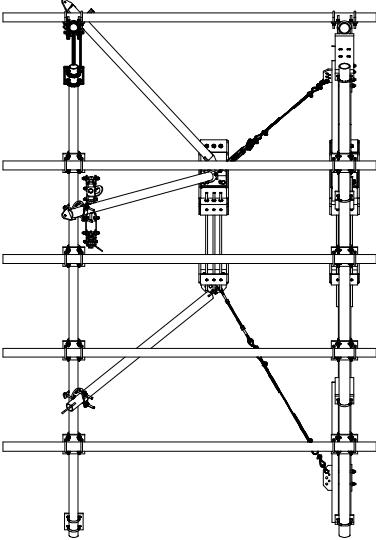
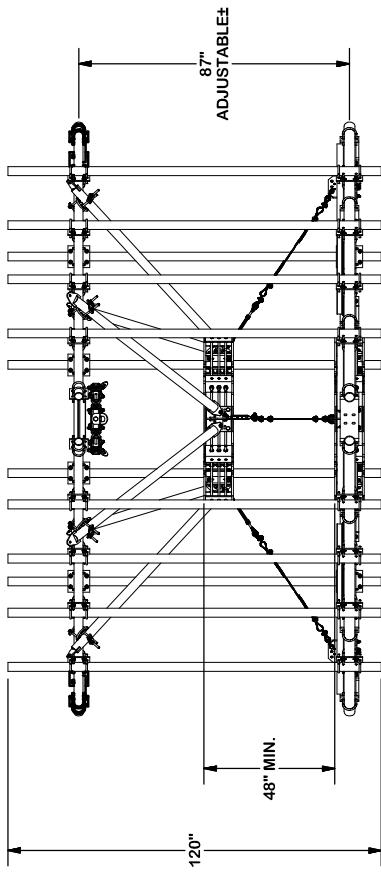
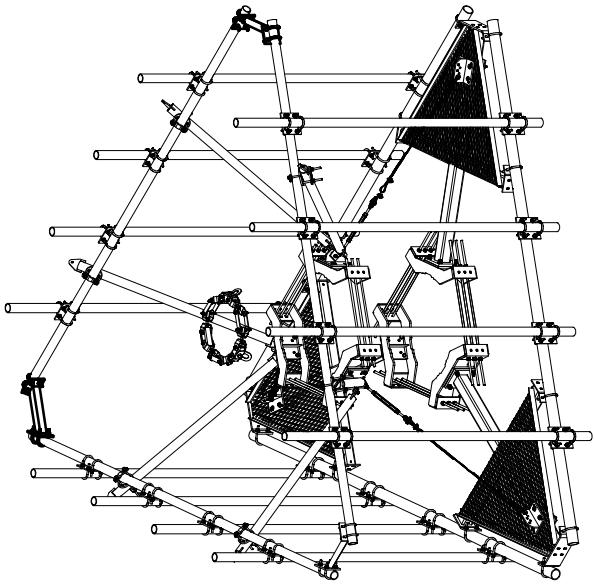
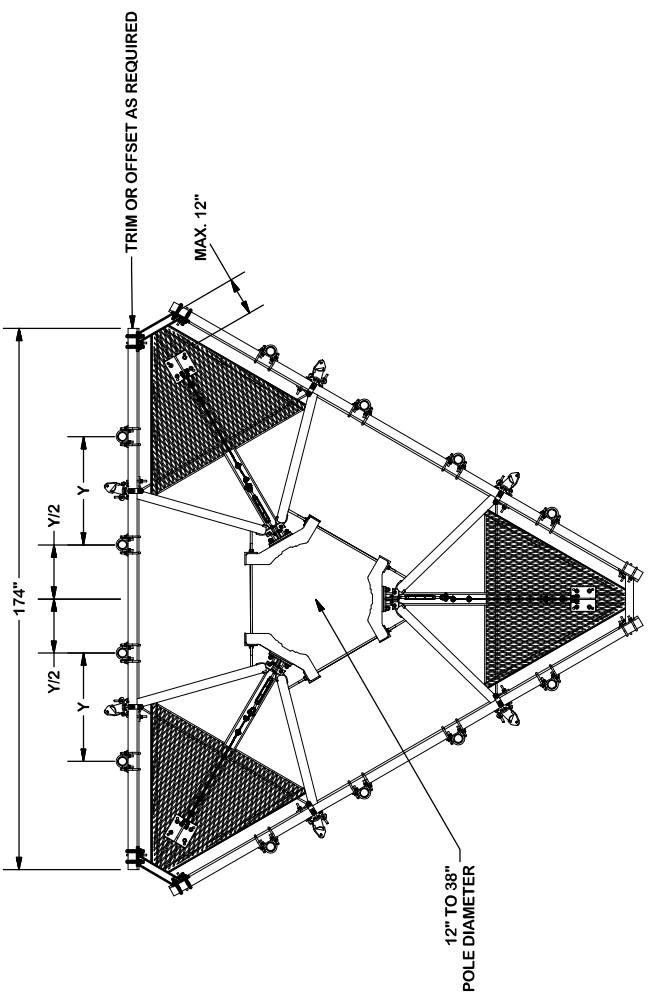


DETAIL G

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RMQLP-4120-H10		Part No. DWG. No. BMC 10/18/2019	
CPD NO.	DRAWN BY CSL	ENG. APPROVAL CHECKED BY BMC	CLASS SUB DRAWING USAGE 87 02 CUSTOMER

Locations:
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Atlanta, GA
Los Angeles, CA
Plymouth, IN
Sales, OR
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SITE PRO 1	
Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX Tampa, FL
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RMQLP-4120-H10	

PAGE 2 OF 3

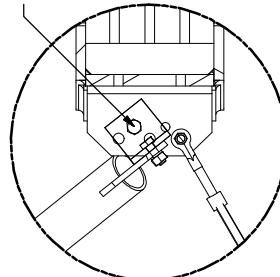
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CPD NO.	DRAWN BY CSL	ENG. APPROVAL 10/17/2019
CLASS	SUB	DRAWING USAGE CHECKED BY BMC
87	02	CUSTOMER

PART NO.
DWG. NO.
BMC

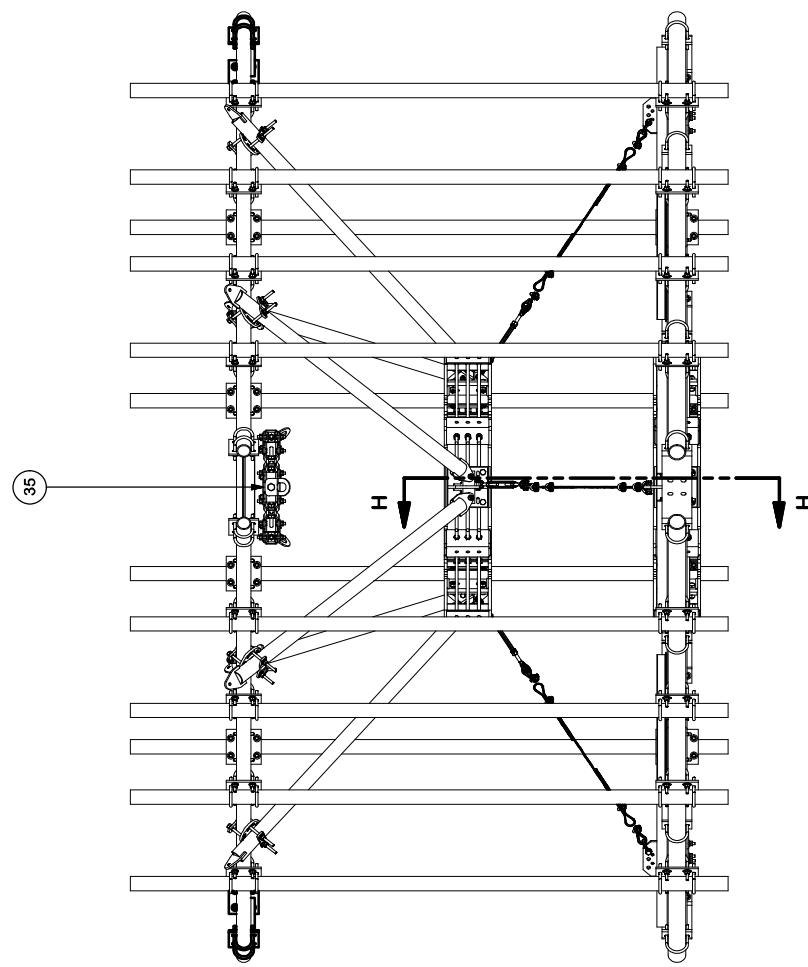
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TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWNED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$) - NO CONING OF HOLES DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES BENDS AND ANGLES ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING ($\pm 0.030"$) ALL OTHER ASSEMBLY ($\pm 0.060"$)	

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DETAIL I



SECTION H-H

NOTE:
SOME OBJECTS ARE TRANSPARENT FOR CLARITY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWNED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$) - NO CONING OF HOLES
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

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AND
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DESCRIPTION
14' 6" LOW PROFILE PLATFORM
WITH TWELVE 2-7/8" ANTENNA MOUNTING
PIPES, REINFORCED HANDRAIL, AND CABLE

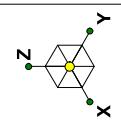
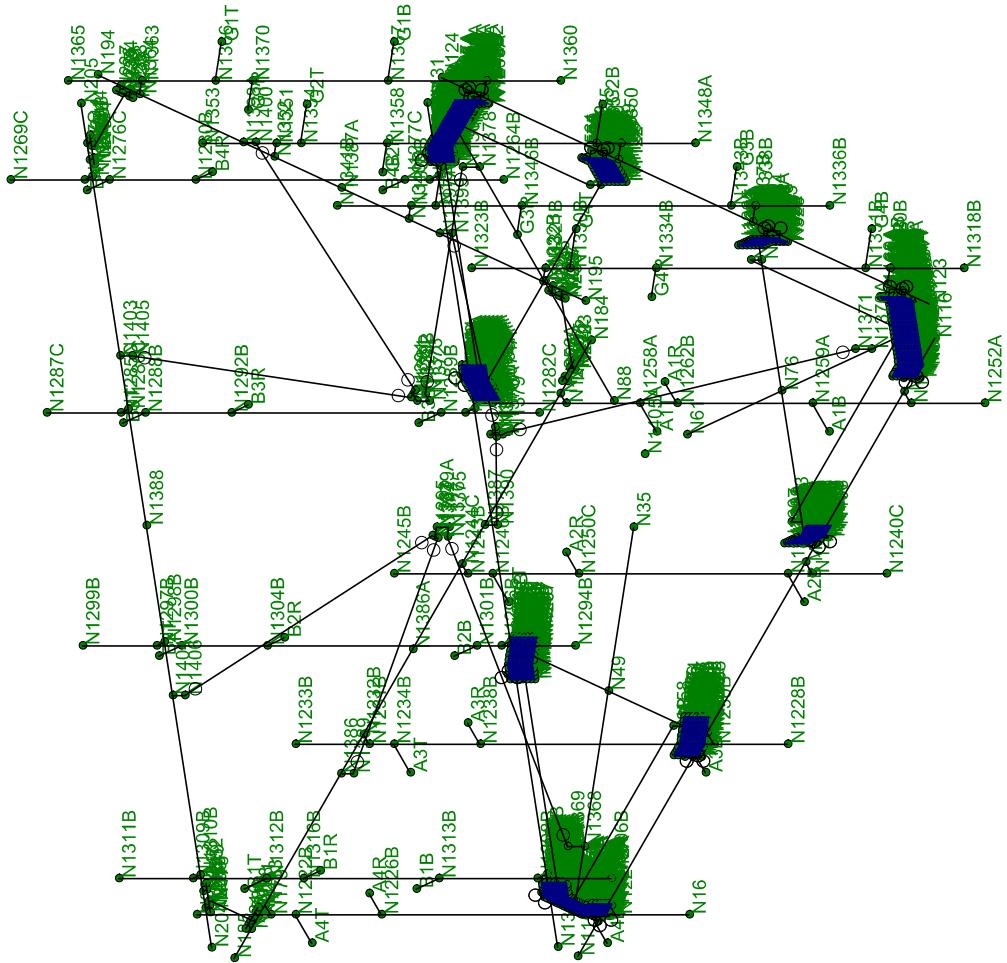
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87 CSL 10/17/2019 10/18/2019
CLASS SUB DRAWING USAGE CHECKED BY
87 02 CUSTOMER BMC 10/18/2019

SITE
PRO
1

Engineering
Support Team:
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PART NO. RMQLP-4120-H10
DWG. NO. RMQLP-4120-H10

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

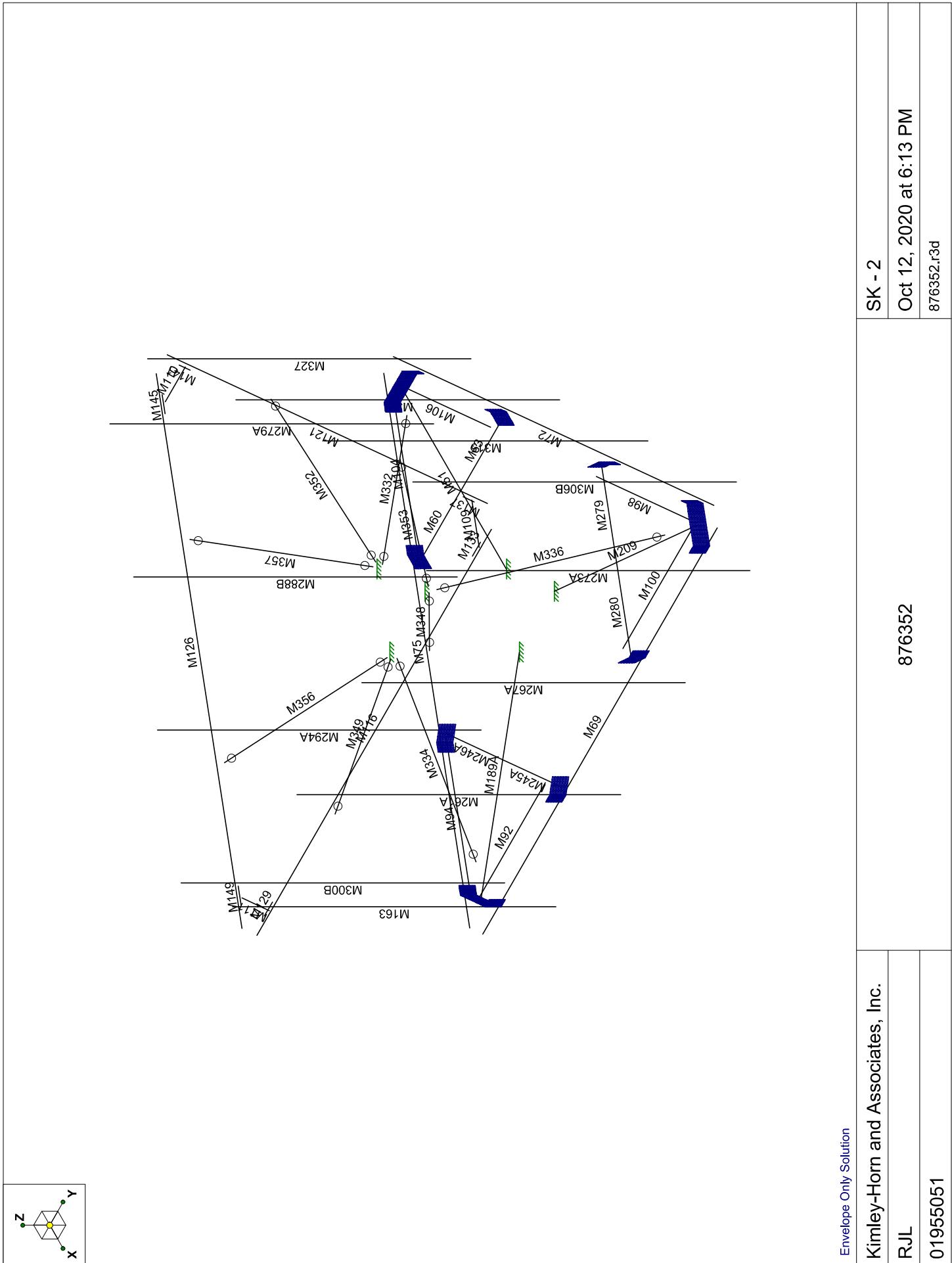
Kimley-Horn and Associates, Inc.

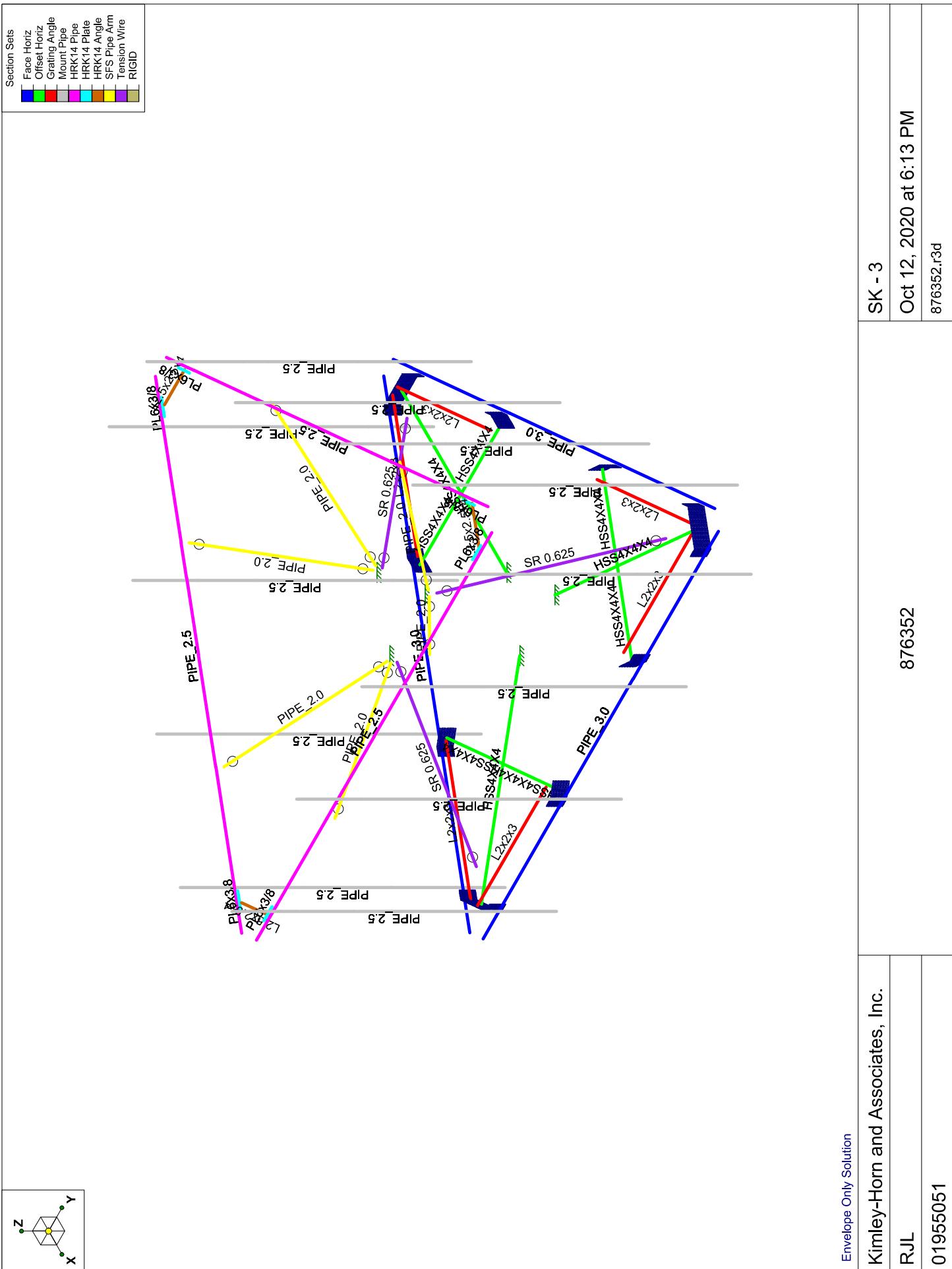
11

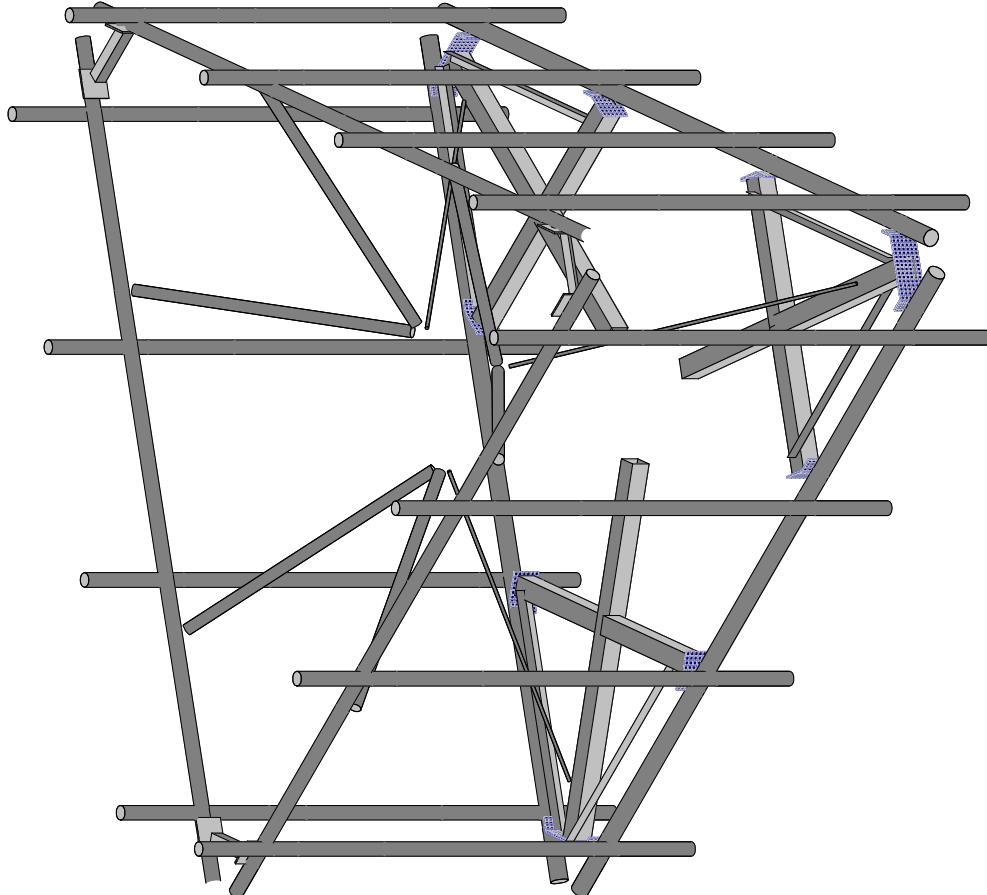
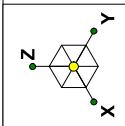
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SK - 1

Oct 12, 2020 at 6:12 PM







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RJL

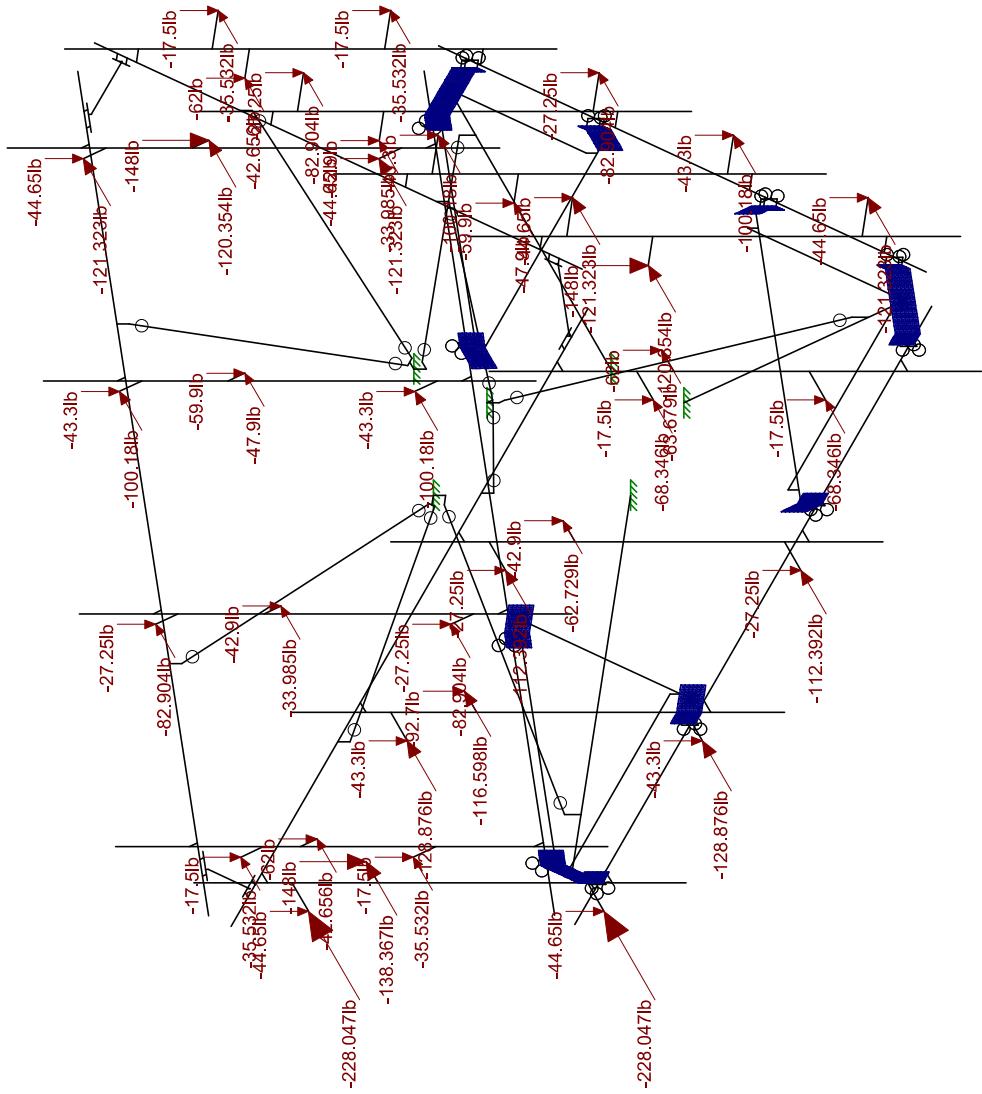
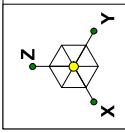
01955051

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SK - 4

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Loads: LC 1, Summary: 1.0D + 1.0W
Envelope Only Solution

Kimley-Horn and Associates, Inc.

RJL

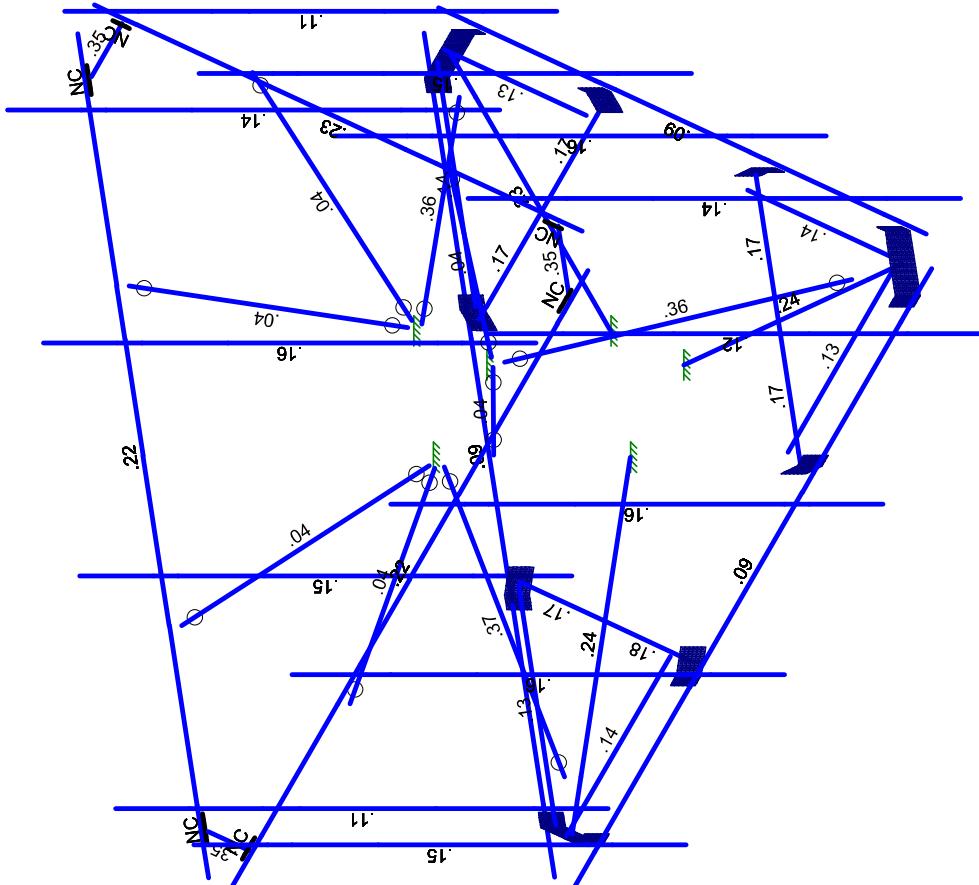
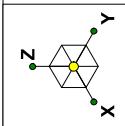
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SK - 5

Oct 12, 2020 at 6:13 PM

Code Check	
(Env)	No Calc
Black	> 1.0
Red	.90-1.0
Magenta	.75-90
Green	.50-75
Cyan	0-.50



Member Code Checks Displayed (Envveloped)
Envelope Only Solution

Kimley-Horn and Associates, Inc.

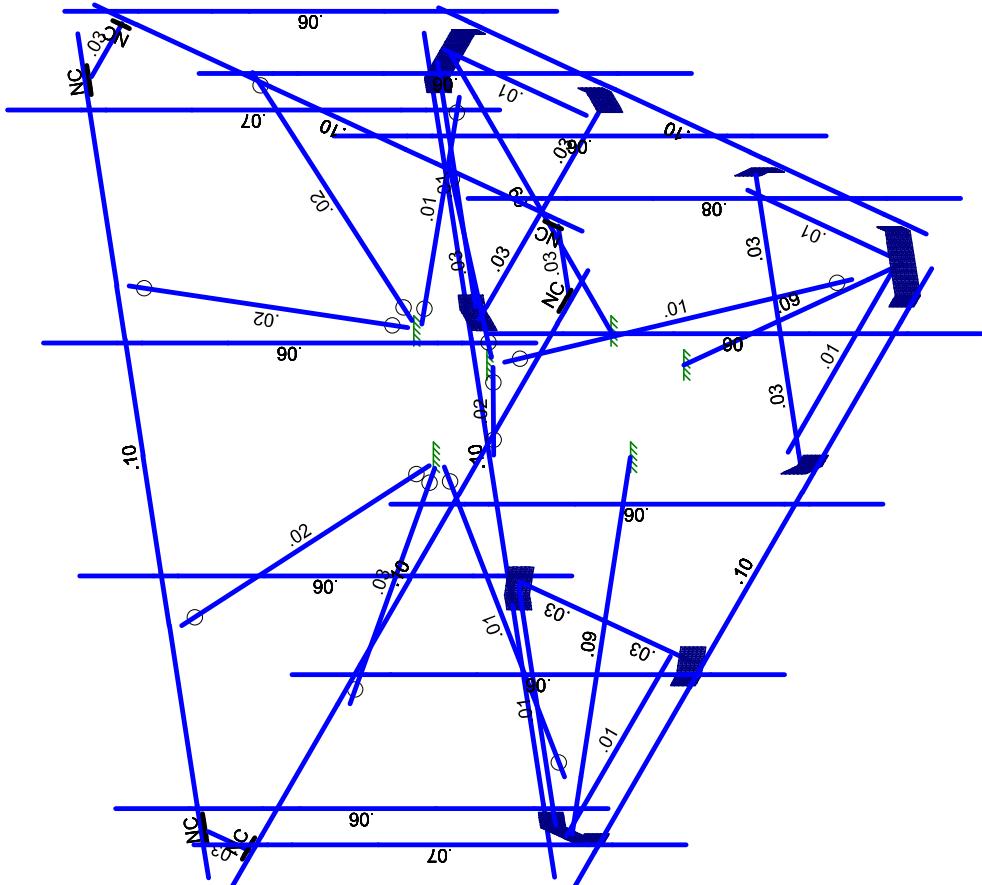
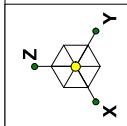
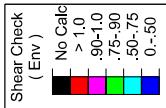
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Oct 12, 2020 at 6:14 PM
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Member Shear Checks Displayed (Envveloped)
Envelope Only Solution

Kimley-Horn and Associates, Inc.

RJL

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SK - 8

Oct 12, 2020 at 6:14 PM

APPENDIX B
SOFTWARE INPUT CALCULATIONS

General Criteria	
TIA Standard	H
IBC Edition	2018
Structure Class	-
Risk Category	II

Wind Summary	
Basic Wind Speed w/o Ice, V_0 (mph)	120,00
Velocity Pressure Coeff, K_z	1.24
Velocity Pressure, q_z (w/o Ice) (psf)	42.42

Date	October 12, 2020
Client	Crown Castle
Site #	876352
Site Name	Richard Wall
Project #	19558051

Site-Specific Criteria	
Exposure Category	C
Topographic Factor, K_{tz}	1.00
Structure Base Elev. (AMSL), z_s (ft)	664.58
Ground Effect Factor, K_e	0.98

Ice Load Summary	
Basic Wind Speed w/ Ice, V_i (mph)	50.00
Design Ice Thick. (ASCE 7-16), t_i (in)	1
Velocity Pressure, q_z (w/ Ice) (psf)	7.36
Escalated Ice Thick. @ Mount, t_{iz} (in)	1.11

Mount & Structure Criteria	
Mount Elevation (AGL) (ft)	91.00
Structure Height (ft)	117.50
Structure Type	Monopole

Seismic Load Summary	
Spectral Response (Short Periods), S_s	-
Spectral Response (1-Sec. Period), S_1	-
Site Class	-
Seismic Design Category	-
Seismic Risk Category	-

Constants	
Wind Direction Probability Factor, K_d	0.95
Gust Effect Factor, G_h	1
Shielding Factor, K_a (antenna)	0.9
Shielding Factor, K_a (mount)	0.9

Snow Load Summary	
Ground Snow Load, p_g (psf)	-
Snow Load on Flat Roofs, p_f (psf)	-

Antenna Name	Qty	Shape	Dimensions (in)			Weight (lb)	Joint Labels				EPA (ft ²)		Wind Force, F_A (lb)											
			H	W	D		Alpha		Beta		Gamma		Delta		Front	Side	Front	Side						
							A4B	A4T	B4B	B4T	G4B	G4T	B2T	G2B	G2T	B1T	G1B	G1T	11.95	4.49	456.09	171.5	89.61	37.88
DMP65R-BU6D	3	Flat	71.2	20.7	7.7	89.3													5.89	3.83	224.78	146.15	46.59	32.35
HPA65R-BU6A	3	Flat	71.1	11.7	7.6	54.5	A2B	A2T	B2B	B2T	G2B	G2T							6.75	4.75	257.75	181.23	53.42	39.49
OPA65R-BU6BA-K	3	Flat	71.1	11.7	8.4	86.6	A3B	A3T	B3B	B3T	G3B	G3T							3.58	1.29	136.69	49.19	28.98	11.96
7770	3	Flat	55	11	5	35	A1B	A1T	B1B	B1T	G1B	G1T							1.64	0.64	62.73	24.4	14.6	6.88
RADIO 4415 B30	3	Flat	15	13.2	5	42.9	A2R		B2R		G2R								1.64	1.3	62.78	49.64	14.61	11.99
RADIO 4449 B5/B12	3	Flat	15	13.2	10.4	73	A4R		B4R		G4R								1.84	1.06	70.34	40.42	16.14	10.25
RRUS 4478 B14	3	Flat	16.5	13.4	7.7	59.9	A3R		B3R		G3R								1.98	1.7	75.59	64.71	17.21	15.09
RRUS 8843 B2/B66A	3	Flat	18	13.2	11.3	75	A4R		B4R		G4R								0.83	0.47	31.84	17.82	7.39	5.49
LGP 17201	6	Flat	14.4	13.9	3.7	31	A1R		B1R		G1R								1.21	1.21	46.26	46.26	11.53	11.53
DC6-48-60-18-8F	2	Round	31.3	11	11	32.8	A3R																	

APPENDIX C
SOFTWARE ANALYSIS OUTPUT

Hot Rolled Steel Properties

Label	E [ksi]	G [ksi]	Nu	Therm (...)	Density [lb/ft^3]	Yield [ksi]	Ry	Fu [ksi]	Rt
1 A36 Gr.36	29000	11154	.3	.65	490	36	1.5	58	1.2
2 A572 Gr.50	29000	11154	.3	.65	490	50	1.1	65	1.1
3 A992	29000	11154	.3	.65	490	50	1.1	65	1.1
4 A500 Gr.B RND	29000	11154	.3	.65	527	42	1.4	58	1.3
5 A500 Gr.B Rect	29000	11154	.3	.65	527	46	1.4	58	1.3
6 A53 Gr.B	29000	11154	.3	.65	490	35	1.6	60	1.2
7 A1085	29000	11154	.3	.65	490	50	1.4	65	1.3
8 Q235	29000	11154	.3	.65	490	35	1.5	58	1.2
9 Wire	29000	11154	.3	.65	0	36	1.5	58	1.2

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design ...	A [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1 Face Horiz	PIPE_3.0	Beam	None	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2 Stand-Off Horiz	HSS4X4X4	Beam	None	Q235	Typical	3.37	7.8	7.8	12.8
3 Offset Horiz	HSS4X4X4	Beam	None	Q235	Typical	3.37	7.8	7.8	12.8
4 Offset Side Plate	PL6x3/8	Beam	None	Q235	Typical	2.25	.026	6.75	.101
5 Grating Angle	L2x2x3	Beam	None	Q235	Typical	.722	.271	.271	.009
6 Mount Pipe	PIPE_2.5	Column	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
7 Offset End Plate	PL6x1/2	Beam	None	Q235	Typical	3	.063	9	.237
8 HRK14 Pipe	PIPE_2.5	Beam	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9 HRK14 Plate	PL6x3/8	Beam	None	Q235	Typical	2.25	.026	6.75	.101
10 HRK14 Angle	L2.5x2.5x4	Beam	None	Q235	Typical	1.19	.692	.692	.026
11 SFS Pipe Arm	PIPE_2.0	Beam	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
12 Tension Wire	SR_0.625	Beam	None	Wire	Typical	.307	.007	.007	.015

Joint Coordinates and Temperatures

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1 N16	57.654187	-72.	-18	0	
2 N35	7.5155	-13.017228	0	0	
3 N36	40.7585	-83.970905	0	0	
4 N37	52.341687	-77.283349	0	0	
5 N39	-0.747815	-60.078992	0	0	
6 N42	52.404187	-32.39167	0	0	
7 N43	52.404187	-29.39167	0	0	
8 N48	47.779713	-79.283664	0	0	
9 N49	24.390513	-42.245608	0	0	
10 N50	47.779713	-28.741846	0	0	
11 N51	1.001659	-55.749169	0	0	
12 N52	46.275762	-80.151971	0	0	
13 N53	54.341687	-75.754049	0	0	
14 N60	44.771811	-81.020277	0	0	
15 N61	7.5155	13.017228	0	0	
16 N62	52.341687	77.283349	0	0	
17 N63	40.7585	83.970905	0	0	
18 N66	52.40384	29.39187	0	0	
19 N70	-0.748161	60.079192	0	0	
20 N75	44.771811	81.020277	0	0	
21 N76	24.390513	42.245608	0	0	
22 N77	1.001313	55.749369	0	0	
23 N78	47.779367	28.742046	0	0	
24 N79	46.275762	80.151971	0	0	
25 N87	47.779713	79.283664	0	0	
26 N88	-15.031	-0.	0	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
27	N89	-93.100187	6.687556	0	0
28	N90	-93.100187	-6.687556	0	0
29	N93	-51.656026	30.687122	0	0
30	N97	-51.656026	-30.687522	0	0
31	N98	-48.781026	-30.437522	0	0
32	N99	-48.781026	30.437122	0	0
33	N100	-92.850187	-0.	0	0
34	N102	-92.551524	-1.736613	0	0
35	N103	-48.781026	-0.	0	0
36	N104	-48.781026	-27.007522	0	0
37	N105	-48.781026	27.007122	0	0
38	N106	-92.551524	-0.	0	0
39	N114	-92.551524	1.736613	0	0
40	N115	54.341687	-87.00002	0	0
41	N116	54.341687	87.00002	0	0
42	M4	54.341687	-72.	0	0
43	N122	57.654187	-72.	0	0
44	N123	48.173384	90.561292	0	0
45	N124	-102.515071	3.561271	0	0
46	N131	-102.515071	-3.561271	0	0
47	N132	48.173384	-90.561292	0	0
48	N140	54.341687	-30.89167	0	0
49	N158	47.779713	-28.741846	2.561	0
50	N159	1.001659	-55.749169	2.561	0
51	N160	47.779713	-79.283664	2.561	0
52	N161	44.771811	-81.020277	2.561	0
53	N162	1.001313	55.749369	2.561	0
54	N163	47.779367	28.742046	2.561	0
55	N164	44.771811	81.020277	2.561	0
56	N165	47.779713	79.283664	2.561	0
57	N166	-48.781026	-27.007522	2.561	0
58	N167	-48.781026	27.007122	2.561	0
59	N168	-92.551524	-1.736613	2.561	0
60	N169	-92.551524	1.736613	2.561	0
61	N170	53.529187	-77.813521	83.289	0
62	N171	53.529187	77.813521	83.289	0
63	N172	40.623893	85.264396	83.289	0
64	N173	-94.153079	7.450875	83.289	0
65	N174	-94.153079	-7.450875	83.289	0
66	N175	40.623893	-85.264396	83.289	0
67	N179	57.654187	-72.	84	0
68	N183	54.904187	-72.	84	0
69	N184	54.904187	87.00002	84	0
70	N185	54.904187	-87.00002	84	0
71	N194	-102.796321	4.048411	84	0
72	N195	47.892134	91.048431	84	0
73	N204	47.892134	-91.048431	84	0
74	N205	-102.796321	-4.048411	84	0
75	N206	54.904187	-75.383771	84	0
76	N207	54.904187	-78.821271	84	0
77	N208	53.529187	-75.383771	84	0
78	N209	53.529187	-78.821271	84	0
79	N210	53.529187	-80.102521	84	0
80	N211	53.529187	-74.102521	84	0
81	N218	53.529187	-77.813521	84	0
82	N219	54.904187	75.383771	84	0
83	N220	54.904187	78.821271	84	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
84 N221	53.529187	75.383771	84	0	
85 N222	53.529187	78.821271	84	0	
86 N223	53.529187	80.102521	84	0	
87 N224	53.529187	74.102521	84	0	
88 N225	53.529187	77.813521	84	0	
89 N226	37.832167	85.240306	84	0	
90 N227	40.809129	86.959056	84	0	
91 N228	38.519667	84.049521	84	0	
92 N229	41.49663	85.768271	84	0	
93 N230	42.606225	86.408896	84	0	
94 N231	37.410072	83.408896	84	0	
95 N232	40.623893	85.264396	84	0	
96 N233	-92.736354	9.856535	84	0	
97 N234	-95.713317	8.137785	84	0	
98 N235	-92.048854	8.66575	84	0	
99 N236	-95.025816	6.947	84	0	
100 N237	-96.135412	6.306375	84	0	
101 N238	-90.939259	9.306375	84	0	
102 N239	-94.153079	7.450875	84	0	
103 N240	-92.736354	-9.856535	84	0	
104 N241	-95.713317	-8.137785	84	0	
105 N242	-92.048854	-8.66575	84	0	
106 N243	-95.025816	-6.947	84	0	
107 N244	-96.135412	-6.306375	84	0	
108 N245	-90.939259	-9.306375	84	0	
109 N246	-94.153079	-7.450875	84	0	
110 N247	37.832167	-85.240306	84	0	
111 N248	40.809129	-86.959056	84	0	
112 N249	38.519667	-84.049521	84	0	
113 N250	41.49663	-85.768271	84	0	
114 N251	42.606225	-86.408896	84	0	
115 N252	37.410072	-83.408896	84	0	
116 N253	40.623893	-85.264396	84	0	
117 N263	57.654187	-72.	102	0	
118 N272	52.341687	-77.283349	3	0	
119 N274	52.341687	-77.283349	-3	0	
120 N276	54.341687	-75.754049	2	0	
121 N277	52.341687	-75.754049	2	0	
122 N278	54.341687	-75.754049	-2	0	
123 N279	52.341687	-75.754049	-2	0	
124 N275A	52.341687	-77.283349	-2	0	
125 N276A	52.341687	-77.283349	-1	0	
126 N277A	52.341687	-77.283349	1	0	
127 N278A	52.341687	-77.283349	2	0	
128 N319	52.341687	77.283349	3	0	
129 N321	52.341687	77.283349	-3	0	
130 N327	52.341687	77.283349	-2	0	
131 N328	52.341687	77.283349	-1	0	
132 N329	52.341687	77.283349	1	0	
133 N330	52.341687	77.283349	2	0	
134 N365A	52.404187	-30.89167	2	0	
135 N366A	54.341687	-30.89167	2	0	
136 N367A	52.404187	-30.89167	-2	0	
137 N368A	54.341687	-30.89167	-2	0	
138 N368B	52.404187	-32.39167	3	0	
139 N369	52.404187	-29.39167	3	0	
140 N370	52.404187	-32.39167	-3	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
141	N371	52.404187	-29.39167	-3	0
142	N372	52.404187	-32.39167	-2	0
143	N373	52.404187	-32.39167	-1	0
144	N374	52.404187	-32.39167	1	0
145	N375	52.404187	-32.39167	2	0
146	N376	52.404187	-31.64167	-3	0
147	N377	52.404187	-31.64167	-2	0
148	N378	52.404187	-31.64167	-1	0
149	N379	52.404187	-31.64167	0	0
150	N380	52.404187	-31.64167	1	0
151	N381	52.404187	-31.64167	2	0
152	N382	52.404187	-31.64167	3	0
153	N383	52.404187	-30.89167	-3	0
154	N384	52.404187	-30.89167	-1	0
155	N385	52.404187	-30.89167	0	0
156	N386	52.404187	-30.89167	1	0
157	N387	52.404187	-30.89167	3	0
158	N388	52.404187	-30.14167	-3	0
159	N389	52.404187	-30.14167	-2	0
160	N390	52.404187	-30.14167	-1	0
161	N391	52.404187	-30.14167	0	0
162	N392	52.404187	-30.14167	1	0
163	N393	52.404187	-30.14167	2	0
164	N394	52.404187	-30.14167	3	0
165	N395	52.404187	-29.39167	-2	0
166	N396	52.404187	-29.39167	-1	0
167	N397	52.404187	-29.39167	1	0
168	N398	52.404187	-29.39167	2	0
169	N399	52.404187	32.39167	0	0
170	N401	54.341687	30.89167	0	0
171	N402	52.404187	30.89167	2	0
172	N403	54.341687	30.89167	2	0
173	N404	52.404187	30.89167	-2	0
174	N405	54.341687	30.89167	-2	0
175	N406	52.404187	32.39167	3	0
176	N407	52.404187	29.39167	3	0
177	N408	52.404187	32.39167	-3	0
178	N409	52.404187	29.39167	-3	0
179	N410	52.404187	32.39167	-2	0
180	N411	52.404187	32.39167	-1	0
181	N412	52.404187	32.39167	1	0
182	N413	52.404187	32.39167	2	0
183	N414	52.404187	31.64167	-3	0
184	N415	52.404187	31.64167	-2	0
185	N416	52.404187	31.64167	-1	0
186	N417	52.404187	31.64167	0	0
187	N418	52.404187	31.64167	1	0
188	N419	52.404187	31.64167	2	0
189	N420	52.404187	31.64167	3	0
190	N421	52.404187	30.89167	-3	0
191	N422	52.404187	30.89167	-1	0
192	N423	52.404187	30.89167	0	0
193	N424	52.404187	30.89167	1	0
194	N425	52.404187	30.89167	3	0
195	N426	52.404187	30.14167	-3	0
196	N427	52.404187	30.14167	-2	0
197	N428	52.404187	30.14167	-1	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
198	N429	52.404187	30.14167	0	0
199	N430	52.404187	30.14167	1	0
200	N431	52.404187	30.14167	2	0
201	N432	52.404187	30.14167	3	0
202	N433	52.404187	29.39167	-2	0
203	N434	52.404187	29.39167	-1	0
204	N435	52.404187	29.39167	1	0
205	N436	52.404187	29.39167	2	0
206	N413A	1.849915	61.579192	0	0
207	N418A	-0.417873	62.507116	0	0
208	N419A	40.7585	83.970905	3	0
209	N421A	40.7585	83.970905	-3	0
210	N427A	40.7585	83.970905	-2	0
211	N428A	40.7585	83.970905	-1	0
212	N429A	40.7585	83.970905	1	0
213	N430A	40.7585	83.970905	2	0
214	N470	-93.100187	6.687556	3	0
215	N472	-93.100187	6.687556	-3	0
216	N478	-93.100187	6.687556	-2	0
217	N479	-93.100187	6.687556	-1	0
218	N480	-93.100187	6.687556	1	0
219	N481	-93.100187	6.687556	2	0
220	N520	0.550877	60.829192	2	0
221	N521	-0.417873	62.507116	2	0
222	N522	0.550877	60.829192	-2	0
223	N523	-0.417873	62.507116	-2	0
224	N524	1.849915	61.579192	3	0
225	N525	-0.748161	60.079192	3	0
226	N526	1.849915	61.579192	-3	0
227	N527	-0.748161	60.079192	-3	0
228	N528	1.849915	61.579192	-2	0
229	N529	1.849915	61.579192	-1	0
230	N530	1.849915	61.579192	1	0
231	N531	1.849915	61.579192	2	0
232	N532	1.200396	61.204192	-3	0
233	N533	1.200396	61.204192	-2	0
234	N534	1.200396	61.204192	-1	0
235	N535	1.200396	61.204192	0	0
236	N536	1.200396	61.204192	1	0
237	N537	1.200396	61.204192	2	0
238	N538	1.200396	61.204192	3	0
239	N539	0.550877	60.829192	-3	0
240	N540	0.550877	60.829192	-1	0
241	N541	0.550877	60.829192	0	0
242	N542	0.550877	60.829192	1	0
243	N543	0.550877	60.829192	3	0
244	N544	-0.098642	60.454192	-3	0
245	N545	-0.098642	60.454192	-2	0
246	N546	-0.098642	60.454192	-1	0
247	N547	-0.098642	60.454192	0	0
248	N548	-0.098642	60.454192	1	0
249	N549	-0.098642	60.454192	2	0
250	N550	-0.098642	60.454192	3	0
251	N551	-0.748161	60.079192	-2	0
252	N552	-0.748161	60.079192	-1	0
253	N553	-0.748161	60.079192	1	0
254	N554	-0.748161	60.079192	2	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
255 N555	-54.254102	29.187522	0	0	
256 N556	-53.923814	31.615447	0	0	
257 N557	-52.955064	29.937522	2	0	
258 N558	-53.923814	31.615447	2	0	
259 N559	-52.955064	29.937522	-2	0	
260 N560	-53.923814	31.615447	-2	0	
261 N561	-54.254102	29.187522	3	0	
262 N562	-51.656026	30.687522	3	0	
263 N563	-54.254102	29.187522	-3	0	
264 N564	-51.656026	30.687522	-3	0	
265 N565	-54.254102	29.187522	-2	0	
266 N566	-54.254102	29.187522	-1	0	
267 N567	-54.254102	29.187522	1	0	
268 N568	-54.254102	29.187522	2	0	
269 N569	-53.604583	29.562522	-3	0	
270 N570	-53.604583	29.562522	-2	0	
271 N571	-53.604583	29.562522	-1	0	
272 N572	-53.604583	29.562522	0	0	
273 N573	-53.604583	29.562522	1	0	
274 N574	-53.604583	29.562522	2	0	
275 N575	-53.604583	29.562522	3	0	
276 N576	-52.955064	29.937522	-3	0	
277 N577	-52.955064	29.937522	-1	0	
278 N578	-52.955064	29.937522	0	0	
279 N579	-52.955064	29.937522	1	0	
280 N580	-52.955064	29.937522	3	0	
281 N581	-52.305545	30.312522	-3	0	
282 N582	-52.305545	30.312522	-2	0	
283 N583	-52.305545	30.312522	-1	0	
284 N584	-52.305545	30.312522	0	0	
285 N585	-52.305545	30.312522	1	0	
286 N586	-52.305545	30.312522	2	0	
287 N587	-52.305545	30.312522	3	0	
288 N588	-51.656026	30.687522	-2	0	
289 N589	-51.656026	30.687522	-1	0	
290 N590	-51.656026	30.687522	1	0	
291 N591	-51.656026	30.687522	2	0	
292 N593	-54.254102	-29.187522	0	0	
293 N598	-53.923814	-31.615447	0	0	
294 N599	-93.100187	-6.687556	3	0	
295 N601	-93.100187	-6.687556	-3	0	
296 N607	-93.100187	-6.687556	-2	0	
297 N608	-93.100187	-6.687556	-1	0	
298 N609	-93.100187	-6.687556	1	0	
299 N610	-93.100187	-6.687556	2	0	
300 N650	40.7585	-83.970905	3	0	
301 N652	40.7585	-83.970905	-3	0	
302 N658	40.7585	-83.970905	-2	0	
303 N659	40.7585	-83.970905	-1	0	
304 N660	40.7585	-83.970905	1	0	
305 N661	40.7585	-83.970905	2	0	
306 N700	-52.955064	-29.937522	2	0	
307 N701	-53.923814	-31.615447	2	0	
308 N702	-52.955064	-29.937522	-2	0	
309 N703	-53.923814	-31.615447	-2	0	
310 N704	-54.254102	-29.187522	3	0	
311 N705	-51.656026	-30.687522	3	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
312	N706	-54.254102	-29.187522	-3	0
313	N707	-51.656026	-30.687522	-3	0
314	N708	-54.254102	-29.187522	-2	0
315	N709	-54.254102	-29.187522	-1	0
316	N710	-54.254102	-29.187522	1	0
317	N711	-54.254102	-29.187522	2	0
318	N712	-53.604583	-29.562522	-3	0
319	N713	-53.604583	-29.562522	-2	0
320	N714	-53.604583	-29.562522	-1	0
321	N715	-53.604583	-29.562522	0	0
322	N716	-53.604583	-29.562522	1	0
323	N717	-53.604583	-29.562522	2	0
324	N718	-53.604583	-29.562522	3	0
325	N719	-52.955064	-29.937522	-3	0
326	N720	-52.955064	-29.937522	-1	0
327	N721	-52.955064	-29.937522	0	0
328	N722	-52.955064	-29.937522	1	0
329	N723	-52.955064	-29.937522	3	0
330	N724	-52.305545	-30.312522	-3	0
331	N725	-52.305545	-30.312522	-2	0
332	N726	-52.305545	-30.312522	-1	0
333	N727	-52.305545	-30.312522	0	0
334	N728	-52.305545	-30.312522	1	0
335	N729	-52.305545	-30.312522	2	0
336	N730	-52.305545	-30.312522	3	0
337	N731	-51.656026	-30.687522	-2	0
338	N732	-51.656026	-30.687522	-1	0
339	N733	-51.656026	-30.687522	1	0
340	N734	-51.656026	-30.687522	2	0
341	N735	1.849915	-61.579192	0	0
342	N736	-0.417873	-62.507116	0	0
343	N737	0.550877	-60.829192	2	0
344	N738	-0.417873	-62.507116	2	0
345	N739	0.550877	-60.829192	-2	0
346	N740	-0.417873	-62.507116	-2	0
347	N741	1.849915	-61.579192	3	0
348	N742	-0.748161	-60.079192	3	0
349	N743	1.849915	-61.579192	-3	0
350	N744	-0.748161	-60.079192	-3	0
351	N745	1.849915	-61.579192	-2	0
352	N746	1.849915	-61.579192	-1	0
353	N747	1.849915	-61.579192	1	0
354	N748	1.849915	-61.579192	2	0
355	N749	1.200396	-61.204192	-3	0
356	N750	1.200396	-61.204192	-2	0
357	N751	1.200396	-61.204192	-1	0
358	N752	1.200396	-61.204192	0	0
359	N753	1.200396	-61.204192	1	0
360	N754	1.200396	-61.204192	2	0
361	N755	1.200396	-61.204192	3	0
362	N756	0.550877	-60.829192	-3	0
363	N757	0.550877	-60.829192	-1	0
364	N758	0.550877	-60.829192	0	0
365	N759	0.550877	-60.829192	1	0
366	N760	0.550877	-60.829192	3	0
367	N761	-0.098642	-60.454192	-3	0
368	N762	-0.098642	-60.454192	-2	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
369	N763	-0.098642	-60.454192	-1	0
370	N764	-0.098642	-60.454192	0	0
371	N765	-0.098642	-60.454192	1	0
372	N766	-0.098642	-60.454192	2	0
373	N767	-0.098642	-60.454192	3	0
374	N768	-0.748161	-60.079192	-2	0
375	N769	-0.748161	-60.079192	-1	0
376	N770	-0.748161	-60.079192	1	0
377	N771	-0.748161	-60.079192	2	0
378	N762A	-93.100187	-5.851611	3	0
379	N763A	-93.100187	-5.015667	3	0
380	N764A	-93.100187	-4.179722	3	0
381	N765A	-93.100187	-3.343778	3	0
382	N766A	-93.100187	-2.507833	3	0
383	N767A	-93.100187	-1.671889	3	0
384	N768A	-93.100187	-0.835944	3	0
385	N769A	-93.100187	-0.	3	0
386	N770A	-93.100187	0.835944	3	0
387	N771A	-93.100187	1.671889	3	0
388	N772	-93.100187	2.507833	3	0
389	N773	-93.100187	3.343778	3	0
390	N774	-93.100187	4.179722	3	0
391	N775	-93.100187	5.015667	3	0
392	N776	-93.100187	5.851611	3	0
393	N777	-93.100187	5.851611	2	0
394	N778	-93.100187	-5.015667	2	0
395	N779	-93.100187	-4.179722	2	0
396	N780	-93.100187	-3.343778	2	0
397	N781	-93.100187	-2.507833	2	0
398	N782	-93.100187	-1.671889	2	0
399	N783	-93.100187	-0.835944	2	0
400	N784	-93.100187	-0.	2	0
401	N785	-93.100187	0.835944	2	0
402	N786	-93.100187	1.671889	2	0
403	N787	-93.100187	2.507833	2	0
404	N788	-93.100187	3.343778	2	0
405	N789	-93.100187	4.179722	2	0
406	N790	-93.100187	5.015667	2	0
407	N791	-93.100187	5.851611	2	0
408	N792	-93.100187	-5.851611	1	0
409	N793	-93.100187	-5.015667	1	0
410	N794	-93.100187	-4.179722	1	0
411	N795	-93.100187	-3.343778	1	0
412	N796	-93.100187	-2.507833	1	0
413	N797	-93.100187	-1.671889	1	0
414	N798	-93.100187	-0.835944	1	0
415	N799	-93.100187	-0.	1	0
416	N800	-93.100187	0.835944	1	0
417	N801	-93.100187	1.671889	1	0
418	N802	-93.100187	2.507833	1	0
419	N803	-93.100187	3.343778	1	0
420	N804	-93.100187	4.179722	1	0
421	N805	-93.100187	5.015667	1	0
422	N806	-93.100187	5.851611	1	0
423	N807	-93.100187	-5.851611	0	0
424	N808	-93.100187	-5.015667	0	0
425	N809	-93.100187	-4.179722	0	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
426 N810	-93.100187	-3.343778	0	0	
427 N811	-93.100187	-2.507833	0	0	
428 N812	-93.100187	-1.671889	0	0	
429 N813	-93.100187	-0.835944	0	0	
430 N814	-93.100187	-0.	0	0	
431 N815	-93.100187	0.835944	0	0	
432 N816	-93.100187	1.671889	0	0	
433 N817	-93.100187	2.507833	0	0	
434 N818	-93.100187	3.343778	0	0	
435 N819	-93.100187	4.179722	0	0	
436 N820	-93.100187	5.015667	0	0	
437 N821	-93.100187	5.851611	0	0	
438 N822	-93.100187	-5.851611	-1	0	
439 N823	-93.100187	-5.015667	-1	0	
440 N824	-93.100187	-4.179722	-1	0	
441 N825	-93.100187	-3.343778	-1	0	
442 N826	-93.100187	-2.507833	-1	0	
443 N827	-93.100187	-1.671889	-1	0	
444 N828	-93.100187	-0.835944	-1	0	
445 N829	-93.100187	-0.	-1	0	
446 N830	-93.100187	0.835944	-1	0	
447 N831	-93.100187	1.671889	-1	0	
448 N832	-93.100187	2.507833	-1	0	
449 N833	-93.100187	3.343778	-1	0	
450 N834	-93.100187	4.179722	-1	0	
451 N835	-93.100187	5.015667	-1	0	
452 N836	-93.100187	5.851611	-1	0	
453 N837	-93.100187	-5.851611	-2	0	
454 N838	-93.100187	-5.015667	-2	0	
455 N839	-93.100187	-4.179722	-2	0	
456 N840	-93.100187	-3.343778	-2	0	
457 N841	-93.100187	-2.507833	-2	0	
458 N842	-93.100187	-1.671889	-2	0	
459 N843	-93.100187	-0.835944	-2	0	
460 N844	-93.100187	-0.	-2	0	
461 N845	-93.100187	0.835944	-2	0	
462 N846	-93.100187	1.671889	-2	0	
463 N847	-93.100187	2.507833	-2	0	
464 N848	-93.100187	3.343778	-2	0	
465 N849	-93.100187	4.179722	-2	0	
466 N850	-93.100187	5.015667	-2	0	
467 N851	-93.100187	5.851611	-2	0	
468 N852	-93.100187	-5.851611	-3	0	
469 N853	-93.100187	-5.015667	-3	0	
470 N854	-93.100187	-4.179722	-3	0	
471 N855	-93.100187	-3.343778	-3	0	
472 N856	-93.100187	-2.507833	-3	0	
473 N857	-93.100187	-1.671889	-3	0	
474 N858	-93.100187	-0.835944	-3	0	
475 N859	-93.100187	-0.	-3	0	
476 N860	-93.100187	0.835944	-3	0	
477 N861	-93.100187	1.671889	-3	0	
478 N862	-93.100187	2.507833	-3	0	
479 N863	-93.100187	3.343778	-3	0	
480 N864	-93.100187	4.179722	-3	0	
481 N865	-93.100187	5.015667	-3	0	
482 N866	-93.100187	5.851611	-3	0	

Joint Coordinates and Temperatures (Continued)

Label		X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
483	N864A	46.425094	-80.410621	0	0	
484	N882	51.617738	-77.701321	3	0	
485	N883	50.893789	-78.119294	3	0	
486	N884	50.169839	-78.537266	3	0	
487	N885	49.44589	-78.955238	3	0	
488	N886	48.721941	-79.37321	3	0	
489	N887	47.997992	-79.791183	3	0	
490	N888	47.274043	-80.209155	3	0	
491	N889	46.550094	-80.627127	3	0	
492	N890	45.826144	-81.045099	3	0	
493	N891	45.102195	-81.463072	3	0	
494	N892	44.378246	-81.881044	3	0	
495	N893	43.654297	-82.299016	3	0	
496	N894	42.930348	-82.716988	3	0	
497	N895	42.206399	-83.134961	3	0	
498	N896	41.482449	-83.552933	3	0	
499	N897	51.617738	-77.701321	2	0	
500	N898	50.893789	-78.119294	2	0	
501	N899	50.169839	-78.537266	2	0	
502	N900	49.44589	-78.955238	2	0	
503	N901	48.721941	-79.37321	2	0	
504	N902	47.997992	-79.791183	2	0	
505	N903	47.274043	-80.209155	2	0	
506	N904	46.550094	-80.627127	2	0	
507	N905	45.826144	-81.045099	2	0	
508	N906	45.102195	-81.463072	2	0	
509	N907	44.378246	-81.881044	2	0	
510	N908	43.654297	-82.299016	2	0	
511	N909	42.930348	-82.716988	2	0	
512	N910	42.206399	-83.134961	2	0	
513	N911	41.482449	-83.552933	2	0	
514	N912	51.617738	-77.701321	1	0	
515	N913	50.893789	-78.119294	1	0	
516	N914	50.169839	-78.537266	1	0	
517	N915	49.44589	-78.955238	1	0	
518	N916	48.721941	-79.37321	1	0	
519	N917	47.997992	-79.791183	1	0	
520	N918	47.274043	-80.209155	1	0	
521	N919	46.550094	-80.627127	1	0	
522	N920	45.826144	-81.045099	1	0	
523	N921	45.102195	-81.463072	1	0	
524	N922	44.378246	-81.881044	1	0	
525	N923	43.654297	-82.299016	1	0	
526	N924	42.930348	-82.716988	1	0	
527	N925	42.206399	-83.134961	1	0	
528	N926	41.482449	-83.552933	1	0	
529	N927	51.617738	-77.701321	0	0	
530	N928	50.893789	-78.119294	0	0	
531	N929	50.169839	-78.537266	0	0	
532	N930	49.44589	-78.955238	0	0	
533	N931	48.721941	-79.37321	0	0	
534	N932	47.997992	-79.791183	0	0	
535	N933	47.274043	-80.209155	0	0	
536	N934	46.550094	-80.627127	0	0	
537	N935	45.826144	-81.045099	0	0	
538	N936	45.102195	-81.463072	0	0	
539	N937	44.378246	-81.881044	0	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
540 N938	43.654297	-82.299016	0	0	
541 N939	42.930348	-82.716988	0	0	
542 N940	42.206399	-83.134961	0	0	
543 N941	41.482449	-83.552933	0	0	
544 N942	51.617738	-77.701321	-1	0	
545 N943	50.893789	-78.119294	-1	0	
546 N944	50.169839	-78.537266	-1	0	
547 N945	49.44589	-78.955238	-1	0	
548 N946	48.721941	-79.37321	-1	0	
549 N947	47.997992	-79.791183	-1	0	
550 N948	47.274043	-80.209155	-1	0	
551 N949	46.550094	-80.627127	-1	0	
552 N950	45.826144	-81.045099	-1	0	
553 N951	45.102195	-81.463072	-1	0	
554 N952	44.378246	-81.881044	-1	0	
555 N953	43.654297	-82.299016	-1	0	
556 N954	42.930348	-82.716988	-1	0	
557 N955	42.206399	-83.134961	-1	0	
558 N956	41.482449	-83.552933	-1	0	
559 N957	51.617738	-77.701321	-2	0	
560 N958	50.893789	-78.119294	-2	0	
561 N959	50.169839	-78.537266	-2	0	
562 N960	49.44589	-78.955238	-2	0	
563 N961	48.721941	-79.37321	-2	0	
564 N962	47.997992	-79.791183	-2	0	
565 N963	47.274043	-80.209155	-2	0	
566 N964	46.550094	-80.627127	-2	0	
567 N965	45.826144	-81.045099	-2	0	
568 N966	45.102195	-81.463072	-2	0	
569 N967	44.378246	-81.881044	-2	0	
570 N968	43.654297	-82.299016	-2	0	
571 N969	42.930348	-82.716988	-2	0	
572 N970	42.206399	-83.134961	-2	0	
573 N971	41.482449	-83.552933	-2	0	
574 N972	51.617738	-77.701321	-3	0	
575 N973	50.893789	-78.119294	-3	0	
576 N974	50.169839	-78.537266	-3	0	
577 N975	49.44589	-78.955238	-3	0	
578 N976	48.721941	-79.37321	-3	0	
579 N977	47.997992	-79.791183	-3	0	
580 N978	47.274043	-80.209155	-3	0	
581 N979	46.550094	-80.627127	-3	0	
582 N980	45.826144	-81.045099	-3	0	
583 N981	45.102195	-81.463072	-3	0	
584 N982	44.378246	-81.881044	-3	0	
585 N983	43.654297	-82.299016	-3	0	
586 N984	42.930348	-82.716988	-3	0	
587 N985	42.206399	-83.134961	-3	0	
588 N986	41.482449	-83.552933	-3	0	
589 N990	46.425094	80.410621	0	0	
590 N1008	41.482449	83.552933	3	0	
591 N1009	42.206399	83.134961	3	0	
592 N1010	42.930348	82.716988	3	0	
593 N1011	43.654297	82.299016	3	0	
594 N1012	44.378246	81.881044	3	0	
595 N1013	45.102195	81.463072	3	0	
596 N1014	45.826144	81.045099	3	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
597 N1015	46.550094	80.627127	3	0	
598 N1016	47.274043	80.209155	3	0	
599 N1017	47.997992	79.791183	3	0	
600 N1018	48.721941	79.37321	3	0	
601 N1019	49.44589	78.955238	3	0	
602 N1020	50.169839	78.537266	3	0	
603 N1021	50.893789	78.119294	3	0	
604 N1022	51.617738	77.701321	3	0	
605 N1023	41.482449	83.552933	2	0	
606 N1024	42.206399	83.134961	2	0	
607 N1025	42.930348	82.716988	2	0	
608 N1026	43.654297	82.299016	2	0	
609 N1027	44.378246	81.881044	2	0	
610 N1028	45.102195	81.463072	2	0	
611 N1029	45.826144	81.045099	2	0	
612 N1030	46.550094	80.627127	2	0	
613 N1031	47.274043	80.209155	2	0	
614 N1032	47.997992	79.791183	2	0	
615 N1033	48.721941	79.37321	2	0	
616 N1034	49.44589	78.955238	2	0	
617 N1035	50.169839	78.537266	2	0	
618 N1036	50.893789	78.119294	2	0	
619 N1037	51.617738	77.701321	2	0	
620 N1038	41.482449	83.552933	1	0	
621 N1039	42.206399	83.134961	1	0	
622 N1040	42.930348	82.716988	1	0	
623 N1041	43.654297	82.299016	1	0	
624 N1042	44.378246	81.881044	1	0	
625 N1043	45.102195	81.463072	1	0	
626 N1044	45.826144	81.045099	1	0	
627 N1045	46.550094	80.627127	1	0	
628 N1046	47.274043	80.209155	1	0	
629 N1047	47.997992	79.791183	1	0	
630 N1048	48.721941	79.37321	1	0	
631 N1049	49.44589	78.955238	1	0	
632 N1050	50.169839	78.537266	1	0	
633 N1051	50.893789	78.119294	1	0	
634 N1052	51.617738	77.701321	1	0	
635 N1053	41.482449	83.552933	0	0	
636 N1054	42.206399	83.134961	0	0	
637 N1055	42.930348	82.716988	0	0	
638 N1056	43.654297	82.299016	0	0	
639 N1057	44.378246	81.881044	0	0	
640 N1058	45.102195	81.463072	0	0	
641 N1059	45.826144	81.045099	0	0	
642 N1060	46.550094	80.627127	0	0	
643 N1061	47.274043	80.209155	0	0	
644 N1062	47.997992	79.791183	0	0	
645 N1063	48.721941	79.37321	0	0	
646 N1064	49.44589	78.955238	0	0	
647 N1065	50.169839	78.537266	0	0	
648 N1066	50.893789	78.119294	0	0	
649 N1067	51.617738	77.701321	0	0	
650 N1068	41.482449	83.552933	-1	0	
651 N1069	42.206399	83.134961	-1	0	
652 N1070	42.930348	82.716988	-1	0	
653 N1071	43.654297	82.299016	-1	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
654 N1072	44.378246	81.881044	-1	0	
655 N1073	45.102195	81.463072	-1	0	
656 N1074	45.826144	81.045099	-1	0	
657 N1075	46.550094	80.627127	-1	0	
658 N1076	47.274043	80.209155	-1	0	
659 N1077	47.997992	79.791183	-1	0	
660 N1078	48.721941	79.37321	-1	0	
661 N1079	49.44589	78.955238	-1	0	
662 N1080	50.169839	78.537266	-1	0	
663 N1081	50.893789	78.119294	-1	0	
664 N1082	51.617738	77.701321	-1	0	
665 N1083	41.482449	83.552933	-2	0	
666 N1084	42.206399	83.134961	-2	0	
667 N1085	42.930348	82.716988	-2	0	
668 N1086	43.654297	82.299016	-2	0	
669 N1087	44.378246	81.881044	-2	0	
670 N1088	45.102195	81.463072	-2	0	
671 N1089	45.826144	81.045099	-2	0	
672 N1090	46.550094	80.627127	-2	0	
673 N1091	47.274043	80.209155	-2	0	
674 N1092	47.997992	79.791183	-2	0	
675 N1093	48.721941	79.37321	-2	0	
676 N1094	49.44589	78.955238	-2	0	
677 N1095	50.169839	78.537266	-2	0	
678 N1096	50.893789	78.119294	-2	0	
679 N1097	51.617738	77.701321	-2	0	
680 N1098	41.482449	83.552933	-3	0	
681 N1099	42.206399	83.134961	-3	0	
682 N1100	42.930348	82.716988	-3	0	
683 N1101	43.654297	82.299016	-3	0	
684 N1102	44.378246	81.881044	-3	0	
685 N1103	45.102195	81.463072	-3	0	
686 N1104	45.826144	81.045099	-3	0	
687 N1105	46.550094	80.627127	-3	0	
688 N1106	47.274043	80.209155	-3	0	
689 N1107	47.997992	79.791183	-3	0	
690 N1108	48.721941	79.37321	-3	0	
691 N1109	49.44589	78.955238	-3	0	
692 N1110	50.169839	78.537266	-3	0	
693 N1111	50.893789	78.119294	-3	0	
694 N1112	51.617738	77.701321	-3	0	
695 N1073B	-45.906026	-30.687522	3	0	
696 N1074A	-45.906026	-30.687522	-3	0	
697 N1073A	-46.864359	-30.687522	3	0	
698 N1074B	-47.822693	-30.687522	3	0	
699 N1075A	-48.781026	-30.687522	3	0	
700 N1076A	-49.739359	-30.687522	3	0	
701 N1077A	-50.697693	-30.687522	3	0	
702 N1078A	-45.906026	-30.687522	2	0	
703 N1079A	-46.864359	-30.687522	2	0	
704 N1080A	-47.822693	-30.687522	2	0	
705 N1081A	-48.781026	-30.687522	2	0	
706 N1082A	-49.739359	-30.687522	2	0	
707 N1083A	-50.697693	-30.687522	2	0	
708 N1084A	-45.906026	-30.687522	1	0	
709 N1085A	-46.864359	-30.687522	1	0	
710 N1086A	-47.822693	-30.687522	1	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
711	N1087A	-48.781026	-30.687522	1	0
712	N1088A	-49.739359	-30.687522	1	0
713	N1089A	-50.697693	-30.687522	1	0
714	N1090A	-45.906026	-30.687522	0	0
715	N1091A	-46.864359	-30.687522	0	0
716	N1092A	-47.822693	-30.687522	0	0
717	N1093A	-48.781026	-30.687522	0	0
718	N1094A	-49.739359	-30.687522	0	0
719	N1095A	-50.697693	-30.687522	0	0
720	N1096A	-45.906026	-30.687522	-1	0
721	N1097A	-46.864359	-30.687522	-1	0
722	N1098A	-47.822693	-30.687522	-1	0
723	N1099A	-48.781026	-30.687522	-1	0
724	N1100A	-49.739359	-30.687522	-1	0
725	N1101A	-50.697693	-30.687522	-1	0
726	N1102A	-45.906026	-30.687522	-2	0
727	N1103A	-46.864359	-30.687522	-2	0
728	N1104A	-47.822693	-30.687522	-2	0
729	N1105A	-48.781026	-30.687522	-2	0
730	N1106A	-49.739359	-30.687522	-2	0
731	N1107A	-50.697693	-30.687522	-2	0
732	N1108A	-46.864359	-30.687522	-3	0
733	N1109A	-47.822693	-30.687522	-3	0
734	N1110A	-48.781026	-30.687522	-3	0
735	N1111A	-49.739359	-30.687522	-3	0
736	N1112A	-50.697693	-30.687522	-3	0
737	N1121	-45.906026	30.687522	3	0
738	N1122	-45.906026	30.687522	-3	0
739	N1123	-46.864359	30.687522	3	0
740	N1124	-47.822693	30.687522	3	0
741	N1125	-48.781026	30.687522	3	0
742	N1126	-49.739359	30.687522	3	0
743	N1127	-50.697693	30.687522	3	0
744	N1128	-45.906026	30.687522	2	0
745	N1129	-46.864359	30.687522	2	0
746	N1130	-47.822693	30.687522	2	0
747	N1131	-48.781026	30.687522	2	0
748	N1132	-49.739359	30.687522	2	0
749	N1133	-50.697693	30.687522	2	0
750	N1134	-45.906026	30.687522	1	0
751	N1135	-46.864359	30.687522	1	0
752	N1136	-47.822693	30.687522	1	0
753	N1137	-48.781026	30.687522	1	0
754	N1138	-49.739359	30.687522	1	0
755	N1139	-50.697693	30.687522	1	0
756	N1140	-45.906026	30.687522	0	0
757	N1141	-46.864359	30.687522	0	0
758	N1142	-47.822693	30.687522	0	0
759	N1143	-48.781026	30.687522	0	0
760	N1144	-49.739359	30.687522	0	0
761	N1145	-50.697693	30.687522	0	0
762	N1146	-45.906026	30.687522	-1	0
763	N1147	-46.864359	30.687522	-1	0
764	N1148	-47.822693	30.687522	-1	0
765	N1149	-48.781026	30.687522	-1	0
766	N1150	-49.739359	30.687522	-1	0
767	N1151	-50.697693	30.687522	-1	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
768 N1152	-45.906026	30.687522	-2	0	
769 N1153	-46.864359	30.687522	-2	0	
770 N1154	-47.822693	30.687522	-2	0	
771 N1155	-48.781026	30.687522	-2	0	
772 N1156	-49.739359	30.687522	-2	0	
773 N1157	-50.697693	30.687522	-2	0	
774 N1158	-46.864359	30.687522	-3	0	
775 N1159	-47.822693	30.687522	-3	0	
776 N1160	-48.781026	30.687522	-3	0	
777 N1161	-49.739359	30.687522	-3	0	
778 N1162	-50.697693	30.687522	-3	0	
779 N1149A	50.75018	-27.026846	0	0	
780 N1150A	-1.968808	-57.464169	0	0	
781 N1164	49.529187	-24.412023	3	0	
782 N1165	49.529187	-24.412023	-3	0	
783 N1166	50.008353	-25.241964	3	0	
784 N1167	50.48752	-26.071905	3	0	
785 N1168	50.966687	-26.901846	3	0	
786 N1169	51.445853	-27.731788	3	0	
787 N1170	51.92502	-28.561729	3	0	
788 N1171	49.529187	-24.412023	2	0	
789 N1172	50.008353	-25.241964	2	0	
790 N1173	50.48752	-26.071905	2	0	
791 N1174	50.966687	-26.901846	2	0	
792 N1175	51.445853	-27.731788	2	0	
793 N1176	51.92502	-28.561729	2	0	
794 N1177	49.529187	-24.412023	1	0	
795 N1178	50.008353	-25.241964	1	0	
796 N1179	50.48752	-26.071905	1	0	
797 N1180	50.966687	-26.901846	1	0	
798 N1181	51.445853	-27.731788	1	0	
799 N1182	51.92502	-28.561729	1	0	
800 N1183	49.529187	-24.412023	0	0	
801 N1184	50.008353	-25.241964	0	0	
802 N1185	50.48752	-26.071905	0	0	
803 N1186	50.966687	-26.901846	0	0	
804 N1187	51.445853	-27.731788	0	0	
805 N1188	51.92502	-28.561729	0	0	
806 N1189	49.529187	-24.412023	-1	0	
807 N1190	50.008353	-25.241964	-1	0	
808 N1191	50.48752	-26.071905	-1	0	
809 N1192	50.966687	-26.901846	-1	0	
810 N1193	51.445853	-27.731788	-1	0	
811 N1194	51.92502	-28.561729	-1	0	
812 N1195	49.529187	-24.412023	-2	0	
813 N1196	50.008353	-25.241964	-2	0	
814 N1197	50.48752	-26.071905	-2	0	
815 N1198	50.966687	-26.901846	-2	0	
816 N1199	51.445853	-27.731788	-2	0	
817 N1200	51.92502	-28.561729	-2	0	
818 N1201	50.008353	-25.241964	-3	0	
819 N1202	50.48752	-26.071905	-3	0	
820 N1203	50.966687	-26.901846	-3	0	
821 N1204	51.445853	-27.731788	-3	0	
822 N1205	51.92502	-28.561729	-3	0	
823 N1206	-3.623161	-55.099546	3	0	
824 N1207	-3.623161	-55.099546	-3	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
825 N1208	-3.143994	-55.929487	3	0	
826 N1209	-2.664828	-56.759428	3	0	
827 N1210	-2.185661	-57.589369	3	0	
828 N1211	-1.706494	-58.41931	3	0	
829 N1212	-1.227328	-59.249251	3	0	
830 N1213	-3.623161	-55.099546	2	0	
831 N1214	-3.143994	-55.929487	2	0	
832 N1215	-2.664828	-56.759428	2	0	
833 N1216	-2.185661	-57.589369	2	0	
834 N1217	-1.706494	-58.41931	2	0	
835 N1218	-1.227328	-59.249251	2	0	
836 N1219	-3.623161	-55.099546	1	0	
837 N1220	-3.143994	-55.929487	1	0	
838 N1221	-2.664828	-56.759428	1	0	
839 N1222	-2.185661	-57.589369	1	0	
840 N1223	-1.706494	-58.41931	1	0	
841 N1224	-1.227328	-59.249251	1	0	
842 N1225	-3.623161	-55.099546	0	0	
843 N1226	-3.143994	-55.929487	0	0	
844 N1227	-2.664828	-56.759428	0	0	
845 N1228	-2.185661	-57.589369	0	0	
846 N1229	-1.706494	-58.41931	0	0	
847 N1230	-1.227328	-59.249251	0	0	
848 N1231	-3.623161	-55.099546	-1	0	
849 N1232	-3.143994	-55.929487	-1	0	
850 N1233	-2.664828	-56.759428	-1	0	
851 N1234	-2.185661	-57.589369	-1	0	
852 N1235	-1.706494	-58.41931	-1	0	
853 N1236	-1.227328	-59.249251	-1	0	
854 N1237	-3.623161	-55.099546	-2	0	
855 N1238	-3.143994	-55.929487	-2	0	
856 N1239	-2.664828	-56.759428	-2	0	
857 N1240	-2.185661	-57.589369	-2	0	
858 N1241	-1.706494	-58.41931	-2	0	
859 N1242	-1.227328	-59.249251	-2	0	
860 N1243	-3.143994	-55.929487	-3	0	
861 N1244	-2.664828	-56.759428	-3	0	
862 N1245	-2.185661	-57.589369	-3	0	
863 N1246	-1.706494	-58.41931	-3	0	
864 N1247	-1.227328	-59.249251	-3	0	
865 N1250	-1.969155	57.464369	0	0	
866 N1251	50.749834	27.027046	0	0	
867 N1265	-3.623161	55.099546	3	0	
868 N1266	-3.623161	55.099546	-3	0	
869 N1267	-3.143994	55.929487	3	0	
870 N1268	-2.664828	56.759428	3	0	
871 N1269	-2.185661	57.589369	3	0	
872 N1270	-1.706494	58.41931	3	0	
873 N1271	-1.227328	59.249251	3	0	
874 N1272	-3.623161	55.099546	2	0	
875 N1273	-3.143994	55.929487	2	0	
876 N1274	-2.664828	56.759428	2	0	
877 N1275	-2.185661	57.589369	2	0	
878 N1276	-1.706494	58.41931	2	0	
879 N1277	-1.227328	59.249251	2	0	
880 N1278	-3.623161	55.099546	1	0	
881 N1279	-3.143994	55.929487	1	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
882	N1280	-2.664828	56.759428	1	0
883	N1281	-2.185661	57.589369	1	0
884	N1282	-1.706494	58.41931	1	0
885	N1283	-1.227328	59.249251	1	0
886	N1284	-3.623161	55.099546	0	0
887	N1285	-3.143994	55.929487	0	0
888	N1286	-2.664828	56.759428	0	0
889	N1287	-2.185661	57.589369	0	0
890	N1288	-1.706494	58.41931	0	0
891	N1289	-1.227328	59.249251	0	0
892	N1290	-3.623161	55.099546	-1	0
893	N1291	-3.143994	55.929487	-1	0
894	N1292	-2.664828	56.759428	-1	0
895	N1293	-2.185661	57.589369	-1	0
896	N1294	-1.706494	58.41931	-1	0
897	N1295	-1.227328	59.249251	-1	0
898	N1296	-3.623161	55.099546	-2	0
899	N1297	-3.143994	55.929487	-2	0
900	N1298	-2.664828	56.759428	-2	0
901	N1299	-2.185661	57.589369	-2	0
902	N1300	-1.706494	58.41931	-2	0
903	N1301	-1.227328	59.249251	-2	0
904	N1302	-3.143994	55.929487	-3	0
905	N1303	-2.664828	56.759428	-3	0
906	N1304	-2.185661	57.589369	-3	0
907	N1305	-1.706494	58.41931	-3	0
908	N1306	-1.227328	59.249251	-3	0
909	N1307	49.529187	24.412023	3	0
910	N1308	49.529187	24.412023	-3	0
911	N1309	50.008353	25.241964	3	0
912	N1310	50.48752	26.071905	3	0
913	N1311	50.966687	26.901846	3	0
914	N1312	51.445853	27.731788	3	0
915	N1313	51.92502	28.561729	3	0
916	N1314	49.529187	24.412023	2	0
917	N1315	50.008353	25.241964	2	0
918	N1316	50.48752	26.071905	2	0
919	N1317	50.966687	26.901846	2	0
920	N1318	51.445853	27.731788	2	0
921	N1319	51.92502	28.561729	2	0
922	N1320	49.529187	24.412023	1	0
923	N1321	50.008353	25.241964	1	0
924	N1322	50.48752	26.071905	1	0
925	N1323	50.966687	26.901846	1	0
926	N1324	51.445853	27.731788	1	0
927	N1325	51.92502	28.561729	1	0
928	N1326	49.529187	24.412023	0	0
929	N1327	50.008353	25.241964	0	0
930	N1328	50.48752	26.071905	0	0
931	N1329	50.966687	26.901846	0	0
932	N1330	51.445853	27.731788	0	0
933	N1331	51.92502	28.561729	0	0
934	N1332	49.529187	24.412023	-1	0
935	N1333	50.008353	25.241964	-1	0
936	N1334	50.48752	26.071905	-1	0
937	N1335	50.966687	26.901846	-1	0
938	N1336	51.445853	27.731788	-1	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
939 N1337	51.92502	28.561729	-1	0	
940 N1338	49.529187	24.412023	-2	0	
941 N1339	50.008353	25.241964	-2	0	
942 N1340	50.48752	26.071905	-2	0	
943 N1341	50.966687	26.901846	-2	0	
944 N1342	51.445853	27.731788	-2	0	
945 N1343	51.92502	28.561729	-2	0	
946 N1344	50.008353	25.241964	-3	0	
947 N1345	50.48752	26.071905	-3	0	
948 N1346	50.966687	26.901846	-3	0	
949 N1347	51.445853	27.731788	-3	0	
950 N1348	51.92502	28.561729	-3	0	
951 N1239A	52.341687	-75.754049	3	0	
952 N1240A	52.341687	-75.754049	-3	0	
953 N1241A	52.341687	-74.22475	3	0	
954 N1242A	52.341687	-74.22475	-3	0	
955 N1243A	52.341687	-76.773583	3	0	
956 N1244A	52.341687	-76.263816	3	0	
957 N1245A	52.341687	-75.244283	3	0	
958 N1246A	52.341687	-74.734516	3	0	
959 N1247A	52.341687	-76.773583	2	0	
960 N1248	52.341687	-76.263816	2	0	
961 N1249	52.341687	-75.244283	2	0	
962 N1250A	52.341687	-74.734516	2	0	
963 N1251A	52.341687	-74.22475	2	0	
964 N1252	52.341687	-76.773583	1	0	
965 N1253	52.341687	-76.263816	1	0	
966 N1254	52.341687	-75.754049	1	0	
967 N1255	52.341687	-75.244283	1	0	
968 N1256	52.341687	-74.734516	1	0	
969 N1257	52.341687	-74.22475	1	0	
970 N1258	52.341687	-76.773583	0	0	
971 N1259	52.341687	-76.263816	0	0	
972 N1260	52.341687	-75.754049	0	0	
973 N1261	52.341687	-75.244283	0	0	
974 N1262	52.341687	-74.734516	0	0	
975 N1263	52.341687	-74.22475	0	0	
976 N1264	52.341687	-76.773583	-1	0	
977 N1265A	52.341687	-76.263816	-1	0	
978 N1266A	52.341687	-75.754049	-1	0	
979 N1267A	52.341687	-75.244283	-1	0	
980 N1268A	52.341687	-74.734516	-1	0	
981 N1269A	52.341687	-74.22475	-1	0	
982 N1270A	52.341687	-76.773583	-2	0	
983 N1271A	52.341687	-76.263816	-2	0	
984 N1272A	52.341687	-75.244283	-2	0	
985 N1273A	52.341687	-74.734516	-2	0	
986 N1274A	52.341687	-74.22475	-2	0	
987 N1275A	52.341687	-76.773583	-3	0	
988 N1276A	52.341687	-76.263816	-3	0	
989 N1277A	52.341687	-75.244283	-3	0	
990 N1278A	52.341687	-74.734516	-3	0	
991 N1095B	54.341687	75.754049	0	0	
992 N1098B	54.341687	75.754049	2	0	
993 N1099B	52.341687	75.754049	2	0	
994 N1100B	54.341687	75.754049	-2	0	
995 N1101B	52.341687	75.754049	-2	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
996 N1106B	52.341687	75.754049	3	0	
997 N1107B	52.341687	75.754049	-3	0	
998 N1108B	52.341687	74.22475	3	0	
999 N1109B	52.341687	74.22475	-3	0	
1000 N1110B	52.341687	76.773583	3	0	
1001 N1111B	52.341687	76.263816	3	0	
1002 N1112B	52.341687	75.244283	3	0	
1003 N1113	52.341687	74.734516	3	0	
1004 N1114	52.341687	76.773583	2	0	
1005 N1115	52.341687	76.263816	2	0	
1006 N1116	52.341687	75.244283	2	0	
1007 N1117	52.341687	74.734516	2	0	
1008 N1118	52.341687	74.22475	2	0	
1009 N1119	52.341687	76.773583	1	0	
1010 N1120	52.341687	76.263816	1	0	
1011 N1121A	52.341687	75.754049	1	0	
1012 N1122A	52.341687	75.244283	1	0	
1013 N1123A	52.341687	74.734516	1	0	
1014 N1124A	52.341687	74.22475	1	0	
1015 N1125A	52.341687	76.773583	0	0	
1016 N1126A	52.341687	76.263816	0	0	
1017 N1127A	52.341687	75.754049	0	0	
1018 N1128A	52.341687	75.244283	0	0	
1019 N1129A	52.341687	74.734516	0	0	
1020 N1130A	52.341687	74.22475	0	0	
1021 N1131A	52.341687	76.773583	-1	0	
1022 N1132A	52.341687	76.263816	-1	0	
1023 N1133A	52.341687	75.754049	-1	0	
1024 N1134A	52.341687	75.244283	-1	0	
1025 N1135A	52.341687	74.734516	-1	0	
1026 N1136A	52.341687	74.22475	-1	0	
1027 N1137A	52.341687	76.773583	-2	0	
1028 N1138A	52.341687	76.263816	-2	0	
1029 N1139A	52.341687	75.244283	-2	0	
1030 N1140A	52.341687	74.734516	-2	0	
1031 N1141A	52.341687	74.22475	-2	0	
1032 N1142A	52.341687	76.773583	-3	0	
1033 N1143A	52.341687	76.263816	-3	0	
1034 N1144A	52.341687	75.244283	-3	0	
1035 N1145A	52.341687	74.734516	-3	0	
1036 N1140B	38.434087	84.938306	0	0	
1037 N1144B	38.434087	84.938306	2	0	
1038 N1145B	39.434087	83.206255	2	0	
1039 N1146A	38.434087	84.938306	-2	0	
1040 N1147A	39.434087	83.206255	-2	0	
1041 N1158A	39.434087	83.206255	3	0	
1042 N1159A	39.434087	83.206255	-3	0	
1043 N1160A	38.109675	82.441605	3	0	
1044 N1161A	38.109675	82.441605	-3	0	
1045 N1162A	40.317029	83.716022	3	0	
1046 N1163	39.875559	83.461138	3	0	
1047 N1164A	38.992617	82.951372	3	0	
1048 N1165A	38.551146	82.696489	3	0	
1049 N1166A	40.317029	83.716022	2	0	
1050 N1167A	39.875559	83.461138	2	0	
1051 N1168A	38.992617	82.951372	2	0	
1052 N1169A	38.551146	82.696489	2	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1053 N1170A	38.109675	82.441605	2	0	
1054 N1171A	40.317029	83.716022	1	0	
1055 N1172A	39.875559	83.461138	1	0	
1056 N1173A	39.434088	83.206255	1	0	
1057 N1174A	38.992617	82.951372	1	0	
1058 N1175A	38.551146	82.696489	1	0	
1059 N1176A	38.109675	82.441605	1	0	
1060 N1177A	40.317029	83.716022	0	0	
1061 N1178A	39.875559	83.461138	0	0	
1062 N1179A	39.434088	83.206255	0	0	
1063 N1180A	38.992617	82.951372	0	0	
1064 N1181A	38.551146	82.696489	0	0	
1065 N1182A	38.109675	82.441605	0	0	
1066 N1183A	40.317029	83.716022	-1	0	
1067 N1184A	39.875559	83.461138	-1	0	
1068 N1185A	39.434088	83.206255	-1	0	
1069 N1186A	38.992617	82.951372	-1	0	
1070 N1187A	38.551146	82.696489	-1	0	
1071 N1188A	38.109675	82.441605	-1	0	
1072 N1189A	40.317029	83.716022	-2	0	
1073 N1190A	39.875559	83.461138	-2	0	
1074 N1191A	38.992617	82.951372	-2	0	
1075 N1192A	38.551146	82.696489	-2	0	
1076 N1193A	38.109675	82.441605	-2	0	
1077 N1194A	40.317029	83.716022	-3	0	
1078 N1195A	39.875559	83.461138	-3	0	
1079 N1196A	38.992617	82.951372	-3	0	
1080 N1197A	38.551146	82.696489	-3	0	
1081 N1198A	-92.775774	9.184257	0	0	
1082 N1199A	-92.775774	9.184257	2	0	
1083 N1200A	-91.775774	7.452206	2	0	
1084 N1201A	-92.775774	9.184257	-2	0	
1085 N1202A	-91.775774	7.452206	-2	0	
1086 N1203A	-91.775774	7.452206	3	0	
1087 N1204A	-91.775774	7.452206	-3	0	
1088 N1205A	-90.451362	8.216856	3	0	
1089 N1206A	-90.451362	8.216856	-3	0	
1090 N1207A	-92.658716	6.942439	3	0	
1091 N1208A	-92.217245	7.197322	3	0	
1092 N1209A	-91.334304	7.707089	3	0	
1093 N1210A	-90.892833	7.961972	3	0	
1094 N1211A	-92.658716	6.942439	2	0	
1095 N1212A	-92.217245	7.197322	2	0	
1096 N1213A	-91.334304	7.707089	2	0	
1097 N1214A	-90.892833	7.961972	2	0	
1098 N1215A	-90.451362	8.216856	2	0	
1099 N1216A	-92.658716	6.942439	1	0	
1100 N1217A	-92.217245	7.197322	1	0	
1101 N1218A	-91.775775	7.452206	1	0	
1102 N1219A	-91.334304	7.707089	1	0	
1103 N1220A	-90.892833	7.961972	1	0	
1104 N1221A	-90.451362	8.216856	1	0	
1105 N1222A	-92.658716	6.942439	0	0	
1106 N1223A	-92.217245	7.197322	0	0	
1107 N1224A	-91.775775	7.452206	0	0	
1108 N1225A	-91.334304	7.707089	0	0	
1109 N1226A	-90.892833	7.961972	0	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1110	N1227A	-90.451362	8.216856	0	0
1111	N1228A	-92.658716	6.942439	-1	0
1112	N1229A	-92.217245	7.197322	-1	0
1113	N1230A	-91.775775	7.452206	-1	0
1114	N1231A	-91.334304	7.707089	-1	0
1115	N1232A	-90.892833	7.961972	-1	0
1116	N1233A	-90.451362	8.216856	-1	0
1117	N1234A	-92.658716	6.942439	-2	0
1118	N1235A	-92.217245	7.197322	-2	0
1119	N1236A	-91.334304	7.707089	-2	0
1120	N1237A	-90.892833	7.961972	-2	0
1121	N1238A	-90.451362	8.216856	-2	0
1122	N1239B	-92.658716	6.942439	-3	0
1123	N1240B	-92.217245	7.197322	-3	0
1124	N1241B	-91.334304	7.707089	-3	0
1125	N1242B	-90.892833	7.961972	-3	0
1126	N1244B	-92.775774	-9.184257	0	0
1127	N1248A	-92.775774	-9.184257	2	0
1128	N1249A	-91.775774	-7.452206	2	0
1129	N1250B	-92.775774	-9.184257	-2	0
1130	N1251B	-91.775774	-7.452206	-2	0
1131	N1262A	-91.775774	-7.452206	3	0
1132	N1263A	-91.775774	-7.452206	-3	0
1133	N1264A	-90.451362	-8.216856	3	0
1134	N1265B	-90.451362	-8.216856	-3	0
1135	N1266B	-92.658716	-6.942439	3	0
1136	N1267B	-92.217245	-7.197322	3	0
1137	N1268B	-91.334304	-7.707089	3	0
1138	N1269B	-90.892833	-7.961972	3	0
1139	N1270B	-92.658716	-6.942439	2	0
1140	N1271B	-92.217245	-7.197322	2	0
1141	N1272B	-91.334304	-7.707089	2	0
1142	N1273B	-90.892833	-7.961972	2	0
1143	N1274B	-90.451362	-8.216856	2	0
1144	N1275B	-92.658716	-6.942439	1	0
1145	N1276B	-92.217245	-7.197322	1	0
1146	N1277B	-91.775775	-7.452206	1	0
1147	N1278B	-91.334304	-7.707089	1	0
1148	N1279A	-90.892833	-7.961972	1	0
1149	N1280A	-90.451362	-8.216856	1	0
1150	N1281A	-92.658716	-6.942439	0	0
1151	N1282A	-92.217245	-7.197322	0	0
1152	N1283A	-91.775775	-7.452206	0	0
1153	N1284A	-91.334304	-7.707089	0	0
1154	N1285A	-90.892833	-7.961972	0	0
1155	N1286A	-90.451362	-8.216856	0	0
1156	N1287A	-92.658716	-6.942439	-1	0
1157	N1288A	-92.217245	-7.197322	-1	0
1158	N1289A	-91.775775	-7.452206	-1	0
1159	N1290A	-91.334304	-7.707089	-1	0
1160	N1291A	-90.892833	-7.961972	-1	0
1161	N1292A	-90.451362	-8.216856	-1	0
1162	N1293A	-92.658716	-6.942439	-2	0
1163	N1294A	-92.217245	-7.197322	-2	0
1164	N1295A	-91.334304	-7.707089	-2	0
1165	N1296A	-90.892833	-7.961972	-2	0
1166	N1297A	-90.451362	-8.216856	-2	0

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1167 N1298A	-92.658716	-6.942439	-3	0	
1168 N1299A	-92.217245	-7.197322	-3	0	
1169 N1300A	-91.334304	-7.707089	-3	0	
1170 N1301A	-90.892833	-7.961972	-3	0	
1171 N1302A	38.434087	-84.938306	0	0	
1172 N1303A	38.434087	-84.938306	2	0	
1173 N1304A	39.434087	-83.206255	2	0	
1174 N1305A	38.434087	-84.938306	-2	0	
1175 N1306A	39.434087	-83.206255	-2	0	
1176 N1307A	39.434087	-83.206255	3	0	
1177 N1308A	39.434087	-83.206255	-3	0	
1178 N1309A	38.109675	-82.441605	3	0	
1179 N1310A	38.109675	-82.441605	-3	0	
1180 N1311A	40.317029	-83.716022	3	0	
1181 N1312A	39.875559	-83.461138	3	0	
1182 N1313A	38.992617	-82.951372	3	0	
1183 N1314A	38.551146	-82.696489	3	0	
1184 N1315A	40.317029	-83.716022	2	0	
1185 N1316A	39.875559	-83.461138	2	0	
1186 N1317A	38.992617	-82.951372	2	0	
1187 N1318A	38.551146	-82.696489	2	0	
1188 N1319A	38.109675	-82.441605	2	0	
1189 N1320A	40.317029	-83.716022	1	0	
1190 N1321A	39.875559	-83.461138	1	0	
1191 N1322A	39.434088	-83.206255	1	0	
1192 N1323A	38.992617	-82.951372	1	0	
1193 N1324A	38.551146	-82.696489	1	0	
1194 N1325A	38.109675	-82.441605	1	0	
1195 N1326A	40.317029	-83.716022	0	0	
1196 N1327A	39.875559	-83.461138	0	0	
1197 N1328A	39.434088	-83.206255	0	0	
1198 N1329A	38.992617	-82.951372	0	0	
1199 N1330A	38.551146	-82.696489	0	0	
1200 N1331A	38.109675	-82.441605	0	0	
1201 N1332A	40.317029	-83.716022	-1	0	
1202 N1333A	39.875559	-83.461138	-1	0	
1203 N1334A	39.434088	-83.206255	-1	0	
1204 N1335A	38.992617	-82.951372	-1	0	
1205 N1336A	38.551146	-82.696489	-1	0	
1206 N1337A	38.109675	-82.441605	-1	0	
1207 N1338A	40.317029	-83.716022	-2	0	
1208 N1339A	39.875559	-83.461138	-2	0	
1209 N1340A	38.992617	-82.951372	-2	0	
1210 N1341A	38.551146	-82.696489	-2	0	
1211 N1342A	38.109675	-82.441605	-2	0	
1212 N1343A	40.317029	-83.716022	-3	0	
1213 N1344A	39.875559	-83.461138	-3	0	
1214 N1345A	38.992617	-82.951372	-3	0	
1215 N1346A	38.551146	-82.696489	-3	0	
1216 N1222B	57.654187	-72.	78	0	
1217 N1223B	57.654187	-72.	6	0	
1218 A4T	65.654187	-72.	78	0	
1219 A4B	65.654187	-72.	6	0	
1220 N1226B	57.654187	-72.	57	0	
1221 A4R	51.654187	-72.	57	0	
1222 N1228B	57.654187	-24.	-18	0	
1223 M3	54.341687	-24.	0	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1224 N1230B	57.654187	-24.	0	0	
1225 N1231B	57.654187	-24.	84	0	
1226 N1232B	54.904187	-24.	84	0	
1227 N1233B	57.654187	-24.	102	0	
1228 N1234B	57.654187	-24.	78	0	
1229 N1235B	57.654187	-24.	6	0	
1230 A3T	65.654187	-24.	78	0	
1231 A3B	65.654187	-24.	6	0	
1232 N1238B	57.654187	-24.	57	0	
1233 A3R	51.654187	-24.	57	0	
1234 N1240C	57.654187	24.	-18	0	
1235 M2	54.341687	24.	0	0	
1236 N1242C	57.654187	24.	0	0	
1237 N1243B	57.654187	24.	84	0	
1238 N1244C	54.904187	24.	84	0	
1239 N1245B	57.654187	24.	102	0	
1240 N1246B	57.654187	24.	78	0	
1241 N1247B	57.654187	24.	6	0	
1242 A2T	65.654187	24.	78	0	
1243 A2B	65.654187	24.	6	0	
1244 N1250C	57.654187	24.	57	0	
1245 A2R	51.654187	24.	57	0	
1246 N1252A	57.654187	72.	-18	0	
1247 M1	54.341687	72.	0	0	
1248 N1254A	57.654187	72.	0	0	
1249 N1255A	57.654187	72.	84	0	
1250 N1256A	54.904187	72.	84	0	
1251 N1257A	57.654187	72.	102	0	
1252 N1258A	57.654187	72.	66	0	
1253 N1259A	57.654187	72.	24	0	
1254 A1T	65.654187	72.	66	0	
1255 A1B	65.654187	72.	24	0	
1256 N1262B	57.654187	72.	57	0	
1257 A1R	51.654187	72.	57	0	
1258 N1264B	-91.180923	-13.929991	-18	0	
1259 N1265C	-89.524673	-11.061281	0	0	
1260 N1266C	-91.180923	-13.929991	0	0	
1261 N1267C	-91.180923	-13.929991	84	0	
1262 N1268C	-89.805923	-11.548421	84	0	
1263 N1269C	-91.180923	-13.929991	102	0	
1264 N1276C	-91.180923	-13.929991	78	0	
1265 N1277C	-91.180923	-13.929991	6	0	
1266 B4T	-95.180923	-20.858194	78	0	
1267 B4B	-95.180923	-20.858194	6	0	
1268 N1280B	-91.180923	-13.929991	57	0	
1269 B4R	-88.180923	-8.733838	57	0	
1270 N1282C	-49.611703	-37.929991	-18	0	
1271 N1283C	-47.955453	-35.061282	0	0	
1272 N1284C	-49.611703	-37.929991	0	0	
1273 N1285C	-49.611703	-37.929991	84	0	
1274 N1286C	-48.236703	-35.548421	84	0	
1275 N1287C	-49.611703	-37.929991	102	0	
1276 N1288B	-49.611703	-37.929991	78	0	
1277 N1289B	-49.611703	-37.929991	6	0	
1278 B3T	-53.611703	-44.858193	78	0	
1279 B3B	-53.611703	-44.858193	6	0	
1280 N1292B	-49.611703	-37.929991	57	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1281 B3R	-46.611703	-32.733838	57	0	
1282 N1294B	-8.042484	-61.929991	-18	0	
1283 N1295B	-6.386234	-59.061282	0	0	
1284 N1296B	-8.042484	-61.929991	0	0	
1285 N1297B	-8.042484	-61.929991	84	0	
1286 N1298B	-6.667484	-59.548421	84	0	
1287 N1299B	-8.042484	-61.929991	102	0	
1288 N1300B	-8.042484	-61.929991	78	0	
1289 N1301B	-8.042484	-61.929991	6	0	
1290 B2T	-12.042484	-68.858194	78	0	
1291 B2B	-12.042484	-68.858194	6	0	
1292 N1304B	-8.042484	-61.929991	57	0	
1293 B2R	-5.042484	-56.733839	57	0	
1294 N1306B	33.526736	-85.929991	-18	0	
1295 N1307B	35.182986	-83.061282	0	0	
1296 N1308B	33.526736	-85.929991	0	0	
1297 N1309B	33.526736	-85.929991	84	0	
1298 N1310B	34.901736	-83.548421	84	0	
1299 N1311B	33.526736	-85.929991	102	0	
1300 N1312B	33.526736	-85.929991	66	0	
1301 N1313B	33.526736	-85.929991	24	0	
1302 B1T	29.526736	-92.858194	66	0	
1303 B1B	29.526736	-92.858194	24	0	
1304 N1316B	33.526736	-85.929991	57	0	
1305 B1R	36.526736	-80.733838	57	0	
1306 N1318B	33.526736	85.929991	-18	0	
1307 N1319B	35.182986	83.061282	0	0	
1308 N1320B	33.526736	85.929991	0	0	
1309 N1321B	33.526736	85.929991	84	0	
1310 N1322B	34.901736	83.548421	84	0	
1311 N1323B	33.526736	85.929991	102	0	
1312 N1330B	33.526736	85.929991	78	0	
1313 N1331B	33.526736	85.929991	6	0	
1314 G4T	29.526736	92.858194	78	0	
1315 G4B	29.526736	92.858194	6	0	
1316 N1334B	33.526736	85.929991	57	0	
1317 G4R	36.526736	80.733838	57	0	
1318 N1336B	-8.042484	61.929991	-18	0	
1319 N1337B	-6.386234	59.061282	0	0	
1320 N1338B	-8.042484	61.929991	0	0	
1321 N1339B	-8.042484	61.929991	84	0	
1322 N1340B	-6.667484	59.548421	84	0	
1323 N1341B	-8.042484	61.929991	102	0	
1324 N1342B	-8.042484	61.929991	78	0	
1325 N1343B	-8.042484	61.929991	6	0	
1326 G3T	-12.042484	68.858194	78	0	
1327 G3B	-12.042484	68.858194	6	0	
1328 N1346B	-8.042484	61.929991	57	0	
1329 G3R	-5.042484	56.733839	57	0	
1330 N1348A	-49.611703	37.929991	-18	0	
1331 N1349	-47.955453	35.061282	0	0	
1332 N1350	-49.611703	37.929991	0	0	
1333 N1351	-49.611703	37.929991	84	0	
1334 N1352	-48.236703	35.548421	84	0	
1335 N1353	-49.611703	37.929991	102	0	
1336 N1354	-49.611703	37.929991	78	0	
1337 N1355	-49.611703	37.929991	6	0	

Joint Coordinates and Temperatures (Continued)

Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1338 G2T	-53.611703	44.858193	78	0	
1339 G2B	-53.611703	44.858193	6	0	
1340 N1358	-49.611703	37.929991	57	0	
1341 G2R	-46.611703	32.733838	57	0	
1342 N1360	-91.180923	13.929991	-18	0	
1343 N1361	-89.524673	11.061281	0	0	
1344 N1362	-91.180923	13.929991	0	0	
1345 N1363	-91.180923	13.929991	84	0	
1346 N1364	-89.805923	11.548421	84	0	
1347 N1365	-91.180923	13.929991	102	0	
1348 N1366	-91.180923	13.929991	66	0	
1349 N1367	-91.180923	13.929991	24	0	
1350 G1T	-95.180923	20.858194	66	0	
1351 G1B	-95.180923	20.858194	24	0	
1352 N1370	-91.180923	13.929991	57	0	
1353 G1R	-88.180923	8.733838	57	0	
1354 N1426	54.341687	-77.283349	0	0	
1355 N1427	54.341687	77.283349	0	0	
1356 N1428	39.758501	85.702957	0	0	
1357 N1429	-94.100188	8.419607	0	0	
1358 N1430	-94.100188	-8.419607	0	0	
1359 N1431	39.758501	-85.702957	0	0	
1360 N1432	54.341687	-29.39167	0	0	
1361 N1433	54.341687	29.39187	0	0	
1362 N1434	-1.716911	61.757117	0	0	
1363 N1435	-52.62495	32.365347	0	0	
1364 N1436	-52.624777	-32.365447	0	0	
1365 N1437	-1.716737	-61.757217	0	0	
1366 N1378	-80.850187	-0.	0	0	
1367 N1367A	-80.850187	-0.	4	0	
1368 N1368	40.425094	-70.018316	0	0	
1369 N1369	40.425094	-70.018316	4	0	
1370 N1370A	40.425093	70.018316	0	0	
1371 N1371	40.425094	70.018316	4	0	
1372 N1372	-15.031	-0.	45	0	
1373 N1373	-17.031	-0.	45	0	
1374 N1375	7.5155	-13.017228	45	0	
1375 N1376	8.5155	-14.749278	45	0	
1376 N1378A	7.5155	13.017228	45	0	
1377 N1379	8.5155	14.749279	45	0	
1378 N1378B	-15.031	-0.	48	0	
1379 N1379A	7.5155	-13.017228	48	0	
1380 N1380	7.5155	13.017228	48	0	
1381 N1381	-17.031	-0.	48	0	
1382 N1383	8.5155	-14.749278	48	0	
1383 N1385	8.5155	14.749279	48	0	
1384 N1386	54.904187	-35.000278	84	0	
1385 N1387	54.904187	34.999979	84	0	
1386 N1386A	54.904187	0	84	0	
1387 N1387A	-27.452094	47.548421	84	0	
1388 N1388	-27.452094	-47.548421	84	0	
1389 N1389	54.904187	-35.000278	81	0	
1390 N1390	54.904187	34.999979	81	0	
1391 N1391	-17.031	-1.	48	0	
1392 N1392	-17.031	1.	48	0	
1393 N1394	9.381526	-14.249278	48	0	
1394 N1395	7.649475	-15.249278	48	0	

Joint Coordinates and Temperatures (Continued)

Label		X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1395	N1397	7.649474	15.249279	48	0	
1396	N1398	9.381525	14.249279	48	0	
1397	N1397A	2.859037	65.04856	84	0	
1398	N1398A	-57.762964	30.048431	84	0	
1399	N1399	2.859037	65.04856	81	0	
1400	N1400	-57.762964	30.048431	81	0	
1401	N1403	-57.763224	-30.048282	84	0	
1402	N1404	2.858777	-65.04841	84	0	
1403	N1405	-57.763224	-30.048282	81	0	
1404	N1406	2.858777	-65.04841	81	0	
1405	N1405A	0	0	0	0	

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design Rules
1	M26	N48	N60		RIGID	None	None	RIGID	Typical
2	M44	N75	N87		RIGID	None	None	RIGID	Typical
3	M51	N88	N100		Offset Horiz	Beam	None	Q235	Typical
4	M60	N98	N103		Offset Horiz	Beam	None	Q235	Typical
5	M62	N102	N114		RIGID	None	None	RIGID	Typical
6	M63	N103	N99		Offset Horiz	Beam	None	Q235	Typical
7	M69	N115	N116		Face Horiz	Beam	None	A53 Gr.B	Typical
8	M71	M4	N122		RIGID	None	None	RIGID	Typical
9	M72	N123	N124		Face Horiz	Beam	None	A53 Gr.B	Typical
10	M75	N131	N132		Face Horiz	Beam	None	A53 Gr.B	Typical
11	M91	N158	N50	360	RIGID	None	None	RIGID	Typical
12	M92	N158	N160		Grating Angle	Beam	None	Q235	Typical
13	M93	N159	N51	360	RIGID	None	None	RIGID	Typical
14	M94	N159	N161	270	Grating Angle	Beam	None	Q235	Typical
15	M95	N160	N48	360	RIGID	None	None	RIGID	Typical
16	M96	N161	N60	360	RIGID	None	None	RIGID	Typical
17	M97	N162	N77	360	RIGID	None	None	RIGID	Typical
18	M98	N162	N164		Grating Angle	Beam	None	Q235	Typical
19	M99	N163	N78	360	RIGID	None	None	RIGID	Typical
20	M100	N163	N165	270	Grating Angle	Beam	None	Q235	Typical
21	M101	N164	N75	360	RIGID	None	None	RIGID	Typical
22	M102	N165	N87	360	RIGID	None	None	RIGID	Typical
23	M103	N166	N104	360	RIGID	None	None	RIGID	Typical
24	M104	N166	N168		Grating Angle	Beam	None	Q235	Typical
25	M105	N167	N105	360	RIGID	None	None	RIGID	Typical
26	M106	N167	N169	270	Grating Angle	Beam	None	Q235	Typical
27	M107	N168	N102	360	RIGID	None	None	RIGID	Typical
28	M108	N169	N114	360	RIGID	None	None	RIGID	Typical
29	M109	N171	N172	90	HRK14 Angle	Beam	None	Q235	Typical
30	M110	N173	N174	90	HRK14 Angle	Beam	None	Q235	Typical
31	M111	N175	N170	90	HRK14 Angle	Beam	None	Q235	Typical
32	M115	N183	N179		RIGID	None	None	RIGID	Typical
33	M116	N185	N184		HRK14 Pipe	Beam	None	A53 Gr.B	Typical
34	M121	N195	N194		HRK14 Pipe	Beam	None	A53 Gr.B	Typical
35	M126	N205	N204		HRK14 Pipe	Beam	None	A53 Gr.B	Typical
36	M127	N208	N206		RIGID	None	None	RIGID	Typical
37	M128	N209	N207		RIGID	None	None	RIGID	Typical
38	M129	N210	N211		HRK14 Plate	Beam	None	Q235	Typical
39	M130	N218	N170	360	RIGID	None	None	RIGID	Typical
40	M131	N221	N219		RIGID	None	None	RIGID	Typical
41	M132	N222	N220		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design Rules
42	M133	N223	N224		HRK14 Plate	Beam	None	Q235	Typical
43	M134	N225	N171	360	RIGID	None	None	RIGID	Typical
44	M135	N228	N226		RIGID	None	None	RIGID	Typical
45	M136	N229	N227		RIGID	None	None	RIGID	Typical
46	M137	N230	N231		HRK14 Plate	Beam	None	Q235	Typical
47	M138	N232	N172	360	RIGID	None	None	RIGID	Typical
48	M139	N235	N233		RIGID	None	None	RIGID	Typical
49	M140	N236	N234		RIGID	None	None	RIGID	Typical
50	M141	N237	N238		HRK14 Plate	Beam	None	Q235	Typical
51	M142	N239	N173	360	RIGID	None	None	RIGID	Typical
52	M143	N242	N240		RIGID	None	None	RIGID	Typical
53	M144	N243	N241		RIGID	None	None	RIGID	Typical
54	M145	N244	N245		HRK14 Plate	Beam	None	Q235	Typical
55	M146	N246	N174	360	RIGID	None	None	RIGID	Typical
56	M147	N249	N247		RIGID	None	None	RIGID	Typical
57	M148	N250	N248		RIGID	None	None	RIGID	Typical
58	M149	N251	N252		HRK14 Plate	Beam	None	Q235	Typical
59	M150	N253	N175	360	RIGID	None	None	RIGID	Typical
60	M163	N263	N16	360	Mount Pipe	Column	None	A53 Gr.B	Typical
61	M171A	N277	N276		RIGID	None	None	RIGID	Typical
62	M172	N279	N278		RIGID	None	None	RIGID	Typical
63	M172A	N276	N278	360	RIGID	None	None	RIGID	Typical
64	M172C	N365A	N366A		RIGID	None	None	RIGID	Typical
65	M173A	N367A	N368A		RIGID	None	None	RIGID	Typical
66	M173B	N366A	N368A	360	RIGID	None	None	RIGID	Typical
67	M173C	N402	N403		RIGID	None	None	RIGID	Typical
68	M174	N404	N405		RIGID	None	None	RIGID	Typical
69	M175	N403	N405	360	RIGID	None	None	RIGID	Typical
70	M166A	N520	N521		RIGID	None	None	RIGID	Typical
71	M167A	N522	N523		RIGID	None	None	RIGID	Typical
72	M168A	N521	N523	360	RIGID	None	None	RIGID	Typical
73	M169A	N557	N558		RIGID	None	None	RIGID	Typical
74	M170A	N559	N560		RIGID	None	None	RIGID	Typical
75	M171C	N558	N560	360	RIGID	None	None	RIGID	Typical
76	M178	N700	N701		RIGID	None	None	RIGID	Typical
77	M179	N702	N703		RIGID	None	None	RIGID	Typical
78	M180	N701	N703	360	RIGID	None	None	RIGID	Typical
79	M181	N737	N738		RIGID	None	None	RIGID	Typical
80	M182	N739	N740		RIGID	None	None	RIGID	Typical
81	M183	N738	N740	360	RIGID	None	None	RIGID	Typical
82	M181A	N786	N100		RIGID	None	None	RIGID	Typical
83	M182A	N782	N100		RIGID	None	None	RIGID	Typical
84	M183A	N842	N100		RIGID	None	None	RIGID	Typical
85	M184	N846	N100		RIGID	None	None	RIGID	Typical
86	M185	N785	N100		RIGID	None	None	RIGID	Typical
87	M186	N784	N100	360	RIGID	None	None	RIGID	Typical
88	M187	N783	N100		RIGID	None	None	RIGID	Typical
89	M188	N801	N100		RIGID	None	None	RIGID	Typical
90	M189	N816	N100		RIGID	None	None	RIGID	Typical
91	M190	N831	N100		RIGID	None	None	RIGID	Typical
92	M191	N845	N100		RIGID	None	None	RIGID	Typical
93	M192	N844	N100	1e-6	RIGID	None	None	RIGID	Typical
94	M193	N843	N100		RIGID	None	None	RIGID	Typical
95	M194	N827	N100		RIGID	None	None	RIGID	Typical
96	M195	N812	N100		RIGID	None	None	RIGID	Typical
97	M196	N797	N100		RIGID	None	None	RIGID	Typical
98	M189A	N35	N864A		Offset Horiz	Beam	None	Q235	Typical

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design Rules
99	M193A	N906	N864A		RIGID	None	None	RIGID	Typical
100	M194A	N902	N864A		RIGID	None	None	RIGID	Typical
101	M195A	N962	N864A		RIGID	None	None	RIGID	Typical
102	M196A	N966	N864A		RIGID	None	None	RIGID	Typical
103	M197	N905	N864A		RIGID	None	None	RIGID	Typical
104	M198	N904	N864A	360	RIGID	None	None	RIGID	Typical
105	M199	N903	N864A		RIGID	None	None	RIGID	Typical
106	M200	N921	N864A		RIGID	None	None	RIGID	Typical
107	M201	N936	N864A		RIGID	None	None	RIGID	Typical
108	M202	N951	N864A		RIGID	None	None	RIGID	Typical
109	M203	N965	N864A		RIGID	None	None	RIGID	Typical
110	M204	N964	N864A	1e-6	RIGID	None	None	RIGID	Typical
111	M205	N963	N864A		RIGID	None	None	RIGID	Typical
112	M206	N947	N864A		RIGID	None	None	RIGID	Typical
113	M207	N932	N864A		RIGID	None	None	RIGID	Typical
114	M208	N917	N864A		RIGID	None	None	RIGID	Typical
115	M209	N61	N990		Offset Horiz	Beam	None	Q235	Typical
116	M213	N1032	N990		RIGID	None	None	RIGID	Typical
117	M214	N1028	N990		RIGID	None	None	RIGID	Typical
118	M215	N1088	N990		RIGID	None	None	RIGID	Typical
119	M216	N1092	N990		RIGID	None	None	RIGID	Typical
120	M217	N1031	N990		RIGID	None	None	RIGID	Typical
121	M218	N1030	N990	360	RIGID	None	None	RIGID	Typical
122	M219	N1029	N990		RIGID	None	None	RIGID	Typical
123	M220	N1047	N990		RIGID	None	None	RIGID	Typical
124	M221	N1062	N990		RIGID	None	None	RIGID	Typical
125	M222	N1077	N990		RIGID	None	None	RIGID	Typical
126	M223	N1091	N990		RIGID	None	None	RIGID	Typical
127	M224	N1090	N990	1e-6	RIGID	None	None	RIGID	Typical
128	M225	N1089	N990		RIGID	None	None	RIGID	Typical
129	M226	N1073	N990		RIGID	None	None	RIGID	Typical
130	M227	N1058	N990		RIGID	None	None	RIGID	Typical
131	M228	N1043	N990		RIGID	None	None	RIGID	Typical
132	M225A	N1079A	N98		RIGID	None	None	RIGID	Typical
133	M226A	N1083A	N98		RIGID	None	None	RIGID	Typical
134	M227A	N1103A	N98		RIGID	None	None	RIGID	Typical
135	M228A	N1107A	N98		RIGID	None	None	RIGID	Typical
136	M229	N1082A	N98		RIGID	None	None	RIGID	Typical
137	M230	N1081A	N98		RIGID	None	None	RIGID	Typical
138	M231	N1080A	N98		RIGID	None	None	RIGID	Typical
139	M232	N1085A	N98		RIGID	None	None	RIGID	Typical
140	M233	N1091A	N98		RIGID	None	None	RIGID	Typical
141	M234	N1097A	N98		RIGID	None	None	RIGID	Typical
142	M235	N1104A	N98		RIGID	None	None	RIGID	Typical
143	M236	N1105A	N98		RIGID	None	None	RIGID	Typical
144	M237	N1106A	N98		RIGID	None	None	RIGID	Typical
145	M238	N1101A	N98		RIGID	None	None	RIGID	Typical
146	M239	N1095A	N98		RIGID	None	None	RIGID	Typical
147	M240	N1089A	N98		RIGID	None	None	RIGID	Typical
148	M241	N1129	N99		RIGID	None	None	RIGID	Typical
149	M242	N1133	N99		RIGID	None	None	RIGID	Typical
150	M243	N1153	N99		RIGID	None	None	RIGID	Typical
151	M244	N1157	N99		RIGID	None	None	RIGID	Typical
152	M245	N1132	N99		RIGID	None	None	RIGID	Typical
153	M246	N1131	N99		RIGID	None	None	RIGID	Typical
154	M247	N1130	N99		RIGID	None	None	RIGID	Typical
155	M248	N1135	N99		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design Rules
156	M249	N1141	N99		RIGID	None	None	RIGID	Typical
157	M250	N1147	N99		RIGID	None	None	RIGID	Typical
158	M251	N1154	N99		RIGID	None	None	RIGID	Typical
159	M252	N1155	N99		RIGID	None	None	RIGID	Typical
160	M253	N1156	N99		RIGID	None	None	RIGID	Typical
161	M254	N1151	N99		RIGID	None	None	RIGID	Typical
162	M255	N1145	N99		RIGID	None	None	RIGID	Typical
163	M256	N1139	N99		RIGID	None	None	RIGID	Typical
164	M245A	N1149A	N49		Offset Horiz	Beam	None	Q235	Typical
165	M246A	N49	N1150A		Offset Horiz	Beam	None	Q235	Typical
166	M247A	N1172	N1149A		RIGID	None	None	RIGID	Typical
167	M248A	N1176	N1149A		RIGID	None	None	RIGID	Typical
168	M249A	N1196	N1149A		RIGID	None	None	RIGID	Typical
169	M250A	N1200	N1149A		RIGID	None	None	RIGID	Typical
170	M251A	N1175	N1149A		RIGID	None	None	RIGID	Typical
171	M252A	N1174	N1149A		RIGID	None	None	RIGID	Typical
172	M253A	N1173	N1149A		RIGID	None	None	RIGID	Typical
173	M254A	N1178	N1149A		RIGID	None	None	RIGID	Typical
174	M255A	N1184	N1149A		RIGID	None	None	RIGID	Typical
175	M256A	N1190	N1149A		RIGID	None	None	RIGID	Typical
176	M257	N1197	N1149A		RIGID	None	None	RIGID	Typical
177	M258	N1198	N1149A		RIGID	None	None	RIGID	Typical
178	M259	N1199	N1149A		RIGID	None	None	RIGID	Typical
179	M260	N1194	N1149A		RIGID	None	None	RIGID	Typical
180	M261	N1188	N1149A		RIGID	None	None	RIGID	Typical
181	M262	N1182	N1149A		RIGID	None	None	RIGID	Typical
182	M263	N1214	N1150A		RIGID	None	None	RIGID	Typical
183	M264	N1218	N1150A		RIGID	None	None	RIGID	Typical
184	M265	N1238	N1150A		RIGID	None	None	RIGID	Typical
185	M266	N1242	N1150A		RIGID	None	None	RIGID	Typical
186	M267	N1217	N1150A		RIGID	None	None	RIGID	Typical
187	M268	N1216	N1150A		RIGID	None	None	RIGID	Typical
188	M269	N1215	N1150A		RIGID	None	None	RIGID	Typical
189	M270	N1220	N1150A		RIGID	None	None	RIGID	Typical
190	M271	N1226	N1150A		RIGID	None	None	RIGID	Typical
191	M272	N1232	N1150A		RIGID	None	None	RIGID	Typical
192	M273	N1239	N1150A		RIGID	None	None	RIGID	Typical
193	M274	N1240	N1150A		RIGID	None	None	RIGID	Typical
194	M275	N1241	N1150A		RIGID	None	None	RIGID	Typical
195	M276	N1236	N1150A		RIGID	None	None	RIGID	Typical
196	M277	N1230	N1150A		RIGID	None	None	RIGID	Typical
197	M278	N1224	N1150A		RIGID	None	None	RIGID	Typical
198	M279	N1250	N76		Offset Horiz	Beam	None	Q235	Typical
199	M280	N76	N1251		Offset Horiz	Beam	None	Q235	Typical
200	M281	N1273	N1250		RIGID	None	None	RIGID	Typical
201	M282	N1277	N1250		RIGID	None	None	RIGID	Typical
202	M283	N1297	N1250		RIGID	None	None	RIGID	Typical
203	M284	N1301	N1250		RIGID	None	None	RIGID	Typical
204	M285	N1276	N1250		RIGID	None	None	RIGID	Typical
205	M286	N1275	N1250		RIGID	None	None	RIGID	Typical
206	M287	N1274	N1250		RIGID	None	None	RIGID	Typical
207	M288	N1279	N1250		RIGID	None	None	RIGID	Typical
208	M289	N1285	N1250		RIGID	None	None	RIGID	Typical
209	M290	N1291	N1250		RIGID	None	None	RIGID	Typical
210	M291	N1298	N1250		RIGID	None	None	RIGID	Typical
211	M292	N1299	N1250		RIGID	None	None	RIGID	Typical
212	M293	N1300	N1250		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design Rules
213	M294	N1295	N1250		RIGID	None	None	RIGID	Typical
214	M295	N1289	N1250		RIGID	None	None	RIGID	Typical
215	M296	N1283	N1250		RIGID	None	None	RIGID	Typical
216	M297	N1315	N1251		RIGID	None	None	RIGID	Typical
217	M298	N1319	N1251		RIGID	None	None	RIGID	Typical
218	M299	N1339	N1251		RIGID	None	None	RIGID	Typical
219	M300	N1343	N1251		RIGID	None	None	RIGID	Typical
220	M301	N1318	N1251		RIGID	None	None	RIGID	Typical
221	M302	N1317	N1251		RIGID	None	None	RIGID	Typical
222	M303	N1316	N1251		RIGID	None	None	RIGID	Typical
223	M304	N1321	N1251		RIGID	None	None	RIGID	Typical
224	M305	N1327	N1251		RIGID	None	None	RIGID	Typical
225	M306	N1333	N1251		RIGID	None	None	RIGID	Typical
226	M307	N1340	N1251		RIGID	None	None	RIGID	Typical
227	M308	N1341	N1251		RIGID	None	None	RIGID	Typical
228	M309	N1342	N1251		RIGID	None	None	RIGID	Typical
229	M310	N1337	N1251		RIGID	None	None	RIGID	Typical
230	M311	N1331	N1251		RIGID	None	None	RIGID	Typical
231	M312	N1325	N1251		RIGID	None	None	RIGID	Typical
232	M298A	N1099B	N1098B		RIGID	None	None	RIGID	Typical
233	M299A	N1101B	N1100B		RIGID	None	None	RIGID	Typical
234	M300A	N1098B	N1100B	360	RIGID	None	None	RIGID	Typical
235	M301A	N1145B	N1144B		RIGID	None	None	RIGID	Typical
236	M302A	N1147A	N1146A		RIGID	None	None	RIGID	Typical
237	M303A	N1144B	N1146A	240	RIGID	None	None	RIGID	Typical
238	M304A	N1200A	N1199A		RIGID	None	None	RIGID	Typical
239	M305A	N1202A	N1201A		RIGID	None	None	RIGID	Typical
240	M306A	N1199A	N1201A	240	RIGID	None	None	RIGID	Typical
241	M307A	N1249A	N1248A		RIGID	None	None	RIGID	Typical
242	M308A	N1251B	N1250B		RIGID	None	None	RIGID	Typical
243	M309A	N1248A	N1250B	120	RIGID	None	None	RIGID	Typical
244	M310A	N1304A	N1303A		RIGID	None	None	RIGID	Typical
245	M311A	N1306A	N1305A		RIGID	None	None	RIGID	Typical
246	M312A	N1303A	N1305A	120	RIGID	None	None	RIGID	Typical
247	M256B	N1223B	A4B		RIGID	None	None	RIGID	Typical
248	M257A	N1222B	A4T		RIGID	None	None	RIGID	Typical
249	M258A	N1226B	A4R		RIGID	None	None	RIGID	Typical
250	M259A	M3	N1230B		RIGID	None	None	RIGID	Typical
251	M260A	N1232B	N1231B		RIGID	None	None	RIGID	Typical
252	M261A	N1233B	N1228B	360	Mount Pipe	Column	None	A53 Gr.B	Typical
253	M262A	N1235B	A3B		RIGID	None	None	RIGID	Typical
254	M263A	N1234B	A3T		RIGID	None	None	RIGID	Typical
255	M264A	N1238B	A3R		RIGID	None	None	RIGID	Typical
256	M265A	M2	N1242C		RIGID	None	None	RIGID	Typical
257	M266A	N1244C	N1243B		RIGID	None	None	RIGID	Typical
258	M267A	N1245B	N1240C	360	Mount Pipe	Column	None	A53 Gr.B	Typical
259	M268A	N1247B	A2B		RIGID	None	None	RIGID	Typical
260	M269A	N1246B	A2T		RIGID	None	None	RIGID	Typical
261	M270A	N1250C	A2R		RIGID	None	None	RIGID	Typical
262	M271A	M1	N1254A		RIGID	None	None	RIGID	Typical
263	M272A	N1256A	N1255A		RIGID	None	None	RIGID	Typical
264	M273A	N1257A	N1252A	360	Mount Pipe	Column	None	A53 Gr.B	Typical
265	M274A	N1259A	A1B		RIGID	None	None	RIGID	Typical
266	M275A	N1258A	A1T		RIGID	None	None	RIGID	Typical
267	M276A	N1262B	A1R		RIGID	None	None	RIGID	Typical
268	M277A	N1265C	N1266C		RIGID	None	None	RIGID	Typical
269	M278A	N1268C	N1267C		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate...	Section/Shape	Type	Design List	Material	Design Rules	
270	M279A	N1269C	N1264B		120	Mount Pipe	Column	None	A53 Gr.B	Typical
271	M283A	N1277C	B4B			RIGID	None	None	RIGID	Typical
272	M284A	N1276C	B4T			RIGID	None	None	RIGID	Typical
273	M285A	N1280B	B4R			RIGID	None	None	RIGID	Typical
274	M286B	N1283C	N1284C			RIGID	None	None	RIGID	Typical
275	M287B	N1286C	N1285C			RIGID	None	None	RIGID	Typical
276	M288B	N1287C	N1282C	120	Mount Pipe	Column	None	A53 Gr.B	Typical	
277	M289A	N1289B	B3B			RIGID	None	None	RIGID	Typical
278	M290A	N1288B	B3T			RIGID	None	None	RIGID	Typical
279	M291A	N1292B	B3R			RIGID	None	None	RIGID	Typical
280	M292A	N1295B	N1296B			RIGID	None	None	RIGID	Typical
281	M293A	N1298B	N1297B			RIGID	None	None	RIGID	Typical
282	M294A	N1299B	N1294B	120	Mount Pipe	Column	None	A53 Gr.B	Typical	
283	M295A	N1301B	B2B			RIGID	None	None	RIGID	Typical
284	M296A	N1300B	B2T			RIGID	None	None	RIGID	Typical
285	M297A	N1304B	B2R			RIGID	None	None	RIGID	Typical
286	M298B	N1307B	N1308B			RIGID	None	None	RIGID	Typical
287	M299B	N1310B	N1309B			RIGID	None	None	RIGID	Typical
288	M300B	N1311B	N1306B	120	Mount Pipe	Column	None	A53 Gr.B	Typical	
289	M301B	N1313B	B1B			RIGID	None	None	RIGID	Typical
290	M302B	N1312B	B1T			RIGID	None	None	RIGID	Typical
291	M303B	N1316B	B1R			RIGID	None	None	RIGID	Typical
292	M304B	N1319B	N1320B			RIGID	None	None	RIGID	Typical
293	M305B	N1322B	N1321B			RIGID	None	None	RIGID	Typical
294	M306B	N1323B	N1318B	240	Mount Pipe	Column	None	A53 Gr.B	Typical	
295	M310B	N1331B	G4B			RIGID	None	None	RIGID	Typical
296	M311B	N1330B	G4T			RIGID	None	None	RIGID	Typical
297	M312B	N1334B	G4R			RIGID	None	None	RIGID	Typical
298	M313	N1337B	N1338B			RIGID	None	None	RIGID	Typical
299	M314	N1340B	N1339B			RIGID	None	None	RIGID	Typical
300	M315	N1341B	N1336B	240	Mount Pipe	Column	None	A53 Gr.B	Typical	
301	M316	N1343B	G3B			RIGID	None	None	RIGID	Typical
302	M317	N1342B	G3T			RIGID	None	None	RIGID	Typical
303	M318	N1346B	G3R			RIGID	None	None	RIGID	Typical
304	M319	N1349	N1350			RIGID	None	None	RIGID	Typical
305	M320	N1352	N1351			RIGID	None	None	RIGID	Typical
306	M321	N1353	N1348A	240	Mount Pipe	Column	None	A53 Gr.B	Typical	
307	M322	N1355	G2B			RIGID	None	None	RIGID	Typical
308	M323	N1354	G2T			RIGID	None	None	RIGID	Typical
309	M324	N1358	G2R			RIGID	None	None	RIGID	Typical
310	M325	N1361	N1362			RIGID	None	None	RIGID	Typical
311	M326	N1364	N1363			RIGID	None	None	RIGID	Typical
312	M327	N1365	N1360	240	Mount Pipe	Column	None	A53 Gr.B	Typical	
313	M328	N1367	G1B			RIGID	None	None	RIGID	Typical
314	M329	N1366	G1T			RIGID	None	None	RIGID	Typical
315	M330	N1370	G1R			RIGID	None	None	RIGID	Typical
316	M358	N37	N1426			RIGID	None	None	RIGID	Typical
317	M359	N62	N1427			RIGID	None	None	RIGID	Typical
318	M360	N63	N1428			RIGID	None	None	RIGID	Typical
319	M361	N89	N1429			RIGID	None	None	RIGID	Typical
320	M362	N90	N1430			RIGID	None	None	RIGID	Typical
321	M363	N36	N1431			RIGID	None	None	RIGID	Typical
322	M364	N43	N1432			RIGID	None	None	RIGID	Typical
323	M365	N66	N1433			RIGID	None	None	RIGID	Typical
324	M366	N70	N1434			RIGID	None	None	RIGID	Typical
325	M367	N93	N1435			RIGID	None	None	RIGID	Typical
326	M368	N97	N1436			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design Rules
327	M369	N39	N1437		RIGID	None	None	RIGID	Typical
328	M328A	N1378	N1367A		RIGID	None	None	RIGID	Typical
329	M329A	N1368	N1369	120	RIGID	None	None	RIGID	Typical
330	M330A	N1370A	N1371	240	RIGID	None	None	RIGID	Typical
331	M331	N1372	N1373		RIGID	None	None	RIGID	Typical
332	M332	N1367A	N1373		Tension Wire	Beam	None	Wire	Typical
333	M333	N1375	N1376		RIGID	None	None	RIGID	Typical
334	M334	N1369	N1376		Tension Wire	Beam	None	Wire	Typical
335	M335	N1378A	N1379		RIGID	None	None	RIGID	Typical
336	M336	N1371	N1379		Tension Wire	Beam	None	Wire	Typical
337	M337	N1375	N1379A		RIGID	None	None	RIGID	Typical
338	M338	N1372	N1378B		RIGID	None	None	RIGID	Typical
339	M339	N1378A	N1380		RIGID	None	None	RIGID	Typical
340	M340	N1378B	N1381		RIGID	None	None	RIGID	Typical
341	M341	N1379A	N1383		RIGID	None	None	RIGID	Typical
342	M342	N1380	N1385		RIGID	None	None	RIGID	Typical
343	M343	N1386	N1389		RIGID	None	None	RIGID	Typical
344	M344	N1387	N1390		RIGID	None	None	RIGID	Typical
345	M345	N1391	N1392		RIGID	None	None	RIGID	Typical
346	M346	N1394	N1395		RIGID	None	None	RIGID	Typical
347	M347	N1397	N1398		RIGID	None	None	RIGID	Typical
348	M348	N1398	N1390		SFS Pipe Arm	Beam	None	A53 Gr.B	Typical
349	M349	N1394	N1389		SFS Pipe Arm	Beam	None	A53 Gr.B	Typical
350	M350	N1397A	N1399	240	RIGID	None	None	RIGID	Typical
351	M351	N1398A	N1400	240	RIGID	None	None	RIGID	Typical
352	M352	N1392	N1400		SFS Pipe Arm	Beam	None	A53 Gr.B	Typical
353	M353	N1397	N1399		SFS Pipe Arm	Beam	None	A53 Gr.B	Typical
354	M354	N1403	N1405	120	RIGID	None	None	RIGID	Typical
355	M355	N1404	N1406	120	RIGID	None	None	RIGID	Typical
356	M356	N1395	N1406		SFS Pipe Arm	Beam	None	A53 Gr.B	Typical
357	M357	N1391	N1405		SFS Pipe Arm	Beam	None	A53 Gr.B	Typical

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...)	Surface...
1	Dead	DL			-1	40				
2	Dead of Ice	RL				40		51		
4	Structure Wind (0)	None						102		
5	Structure Wind (30)	None						102		
6	Structure Wind (45)	None						102		
7	Structure Wind (60)	None						102		
8	Structure Wind (90)	None						102		
9	Structure Wind (120)	None						102		
10	Structure Wind (135)	None						102		
11	Structure Wind (150)	None						102		
12	Structure Wind w/ Ice (0)	None						102		
13	Structure Wind w/ Ice (30)	None						102		
14	Structure Wind w/ Ice (45)	None						102		
15	Structure Wind w/ Ice (60)	None						102		
16	Structure Wind w/ Ice (90)	None						102		
17	Structure Wind w/ Ice (120)	None						102		
18	Structure Wind w/ Ice (135)	None						102		
19	Structure Wind w/ Ice (150)	None						102		
20	Antenna Wind (0)	None				80				
21	Antenna Wind (30)	None				80				
22	Antenna Wind (45)	None				80				

Company : Kimley-Horn and Associates, Inc.
Designer : RJL
Job Number : 01955051
Model Name : 876352

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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
23	Antenna Wind (60)	None				80				
24	Antenna Wind (90)	None				80				
25	Antenna Wind (120)	None				80				
26	Antenna Wind (135)	None				80				
27	Antenna Wind (150)	None				80				
28	Antenna Wind w/ Ice (0)	None				80				
29	Antenna Wind w/ Ice (30)	None				80				
30	Antenna Wind w/ Ice (45)	None				80				
31	Antenna Wind w/ Ice (60)	None				80				
32	Antenna Wind w/ Ice (90)	None				80				
33	Antenna Wind w/ Ice (120)	None				80				
34	Antenna Wind w/ Ice (135)	None				80				
35	Antenna Wind w/ Ice (150)	None				80				
36	Maintenance Live Lm (1)	OL1				1				
37	Maintenance Live Lm (2)	OL2				1				
38	Maintenance Live Lm (3)	OL3				1				
39	Maintenance Live Lm (4)	OL4				1				

Load Combinations

	Description	So...	PDe...	S...	BLCFac...									
1	Summary: 1.0D + 1...	Yes	Y		DL	1	20	1						
2	1.4D	Yes	Y		DL	1.4								
3	1.2D + 1.0W(0)	Yes	Y		DL	1.2	4	1	20	1				
4	1.2D + 1.0W(30)	Yes	Y		DL	1.2	5	1	21	1				
5	1.2D + 1.0W(45)	Yes	Y		DL	1.2	6	1	22	1				
6	1.2D + 1.0W(60)	Yes	Y		DL	1.2	7	1	23	1				
7	1.2D + 1.0W(90)	Yes	Y		DL	1.2	8	1	24	1				
8	1.2D + 1.0W(120)	Yes	Y		DL	1.2	9	1	25	1				
9	1.2D + 1.0W(135)	Yes	Y		DL	1.2	10	1	26	1				
10	1.2D + 1.0W(150)	Yes	Y		DL	1.2	11	1	27	1				
11	1.2D + 1.0W(180)	Yes	Y		DL	1.2	4	-1	20	-1				
12	1.2D + 1.0W(210)	Yes	Y		DL	1.2	5	-1	21	-1				
13	1.2D + 1.0W(225)	Yes	Y		DL	1.2	6	-1	22	-1				
14	1.2D + 1.0W(240)	Yes	Y		DL	1.2	7	-1	23	-1				
15	1.2D + 1.0W(270)	Yes	Y		DL	1.2	8	-1	24	-1				
16	1.2D + 1.0W(300)	Yes	Y		DL	1.2	9	-1	25	-1				
17	1.2D + 1.0W(315)	Yes	Y		DL	1.2	10	-1	26	-1				
18	1.2D + 1.0W(330)	Yes	Y		DL	1.2	11	-1	27	-1				
19	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	12	1	28	1		
20	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	13	1	29	1		
21	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	14	1	30	1		
22	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	15	1	31	1		
23	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	16	1	32	1		
24	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	17	1	33	1		
25	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	18	1	34	1		
26	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	19	1	35	1		
27	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	12	-1	28	-1		
28	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	13	-1	39	-1		
29	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	14	-1	30	-1		
30	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	15	-1	31	-1		
31	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	16	-1	32	-1		
32	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	17	-1	33	-1		
33	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	18	-1	34	-1		
34	1.2D + 1.0Di + 1.0W...	Yes	Y		DL	1.2	RL	1	19	-1	35	-1		
35	1.2D + 1.5Lm(1) + 1...	Yes	Y		DL	1.2	4	.063	20	.063	OL1	1.5		

Load Combinations (Continued)

	Description	So..PDe..S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
36	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 5	.063	21	.063	OL1 1.5					
37	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 6	.063	22	.063	OL1 1.5					
38	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 7	.063	23	.063	OL1 1.5					
39	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 8	.063	24	.063	OL1 1.5					
40	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 9	.063	25	.063	OL1 1.5					
41	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 10	.063	26	.063	OL1 1.5					
42	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 11	.063	27	.063	OL1 1.5					
43	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 4	-.063	20	-.063	OL1 1.5					
44	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 5	-.063	21	-.063	OL1 1.5					
45	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 6	-.063	22	-.063	OL1 1.5					
46	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 7	-.063	23	-.063	OL1 1.5					
47	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 8	-.063	24	-.063	OL1 1.5					
48	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 9	-.063	25	-.063	OL1 1.5					
49	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 10	-.063	26	-.063	OL1 1.5					
50	1.2D + 1.5Lm(1) + 1...Yes	Y	DL 1.2 11	-.063	27	-.063	OL1 1.5					
51	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 4	.063	20	.063	OL2 1.5					
52	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 5	.063	21	.063	OL2 1.5					
53	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 6	.063	22	.063	OL2 1.5					
54	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 7	.063	23	.063	OL2 1.5					
55	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 8	.063	24	.063	OL2 1.5					
56	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 9	.063	25	.063	OL2 1.5					
57	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 10	.063	26	.063	OL2 1.5					
58	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 11	.063	27	.063	OL2 1.5					
59	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 4	-.063	20	-.063	OL2 1.5					
60	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 5	-.063	21	-.063	OL2 1.5					
61	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 6	-.063	22	-.063	OL2 1.5					
62	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 7	-.063	23	-.063	OL2 1.5					
63	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 8	-.063	24	-.063	OL2 1.5					
64	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 9	-.063	25	-.063	OL2 1.5					
65	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 10	-.063	26	-.063	OL2 1.5					
66	1.2D + 1.5Lm(2) + 1...Yes	Y	DL 1.2 11	-.063	27	-.063	OL2 1.5					
67	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 4	.063	20	.063	OL3 1.5					
68	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 5	.063	21	.063	OL3 1.5					
69	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 6	.063	22	.063	OL3 1.5					
70	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 7	.063	23	.063	OL3 1.5					
71	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 8	.063	24	.063	OL3 1.5					
72	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 9	.063	25	.063	OL3 1.5					
73	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 10	.063	26	.063	OL3 1.5					
74	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 11	.063	27	.063	OL3 1.5					
75	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 4	-.063	20	-.063	OL3 1.5					
76	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 5	-.063	21	-.063	OL3 1.5					
77	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 6	-.063	22	-.063	OL3 1.5					
78	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 7	-.063	23	-.063	OL3 1.5					
79	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 8	-.063	24	-.063	OL3 1.5					
80	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 9	-.063	25	-.063	OL3 1.5					
81	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 10	-.063	26	-.063	OL3 1.5					
82	1.2D + 1.5Lm(3) + 1...Yes	Y	DL 1.2 11	-.063	27	-.063	OL3 1.5					
83	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 4	.063	20	.063	OL4 1.5					
84	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 5	.063	21	.063	OL4 1.5					
85	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 6	.063	22	.063	OL4 1.5					
86	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 7	.063	23	.063	OL4 1.5					
87	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 8	.063	24	.063	OL4 1.5					
88	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 9	.063	25	.063	OL4 1.5					
89	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 10	.063	26	.063	OL4 1.5					
90	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 11	.063	27	.063	OL4 1.5					
91	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 4	-.063	20	-.063	OL4 1.5					
92	1.2D + 1.5Lm(4) + 1...Yes	Y	DL 1.2 5	-.063	21	-.063	OL4 1.5					

Company : Kimley-Horn and Associates, Inc.
Designer : RJL
Job Number : 01955051
Model Name : 876352

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Load Combinations (Continued)

Description		So..PDe..S...	BLCFac..									
93	1.2D + 1.5Lm(4) + 1..	Yes	Y	DL	1.2	6	-.063	22	-.063	OL4	1.5	
94	1.2D + 1.5Lm(4) + 1..	Yes	Y	DL	1.2	7	-.063	23	-.063	OL4	1.5	
95	1.2D + 1.5Lm(4) + 1..	Yes	Y	DL	1.2	8	-.063	24	-.063	OL4	1.5	
96	1.2D + 1.5Lm(4) + 1..	Yes	Y	DL	1.2	9	-.063	25	-.063	OL4	1.5	
97	1.2D + 1.5Lm(4) + 1..	Yes	Y	DL	1.2	10	-.063	26	-.063	OL4	1.5	
98	1.2D + 1.5Lm(4) + 1..	Yes	Y	DL	1.2	11	-.063	27	-.063	OL4	1.5	

Joint Loads and Enforced Displacements (BLC 1 : Dead)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/rad)]
1	A4B	L	Z -44.65
2	A4T	L	Z -44.65
3	B4B	L	Z -44.65
4	B4T	L	Z -44.65
5	G4B	L	Z -44.65
6	G4T	L	Z -44.65
7	A2B	L	Z -27.25
8	A2T	L	Z -27.25
9	B2B	L	Z -27.25
10	B2T	L	Z -27.25
11	G2B	L	Z -27.25
12	G2T	L	Z -27.25
13	A3B	L	Z -43.3
14	A3T	L	Z -43.3
15	B3B	L	Z -43.3
16	B3T	L	Z -43.3
17	G3B	L	Z -43.3
18	G3T	L	Z -43.3
19	A1B	L	Z -17.5
20	A1T	L	Z -17.5
21	B1B	L	Z -17.5
22	B1T	L	Z -17.5
23	G1B	L	Z -17.5
24	G1T	L	Z -17.5
25	A2R	L	Z -42.9
26	B2R	L	Z -42.9
27	G2R	L	Z -42.9
28	A4R	L	Z -73
29	B4R	L	Z -73
30	G4R	L	Z -73
31	A3R	L	Z -59.9
32	B3R	L	Z -59.9
33	G3R	L	Z -59.9
34	A4R	L	Z -75
35	B4R	L	Z -75
36	G4R	L	Z -75
37	A1R	L	Z -62
38	B1R	L	Z -62
39	G1R	L	Z -62
40	A3R	L	Z -32.8

Joint Loads and Enforced Displacements (BLC 2 : Dead of Ice)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft),(in,rad),(lb*s^2/in, lb*s^2/in)]
1	A4B	L	Z -84.454
2	A4T	L	Z -84.454
3	B4B	L	Z -84.454

Company : Kimley-Horn and Associates, Inc.
 Designer : RJL
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Joint Loads and Enforced Displacements (BLC 2 : Dead of Ice) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
4	B4T	L	Z	-84.454
5	G4B	L	Z	-84.454
6	G4T	L	Z	-84.454
7	A2B	L	Z	-58.044
8	A2T	L	Z	-58.044
9	B2B	L	Z	-58.044
10	B2T	L	Z	-58.044
11	G2B	L	Z	-58.044
12	G2T	L	Z	-58.044
13	A3B	L	Z	-60.47
14	A3T	L	Z	-60.47
15	B3B	L	Z	-60.47
16	B3T	L	Z	-60.47
17	G3B	L	Z	-60.47
18	G3T	L	Z	-60.47
19	A1B	L	Z	-37.963
20	A1T	L	Z	-37.963
21	B1B	L	Z	-37.963
22	B1T	L	Z	-37.963
23	G1B	L	Z	-37.963
24	G1T	L	Z	-37.963
25	A2R	L	Z	-28.456
26	B2R	L	Z	-28.456
27	G2R	L	Z	-28.456
28	A4R	L	Z	-40.028
29	B4R	L	Z	-40.028
30	G4R	L	Z	-40.028
31	A3R	L	Z	-37.065
32	B3R	L	Z	-37.065
33	G3R	L	Z	-37.065
34	A4R	L	Z	-47.635
35	B4R	L	Z	-47.635
36	G4R	L	Z	-47.635
37	A1R	L	Z	-51.721
38	B1R	L	Z	-51.721
39	G1R	L	Z	-51.721
40	A3R	L	Z	-50.193

Joint Loads and Enforced Displacements (BLC 20 : Antenna Wind (0))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	-228.047
2	A4B	L	Y	0
3	A4T	L	X	-228.047
4	A4T	L	Y	0
5	B4B	L	X	-121.323
6	B4B	L	Y	0
7	B4T	L	X	-121.323
8	B4T	L	Y	0
9	G4B	L	X	-121.323
10	G4B	L	Y	0
11	G4T	L	X	-121.323
12	G4T	L	Y	0
13	A2B	L	X	-112.392
14	A2B	L	Y	0
15	A2T	L	X	-112.392
16	A2T	L	Y	0

Joint Loads and Enforced Displacements (BLC 20 : Antenna Wind (0)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
17	B2B	L	X -82.904
18	B2B	L	Y 0
19	B2T	L	X -82.904
20	B2T	L	Y 0
21	G2B	L	X -82.904
22	G2B	L	Y 0
23	G2T	L	X -82.904
24	G2T	L	Y 0
25	A3B	L	X -128.876
26	A3B	L	Y 0
27	A3T	L	X -128.876
28	A3T	L	Y 0
29	B3B	L	X -100.18
30	B3B	L	Y 0
31	B3T	L	X -100.18
32	B3T	L	Y 0
33	G3B	L	X -100.18
34	G3B	L	Y 0
35	G3T	L	X -100.18
36	G3T	L	Y 0
37	A1B	L	X -68.346
38	A1B	L	Y 0
39	A1T	L	X -68.346
40	A1T	L	Y 0
41	B1B	L	X -35.532
42	B1B	L	Y 0
43	B1T	L	X -35.532
44	B1T	L	Y 0
45	G1B	L	X -35.532
46	G1B	L	Y 0
47	G1T	L	X -35.532
48	G1T	L	Y 0
49	A2R	L	X -62.729
50	A2R	L	Y 0
51	B2R	L	X -33.985
52	B2R	L	Y 0
53	G2R	L	X -33.985
54	G2R	L	Y 0
55	A4R	L	X -62.776
56	A4R	L	Y 0
57	B4R	L	X -52.924
58	B4R	L	Y 0
59	G4R	L	X -52.924
60	G4R	L	Y 0
61	A3R	L	X -70.341
62	A3R	L	Y 0
63	B3R	L	X -47.9
64	B3R	L	Y 0
65	G3R	L	X -47.9
66	G3R	L	Y 0
67	A4R	L	X -75.59
68	A4R	L	Y 0
69	B4R	L	X -67.43
70	B4R	L	Y 0
71	G4R	L	X -67.43
72	G4R	L	Y 0
73	A1R	L	X -63.679

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 Job Number : 01955051
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Joint Loads and Enforced Displacements (BLC 20 : Antenna Wind (0)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
74	A1R	L	Y	0
75	B1R	L	X	-42.656
76	B1R	L	Y	0
77	G1R	L	X	-42.656
78	G1R	L	Y	0
79	A3R	L	X	-46.257
80	A3R	L	Y	0

Joint Loads and Enforced Displacements (BLC 21 : Antenna Wind (30))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	-166.686
2	A4B	L	Y	96.236
3	A4T	L	X	-166.686
4	A4T	L	Y	96.236
5	B4B	L	X	-74.261
6	B4B	L	Y	42.874
7	B4T	L	X	-74.261
8	B4T	L	Y	42.874
9	G4B	L	X	-166.686
10	G4B	L	Y	96.236
11	G4T	L	X	-166.686
12	G4T	L	Y	96.236
13	A2B	L	X	-88.822
14	A2B	L	Y	51.281
15	A2T	L	X	-88.822
16	A2T	L	Y	51.281
17	B2B	L	X	-63.284
18	B2B	L	Y	36.537
19	B2T	L	X	-63.284
20	B2T	L	Y	36.537
21	G2B	L	X	-88.822
22	G2B	L	Y	51.281
23	G2T	L	X	-88.822
24	G2T	L	Y	51.281
25	A3B	L	X	-103.326
26	A3B	L	Y	59.655
27	A3T	L	X	-103.326
28	A3T	L	Y	59.655
29	B3B	L	X	-78.474
30	B3B	L	Y	45.307
31	B3T	L	X	-78.474
32	B3T	L	Y	45.307
33	G3B	L	X	-103.326
34	G3B	L	Y	59.655
35	G3T	L	X	-103.326
36	G3T	L	Y	59.655
37	A1B	L	X	-49.717
38	A1B	L	Y	28.704
39	A1T	L	X	-49.717
40	A1T	L	Y	28.704
41	B1B	L	X	-21.299
42	B1B	L	Y	12.297
43	B1T	L	X	-21.299
44	B1T	L	Y	12.297
45	G1B	L	X	-49.717
46	G1B	L	Y	28.704

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Joint Loads and Enforced Displacements (BLC 21 : Antenna Wind (30)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
47	G1T	L	X -49.717
48	G1T	L	Y 28.704
49	A2R	L	X -46.027
50	A2R	L	Y 26.574
51	B2R	L	X -21.134
52	B2R	L	Y 12.202
53	G2R	L	X -46.027
54	G2R	L	Y 26.574
55	A4R	L	X -51.522
56	A4R	L	Y 29.746
57	B4R	L	X -42.99
58	B4R	L	Y 24.82
59	G4R	L	X -51.522
60	G4R	L	Y 29.746
61	A3R	L	X -54.439
62	A3R	L	Y 31.43
63	B3R	L	X -35.005
64	B3R	L	Y 20.21
65	G3R	L	X -54.439
66	G3R	L	Y 31.43
67	A4R	L	X -63.107
68	A4R	L	Y 36.435
69	B4R	L	X -56.04
70	B4R	L	Y 32.355
71	G4R	L	X -63.107
72	G4R	L	Y 36.435
73	A1R	L	X -49.079
74	A1R	L	Y 28.336
75	B1R	L	X -30.873
76	B1R	L	Y 17.824
77	G1R	L	X -49.079
78	G1R	L	Y 28.336
79	A3R	L	X -40.06
80	A3R	L	Y 23.129

Joint Loads and Enforced Displacements (BLC 22 : Antenna Wind (45))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
1	A4B	L	X -110.944
2	A4B	L	Y 110.944
3	A4T	L	X -110.944
4	A4T	L	Y 110.944
5	B4B	L	X -67.374
6	B4B	L	Y 67.374
7	B4T	L	X -67.374
8	B4T	L	Y 67.374
9	G4B	L	X -154.513
10	G4B	L	Y 154.513
11	G4T	L	X -154.513
12	G4T	L	Y 154.513
13	A2B	L	X -65.572
14	A2B	L	Y 65.572
15	A2T	L	X -65.572
16	A2T	L	Y 65.572
17	B2B	L	X -53.534
18	B2B	L	Y 53.534
19	B2T	L	X -53.534

Joint Loads and Enforced Displacements (BLC 22 : Antenna Wind (45)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
20	B2T	L	Y 53.534
21	G2B	L	X -77.611
22	G2B	L	Y 77.611
23	G2T	L	X -77.611
24	G2T	L	Y 77.611
25	A3B	L	X -77.602
26	A3B	L	Y 77.602
27	A3T	L	X -77.602
28	A3T	L	Y 77.602
29	B3B	L	X -65.886
30	B3B	L	Y 65.886
31	B3T	L	X -65.886
32	B3T	L	Y 65.886
33	G3B	L	X -89.317
34	G3B	L	Y 89.317
35	G3T	L	X -89.317
36	G3T	L	Y 89.317
37	A1B	L	X -32.859
38	A1B	L	Y 32.859
39	A1T	L	X -32.859
40	A1T	L	Y 32.859
41	B1B	L	X -19.463
42	B1B	L	Y 19.463
43	B1T	L	X -19.463
44	B1T	L	Y 19.463
45	G1B	L	X -46.256
46	G1B	L	Y 46.256
47	G1T	L	X -46.256
48	G1T	L	Y 46.256
49	A2R	L	X -30.806
50	A2R	L	Y 30.806
51	B2R	L	X -19.071
52	B2R	L	Y 19.071
53	G2R	L	X -42.541
54	G2R	L	Y 42.541
55	A4R	L	X -39.745
56	A4R	L	Y 39.745
57	B4R	L	X -35.723
58	B4R	L	Y 35.723
59	G4R	L	X -43.767
60	G4R	L	Y 43.767
61	A3R	L	X -39.16
62	A3R	L	Y 39.16
63	B3R	L	X -29.998
64	B3R	L	Y 29.998
65	G3R	L	X -48.321
66	G3R	L	Y 48.321
67	A4R	L	X -49.604
68	A4R	L	Y 49.604
69	B4R	L	X -46.272
70	B4R	L	Y 46.272
71	G4R	L	X -52.935
72	G4R	L	Y 52.935
73	A1R	L	X -35.118
74	A1R	L	Y 35.118
75	B1R	L	X -26.535
76	B1R	L	Y 26.535

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Joint Loads and Enforced Displacements (BLC 22 : Antenna Wind (45)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
77 G1R	L	X	-43.7
78 G1R	L	Y	43.7
79 A3R	L	X	-32.709
80 A3R	L	Y	32.709

Joint Loads and Enforced Displacements (BLC 23 : Antenna Wind (60))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
1 A4B	L	X	-60.662
2 A4B	L	Y	105.069
3 A4T	L	X	-60.662
4 A4T	L	Y	105.069
5 B4B	L	X	-60.662
6 B4B	L	Y	105.069
7 B4T	L	X	-60.662
8 B4T	L	Y	105.069
9 G4B	L	X	-114.023
10 G4B	L	Y	197.494
11 G4T	L	X	-114.023
12 G4T	L	Y	197.494
13 A2B	L	X	-41.452
14 A2B	L	Y	71.797
15 A2T	L	X	-41.452
16 A2T	L	Y	71.797
17 B2B	L	X	-41.452
18 B2B	L	Y	71.797
19 B2T	L	X	-41.452
20 B2T	L	Y	71.797
21 G2B	L	X	-56.196
22 G2B	L	Y	97.334
23 G2T	L	X	-56.196
24 G2T	L	Y	97.334
25 A3B	L	X	-50.09
26 A3B	L	Y	86.758
27 A3T	L	X	-50.09
28 A3T	L	Y	86.758
29 B3B	L	X	-50.09
30 B3B	L	Y	86.758
31 B3T	L	X	-50.09
32 B3T	L	Y	86.758
33 G3B	L	X	-64.438
34 G3B	L	Y	111.61
35 G3T	L	X	-64.438
36 G3T	L	Y	111.61
37 A1B	L	X	-17.766
38 A1B	L	Y	30.772
39 A1T	L	X	-17.766
40 A1T	L	Y	30.772
41 B1B	L	X	-17.766
42 B1B	L	Y	30.772
43 B1T	L	X	-17.766
44 B1T	L	Y	30.772
45 G1B	L	X	-34.173
46 G1B	L	Y	59.19
47 G1T	L	X	-34.173
48 G1T	L	Y	59.19
49 A2R	L	X	-16.992

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Joint Loads and Enforced Displacements (BLC 23 : Antenna Wind (60)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
50	A2R	L	Y 29.432
51	B2R	L	X -16.992
52	B2R	L	Y 29.432
53	G2R	L	X -31.364
54	G2R	L	Y 54.325
55	A4R	L	X -26.462
56	A4R	L	Y 45.834
57	B4R	L	X -26.462
58	B4R	L	Y 45.834
59	G4R	L	X -31.388
60	G4R	L	Y 54.366
61	A3R	L	X -23.95
62	A3R	L	Y 41.483
63	B3R	L	X -23.95
64	B3R	L	Y 41.483
65	G3R	L	X -35.17
66	G3R	L	Y 60.917
67	A4R	L	X -33.715
68	A4R	L	Y 58.396
69	B4R	L	X -33.715
70	B4R	L	Y 58.396
71	G4R	L	X -37.795
72	G4R	L	Y 65.463
73	A1R	L	X -21.328
74	A1R	L	Y 36.941
75	B1R	L	X -21.328
76	B1R	L	Y 36.941
77	G1R	L	X -31.84
78	G1R	L	Y 55.148
79	A3R	L	X -23.129
80	A3R	L	Y 40.06

Joint Loads and Enforced Displacements (BLC 24 : Antenna Wind (90))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
1	A4B	L	X -1.945e-5
2	A4B	L	Y 85.749
3	A4T	L	X -1.945e-5
4	A4T	L	Y 85.749
5	B4B	L	X -4.365e-5
6	B4B	L	Y 192.472
7	B4T	L	X -4.365e-5
8	B4T	L	Y 192.472
9	G4B	L	X -4.365e-5
10	G4B	L	Y 192.472
11	G4T	L	X -4.365e-5
12	G4T	L	Y 192.472
13	A2B	L	X -1.657e-5
14	A2B	L	Y 73.074
15	A2T	L	X -1.657e-5
16	A2T	L	Y 73.074
17	B2B	L	X -2.326e-5
18	B2B	L	Y 102.563
19	B2T	L	X -2.326e-5
20	B2T	L	Y 102.563
21	G2B	L	X -2.326e-5
22	G2B	L	Y 102.563

Joint Loads and Enforced Displacements (BLC 24 : Antenna Wind (90)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
23	G2T	L	X -2.326e-5
24	G2T	L	Y 102.563
25	A3B	L	X -2.055e-5
26	A3B	L	Y 90.614
27	A3T	L	X -2.055e-5
28	A3T	L	Y 90.614
29	B3B	L	X -2.706e-5
30	B3B	L	Y 119.311
31	B3T	L	X -2.706e-5
32	B3T	L	Y 119.311
33	G3B	L	X -2.706e-5
34	G3B	L	Y 119.311
35	G3T	L	X -2.706e-5
36	G3T	L	Y 119.311
37	A1B	L	X -5.578e-6
38	A1B	L	Y 24.594
39	A1T	L	X -5.578e-6
40	A1T	L	Y 24.594
41	B1B	L	X -1.302e-5
42	B1B	L	Y 57.408
43	B1T	L	X -1.302e-5
44	B1T	L	Y 57.408
45	G1B	L	X -1.302e-5
46	G1B	L	Y 57.408
47	G1T	L	X -1.302e-5
48	G1T	L	Y 57.408
49	A2R	L	X -5.535e-6
50	A2R	L	Y 24.403
51	B2R	L	X -1.205e-5
52	B2R	L	Y 53.147
53	G2R	L	X -1.205e-5
54	G2R	L	Y 53.147
55	A4R	L	X -1.126e-5
56	A4R	L	Y 49.64
57	B4R	L	X -1.349e-5
58	B4R	L	Y 59.492
59	G4R	L	X -1.349e-5
60	G4R	L	Y 59.492
61	A3R	L	X -9.167e-6
62	A3R	L	Y 40.42
63	B3R	L	X -1.426e-5
64	B3R	L	Y 62.861
65	G3R	L	X -1.426e-5
66	G3R	L	Y 62.861
67	A4R	L	X -1.468e-5
68	A4R	L	Y 64.71
69	B4R	L	X -1.653e-5
70	B4R	L	Y 72.87
71	G4R	L	X -1.653e-5
72	G4R	L	Y 72.87
73	A1R	L	X -8.085e-6
74	A1R	L	Y 35.649
75	B1R	L	X -1.285e-5
76	B1R	L	Y 56.671
77	G1R	L	X -1.285e-5
78	G1R	L	Y 56.671
79	A3R	L	X -1.049e-5

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Joint Loads and Enforced Displacements (BLC 24 : Antenna Wind (90)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
80 A3R	L	Y	46.257

Joint Loads and Enforced Displacements (BLC 25 : Antenna Wind (120))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
1 A4B	L	X	60.662
2 A4B	L	Y	105.069
3 A4T	L	X	60.662
4 A4T	L	Y	105.069
5 B4B	L	X	114.023
6 B4B	L	Y	197.494
7 B4T	L	X	114.023
8 B4T	L	Y	197.494
9 G4B	L	X	60.662
10 G4B	L	Y	105.069
11 G4T	L	X	60.662
12 G4T	L	Y	105.069
13 A2B	L	X	41.452
14 A2B	L	Y	71.797
15 A2T	L	X	41.452
16 A2T	L	Y	71.797
17 B2B	L	X	56.196
18 B2B	L	Y	97.334
19 B2T	L	X	56.196
20 B2T	L	Y	97.334
21 G2B	L	X	41.452
22 G2B	L	Y	71.797
23 G2T	L	X	41.452
24 G2T	L	Y	71.797
25 A3B	L	X	50.09
26 A3B	L	Y	86.758
27 A3T	L	X	50.09
28 A3T	L	Y	86.758
29 B3B	L	X	64.438
30 B3B	L	Y	111.61
31 B3T	L	X	64.438
32 B3T	L	Y	111.61
33 G3B	L	X	50.09
34 G3B	L	Y	86.758
35 G3T	L	X	50.09
36 G3T	L	Y	86.758
37 A1B	L	X	17.766
38 A1B	L	Y	30.772
39 A1T	L	X	17.766
40 A1T	L	Y	30.772
41 B1B	L	X	34.173
42 B1B	L	Y	59.19
43 B1T	L	X	34.173
44 B1T	L	Y	59.19
45 G1B	L	X	17.766
46 G1B	L	Y	30.772
47 G1T	L	X	17.766
48 G1T	L	Y	30.772
49 A2R	L	X	16.992
50 A2R	L	Y	29.432
51 B2R	L	X	31.364
52 B2R	L	Y	54.325

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Joint Loads and Enforced Displacements (BLC 25 : Antenna Wind (120)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]	
53	G2R	L	X	16.992
54	G2R	L	Y	29.432
55	A4R	L	X	26.462
56	A4R	L	Y	45.834
57	B4R	L	X	31.388
58	B4R	L	Y	54.366
59	G4R	L	X	26.462
60	G4R	L	Y	45.834
61	A3R	L	X	23.95
62	A3R	L	Y	41.483
63	B3R	L	X	35.17
64	B3R	L	Y	60.917
65	G3R	L	X	23.95
66	G3R	L	Y	41.483
67	A4R	L	X	33.715
68	A4R	L	Y	58.396
69	B4R	L	X	37.795
70	B4R	L	Y	65.463
71	G4R	L	X	33.715
72	G4R	L	Y	58.396
73	A1R	L	X	21.328
74	A1R	L	Y	36.941
75	B1R	L	X	31.84
76	B1R	L	Y	55.148
77	G1R	L	X	21.328
78	G1R	L	Y	36.941
79	A3R	L	X	23.129
80	A3R	L	Y	40.06

Joint Loads and Enforced Displacements (BLC 26 : Antenna Wind (135))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]	
1	A4B	L	X	110.943
2	A4B	L	Y	110.944
3	A4T	L	X	110.943
4	A4T	L	Y	110.944
5	B4B	L	X	154.513
6	B4B	L	Y	154.513
7	B4T	L	X	154.513
8	B4T	L	Y	154.513
9	G4B	L	X	67.374
10	G4B	L	Y	67.374
11	G4T	L	X	67.374
12	G4T	L	Y	67.374
13	A2B	L	X	65.572
14	A2B	L	Y	65.572
15	A2T	L	X	65.572
16	A2T	L	Y	65.572
17	B2B	L	X	77.611
18	B2B	L	Y	77.611
19	B2T	L	X	77.611
20	B2T	L	Y	77.611
21	G2B	L	X	53.534
22	G2B	L	Y	53.534
23	G2T	L	X	53.534
24	G2T	L	Y	53.534
25	A3B	L	X	77.602

Joint Loads and Enforced Displacements (BLC 26 : Antenna Wind (135)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
26	A3B	L	Y 77.602
27	A3T	L	X 77.602
28	A3T	L	Y 77.602
29	B3B	L	X 89.317
30	B3B	L	Y 89.317
31	B3T	L	X 89.317
32	B3T	L	Y 89.317
33	G3B	L	X 65.886
34	G3B	L	Y 65.886
35	G3T	L	X 65.886
36	G3T	L	Y 65.886
37	A1B	L	X 32.859
38	A1B	L	Y 32.859
39	A1T	L	X 32.859
40	A1T	L	Y 32.859
41	B1B	L	X 46.256
42	B1B	L	Y 46.256
43	B1T	L	X 46.256
44	B1T	L	Y 46.256
45	G1B	L	X 19.463
46	G1B	L	Y 19.463
47	G1T	L	X 19.463
48	G1T	L	Y 19.463
49	A2R	L	X 30.806
50	A2R	L	Y 30.806
51	B2R	L	X 42.541
52	B2R	L	Y 42.541
53	G2R	L	X 19.071
54	G2R	L	Y 19.071
55	A4R	L	X 39.745
56	A4R	L	Y 39.745
57	B4R	L	X 43.767
58	B4R	L	Y 43.767
59	G4R	L	X 35.723
60	G4R	L	Y 35.723
61	A3R	L	X 39.16
62	A3R	L	Y 39.16
63	B3R	L	X 48.321
64	B3R	L	Y 48.321
65	G3R	L	X 29.998
66	G3R	L	Y 29.998
67	A4R	L	X 49.604
68	A4R	L	Y 49.604
69	B4R	L	X 52.935
70	B4R	L	Y 52.935
71	G4R	L	X 46.272
72	G4R	L	Y 46.272
73	A1R	L	X 35.118
74	A1R	L	Y 35.118
75	B1R	L	X 43.7
76	B1R	L	Y 43.7
77	G1R	L	X 26.535
78	G1R	L	Y 26.535
79	A3R	L	X 32.709
80	A3R	L	Y 32.709

Joint Loads and Enforced Displacements (BLC 27 : Antenna Wind (150))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/rad)]
1 A4B	L	X	166.686
2 A4B	L	Y	96.236
3 A4T	L	X	166.686
4 A4T	L	Y	96.236
5 B4B	L	X	166.686
6 B4B	L	Y	96.236
7 B4T	L	X	166.686
8 B4T	L	Y	96.236
9 G4B	L	X	74.261
10 G4B	L	Y	42.875
11 G4T	L	X	74.261
12 G4T	L	Y	42.875
13 A2B	L	X	88.822
14 A2B	L	Y	51.281
15 A2T	L	X	88.822
16 A2T	L	Y	51.281
17 B2B	L	X	88.822
18 B2B	L	Y	51.281
19 B2T	L	X	88.822
20 B2T	L	Y	51.281
21 G2B	L	X	63.284
22 G2B	L	Y	36.537
23 G2T	L	X	63.284
24 G2T	L	Y	36.537
25 A3B	L	X	103.326
26 A3B	L	Y	59.655
27 A3T	L	X	103.326
28 A3T	L	Y	59.655
29 B3B	L	X	103.326
30 B3B	L	Y	59.655
31 B3T	L	X	103.326
32 B3T	L	Y	59.655
33 G3B	L	X	78.474
34 G3B	L	Y	45.307
35 G3T	L	X	78.474
36 G3T	L	Y	45.307
37 A1B	L	X	49.717
38 A1B	L	Y	28.704
39 A1T	L	X	49.717
40 A1T	L	Y	28.704
41 B1B	L	X	49.717
42 B1B	L	Y	28.704
43 B1T	L	X	49.717
44 B1T	L	Y	28.704
45 G1B	L	X	21.299
46 G1B	L	Y	12.297
47 G1T	L	X	21.299
48 G1T	L	Y	12.297
49 A2R	L	X	46.027
50 A2R	L	Y	26.574
51 B2R	L	X	46.027
52 B2R	L	Y	26.574
53 G2R	L	X	21.134
54 G2R	L	Y	12.202
55 A4R	L	X	51.522
56 A4R	L	Y	29.746
57 B4R	L	X	51.522

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Joint Loads and Enforced Displacements (BLC 27 : Antenna Wind (150)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
58	B4R	L	Y	29.746
59	G4R	L	X	42.99
60	G4R	L	Y	24.82
61	A3R	L	X	54.439
62	A3R	L	Y	31.43
63	B3R	L	X	54.439
64	B3R	L	Y	31.43
65	G3R	L	X	35.005
66	G3R	L	Y	20.21
67	A4R	L	X	63.107
68	A4R	L	Y	36.435
69	B4R	L	X	63.107
70	B4R	L	Y	36.435
71	G4R	L	X	56.04
72	G4R	L	Y	32.355
73	A1R	L	X	49.079
74	A1R	L	Y	28.336
75	B1R	L	X	49.079
76	B1R	L	Y	28.336
77	G1R	L	X	30.873
78	G1R	L	Y	17.824
79	A3R	L	X	40.06
80	A3R	L	Y	23.129

Joint Loads and Enforced Displacements (BLC 28 : Antenna Wind w/ Ice (0))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	-44.806
2	A4B	L	Y	0
3	A4T	L	X	-44.806
4	A4T	L	Y	0
5	B4B	L	X	-25.407
6	B4B	L	Y	0
7	B4T	L	X	-25.407
8	B4T	L	Y	0
9	G4B	L	X	-25.407
10	G4B	L	Y	0
11	G4T	L	X	-25.407
12	G4T	L	Y	0
13	A2B	L	X	-23.294
14	A2B	L	Y	0
15	A2T	L	X	-23.294
16	A2T	L	Y	0
17	B2B	L	X	-17.954
18	B2B	L	Y	0
19	B2T	L	X	-17.954
20	B2T	L	Y	0
21	G2B	L	X	-17.954
22	G2B	L	Y	0
23	G2T	L	X	-17.954
24	G2T	L	Y	0
25	A3B	L	X	-26.711
26	A3B	L	Y	0
27	A3T	L	X	-26.711
28	A3T	L	Y	0
29	B3B	L	X	-21.488
30	B3B	L	Y	0

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Joint Loads and Enforced Displacements (BLC 28 : Antenna Wind w/ Ice (0)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
31	B3T	L	X	-21.488
32	B3T	L	Y	0
33	G3B	L	X	-21.488
34	G3B	L	Y	0
35	G3T	L	X	-21.488
36	G3T	L	Y	0
37	A1B	L	X	-14.49
38	A1B	L	Y	0
39	A1T	L	X	-14.49
40	A1T	L	Y	0
41	B1B	L	X	-8.108
42	B1B	L	Y	0
43	B1T	L	X	-8.108
44	B1T	L	Y	0
45	G1B	L	X	-8.108
46	G1B	L	Y	0
47	G1T	L	X	-8.108
48	G1T	L	Y	0
49	A2R	L	X	-14.601
50	A2R	L	Y	0
51	B2R	L	X	-8.811
52	B2R	L	Y	0
53	G2R	L	X	-8.811
54	G2R	L	Y	0
55	A4R	L	X	-14.611
56	A4R	L	Y	0
57	B4R	L	X	-12.647
58	B4R	L	Y	0
59	G4R	L	X	-12.647
60	G4R	L	Y	0
61	A3R	L	X	-16.138
62	A3R	L	Y	0
63	B3R	L	X	-11.719
64	B3R	L	Y	0
65	G3R	L	X	-11.719
66	G3R	L	Y	0
67	A4R	L	X	-17.208
68	A4R	L	Y	0
69	B4R	L	X	-15.617
70	B4R	L	Y	0
71	G4R	L	X	-15.617
72	G4R	L	Y	0
73	A1R	L	X	-14.786
74	A1R	L	Y	0
75	B1R	L	X	-11.929
76	B1R	L	Y	0
77	G1R	L	X	-11.929
78	G1R	L	Y	0
79	A3R	L	X	-11.526
80	A3R	L	Y	0

Joint Loads and Enforced Displacements (BLC 29 : Antenna Wind w/ Ice (30))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	-33.203
2	A4B	L	Y	19.17
3	A4T	L	X	-33.203

Joint Loads and Enforced Displacements (BLC 29 : Antenna Wind w/ Ice (30)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
4	A4T	L	Y 19.17
5	B4B	L	X -16.402
6	B4B	L	Y 9.47
7	B4T	L	X -16.402
8	B4T	L	Y 9.47
9	G4B	L	X -33.203
10	G4B	L	Y 19.17
11	G4T	L	X -33.203
12	G4T	L	Y 19.17
13	A2B	L	X -18.632
14	A2B	L	Y 10.757
15	A2T	L	X -18.632
16	A2T	L	Y 10.757
17	B2B	L	X -14.007
18	B2B	L	Y 8.087
19	B2T	L	X -14.007
20	B2T	L	Y 8.087
21	G2B	L	X -18.632
22	G2B	L	Y 10.757
23	G2T	L	X -18.632
24	G2T	L	Y 10.757
25	A3B	L	X -21.625
26	A3B	L	Y 12.485
27	A3T	L	X -21.625
28	A3T	L	Y 12.485
29	B3B	L	X -17.102
30	B3B	L	Y 9.874
31	B3T	L	X -17.102
32	B3T	L	Y 9.874
33	G3B	L	X -21.625
34	G3B	L	Y 12.485
35	G3T	L	X -21.625
36	G3T	L	Y 12.485
37	A1B	L	X -10.707
38	A1B	L	Y 6.181
39	A1T	L	X -10.707
40	A1T	L	Y 6.181
41	B1B	L	X -5.179
42	B1B	L	Y 2.99
43	B1T	L	X -5.179
44	B1T	L	Y 2.99
45	G1B	L	X -10.707
46	G1B	L	Y 6.181
47	G1T	L	X -10.707
48	G1T	L	Y 6.181
49	A2R	L	X -10.973
50	A2R	L	Y 6.336
51	B2R	L	X -5.958
52	B2R	L	Y 3.44
53	G2R	L	X -10.973
54	G2R	L	Y 6.336
55	A4R	L	X -12.087
56	A4R	L	Y 6.978
57	B4R	L	X -10.386
58	B4R	L	Y 5.996
59	G4R	L	X -12.087
60	G4R	L	Y 6.978

Joint Loads and Enforced Displacements (BLC 29 : Antenna Wind w/ Ice (30)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
61	A3R	L	X -12.7
62	A3R	L	Y 7.333
63	B3R	L	X -8.874
64	B3R	L	Y 5.123
65	G3R	L	X -12.7
66	G3R	L	Y 7.333
67	A4R	L	X -14.444
68	A4R	L	Y 8.339
69	B4R	L	X -13.066
70	B4R	L	Y 7.544
71	G4R	L	X -14.444
72	G4R	L	Y 8.339
73	A1R	L	X -11.98
74	A1R	L	Y 6.917
75	B1R	L	X -9.506
76	B1R	L	Y 5.488
77	G1R	L	X -11.98
78	G1R	L	Y 6.917
79	A3R	L	X -9.982
80	A3R	L	Y 5.763

Joint Loads and Enforced Displacements (BLC 30 : Antenna Wind w/ Ice (45))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
1	A4B	L	X -22.538
2	A4B	L	Y 22.538
3	A4T	L	X -22.538
4	A4T	L	Y 22.538
5	B4B	L	X -14.618
6	B4B	L	Y 14.618
7	B4T	L	X -14.618
8	B4T	L	Y 14.618
9	G4B	L	X -30.458
10	G4B	L	Y 30.458
11	G4T	L	X -30.458
12	G4T	L	Y 30.458
13	A2B	L	X -13.954
14	A2B	L	Y 13.954
15	A2T	L	X -13.954
16	A2T	L	Y 13.954
17	B2B	L	X -11.774
18	B2B	L	Y 11.774
19	B2T	L	X -11.774
20	B2T	L	Y 11.774
21	G2B	L	X -16.134
22	G2B	L	Y 16.134
23	G2T	L	X -16.134
24	G2T	L	Y 16.134
25	A3B	L	X -16.425
26	A3B	L	Y 16.425
27	A3T	L	X -16.425
28	A3T	L	Y 16.425
29	B3B	L	X -14.293
30	B3B	L	Y 14.293
31	B3T	L	X -14.293
32	B3T	L	Y 14.293
33	G3B	L	X -18.558

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Joint Loads and Enforced Displacements (BLC 30 : Antenna Wind w/ Ice (45)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
34	G3B	L	Y	18.558
35	G3T	L	X	-18.558
36	G3T	L	Y	18.558
37	A1B	L	X	-7.238
38	A1B	L	Y	7.238
39	A1T	L	X	-7.238
40	A1T	L	Y	7.238
41	B1B	L	X	-4.632
42	B1B	L	Y	4.632
43	B1T	L	X	-4.632
44	B1T	L	Y	4.632
45	G1B	L	X	-9.843
46	G1B	L	Y	9.843
47	G1T	L	X	-9.843
48	G1T	L	Y	9.843
49	A2R	L	X	-7.595
50	A2R	L	Y	7.595
51	B2R	L	X	-5.231
52	B2R	L	Y	5.231
53	G2R	L	X	-9.959
54	G2R	L	Y	9.959
55	A4R	L	X	-9.406
56	A4R	L	Y	9.406
57	B4R	L	X	-8.604
58	B4R	L	Y	8.604
59	G4R	L	X	-10.207
60	G4R	L	Y	10.207
61	A3R	L	X	-9.328
62	A3R	L	Y	9.328
63	B3R	L	X	-7.525
64	B3R	L	Y	7.525
65	G3R	L	X	-11.132
66	G3R	L	Y	11.132
67	A4R	L	X	-11.418
68	A4R	L	Y	11.418
69	B4R	L	X	-10.769
70	B4R	L	Y	10.769
71	G4R	L	X	-12.068
72	G4R	L	Y	12.068
73	A1R	L	X	-9.109
74	A1R	L	Y	9.109
75	B1R	L	X	-7.942
76	B1R	L	Y	7.942
77	G1R	L	X	-10.275
78	G1R	L	Y	10.275
79	A3R	L	X	-8.15
80	A3R	L	Y	8.15

Joint Loads and Enforced Displacements (BLC 31 : Antenna Wind w/ Ice (60))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	-12.703
2	A4B	L	Y	22.003
3	A4T	L	X	-12.703
4	A4T	L	Y	22.003
5	B4B	L	X	-12.703
6	B4B	L	Y	22.003

Joint Loads and Enforced Displacements (BLC 31 : Antenna Wind w/ Ice (60)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
7 B4T	L	X	-12.703
8 B4T	L	Y	22.003
9 G4B	L	X	-22.403
10 G4B	L	Y	38.803
11 G4T	L	X	-22.403
12 G4T	L	Y	38.803
13 A2B	L	X	-8.977
14 A2B	L	Y	15.549
15 A2T	L	X	-8.977
16 A2T	L	Y	15.549
17 B2B	L	X	-8.977
18 B2B	L	Y	15.549
19 B2T	L	X	-8.977
20 B2T	L	Y	15.549
21 G2B	L	X	-11.647
22 G2B	L	Y	20.174
23 G2T	L	X	-11.647
24 G2T	L	Y	20.174
25 A3B	L	X	-10.744
26 A3B	L	Y	18.609
27 A3T	L	X	-10.744
28 A3T	L	Y	18.609
29 B3B	L	X	-10.744
30 B3B	L	Y	18.609
31 B3T	L	X	-10.744
32 B3T	L	Y	18.609
33 G3B	L	X	-13.355
34 G3B	L	Y	23.132
35 G3T	L	X	-13.355
36 G3T	L	Y	23.132
37 A1B	L	X	-4.054
38 A1B	L	Y	7.022
39 A1T	L	X	-4.054
40 A1T	L	Y	7.022
41 B1B	L	X	-4.054
42 B1B	L	Y	7.022
43 B1T	L	X	-4.054
44 B1T	L	Y	7.022
45 G1B	L	X	-7.245
46 G1B	L	Y	12.549
47 G1T	L	X	-7.245
48 G1T	L	Y	12.549
49 A2R	L	X	-4.405
50 A2R	L	Y	7.63
51 B2R	L	X	-4.405
52 B2R	L	Y	7.63
53 G2R	L	X	-7.301
54 G2R	L	Y	12.645
55 A4R	L	X	-6.324
56 A4R	L	Y	10.953
57 B4R	L	X	-6.324
58 B4R	L	Y	10.953
59 G4R	L	X	-7.305
60 G4R	L	Y	12.653
61 A3R	L	X	-5.86
62 A3R	L	Y	10.149
63 B3R	L	X	-5.86

Joint Loads and Enforced Displacements (BLC 31 : Antenna Wind w/ Ice (60)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
64	B3R	L	Y 10.149
65	G3R	L	X -8.069
66	G3R	L	Y 13.976
67	A4R	L	X -7.809
68	A4R	L	Y 13.525
69	B4R	L	X -7.809
70	B4R	L	Y 13.525
71	G4R	L	X -8.604
72	G4R	L	Y 14.903
73	A1R	L	X -5.965
74	A1R	L	Y 10.331
75	B1R	L	X -5.965
76	B1R	L	Y 10.331
77	G1R	L	X -7.393
78	G1R	L	Y 12.805
79	A3R	L	X -5.763
80	A3R	L	Y 9.982

Joint Loads and Enforced Displacements (BLC 32 : Antenna Wind w/ Ice (90))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
1	A4B	L	X -4.295e-6
2	A4B	L	Y 18.94
3	A4T	L	X -4.295e-6
4	A4T	L	Y 18.94
5	B4B	L	X -8.695e-6
6	B4B	L	Y 38.34
7	B4T	L	X -8.695e-6
8	B4T	L	Y 38.34
9	G4B	L	X -8.695e-6
10	G4B	L	Y 38.34
11	G4T	L	X -8.695e-6
12	G4T	L	Y 38.34
13	A2B	L	X -3.668e-6
14	A2B	L	Y 16.174
15	A2T	L	X -3.668e-6
16	A2T	L	Y 16.174
17	B2B	L	X -4.879e-6
18	B2B	L	Y 21.514
19	B2T	L	X -4.879e-6
20	B2T	L	Y 21.514
21	G2B	L	X -4.879e-6
22	G2B	L	Y 21.514
23	G2T	L	X -4.879e-6
24	G2T	L	Y 21.514
25	A3B	L	X -4.479e-6
26	A3B	L	Y 19.747
27	A3T	L	X -4.479e-6
28	A3T	L	Y 19.747
29	B3B	L	X -5.663e-6
30	B3B	L	Y 24.97
31	B3T	L	X -5.663e-6
32	B3T	L	Y 24.97
33	G3B	L	X -5.663e-6
34	G3B	L	Y 24.97
35	G3T	L	X -5.663e-6
36	G3T	L	Y 24.97

Joint Loads and Enforced Displacements (BLC 32 : Antenna Wind w/ Ice (90)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
37	A1B	L	X	-1.356e-6
38	A1B	L	Y	5.981
39	A1T	L	X	-1.356e-6
40	A1T	L	Y	5.981
41	B1B	L	X	-2.804e-6
42	B1B	L	Y	12.363
43	B1T	L	X	-2.804e-6
44	B1T	L	Y	12.363
45	G1B	L	X	-2.804e-6
46	G1B	L	Y	12.363
47	G1T	L	X	-2.804e-6
48	G1T	L	Y	12.363
49	A2R	L	X	-1.56e-6
50	A2R	L	Y	6.88
51	B2R	L	X	-2.874e-6
52	B2R	L	Y	12.671
53	G2R	L	X	-2.874e-6
54	G2R	L	Y	12.671
55	A4R	L	X	-2.72e-6
56	A4R	L	Y	11.993
57	B4R	L	X	-3.165e-6
58	B4R	L	Y	13.956
59	G4R	L	X	-3.165e-6
60	G4R	L	Y	13.956
61	A3R	L	X	-2.324e-6
62	A3R	L	Y	10.247
63	B3R	L	X	-3.326e-6
64	B3R	L	Y	14.665
65	G3R	L	X	-3.326e-6
66	G3R	L	Y	14.665
67	A4R	L	X	-3.422e-6
68	A4R	L	Y	15.087
69	B4R	L	X	-3.783e-6
70	B4R	L	Y	16.678
71	G4R	L	X	-3.783e-6
72	G4R	L	Y	16.678
73	A1R	L	X	-2.49e-6
74	A1R	L	Y	10.977
75	B1R	L	X	-3.137e-6
76	B1R	L	Y	13.834
77	G1R	L	X	-3.137e-6
78	G1R	L	Y	13.834
79	A3R	L	X	-2.614e-6
80	A3R	L	Y	11.526

Joint Loads and Enforced Displacements (BLC 33 : Antenna Wind w/ Ice (120))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	12.703
2	A4B	L	Y	22.003
3	A4T	L	X	12.703
4	A4T	L	Y	22.003
5	B4B	L	X	22.403
6	B4B	L	Y	38.803
7	B4T	L	X	22.403
8	B4T	L	Y	38.803
9	G4B	L	X	12.703

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 Designer : RJL
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 Model Name : 876352

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Joint Loads and Enforced Displacements (BLC 33 : Antenna Wind w/ Ice (120)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
10	G4B	L	Y 22.003
11	G4T	L	X 12.703
12	G4T	L	Y 22.003
13	A2B	L	X 8.977
14	A2B	L	Y 15.549
15	A2T	L	X 8.977
16	A2T	L	Y 15.549
17	B2B	L	X 11.647
18	B2B	L	Y 20.174
19	B2T	L	X 11.647
20	B2T	L	Y 20.174
21	G2B	L	X 8.977
22	G2B	L	Y 15.549
23	G2T	L	X 8.977
24	G2T	L	Y 15.549
25	A3B	L	X 10.744
26	A3B	L	Y 18.609
27	A3T	L	X 10.744
28	A3T	L	Y 18.609
29	B3B	L	X 13.355
30	B3B	L	Y 23.132
31	B3T	L	X 13.355
32	B3T	L	Y 23.132
33	G3B	L	X 10.744
34	G3B	L	Y 18.609
35	G3T	L	X 10.744
36	G3T	L	Y 18.609
37	A1B	L	X 4.054
38	A1B	L	Y 7.022
39	A1T	L	X 4.054
40	A1T	L	Y 7.022
41	B1B	L	X 7.245
42	B1B	L	Y 12.549
43	B1T	L	X 7.245
44	B1T	L	Y 12.549
45	G1B	L	X 4.054
46	G1B	L	Y 7.022
47	G1T	L	X 4.054
48	G1T	L	Y 7.022
49	A2R	L	X 4.405
50	A2R	L	Y 7.63
51	B2R	L	X 7.301
52	B2R	L	Y 12.645
53	G2R	L	X 4.405
54	G2R	L	Y 7.63
55	A4R	L	X 6.324
56	A4R	L	Y 10.953
57	B4R	L	X 7.305
58	B4R	L	Y 12.653
59	G4R	L	X 6.324
60	G4R	L	Y 10.953
61	A3R	L	X 5.86
62	A3R	L	Y 10.149
63	B3R	L	X 8.069
64	B3R	L	Y 13.976
65	G3R	L	X 5.86
66	G3R	L	Y 10.149

Joint Loads and Enforced Displacements (BLC 33 : Antenna Wind w/ Ice (120)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
67	A4R	L	X 7.809
68	A4R	L	Y 13.525
69	B4R	L	X 8.604
70	B4R	L	Y 14.903
71	G4R	L	X 7.809
72	G4R	L	Y 13.525
73	A1R	L	X 5.965
74	A1R	L	Y 10.331
75	B1R	L	X 7.393
76	B1R	L	Y 12.805
77	G1R	L	X 5.965
78	G1R	L	Y 10.331
79	A3R	L	X 5.763
80	A3R	L	Y 9.982

Joint Loads and Enforced Displacements (BLC 34 : Antenna Wind w/ Ice (135))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
1	A4B	L	X 22.538
2	A4B	L	Y 22.538
3	A4T	L	X 22.538
4	A4T	L	Y 22.538
5	B4B	L	X 30.458
6	B4B	L	Y 30.458
7	B4T	L	X 30.458
8	B4T	L	Y 30.458
9	G4B	L	X 14.618
10	G4B	L	Y 14.618
11	G4T	L	X 14.618
12	G4T	L	Y 14.618
13	A2B	L	X 13.954
14	A2B	L	Y 13.954
15	A2T	L	X 13.954
16	A2T	L	Y 13.954
17	B2B	L	X 16.134
18	B2B	L	Y 16.134
19	B2T	L	X 16.134
20	B2T	L	Y 16.134
21	G2B	L	X 11.774
22	G2B	L	Y 11.774
23	G2T	L	X 11.774
24	G2T	L	Y 11.774
25	A3B	L	X 16.425
26	A3B	L	Y 16.425
27	A3T	L	X 16.425
28	A3T	L	Y 16.425
29	B3B	L	X 18.558
30	B3B	L	Y 18.558
31	B3T	L	X 18.558
32	B3T	L	Y 18.558
33	G3B	L	X 14.293
34	G3B	L	Y 14.293
35	G3T	L	X 14.293
36	G3T	L	Y 14.293
37	A1B	L	X 7.238
38	A1B	L	Y 7.238
39	A1T	L	X 7.238

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Joint Loads and Enforced Displacements (BLC 34 : Antenna Wind w/ Ice (135)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
40	A1T	L	Y	7.238
41	B1B	L	X	9.843
42	B1B	L	Y	9.843
43	B1T	L	X	9.843
44	B1T	L	Y	9.843
45	G1B	L	X	4.632
46	G1B	L	Y	4.632
47	G1T	L	X	4.632
48	G1T	L	Y	4.632
49	A2R	L	X	7.595
50	A2R	L	Y	7.595
51	B2R	L	X	9.959
52	B2R	L	Y	9.959
53	G2R	L	X	5.231
54	G2R	L	Y	5.231
55	A4R	L	X	9.406
56	A4R	L	Y	9.406
57	B4R	L	X	10.207
58	B4R	L	Y	10.207
59	G4R	L	X	8.604
60	G4R	L	Y	8.604
61	A3R	L	X	9.328
62	A3R	L	Y	9.328
63	B3R	L	X	11.132
64	B3R	L	Y	11.132
65	G3R	L	X	7.525
66	G3R	L	Y	7.525
67	A4R	L	X	11.418
68	A4R	L	Y	11.418
69	B4R	L	X	12.068
70	B4R	L	Y	12.068
71	G4R	L	X	10.769
72	G4R	L	Y	10.769
73	A1R	L	X	9.109
74	A1R	L	Y	9.109
75	B1R	L	X	10.275
76	B1R	L	Y	10.275
77	G1R	L	X	7.942
78	G1R	L	Y	7.942
79	A3R	L	X	8.15
80	A3R	L	Y	8.15

Joint Loads and Enforced Displacements (BLC 35 : Antenna Wind w/ Ice (150))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]	
1	A4B	L	X	33.203
2	A4B	L	Y	19.17
3	A4T	L	X	33.203
4	A4T	L	Y	19.17
5	B4B	L	X	33.203
6	B4B	L	Y	19.17
7	B4T	L	X	33.203
8	B4T	L	Y	19.17
9	G4B	L	X	16.402
10	G4B	L	Y	9.47
11	G4T	L	X	16.402
12	G4T	L	Y	9.47

Joint Loads and Enforced Displacements (BLC 35 : Antenna Wind w/ Ice (150)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2/in)]
13 A2B	L	X	18.632
14 A2B	L	Y	10.757
15 A2T	L	X	18.632
16 A2T	L	Y	10.757
17 B2B	L	X	18.632
18 B2B	L	Y	10.757
19 B2T	L	X	18.632
20 B2T	L	Y	10.757
21 G2B	L	X	14.007
22 G2B	L	Y	8.087
23 G2T	L	X	14.007
24 G2T	L	Y	8.087
25 A3B	L	X	21.625
26 A3B	L	Y	12.485
27 A3T	L	X	21.625
28 A3T	L	Y	12.485
29 B3B	L	X	21.625
30 B3B	L	Y	12.485
31 B3T	L	X	21.625
32 B3T	L	Y	12.485
33 G3B	L	X	17.102
34 G3B	L	Y	9.874
35 G3T	L	X	17.102
36 G3T	L	Y	9.874
37 A1B	L	X	10.707
38 A1B	L	Y	6.181
39 A1T	L	X	10.707
40 A1T	L	Y	6.181
41 B1B	L	X	10.707
42 B1B	L	Y	6.181
43 B1T	L	X	10.707
44 B1T	L	Y	6.181
45 G1B	L	X	5.179
46 G1B	L	Y	2.99
47 G1T	L	X	5.179
48 G1T	L	Y	2.99
49 A2R	L	X	10.973
50 A2R	L	Y	6.336
51 B2R	L	X	10.973
52 B2R	L	Y	6.336
53 G2R	L	X	5.958
54 G2R	L	Y	3.44
55 A4R	L	X	12.087
56 A4R	L	Y	6.978
57 B4R	L	X	12.087
58 B4R	L	Y	6.978
59 G4R	L	X	10.386
60 G4R	L	Y	5.996
61 A3R	L	X	12.7
62 A3R	L	Y	7.333
63 B3R	L	X	12.7
64 B3R	L	Y	7.333
65 G3R	L	X	8.874
66 G3R	L	Y	5.123
67 A4R	L	X	14.444
68 A4R	L	Y	8.339
69 B4R	L	X	14.444

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Joint Loads and Enforced Displacements (BLC 35 : Antenna Wind w/ Ice (150)) (Continued)

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
70 B4R	L	Y	8.339
71 G4R	L	X	13.066
72 G4R	L	Y	7.544
73 A1R	L	X	11.98
74 A1R	L	Y	6.917
75 B1R	L	X	11.98
76 B1R	L	Y	6.917
77 G1R	L	X	9.506
78 G1R	L	Y	5.488
79 A3R	L	X	9.982
80 A3R	L	Y	5.763

Joint Loads and Enforced Displacements (BLC 36 : Maintenance Live Lm (1))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
1 M4	L	Z	-500

Joint Loads and Enforced Displacements (BLC 37 : Maintenance Live Lm (2))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
1 M3	L	Z	-500

Joint Loads and Enforced Displacements (BLC 38 : Maintenance Live Lm (3))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
1 M2	L	Z	-500

Joint Loads and Enforced Displacements (BLC 39 : Maintenance Live Lm (4))

Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^2/in, lb*s^2...]
1 M1	L	Z	-500

Member Point Loads

Member Label	Direction	Magnitude[lb,lb-ft]	Location[in, %]
No Data to Print ...			

Member Distributed Loads (BLC 2 : Dead of Ice)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in,...]	End Location[in,...]
1 M51	Z	-8.383	-8.383	0	0
2 M60	Z	-8.383	-8.383	0	0
3 M63	Z	-8.383	-8.383	0	0
4 M69	Z	-6.229	-6.229	0	0
5 M72	Z	-6.229	-6.229	0	0
6 M75	Z	-6.229	-6.229	0	0
7 M92	Z	-4.838	-4.838	0	0
8 M94	Z	-4.838	-4.838	0	0
9 M98	Z	-4.838	-4.838	0	0
10 M100	Z	-4.838	-4.838	0	0
11 M104	Z	-4.838	-4.838	0	0
12 M106	Z	-4.838	-4.838	0	0
13 M109	Z	-5.698	-5.698	0	0
14 M110	Z	-5.698	-5.698	0	0
15 M111	Z	-5.698	-5.698	0	0
16 M116	Z	-5.384	-5.384	0	0
17 M121	Z	-5.384	-5.384	0	0
18 M126	Z	-5.384	-5.384	0	0

Member Distributed Loads (BLC 2 : Dead of Ice) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
19	M129	Z	-6.984	-6.984	0 0
20	M133	Z	-6.984	-6.984	0 0
21	M137	Z	-6.984	-6.984	0 0
22	M141	Z	-6.984	-6.984	0 0
23	M145	Z	-6.984	-6.984	0 0
24	M149	Z	-6.984	-6.984	0 0
25	M163	Z	-5.384	-5.384	0 0
26	M189A	Z	-8.383	-8.383	0 0
27	M209	Z	-8.383	-8.383	0 0
28	M245A	Z	-8.383	-8.383	0 0
29	M246A	Z	-8.383	-8.383	0 0
30	M279	Z	-8.383	-8.383	0 0
31	M280	Z	-8.383	-8.383	0 0
32	M261A	Z	-5.384	-5.384	0 0
33	M267A	Z	-5.384	-5.384	0 0
34	M273A	Z	-5.384	-5.384	0 0
35	M279A	Z	-5.384	-5.384	0 0
36	M288B	Z	-5.384	-5.384	0 0
37	M294A	Z	-5.384	-5.384	0 0
38	M300B	Z	-5.384	-5.384	0 0
39	M306B	Z	-5.384	-5.384	0 0
40	M315	Z	-5.384	-5.384	0 0
41	M321	Z	-5.384	-5.384	0 0
42	M327	Z	-5.384	-5.384	0 0
43	M332	Z	-2.342	-2.342	0 0
44	M334	Z	-2.342	-2.342	0 0
45	M336	Z	-2.342	-2.342	0 0
46	M348	Z	-4.708	-4.708	0 0
47	M349	Z	-4.708	-4.708	0 0
48	M352	Z	-4.708	-4.708	0 0
49	M353	Z	-4.708	-4.708	0 0
50	M356	Z	-4.708	-4.708	0 0
51	M357	Z	-4.708	-4.708	0 0

Member Distributed Loads (BLC 4 : Structure Wind (0))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-8.789e-16	-8.789e-16	0 0
2	M51	Y	0	0	0 0
3	M60	X	-25.451	-25.451	0 0
4	M60	Y	0	0	0 0
5	M63	X	-25.451	-25.451	0 0
6	M63	Y	0	0	0 0
7	M69	X	-13.362	-13.362	0 0
8	M69	Y	0	0	0 0
9	M72	X	-3.34	-3.34	0 0
10	M72	Y	0	0	0 0
11	M75	X	-3.34	-3.34	0 0
12	M75	Y	0	0	0 0
13	M92	X	-12.726	-12.726	0 0
14	M92	Y	0	0	0 0
15	M94	X	-3.181	-3.181	0 0
16	M94	Y	0	0	0 0
17	M98	X	-3.181	-3.181	0 0
18	M98	Y	0	0	0 0
19	M100	X	-12.726	-12.726	0 0
20	M100	Y	0	0	0 0

Member Distributed Loads (BLC 4 : Structure Wind (0)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
21	M104	X	-3.181	-3.181	0 0
22	M104	Y	0	0	0 0
23	M106	X	-3.181	-3.181	0 0
24	M106	Y	0	0	0 0
25	M109	X	-3.977	-3.977	0 0
26	M109	Y	0	0	0 0
27	M110	X	-15.907	-15.907	0 0
28	M110	Y	0	0	0 0
29	M111	X	-3.977	-3.977	0 0
30	M111	Y	0	0	0 0
31	M116	X	-10.976	-10.976	0 0
32	M116	Y	0	0	0 0
33	M121	X	-2.744	-2.744	0 0
34	M121	Y	0	0	0 0
35	M126	X	-2.744	-2.744	0 0
36	M126	Y	0	0	0 0
37	M129	X	-38.177	-38.177	0 0
38	M129	Y	0	0	0 0
39	M133	X	-38.177	-38.177	0 0
40	M133	Y	0	0	0 0
41	M137	X	-9.544	-9.544	0 0
42	M137	Y	0	0	0 0
43	M141	X	-9.544	-9.544	0 0
44	M141	Y	0	0	0 0
45	M145	X	-9.544	-9.544	0 0
46	M145	Y	0	0	0 0
47	M149	X	-9.544	-9.544	0 0
48	M149	Y	0	0	0 0
49	M163	X	-10.976	-10.976	0 0
50	M163	Y	0	0	0 0
51	M189A	X	-19.088	-19.088	0 0
52	M189A	Y	0	0	0 0
53	M209	X	-19.088	-19.088	0 0
54	M209	Y	0	0	0 0
55	M245A	X	-6.363	-6.363	0 0
56	M245A	Y	0	0	0 0
57	M246A	X	-6.363	-6.363	0 0
58	M246A	Y	0	0	0 0
59	M279	X	-6.363	-6.363	0 0
60	M279	Y	0	0	0 0
61	M280	X	-6.363	-6.363	0 0
62	M280	Y	0	0	0 0
63	M261A	X	-10.976	-10.976	0 0
64	M261A	Y	0	0	0 0
65	M267A	X	-10.976	-10.976	0 0
66	M267A	Y	0	0	0 0
67	M273A	X	-10.976	-10.976	0 0
68	M273A	Y	0	0	0 0
69	M279A	X	-10.976	-10.976	0 0
70	M279A	Y	0	0	0 0
71	M288B	X	-10.976	-10.976	0 0
72	M288B	Y	0	0	0 0
73	M294A	X	-10.976	-10.976	0 0
74	M294A	Y	0	0	0 0
75	M300B	X	-10.976	-10.976	0 0
76	M300B	Y	0	0	0 0
77	M306B	X	-10.976	-10.976	0 0

Member Distributed Loads (BLC 4 : Structure Wind (0)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
78	M306B	Y	0	0	0
79	M315	X	-10.976	-10.976	0
80	M315	Y	0	0	0
81	M321	X	-10.976	-10.976	0
82	M321	Y	0	0	0
83	M327	X	-10.976	-10.976	0
84	M327	Y	0	0	0
85	M332	X	-.697	-.697	0
86	M332	Y	0	0	0
87	M334	X	-1.964	-1.964	0
88	M334	Y	0	0	0
89	M336	X	-1.964	-1.964	0
90	M336	Y	0	0	0
91	M348	X	-3.836	-3.836	0
92	M348	Y	0	0	0
93	M349	X	-3.836	-3.836	0
94	M349	Y	0	0	0
95	M352	X	-4.879	-4.879	0
96	M352	Y	0	0	0
97	M353	X	-9.009	-9.009	0
98	M353	Y	0	0	0
99	M356	X	-9.009	-9.009	0
100	M356	Y	0	0	0
101	M357	X	-4.879	-4.879	0
102	M357	Y	0	0	0

Member Distributed Loads (BLC 5 : Structure Wind (30))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-5.51	-5.51	0
2	M51	Y	3.181	3.181	0
3	M60	X	-16.531	-16.531	0
4	M60	Y	9.544	9.544	0
5	M63	X	-16.531	-16.531	0
6	M63	Y	9.544	9.544	0
7	M69	X	-8.679	-8.679	0
8	M69	Y	5.011	5.011	0
9	M72	X	-8.679	-8.679	0
10	M72	Y	5.011	5.011	0
11	M75	X	-6.613e-14	-6.613e-14	0
12	M75	Y	3.818e-14	3.818e-14	0
13	M92	X	-8.266	-8.266	0
14	M92	Y	4.772	4.772	0
15	M94	X	-5.281e-10	-5.281e-10	0
16	M94	Y	3.049e-10	3.049e-10	0
17	M98	X	-8.266	-8.266	0
18	M98	Y	4.772	4.772	0
19	M100	X	-8.266	-8.266	0
20	M100	Y	4.772	4.772	0
21	M104	X	-7.578e-14	-7.578e-14	0
22	M104	Y	4.375e-14	4.375e-14	0
23	M106	X	-8.265	-8.265	0
24	M106	Y	4.772	4.772	0
25	M109	X	-7.873e-14	-7.873e-14	0
26	M109	Y	4.545e-14	4.545e-14	0
27	M110	X	-10.332	-10.332	0
28	M110	Y	5.965	5.965	0

Member Distributed Loads (BLC 5 : Structure Wind (30)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
29	M111	X	-10.332	-10.332	0 0
30	M111	Y	5.965	5.965	0 0
31	M116	X	-7.129	-7.129	0 0
32	M116	Y	4.116	4.116	0 0
33	M121	X	-7.129	-7.129	0 0
34	M121	Y	4.116	4.116	0 0
35	M126	X	-5.432e-14	-5.432e-14	0 0
36	M126	Y	3.136e-14	3.136e-14	0 0
37	M129	X	-24.797	-24.797	0 0
38	M129	Y	14.316	14.316	0 0
39	M133	X	-24.797	-24.797	0 0
40	M133	Y	14.316	14.316	0 0
41	M137	X	-24.797	-24.797	0 0
42	M137	Y	14.316	14.316	0 0
43	M141	X	-24.797	-24.797	0 0
44	M141	Y	14.316	14.316	0 0
45	M145	X	-1.89e-13	-1.89e-13	0 0
46	M145	Y	1.091e-13	1.091e-13	0 0
47	M149	X	-1.889e-13	-1.889e-13	0 0
48	M149	Y	1.091e-13	1.091e-13	0 0
49	M163	X	-9.505	-9.505	0 0
50	M163	Y	5.488	5.488	0 0
51	M189A	X	-5.51	-5.51	0 0
52	M189A	Y	3.181	3.181	0 0
53	M209	X	-22.041	-22.041	0 0
54	M209	Y	12.726	12.726	0 0
55	M245A	X	-16.531	-16.531	0 0
56	M245A	Y	9.544	9.544	0 0
57	M246A	X	-16.531	-16.531	0 0
58	M246A	Y	9.544	9.544	0 0
59	M279	X	-1.26e-13	-1.26e-13	0 0
60	M279	Y	7.273e-14	7.273e-14	0 0
61	M280	X	-1.26e-13	-1.26e-13	0 0
62	M280	Y	7.273e-14	7.273e-14	0 0
63	M261A	X	-9.505	-9.505	0 0
64	M261A	Y	5.488	5.488	0 0
65	M267A	X	-9.505	-9.505	0 0
66	M267A	Y	5.488	5.488	0 0
67	M273A	X	-9.505	-9.505	0 0
68	M273A	Y	5.488	5.488	0 0
69	M279A	X	-9.505	-9.505	0 0
70	M279A	Y	5.488	5.488	0 0
71	M288B	X	-9.505	-9.505	0 0
72	M288B	Y	5.488	5.488	0 0
73	M294A	X	-9.505	-9.505	0 0
74	M294A	Y	5.488	5.488	0 0
75	M300B	X	-9.505	-9.505	0 0
76	M300B	Y	5.488	5.488	0 0
77	M306B	X	-9.505	-9.505	0 0
78	M306B	Y	5.488	5.488	0 0
79	M315	X	-9.505	-9.505	0 0
80	M315	Y	5.488	5.488	0 0
81	M321	X	-9.505	-9.505	0 0
82	M321	Y	5.488	5.488	0 0
83	M327	X	-9.505	-9.505	0 0
84	M327	Y	5.488	5.488	0 0
85	M332	X	-9.69	-9.69	0 0

Member Distributed Loads (BLC 5 : Structure Wind (30)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
86	M332	Y	.56	.56	0 0
87	M334	X	-.969	-.969	0 0
88	M334	Y	.56	.56	0 0
89	M336	X	-2.066	-2.066	0 0
90	M336	Y	1.193	1.193	0 0
91	M348	X	-6.008	-6.008	0 0
92	M348	Y	3.468	3.468	0 0
93	M349	X	-2.431	-2.431	0 0
94	M349	Y	1.403	1.403	0 0
95	M352	X	-2.431	-2.431	0 0
96	M352	Y	1.403	1.403	0 0
97	M353	X	-6.008	-6.008	0 0
98	M353	Y	3.469	3.469	0 0
99	M356	X	-6.911	-6.911	0 0
100	M356	Y	3.99	3.99	0 0
101	M357	X	-6.911	-6.911	0 0
102	M357	Y	3.99	3.99	0 0

Member Distributed Loads (BLC 6 : Structure Wind (45))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-8.998	-8.998	0 0
2	M51	Y	8.998	8.998	0 0
3	M60	X	-8.998	-8.998	0 0
4	M60	Y	8.998	8.998	0 0
5	M63	X	-8.998	-8.998	0 0
6	M63	Y	8.998	8.998	0 0
7	M69	X	-4.724	-4.724	0 0
8	M69	Y	4.724	4.724	0 0
9	M72	X	-8.815	-8.815	0 0
10	M72	Y	8.815	8.815	0 0
11	M75	X	-.633	-.633	0 0
12	M75	Y	.633	.633	0 0
13	M92	X	-4.499	-4.499	0 0
14	M92	Y	4.499	4.499	0 0
15	M94	X	-.603	-.603	0 0
16	M94	Y	.603	.603	0 0
17	M98	X	-8.396	-8.396	0 0
18	M98	Y	8.396	8.396	0 0
19	M100	X	-4.499	-4.499	0 0
20	M100	Y	4.499	4.499	0 0
21	M104	X	-.603	-.603	0 0
22	M104	Y	.603	.603	0 0
23	M106	X	-8.396	-8.396	0 0
24	M106	Y	8.396	8.396	0 0
25	M109	X	-.753	-.753	0 0
26	M109	Y	.753	.753	0 0
27	M110	X	-5.624	-5.624	0 0
28	M110	Y	5.624	5.624	0 0
29	M111	X	-10.495	-10.495	0 0
30	M111	Y	10.494	10.494	0 0
31	M116	X	-3.881	-3.881	0 0
32	M116	Y	3.881	3.881	0 0
33	M121	X	-7.241	-7.241	0 0
34	M121	Y	7.241	7.241	0 0
35	M126	X	-.52	-.52	0 0
36	M126	Y	.52	.52	0 0

Member Distributed Loads (BLC 6 : Structure Wind (45)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
37	M129	X	-13.498	-13.498	0 0
38	M129	Y	13.498	13.498	0 0
39	M133	X	-13.498	-13.498	0 0
40	M133	Y	13.498	13.498	0 0
41	M137	X	-25.187	-25.187	0 0
42	M137	Y	25.187	25.187	0 0
43	M141	X	-25.187	-25.187	0 0
44	M141	Y	25.187	25.187	0 0
45	M145	X	-1.808	-1.808	0 0
46	M145	Y	1.808	1.808	0 0
47	M149	X	-1.808	-1.808	0 0
48	M149	Y	1.808	1.808	0 0
49	M163	X	-7.761	-7.761	0 0
50	M163	Y	7.761	7.761	0 0
51	M189A	X	-1.206	-1.206	0 0
52	M189A	Y	1.206	1.206	0 0
53	M209	X	-16.791	-16.791	0 0
54	M209	Y	16.791	16.791	0 0
55	M245A	X	-16.791	-16.791	0 0
56	M245A	Y	16.791	16.791	0 0
57	M246A	X	-16.791	-16.791	0 0
58	M246A	Y	16.791	16.791	0 0
59	M279	X	-1.206	-1.206	0 0
60	M279	Y	1.206	1.206	0 0
61	M280	X	-1.206	-1.206	0 0
62	M280	Y	1.206	1.206	0 0
63	M261A	X	-7.761	-7.761	0 0
64	M261A	Y	7.761	7.761	0 0
65	M267A	X	-7.761	-7.761	0 0
66	M267A	Y	7.761	7.761	0 0
67	M273A	X	-7.761	-7.761	0 0
68	M273A	Y	7.761	7.761	0 0
69	M279A	X	-7.761	-7.761	0 0
70	M279A	Y	7.761	7.761	0 0
71	M288B	X	-7.761	-7.761	0 0
72	M288B	Y	7.761	7.761	0 0
73	M294A	X	-7.761	-7.761	0 0
74	M294A	Y	7.761	7.761	0 0
75	M300B	X	-7.761	-7.761	0 0
76	M300B	Y	7.761	7.761	0 0
77	M306B	X	-7.761	-7.761	0 0
78	M306B	Y	7.761	7.761	0 0
79	M315	X	-7.761	-7.761	0 0
80	M315	Y	7.761	7.761	0 0
81	M321	X	-7.761	-7.761	0 0
82	M321	Y	7.761	7.761	0 0
83	M327	X	-7.761	-7.761	0 0
84	M327	Y	7.761	7.761	0 0
85	M332	X	-1.09	-1.09	0 0
86	M332	Y	1.09	1.09	0 0
87	M334	X	-.573	-.573	0 0
88	M334	Y	.573	.573	0 0
89	M336	X	-1.607	-1.607	0 0
90	M336	Y	1.607	1.607	0 0
91	M348	X	-5.864	-5.864	0 0
92	M348	Y	5.864	5.864	0 0
93	M349	X	-2.491	-2.491	0 0

Member Distributed Loads (BLC 6 : Structure Wind (45)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
94	M349	Y	2.491	2.491	0 0
95	M352	X	-2.066	-2.066	0 0
96	M352	Y	2.066	2.066	0 0
97	M353	X	-3.752	-3.752	0 0
98	M353	Y	3.752	3.752	0 0
99	M356	X	-4.603	-4.603	0 0
100	M356	Y	4.603	4.603	0 0
101	M357	X	-6.29	-6.29	0 0
102	M357	Y	6.29	6.29	0 0

Member Distributed Loads (BLC 7 : Structure Wind (60))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-9.544	-9.544	0 0
2	M51	Y	16.531	16.531	0 0
3	M60	X	-3.181	-3.181	0 0
4	M60	Y	5.51	5.51	0 0
5	M63	X	-3.181	-3.181	0 0
6	M63	Y	5.51	5.51	0 0
7	M69	X	-1.67	-1.67	0 0
8	M69	Y	2.893	2.893	0 0
9	M72	X	-6.681	-6.681	0 0
10	M72	Y	11.572	11.572	0 0
11	M75	X	-1.67	-1.67	0 0
12	M75	Y	2.893	2.893	0 0
13	M92	X	-1.591	-1.591	0 0
14	M92	Y	2.755	2.755	0 0
15	M94	X	-1.591	-1.591	0 0
16	M94	Y	2.755	2.755	0 0
17	M98	X	-6.363	-6.363	0 0
18	M98	Y	11.021	11.021	0 0
19	M100	X	-1.591	-1.591	0 0
20	M100	Y	2.755	2.755	0 0
21	M104	X	-1.591	-1.591	0 0
22	M104	Y	2.755	2.755	0 0
23	M106	X	-6.363	-6.363	0 0
24	M106	Y	11.021	11.021	0 0
25	M109	X	-1.988	-1.988	0 0
26	M109	Y	3.444	3.444	0 0
27	M110	X	-1.988	-1.988	0 0
28	M110	Y	3.444	3.444	0 0
29	M111	X	-7.954	-7.954	0 0
30	M111	Y	13.776	13.776	0 0
31	M116	X	-1.372	-1.372	0 0
32	M116	Y	2.376	2.376	0 0
33	M121	X	-5.488	-5.488	0 0
34	M121	Y	9.505	9.505	0 0
35	M126	X	-1.372	-1.372	0 0
36	M126	Y	2.376	2.376	0 0
37	M129	X	-4.772	-4.772	0 0
38	M129	Y	8.266	8.266	0 0
39	M133	X	-4.772	-4.772	0 0
40	M133	Y	8.266	8.266	0 0
41	M137	X	-19.088	-19.088	0 0
42	M137	Y	33.062	33.062	0 0
43	M141	X	-19.088	-19.088	0 0
44	M141	Y	33.062	33.062	0 0

Member Distributed Loads (BLC 7 : Structure Wind (60)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
45	M145	X	-4.772	-4.772	0 0
46	M145	Y	8.266	8.266	0 0
47	M149	X	-4.772	-4.772	0 0
48	M149	Y	8.266	8.266	0 0
49	M163	X	-5.488	-5.488	0 0
50	M163	Y	9.505	9.505	0 0
51	M189A	X	-3.14e-13	-3.14e-13	0 0
52	M189A	Y	5.438e-13	5.438e-13	0 0
53	M209	X	-9.544	-9.544	0 0
54	M209	Y	16.531	16.531	0 0
55	M245A	X	-12.726	-12.726	0 0
56	M245A	Y	22.041	22.041	0 0
57	M246A	X	-12.726	-12.726	0 0
58	M246A	Y	22.041	22.041	0 0
59	M279	X	-3.181	-3.181	0 0
60	M279	Y	5.51	5.51	0 0
61	M280	X	-3.181	-3.181	0 0
62	M280	Y	5.51	5.51	0 0
63	M261A	X	-5.488	-5.488	0 0
64	M261A	Y	9.505	9.505	0 0
65	M267A	X	-5.488	-5.488	0 0
66	M267A	Y	9.505	9.505	0 0
67	M273A	X	-5.488	-5.488	0 0
68	M273A	Y	9.505	9.505	0 0
69	M279A	X	-5.488	-5.488	0 0
70	M279A	Y	9.505	9.505	0 0
71	M288B	X	-5.488	-5.488	0 0
72	M288B	Y	9.505	9.505	0 0
73	M294A	X	-5.488	-5.488	0 0
74	M294A	Y	9.505	9.505	0 0
75	M300B	X	-5.488	-5.488	0 0
76	M300B	Y	9.505	9.505	0 0
77	M306B	X	-5.488	-5.488	0 0
78	M306B	Y	9.505	9.505	0 0
79	M315	X	-5.488	-5.488	0 0
80	M315	Y	9.505	9.505	0 0
81	M321	X	-5.488	-5.488	0 0
82	M321	Y	9.505	9.505	0 0
83	M327	X	-5.488	-5.488	0 0
84	M327	Y	9.505	9.505	0 0
85	M332	X	-.982	-.982	0 0
86	M332	Y	1.701	1.701	0 0
87	M334	X	-.349	-.349	0 0
88	M334	Y	.604	.604	0 0
89	M336	X	-.982	-.982	0 0
90	M336	Y	1.701	1.701	0 0
91	M348	X	-4.505	-4.505	0 0
92	M348	Y	7.802	7.802	0 0
93	M349	X	-2.439	-2.439	0 0
94	M349	Y	4.225	4.225	0 0
95	M352	X	-1.918	-1.918	0 0
96	M352	Y	3.322	3.322	0 0
97	M353	X	-1.918	-1.918	0 0
98	M353	Y	3.322	3.322	0 0
99	M356	X	-2.439	-2.439	0 0
100	M356	Y	4.225	4.225	0 0
101	M357	X	-4.505	-4.505	0 0

Member Distributed Loads (BLC 7 : Structure Wind (60)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
102	M357	Y	7.802	7.802	0 0

Member Distributed Loads (BLC 8 : Structure Wind (90))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-5.772e-6	-5.772e-6	0 0
2	M51	Y	25.451	25.451	0 0
3	M60	X	-2.969e-19	-2.969e-19	0 0
4	M60	Y	1.309e-12	1.309e-12	0 0
5	M63	X	-2.969e-19	-2.969e-19	0 0
6	M63	Y	1.309e-12	1.309e-12	0 0
7	M69	X	-1.559e-19	-1.559e-19	0 0
8	M69	Y	6.873e-13	6.873e-13	0 0
9	M72	X	-2.273e-6	-2.273e-6	0 0
10	M72	Y	10.021	10.021	0 0
11	M75	X	-2.273e-6	-2.273e-6	0 0
12	M75	Y	10.021	10.021	0 0
13	M92	X	-1.582e-19	-1.582e-19	0 0
14	M92	Y	6.975e-13	6.975e-13	0 0
15	M94	X	-2.165e-6	-2.165e-6	0 0
16	M94	Y	9.544	9.544	0 0
17	M98	X	-2.165e-6	-2.165e-6	0 0
18	M98	Y	9.544	9.544	0 0
19	M100	X	-1.444e-16	-1.444e-16	0 0
20	M100	Y	6.367e-10	6.367e-10	0 0
21	M104	X	-2.165e-6	-2.165e-6	0 0
22	M104	Y	9.544	9.544	0 0
23	M106	X	-2.165e-6	-2.165e-6	0 0
24	M106	Y	9.544	9.544	0 0
25	M109	X	-2.706e-6	-2.706e-6	0 0
26	M109	Y	11.93	11.93	0 0
27	M110	X	-1.856e-19	-1.856e-19	0 0
28	M110	Y	8.182e-13	8.182e-13	0 0
29	M111	X	-2.706e-6	-2.706e-6	0 0
30	M111	Y	11.93	11.93	0 0
31	M116	X	-1.28e-19	-1.28e-19	0 0
32	M116	Y	5.646e-13	5.646e-13	0 0
33	M121	X	-1.867e-6	-1.867e-6	0 0
34	M121	Y	8.232	8.232	0 0
35	M126	X	-1.867e-6	-1.867e-6	0 0
36	M126	Y	8.232	8.232	0 0
37	M129	X	-4.454e-19	-4.454e-19	0 0
38	M129	Y	1.964e-12	1.964e-12	0 0
39	M133	X	-4.453e-19	-4.453e-19	0 0
40	M133	Y	1.964e-12	1.964e-12	0 0
41	M137	X	-6.494e-6	-6.494e-6	0 0
42	M137	Y	28.633	28.633	0 0
43	M141	X	-6.494e-6	-6.494e-6	0 0
44	M141	Y	28.633	28.633	0 0
45	M145	X	-6.494e-6	-6.494e-6	0 0
46	M145	Y	28.633	28.633	0 0
47	M149	X	-6.494e-6	-6.494e-6	0 0
48	M149	Y	28.633	28.633	0 0
49	M163	X	-2.489e-6	-2.489e-6	0 0
50	M163	Y	10.976	10.976	0 0
51	M189A	X	-1.443e-6	-1.443e-6	0 0
52	M189A	Y	6.363	6.363	0 0

Member Distributed Loads (BLC 8 : Structure Wind (90)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
53	M209	X	-1.443e-6	-1.443e-6	0 0
54	M209	Y	6.363	6.363	0 0
55	M245A	X	-4.329e-6	-4.329e-6	0 0
56	M245A	Y	19.088	19.088	0 0
57	M246A	X	-4.329e-6	-4.329e-6	0 0
58	M246A	Y	19.088	19.088	0 0
59	M279	X	-4.329e-6	-4.329e-6	0 0
60	M279	Y	19.088	19.088	0 0
61	M280	X	-4.329e-6	-4.329e-6	0 0
62	M280	Y	19.088	19.088	0 0
63	M261A	X	-2.489e-6	-2.489e-6	0 0
64	M261A	Y	10.976	10.976	0 0
65	M267A	X	-2.489e-6	-2.489e-6	0 0
66	M267A	Y	10.976	10.976	0 0
67	M273A	X	-2.489e-6	-2.489e-6	0 0
68	M273A	Y	10.976	10.976	0 0
69	M279A	X	-2.489e-6	-2.489e-6	0 0
70	M279A	Y	10.976	10.976	0 0
71	M288B	X	-2.489e-6	-2.489e-6	0 0
72	M288B	Y	10.976	10.976	0 0
73	M294A	X	-2.489e-6	-2.489e-6	0 0
74	M294A	Y	10.976	10.976	0 0
75	M300B	X	-2.489e-6	-2.489e-6	0 0
76	M300B	Y	10.976	10.976	0 0
77	M306B	X	-2.489e-6	-2.489e-6	0 0
78	M306B	Y	10.976	10.976	0 0
79	M315	X	-2.489e-6	-2.489e-6	0 0
80	M315	Y	10.976	10.976	0 0
81	M321	X	-2.489e-6	-2.489e-6	0 0
82	M321	Y	10.976	10.976	0 0
83	M327	X	-2.489e-6	-2.489e-6	0 0
84	M327	Y	10.976	10.976	0 0
85	M332	X	-5.411e-7	-5.411e-7	0 0
86	M332	Y	2.386	2.386	0 0
87	M334	X	-2.539e-7	-2.539e-7	0 0
88	M334	Y	1.119	1.119	0 0
89	M336	X	-2.539e-7	-2.539e-7	0 0
90	M336	Y	1.119	1.119	0 0
91	M348	X	-1.81e-6	-1.81e-6	0 0
92	M348	Y	7.98	7.98	0 0
93	M349	X	-1.81e-6	-1.81e-6	0 0
94	M349	Y	7.98	7.98	0 0
95	M352	X	-1.573e-6	-1.573e-6	0 0
96	M352	Y	6.937	6.937	0 0
97	M353	X	-6.366e-7	-6.366e-7	0 0
98	M353	Y	2.807	2.807	0 0
99	M356	X	-6.366e-7	-6.366e-7	0 0
100	M356	Y	2.807	2.807	0 0
101	M357	X	-1.573e-6	-1.573e-6	0 0
102	M357	Y	6.937	6.937	0 0

Member Distributed Loads (BLC 9 : Structure Wind (120))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	9.544	9.544	0 0
2	M51	Y	16.531	16.531	0 0
3	M60	X	3.181	3.181	0 0

Member Distributed Loads (BLC 9 : Structure Wind (120)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
4	M60	Y	5.51	5.51	0 0
5	M63	X	3.181	3.181	0 0
6	M63	Y	5.51	5.51	0 0
7	M69	X	1.67	1.67	0 0
8	M69	Y	2.893	2.893	0 0
9	M72	X	1.67	1.67	0 0
10	M72	Y	2.893	2.893	0 0
11	M75	X	6.681	6.681	0 0
12	M75	Y	11.572	11.572	0 0
13	M92	X	1.591	1.591	0 0
14	M92	Y	2.755	2.755	0 0
15	M94	X	6.363	6.363	0 0
16	M94	Y	11.021	11.021	0 0
17	M98	X	1.591	1.591	0 0
18	M98	Y	2.755	2.755	0 0
19	M100	X	1.591	1.591	0 0
20	M100	Y	2.755	2.755	0 0
21	M104	X	6.363	6.363	0 0
22	M104	Y	11.021	11.021	0 0
23	M106	X	1.591	1.591	0 0
24	M106	Y	2.755	2.755	0 0
25	M109	X	7.954	7.954	0 0
26	M109	Y	13.776	13.776	0 0
27	M110	X	1.988	1.988	0 0
28	M110	Y	3.444	3.444	0 0
29	M111	X	1.988	1.988	0 0
30	M111	Y	3.444	3.444	0 0
31	M116	X	1.372	1.372	0 0
32	M116	Y	2.376	2.376	0 0
33	M121	X	1.372	1.372	0 0
34	M121	Y	2.376	2.376	0 0
35	M126	X	5.488	5.488	0 0
36	M126	Y	9.505	9.505	0 0
37	M129	X	4.772	4.772	0 0
38	M129	Y	8.266	8.266	0 0
39	M133	X	4.772	4.772	0 0
40	M133	Y	8.266	8.266	0 0
41	M137	X	4.772	4.772	0 0
42	M137	Y	8.266	8.266	0 0
43	M141	X	4.772	4.772	0 0
44	M141	Y	8.266	8.266	0 0
45	M145	X	19.088	19.088	0 0
46	M145	Y	33.062	33.062	0 0
47	M149	X	19.088	19.088	0 0
48	M149	Y	33.062	33.062	0 0
49	M163	X	5.488	5.488	0 0
50	M163	Y	9.505	9.505	0 0
51	M189A	X	9.544	9.544	0 0
52	M189A	Y	16.531	16.531	0 0
53	M209	X	1.209e-12	1.209e-12	0 0
54	M209	Y	2.095e-12	2.095e-12	0 0
55	M245A	X	3.181	3.181	0 0
56	M245A	Y	5.51	5.51	0 0
57	M246A	X	3.181	3.181	0 0
58	M246A	Y	5.51	5.51	0 0
59	M279	X	12.726	12.726	0 0
60	M279	Y	22.041	22.041	0 0

Member Distributed Loads (BLC 9 : Structure Wind (120)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
61	M280	X	12.726	12.726	0 0
62	M280	Y	22.041	22.041	0 0
63	M261A	X	5.488	5.488	0 0
64	M261A	Y	9.505	9.505	0 0
65	M267A	X	5.488	5.488	0 0
66	M267A	Y	9.505	9.505	0 0
67	M273A	X	5.488	5.488	0 0
68	M273A	Y	9.505	9.505	0 0
69	M279A	X	5.488	5.488	0 0
70	M279A	Y	9.505	9.505	0 0
71	M288B	X	5.488	5.488	0 0
72	M288B	Y	9.505	9.505	0 0
73	M294A	X	5.488	5.488	0 0
74	M294A	Y	9.505	9.505	0 0
75	M300B	X	5.488	5.488	0 0
76	M300B	Y	9.505	9.505	0 0
77	M306B	X	5.488	5.488	0 0
78	M306B	Y	9.505	9.505	0 0
79	M315	X	5.488	5.488	0 0
80	M315	Y	9.505	9.505	0 0
81	M321	X	5.488	5.488	0 0
82	M321	Y	9.505	9.505	0 0
83	M327	X	5.488	5.488	0 0
84	M327	Y	9.505	9.505	0 0
85	M332	X	.982	.982	0 0
86	M332	Y	1.701	1.701	0 0
87	M334	X	.982	.982	0 0
88	M334	Y	1.701	1.701	0 0
89	M336	X	.349	.349	0 0
90	M336	Y	.604	.604	0 0
91	M348	X	2.439	2.439	0 0
92	M348	Y	4.225	4.225	0 0
93	M349	X	4.505	4.505	0 0
94	M349	Y	7.802	7.802	0 0
95	M352	X	4.505	4.505	0 0
96	M352	Y	7.802	7.802	0 0
97	M353	X	2.439	2.439	0 0
98	M353	Y	4.225	4.225	0 0
99	M356	X	1.918	1.918	0 0
100	M356	Y	3.322	3.322	0 0
101	M357	X	1.918	1.918	0 0
102	M357	Y	3.322	3.322	0 0

Member Distributed Loads (BLC 10 : Structure Wind (135))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	8.998	8.998	0 0
2	M51	Y	8.998	8.998	0 0
3	M60	X	8.998	8.998	0 0
4	M60	Y	8.998	8.998	0 0
5	M63	X	8.998	8.998	0 0
6	M63	Y	8.998	8.998	0 0
7	M69	X	4.724	4.724	0 0
8	M69	Y	4.724	4.724	0 0
9	M72	X	.633	.633	0 0
10	M72	Y	.633	.633	0 0
11	M75	X	8.815	8.815	0 0

Member Distributed Loads (BLC 10 : Structure Wind (135)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
12	M75	Y	8.815	8.815	0 0
13	M92	X	4.499	4.499	0 0
14	M92	Y	4.499	4.499	0 0
15	M94	X	8.396	8.396	0 0
16	M94	Y	8.396	8.396	0 0
17	M98	X	.603	.603	0 0
18	M98	Y	.603	.603	0 0
19	M100	X	4.499	4.499	0 0
20	M100	Y	4.499	4.499	0 0
21	M104	X	8.396	8.396	0 0
22	M104	Y	8.396	8.396	0 0
23	M106	X	.603	.603	0 0
24	M106	Y	.603	.603	0 0
25	M109	X	10.494	10.494	0 0
26	M109	Y	10.495	10.495	0 0
27	M110	X	5.624	5.624	0 0
28	M110	Y	5.624	5.624	0 0
29	M111	X	.753	.753	0 0
30	M111	Y	.753	.753	0 0
31	M116	X	3.881	3.881	0 0
32	M116	Y	3.881	3.881	0 0
33	M121	X	.52	.52	0 0
34	M121	Y	.52	.52	0 0
35	M126	X	7.241	7.241	0 0
36	M126	Y	7.241	7.241	0 0
37	M129	X	13.498	13.498	0 0
38	M129	Y	13.498	13.498	0 0
39	M133	X	13.498	13.498	0 0
40	M133	Y	13.498	13.498	0 0
41	M137	X	1.808	1.808	0 0
42	M137	Y	1.808	1.808	0 0
43	M141	X	1.808	1.808	0 0
44	M141	Y	1.808	1.808	0 0
45	M145	X	25.187	25.187	0 0
46	M145	Y	25.187	25.187	0 0
47	M149	X	25.187	25.187	0 0
48	M149	Y	25.187	25.187	0 0
49	M163	X	7.761	7.761	0 0
50	M163	Y	7.761	7.761	0 0
51	M189A	X	16.791	16.791	0 0
52	M189A	Y	16.791	16.791	0 0
53	M209	X	1.206	1.206	0 0
54	M209	Y	1.206	1.206	0 0
55	M245A	X	1.206	1.206	0 0
56	M245A	Y	1.206	1.206	0 0
57	M246A	X	1.206	1.206	0 0
58	M246A	Y	1.206	1.206	0 0
59	M279	X	16.791	16.791	0 0
60	M279	Y	16.791	16.791	0 0
61	M280	X	16.791	16.791	0 0
62	M280	Y	16.791	16.791	0 0
63	M261A	X	7.761	7.761	0 0
64	M261A	Y	7.761	7.761	0 0
65	M267A	X	7.761	7.761	0 0
66	M267A	Y	7.761	7.761	0 0
67	M273A	X	7.761	7.761	0 0
68	M273A	Y	7.761	7.761	0 0

Member Distributed Loads (BLC 10 : Structure Wind (135)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
69	M279A	X	7.761	7.761	0 0
70	M279A	Y	7.761	7.761	0 0
71	M288B	X	7.761	7.761	0 0
72	M288B	Y	7.761	7.761	0 0
73	M294A	X	7.761	7.761	0 0
74	M294A	Y	7.761	7.761	0 0
75	M300B	X	7.761	7.761	0 0
76	M300B	Y	7.761	7.761	0 0
77	M306B	X	7.761	7.761	0 0
78	M306B	Y	7.761	7.761	0 0
79	M315	X	7.761	7.761	0 0
80	M315	Y	7.761	7.761	0 0
81	M321	X	7.761	7.761	0 0
82	M321	Y	7.761	7.761	0 0
83	M327	X	7.761	7.761	0 0
84	M327	Y	7.761	7.761	0 0
85	M332	X	1.09	1.09	0 0
86	M332	Y	1.09	1.09	0 0
87	M334	X	1.607	1.607	0 0
88	M334	Y	1.607	1.607	0 0
89	M336	X	.573	.573	0 0
90	M336	Y	.573	.573	0 0
91	M348	X	2.491	2.491	0 0
92	M348	Y	2.491	2.491	0 0
93	M349	X	5.864	5.864	0 0
94	M349	Y	5.864	5.864	0 0
95	M352	X	6.29	6.29	0 0
96	M352	Y	6.29	6.29	0 0
97	M353	X	4.603	4.603	0 0
98	M353	Y	4.603	4.603	0 0
99	M356	X	3.752	3.752	0 0
100	M356	Y	3.752	3.752	0 0
101	M357	X	2.066	2.066	0 0
102	M357	Y	2.066	2.066	0 0

Member Distributed Loads (BLC 11 : Structure Wind (150))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	5.51	5.51	0 0
2	M51	Y	3.181	3.181	0 0
3	M60	X	16.531	16.531	0 0
4	M60	Y	9.544	9.544	0 0
5	M63	X	16.531	16.531	0 0
6	M63	Y	9.544	9.544	0 0
7	M69	X	8.679	8.679	0 0
8	M69	Y	5.011	5.011	0 0
9	M72	X	1.653e-12	1.653e-12	0 0
10	M72	Y	9.546e-13	9.546e-13	0 0
11	M75	X	8.679	8.679	0 0
12	M75	Y	5.011	5.011	0 0
13	M92	X	8.266	8.266	0 0
14	M92	Y	4.772	4.772	0 0
15	M94	X	8.266	8.266	0 0
16	M94	Y	4.772	4.772	0 0
17	M98	X	1.636e-12	1.636e-12	0 0
18	M98	Y	9.447e-13	9.447e-13	0 0
19	M100	X	8.265	8.265	0 0

Member Distributed Loads (BLC 11 : Structure Wind (150)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
20	M100	Y	4.772	4.772	0 0
21	M104	X	8.266	8.266	0 0
22	M104	Y	4.772	4.772	0 0
23	M106	X	5.752e-10	5.752e-10	0 0
24	M106	Y	3.321e-10	3.321e-10	0 0
25	M109	X	10.332	10.332	0 0
26	M109	Y	5.965	5.965	0 0
27	M110	X	10.332	10.332	0 0
28	M110	Y	5.965	5.965	0 0
29	M111	X	1.968e-12	1.968e-12	0 0
30	M111	Y	1.136e-12	1.136e-12	0 0
31	M116	X	7.129	7.129	0 0
32	M116	Y	4.116	4.116	0 0
33	M121	X	1.358e-12	1.358e-12	0 0
34	M121	Y	7.841e-13	7.841e-13	0 0
35	M126	X	7.129	7.129	0 0
36	M126	Y	4.116	4.116	0 0
37	M129	X	24.797	24.797	0 0
38	M129	Y	14.316	14.316	0 0
39	M133	X	24.797	24.797	0 0
40	M133	Y	14.316	14.316	0 0
41	M137	X	4.724e-12	4.724e-12	0 0
42	M137	Y	2.727e-12	2.727e-12	0 0
43	M141	X	4.724e-12	4.724e-12	0 0
44	M141	Y	2.727e-12	2.727e-12	0 0
45	M145	X	24.797	24.797	0 0
46	M145	Y	14.316	14.316	0 0
47	M149	X	24.797	24.797	0 0
48	M149	Y	14.316	14.316	0 0
49	M163	X	9.505	9.505	0 0
50	M163	Y	5.488	5.488	0 0
51	M189A	X	22.041	22.041	0 0
52	M189A	Y	12.726	12.726	0 0
53	M209	X	5.51	5.51	0 0
54	M209	Y	3.181	3.181	0 0
55	M245A	X	3.149e-12	3.149e-12	0 0
56	M245A	Y	1.818e-12	1.818e-12	0 0
57	M246A	X	3.149e-12	3.149e-12	0 0
58	M246A	Y	1.818e-12	1.818e-12	0 0
59	M279	X	16.531	16.531	0 0
60	M279	Y	9.544	9.544	0 0
61	M280	X	16.531	16.531	0 0
62	M280	Y	9.544	9.544	0 0
63	M261A	X	9.505	9.505	0 0
64	M261A	Y	5.488	5.488	0 0
65	M267A	X	9.505	9.505	0 0
66	M267A	Y	5.488	5.488	0 0
67	M273A	X	9.505	9.505	0 0
68	M273A	Y	5.488	5.488	0 0
69	M279A	X	9.505	9.505	0 0
70	M279A	Y	5.488	5.488	0 0
71	M288B	X	9.505	9.505	0 0
72	M288B	Y	5.488	5.488	0 0
73	M294A	X	9.505	9.505	0 0
74	M294A	Y	5.488	5.488	0 0
75	M300B	X	9.505	9.505	0 0
76	M300B	Y	5.488	5.488	0 0

Member Distributed Loads (BLC 11 : Structure Wind (150)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
77	M306B	X	9.505	9.505	0 0
78	M306B	Y	5.488	5.488	0 0
79	M315	X	9.505	9.505	0 0
80	M315	Y	5.488	5.488	0 0
81	M321	X	9.505	9.505	0 0
82	M321	Y	5.488	5.488	0 0
83	M327	X	9.505	9.505	0 0
84	M327	Y	5.488	5.488	0 0
85	M332	X	.969	.969	0 0
86	M332	Y	.56	.56	0 0
87	M334	X	2.066	2.066	0 0
88	M334	Y	1.193	1.193	0 0
89	M336	X	.969	.969	0 0
90	M336	Y	.56	.56	0 0
91	M348	X	2.431	2.431	0 0
92	M348	Y	1.403	1.403	0 0
93	M349	X	6.008	6.008	0 0
94	M349	Y	3.469	3.469	0 0
95	M352	X	6.911	6.911	0 0
96	M352	Y	3.99	3.99	0 0
97	M353	X	6.911	6.911	0 0
98	M353	Y	3.99	3.99	0 0
99	M356	X	6.008	6.008	0 0
100	M356	Y	3.468	3.468	0 0
101	M357	X	2.431	2.431	0 0
102	M357	Y	1.403	1.403	0 0

Member Distributed Loads (BLC 12 : Structure Wind w/ Ice (0))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-6.338e-17	-6.338e-17	0 0
2	M51	Y	0	0	0 0
3	M60	X	-1.835	-1.835	0 0
4	M60	Y	0	0	0 0
5	M63	X	-1.835	-1.835	0 0
6	M63	Y	0	0	0 0
7	M69	X	-3.787	-3.787	0 0
8	M69	Y	0	0	0 0
9	M72	X	-.947	-.947	0 0
10	M72	Y	0	0	0 0
11	M75	X	-.947	-.947	0 0
12	M75	Y	0	0	0 0
13	M92	X	-1.651	-1.651	0 0
14	M92	Y	0	0	0 0
15	M94	X	-.413	-.413	0 0
16	M94	Y	0	0	0 0
17	M98	X	-.413	-.413	0 0
18	M98	Y	0	0	0 0
19	M100	X	-1.651	-1.651	0 0
20	M100	Y	0	0	0 0
21	M104	X	-.413	-.413	0 0
22	M104	Y	0	0	0 0
23	M106	X	-.413	-.413	0 0
24	M106	Y	0	0	0 0
25	M109	X	-.424	-.424	0 0
26	M109	Y	0	0	0 0
27	M110	X	-1.697	-1.697	0 0

Member Distributed Loads (BLC 12 : Structure Wind w/ Ice (0)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
28	M110	Y	0	0	0
29	M111	X	-.424	-.424	0
30	M111	Y	0	0	0
31	M116	X	-3.373	-3.373	0
32	M116	Y	0	0	0
33	M121	X	-.843	-.843	0
34	M121	Y	0	0	0
35	M126	X	-.843	-.843	0
36	M126	Y	0	0	0
37	M129	X	-5.452	-5.452	0
38	M129	Y	0	0	0
39	M133	X	-5.452	-5.452	0
40	M133	Y	0	0	0
41	M137	X	-1.363	-1.363	0
42	M137	Y	0	0	0
43	M141	X	-1.363	-1.363	0
44	M141	Y	0	0	0
45	M145	X	-1.363	-1.363	0
46	M145	Y	0	0	0
47	M149	X	-1.363	-1.363	0
48	M149	Y	0	0	0
49	M163	X	-3.373	-3.373	0
50	M163	Y	0	0	0
51	M189A	X	-1.376	-1.376	0
52	M189A	Y	0	0	0
53	M209	X	-1.376	-1.376	0
54	M209	Y	0	0	0
55	M245A	X	-.459	-.459	0
56	M245A	Y	0	0	0
57	M246A	X	-.459	-.459	0
58	M246A	Y	0	0	0
59	M279	X	-.459	-.459	0
60	M279	Y	0	0	0
61	M280	X	-.459	-.459	0
62	M280	Y	0	0	0
63	M261A	X	-3.373	-3.373	0
64	M261A	Y	0	0	0
65	M267A	X	-3.373	-3.373	0
66	M267A	Y	0	0	0
67	M273A	X	-3.373	-3.373	0
68	M273A	Y	0	0	0
69	M279A	X	-3.373	-3.373	0
70	M279A	Y	0	0	0
71	M288B	X	-3.373	-3.373	0
72	M288B	Y	0	0	0
73	M294A	X	-3.373	-3.373	0
74	M294A	Y	0	0	0
75	M300B	X	-3.373	-3.373	0
76	M300B	Y	0	0	0
77	M306B	X	-3.373	-3.373	0
78	M306B	Y	0	0	0
79	M315	X	-3.373	-3.373	0
80	M315	Y	0	0	0
81	M321	X	-3.373	-3.373	0
82	M321	Y	0	0	0
83	M327	X	-3.373	-3.373	0
84	M327	Y	0	0	0

Company : Kimley-Horn and Associates, Inc.
 Designer : RJL
 Job Number : 01955051
 Model Name : 876352

Oct 12, 2020
 6:10 PM
 Checked By: ZAM

Member Distributed Loads (BLC 12 : Structure Wind w/ Ice (0)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
85	M332	X	-.55	-.55	0 0
86	M332	Y	0	0	0 0
87	M334	X	-1.548	-1.548	0 0
88	M334	Y	0	0	0 0
89	M336	X	-1.548	-1.548	0 0
90	M336	Y	0	0	0 0
91	M348	X	-1.287	-1.287	0 0
92	M348	Y	0	0	0 0
93	M349	X	-1.287	-1.287	0 0
94	M349	Y	0	0	0 0
95	M352	X	-1.636	-1.636	0 0
96	M352	Y	0	0	0 0
97	M353	X	-3.022	-3.022	0 0
98	M353	Y	0	0	0 0
99	M356	X	-3.022	-3.022	0 0
100	M356	Y	0	0	0 0
101	M357	X	-1.636	-1.636	0 0
102	M357	Y	0	0	0 0

Member Distributed Loads (BLC 13 : Structure Wind w/ Ice (30))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-.397	-.397	0 0
2	M51	Y	.229	.229	0 0
3	M60	X	-1.192	-1.192	0 0
4	M60	Y	.688	.688	0 0
5	M63	X	-1.192	-1.192	0 0
6	M63	Y	.688	.688	0 0
7	M69	X	-2.46	-2.46	0 0
8	M69	Y	1.42	1.42	0 0
9	M72	X	-2.46	-2.46	0 0
10	M72	Y	1.42	1.42	0 0
11	M75	X	-1.874e-14	-1.874e-14	0 0
12	M75	Y	1.082e-14	1.082e-14	0 0
13	M92	X	-1.072	-1.072	0 0
14	M92	Y	.619	.619	0 0
15	M94	X	-6.852e-11	-6.852e-11	0 0
16	M94	Y	3.956e-11	3.956e-11	0 0
17	M98	X	-1.072	-1.072	0 0
18	M98	Y	.619	.619	0 0
19	M100	X	-1.073	-1.073	0 0
20	M100	Y	.619	.619	0 0
21	M104	X	-9.833e-15	-9.833e-15	0 0
22	M104	Y	5.677e-15	5.677e-15	0 0
23	M106	X	-1.072	-1.072	0 0
24	M106	Y	.619	.619	0 0
25	M109	X	-8.4e-15	-8.4e-15	0 0
26	M109	Y	4.85e-15	4.85e-15	0 0
27	M110	X	-1.102	-1.102	0 0
28	M110	Y	.636	.636	0 0
29	M111	X	-1.102	-1.102	0 0
30	M111	Y	.636	.636	0 0
31	M116	X	-2.191	-2.191	0 0
32	M116	Y	1.265	1.265	0 0
33	M121	X	-2.191	-2.191	0 0
34	M121	Y	1.265	1.265	0 0
35	M126	X	-1.669e-14	-1.669e-14	0 0

Member Distributed Loads (BLC 13 : Structure Wind w/ Ice (30)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
36	M126	Y	9.637e-15	9.637e-15	0 0
37	M129	X	-3.541	-3.541	0 0
38	M129	Y	2.044	2.044	0 0
39	M133	X	-3.541	-3.541	0 0
40	M133	Y	2.044	2.044	0 0
41	M137	X	-3.541	-3.541	0 0
42	M137	Y	2.044	2.044	0 0
43	M141	X	-3.541	-3.541	0 0
44	M141	Y	2.044	2.044	0 0
45	M145	X	-2.698e-14	-2.698e-14	0 0
46	M145	Y	1.558e-14	1.558e-14	0 0
47	M149	X	-2.698e-14	-2.698e-14	0 0
48	M149	Y	1.558e-14	1.558e-14	0 0
49	M163	X	-2.921	-2.921	0 0
50	M163	Y	1.686	1.686	0 0
51	M189A	X	-.397	-.397	0 0
52	M189A	Y	.229	.229	0 0
53	M209	X	-1.589	-1.589	0 0
54	M209	Y	.918	.918	0 0
55	M245A	X	-1.192	-1.192	0 0
56	M245A	Y	.688	.688	0 0
57	M246A	X	-1.192	-1.192	0 0
58	M246A	Y	.688	.688	0 0
59	M279	X	-9.084e-15	-9.084e-15	0 0
60	M279	Y	5.245e-15	5.245e-15	0 0
61	M280	X	-9.084e-15	-9.084e-15	0 0
62	M280	Y	5.245e-15	5.245e-15	0 0
63	M261A	X	-2.921	-2.921	0 0
64	M261A	Y	1.686	1.686	0 0
65	M267A	X	-2.921	-2.921	0 0
66	M267A	Y	1.686	1.686	0 0
67	M273A	X	-2.921	-2.921	0 0
68	M273A	Y	1.686	1.686	0 0
69	M279A	X	-2.921	-2.921	0 0
70	M279A	Y	1.686	1.686	0 0
71	M288B	X	-2.921	-2.921	0 0
72	M288B	Y	1.686	1.686	0 0
73	M294A	X	-2.921	-2.921	0 0
74	M294A	Y	1.686	1.686	0 0
75	M300B	X	-2.921	-2.921	0 0
76	M300B	Y	1.686	1.686	0 0
77	M306B	X	-2.921	-2.921	0 0
78	M306B	Y	1.686	1.686	0 0
79	M315	X	-2.921	-2.921	0 0
80	M315	Y	1.686	1.686	0 0
81	M321	X	-2.921	-2.921	0 0
82	M321	Y	1.686	1.686	0 0
83	M327	X	-2.921	-2.921	0 0
84	M327	Y	1.686	1.686	0 0
85	M332	X	-.764	-.764	0 0
86	M332	Y	.441	.441	0 0
87	M334	X	-.764	-.764	0 0
88	M334	Y	.441	.441	0 0
89	M336	X	-1.629	-1.629	0 0
90	M336	Y	.941	.941	0 0
91	M348	X	-2.015	-2.015	0 0
92	M348	Y	1.163	1.163	0 0

Member Distributed Loads (BLC 13 : Structure Wind w/ Ice (30)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
93	M349	X	-.815	-.815	0 0
94	M349	Y	.471	.471	0 0
95	M352	X	-.815	-.815	0 0
96	M352	Y	.471	.471	0 0
97	M353	X	-2.015	-2.015	0 0
98	M353	Y	1.163	1.163	0 0
99	M356	X	-2.318	-2.318	0 0
100	M356	Y	1.338	1.338	0 0
101	M357	X	-2.318	-2.318	0 0
102	M357	Y	1.338	1.338	0 0

Member Distributed Loads (BLC 14 : Structure Wind w/ Ice (45))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-.649	-.649	0 0
2	M51	Y	.649	.649	0 0
3	M60	X	-.649	-.649	0 0
4	M60	Y	.649	.649	0 0
5	M63	X	-.649	-.649	0 0
6	M63	Y	.649	.649	0 0
7	M69	X	-1.339	-1.339	0 0
8	M69	Y	1.339	1.339	0 0
9	M72	X	-2.498	-2.498	0 0
10	M72	Y	2.498	2.498	0 0
11	M75	X	-.179	-.179	0 0
12	M75	Y	.179	.179	0 0
13	M92	X	-.584	-.584	0 0
14	M92	Y	.584	.584	0 0
15	M94	X	-.078	-.078	0 0
16	M94	Y	.078	.078	0 0
17	M98	X	-1.089	-1.089	0 0
18	M98	Y	1.089	1.089	0 0
19	M100	X	-.584	-.584	0 0
20	M100	Y	.584	.584	0 0
21	M104	X	-.078	-.078	0 0
22	M104	Y	.078	.078	0 0
23	M106	X	-1.089	-1.089	0 0
24	M106	Y	1.089	1.089	0 0
25	M109	X	-.08	-.08	0 0
26	M109	Y	.08	.08	0 0
27	M110	X	-.6	-.6	0 0
28	M110	Y	.6	.6	0 0
29	M111	X	-1.12	-1.12	0 0
30	M111	Y	1.12	1.12	0 0
31	M116	X	-1.192	-1.192	0 0
32	M116	Y	1.192	1.192	0 0
33	M121	X	-2.225	-2.225	0 0
34	M121	Y	2.225	2.225	0 0
35	M126	X	-.16	-.16	0 0
36	M126	Y	.16	.16	0 0
37	M129	X	-1.927	-1.927	0 0
38	M129	Y	1.927	1.927	0 0
39	M133	X	-1.927	-1.927	0 0
40	M133	Y	1.927	1.927	0 0
41	M137	X	-3.597	-3.597	0 0
42	M137	Y	3.597	3.597	0 0
43	M141	X	-3.597	-3.597	0 0

Member Distributed Loads (BLC 14 : Structure Wind w/ Ice (45)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
44	M141	Y	3.597	3.597	0 0
45	M145	X	-.258	-.258	0 0
46	M145	Y	.258	.258	0 0
47	M149	X	-.258	-.258	0 0
48	M149	Y	.258	.258	0 0
49	M163	X	-2.385	-2.385	0 0
50	M163	Y	2.385	2.385	0 0
51	M189A	X	-.087	-.087	0 0
52	M189A	Y	.087	.087	0 0
53	M209	X	-1.211	-1.211	0 0
54	M209	Y	1.211	1.211	0 0
55	M245A	X	-1.211	-1.211	0 0
56	M245A	Y	1.211	1.211	0 0
57	M246A	X	-1.211	-1.211	0 0
58	M246A	Y	1.211	1.211	0 0
59	M279	X	-.087	-.087	0 0
60	M279	Y	.087	.087	0 0
61	M280	X	-.087	-.087	0 0
62	M280	Y	.087	.087	0 0
63	M261A	X	-2.385	-2.385	0 0
64	M261A	Y	2.385	2.385	0 0
65	M267A	X	-2.385	-2.385	0 0
66	M267A	Y	2.385	2.385	0 0
67	M273A	X	-2.385	-2.385	0 0
68	M273A	Y	2.385	2.385	0 0
69	M279A	X	-2.385	-2.385	0 0
70	M279A	Y	2.385	2.385	0 0
71	M288B	X	-2.385	-2.385	0 0
72	M288B	Y	2.385	2.385	0 0
73	M294A	X	-2.385	-2.385	0 0
74	M294A	Y	2.385	2.385	0 0
75	M300B	X	-2.385	-2.385	0 0
76	M300B	Y	2.385	2.385	0 0
77	M306B	X	-2.385	-2.385	0 0
78	M306B	Y	2.385	2.385	0 0
79	M315	X	-2.385	-2.385	0 0
80	M315	Y	2.385	2.385	0 0
81	M321	X	-2.385	-2.385	0 0
82	M321	Y	2.385	2.385	0 0
83	M327	X	-2.385	-2.385	0 0
84	M327	Y	2.385	2.385	0 0
85	M332	X	-.859	-.859	0 0
86	M332	Y	.859	.859	0 0
87	M334	X	-.452	-.452	0 0
88	M334	Y	.452	.452	0 0
89	M336	X	-1.267	-1.267	0 0
90	M336	Y	1.267	1.267	0 0
91	M348	X	-1.967	-1.967	0 0
92	M348	Y	1.967	1.967	0 0
93	M349	X	-.836	-.836	0 0
94	M349	Y	.836	.836	0 0
95	M352	X	-.693	-.693	0 0
96	M352	Y	.693	.693	0 0
97	M353	X	-1.258	-1.258	0 0
98	M353	Y	1.258	1.258	0 0
99	M356	X	-1.544	-1.544	0 0
100	M356	Y	1.544	1.544	0 0

Member Distributed Loads (BLC 14 : Structure Wind w/ Ice (45)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
101	M357	X	-2.11	-2.11	0
102	M357	Y	2.11	2.11	0

Member Distributed Loads (BLC 15 : Structure Wind w/ Ice (60))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-.688	-.688	0
2	M51	Y	1.192	1.192	0
3	M60	X	-.229	-.229	0
4	M60	Y	.397	.397	0
5	M63	X	-.229	-.229	0
6	M63	Y	.397	.397	0
7	M69	X	-.473	-.473	0
8	M69	Y	.82	.82	0
9	M72	X	-1.893	-1.893	0
10	M72	Y	3.28	3.28	0
11	M75	X	-.473	-.473	0
12	M75	Y	.82	.82	0
13	M92	X	-.206	-.206	0
14	M92	Y	.357	.357	0
15	M94	X	-.206	-.206	0
16	M94	Y	.357	.357	0
17	M98	X	-.826	-.826	0
18	M98	Y	1.43	1.43	0
19	M100	X	-.206	-.206	0
20	M100	Y	.358	.358	0
21	M104	X	-.206	-.206	0
22	M104	Y	.357	.357	0
23	M106	X	-.826	-.826	0
24	M106	Y	1.43	1.43	0
25	M109	X	-.212	-.212	0
26	M109	Y	.367	.367	0
27	M110	X	-.212	-.212	0
28	M110	Y	.367	.367	0
29	M111	X	-.849	-.849	0
30	M111	Y	1.47	1.47	0
31	M116	X	-.422	-.422	0
32	M116	Y	.73	.73	0
33	M121	X	-1.686	-1.686	0
34	M121	Y	2.921	2.921	0
35	M126	X	-.422	-.422	0
36	M126	Y	.73	.73	0
37	M129	X	-.681	-.681	0
38	M129	Y	1.18	1.18	0
39	M133	X	-.681	-.681	0
40	M133	Y	1.18	1.18	0
41	M137	X	-2.726	-2.726	0
42	M137	Y	4.721	4.721	0
43	M141	X	-2.726	-2.726	0
44	M141	Y	4.721	4.721	0
45	M145	X	-.681	-.681	0
46	M145	Y	1.18	1.18	0
47	M149	X	-.681	-.681	0
48	M149	Y	1.18	1.18	0
49	M163	X	-1.686	-1.686	0
50	M163	Y	2.921	2.921	0
51	M189A	X	-2.264e-14	-2.264e-14	0

Member Distributed Loads (BLC 15 : Structure Wind w/ Ice (60)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
52	M189A	Y	3.921e-14	3.921e-14	0 0
53	M209	X	-.688	-.688	0 0
54	M209	Y	1.192	1.192	0 0
55	M245A	X	-.918	-.918	0 0
56	M245A	Y	1.589	1.589	0 0
57	M246A	X	-.918	-.918	0 0
58	M246A	Y	1.589	1.589	0 0
59	M279	X	-.229	-.229	0 0
60	M279	Y	.397	.397	0 0
61	M280	X	-.229	-.229	0 0
62	M280	Y	.397	.397	0 0
63	M261A	X	-1.686	-1.686	0 0
64	M261A	Y	2.921	2.921	0 0
65	M267A	X	-1.686	-1.686	0 0
66	M267A	Y	2.921	2.921	0 0
67	M273A	X	-1.686	-1.686	0 0
68	M273A	Y	2.921	2.921	0 0
69	M279A	X	-1.686	-1.686	0 0
70	M279A	Y	2.921	2.921	0 0
71	M288B	X	-1.686	-1.686	0 0
72	M288B	Y	2.921	2.921	0 0
73	M294A	X	-1.686	-1.686	0 0
74	M294A	Y	2.921	2.921	0 0
75	M300B	X	-1.686	-1.686	0 0
76	M300B	Y	2.921	2.921	0 0
77	M306B	X	-1.686	-1.686	0 0
78	M306B	Y	2.921	2.921	0 0
79	M315	X	-1.686	-1.686	0 0
80	M315	Y	2.921	2.921	0 0
81	M321	X	-1.686	-1.686	0 0
82	M321	Y	2.921	2.921	0 0
83	M327	X	-1.686	-1.686	0 0
84	M327	Y	2.921	2.921	0 0
85	M332	X	-.774	-.774	0 0
86	M332	Y	1.341	1.341	0 0
87	M334	X	-.275	-.275	0 0
88	M334	Y	.476	.476	0 0
89	M336	X	-.774	-.774	0 0
90	M336	Y	1.341	1.341	0 0
91	M348	X	-1.511	-1.511	0 0
92	M348	Y	2.617	2.617	0 0
93	M349	X	-.818	-.818	0 0
94	M349	Y	1.417	1.417	0 0
95	M352	X	-.643	-.643	0 0
96	M352	Y	1.114	1.114	0 0
97	M353	X	-.643	-.643	0 0
98	M353	Y	1.114	1.114	0 0
99	M356	X	-.818	-.818	0 0
100	M356	Y	1.417	1.417	0 0
101	M357	X	-1.511	-1.511	0 0
102	M357	Y	2.617	2.617	0 0

Member Distributed Loads (BLC 16 : Structure Wind w/ Ice (90))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	-4.162e-7	-4.162e-7	0 0
2	M51	Y	1.835	1.835	0 0

Member Distributed Loads (BLC 16 : Structure Wind w/ Ice (90)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
3	M60	X	-2.141e-20	-2.141e-20	0 0
4	M60	Y	9.44e-14	9.44e-14	0 0
5	M63	X	-2.141e-20	-2.141e-20	0 0
6	M63	Y	9.44e-14	9.44e-14	0 0
7	M69	X	-4.418e-20	-4.418e-20	0 0
8	M69	Y	1.948e-13	1.948e-13	0 0
9	M72	X	-6.441e-7	-6.441e-7	0 0
10	M72	Y	2.84	2.84	0 0
11	M75	X	-6.441e-7	-6.441e-7	0 0
12	M75	Y	2.84	2.84	0 0
13	M92	X	-2.053e-20	-2.053e-20	0 0
14	M92	Y	9.051e-14	9.051e-14	0 0
15	M94	X	-2.809e-7	-2.809e-7	0 0
16	M94	Y	1.238	1.238	0 0
17	M98	X	-2.809e-7	-2.809e-7	0 0
18	M98	Y	1.238	1.238	0 0
19	M100	X	-1.874e-17	-1.874e-17	0 0
20	M100	Y	8.262e-11	8.262e-11	0 0
21	M104	X	-2.809e-7	-2.809e-7	0 0
22	M104	Y	1.238	1.238	0 0
23	M106	X	-2.809e-7	-2.809e-7	0 0
24	M106	Y	1.238	1.238	0 0
25	M109	X	-2.887e-7	-2.887e-7	0 0
26	M109	Y	1.273	1.273	0 0
27	M110	X	-1.98e-20	-1.98e-20	0 0
28	M110	Y	8.73e-14	8.73e-14	0 0
29	M111	X	-2.887e-7	-2.887e-7	0 0
30	M111	Y	1.273	1.273	0 0
31	M116	X	-3.934e-20	-3.934e-20	0 0
32	M116	Y	1.735e-13	1.735e-13	0 0
33	M121	X	-5.737e-7	-5.737e-7	0 0
34	M121	Y	2.529	2.529	0 0
35	M126	X	-5.737e-7	-5.737e-7	0 0
36	M126	Y	2.529	2.529	0 0
37	M129	X	-6.36e-20	-6.36e-20	0 0
38	M129	Y	2.804e-13	2.804e-13	0 0
39	M133	X	-6.359e-20	-6.359e-20	0 0
40	M133	Y	2.804e-13	2.804e-13	0 0
41	M137	X	-9.273e-7	-9.273e-7	0 0
42	M137	Y	4.089	4.089	0 0
43	M141	X	-9.273e-7	-9.273e-7	0 0
44	M141	Y	4.089	4.089	0 0
45	M145	X	-9.273e-7	-9.273e-7	0 0
46	M145	Y	4.089	4.089	0 0
47	M149	X	-9.273e-7	-9.273e-7	0 0
48	M149	Y	4.089	4.089	0 0
49	M163	X	-7.649e-7	-7.649e-7	0 0
50	M163	Y	3.373	3.373	0 0
51	M189A	X	-1.041e-7	-1.041e-7	0 0
52	M189A	Y	.459	.459	0 0
53	M209	X	-1.041e-7	-1.041e-7	0 0
54	M209	Y	.459	.459	0 0
55	M245A	X	-3.122e-7	-3.122e-7	0 0
56	M245A	Y	1.376	1.376	0 0
57	M246A	X	-3.122e-7	-3.122e-7	0 0
58	M246A	Y	1.376	1.376	0 0
59	M279	X	-3.122e-7	-3.122e-7	0 0

Member Distributed Loads (BLC 16 : Structure Wind w/ Ice (90)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
60	M279	Y	1.376	1.376	0 0
61	M280	X	-3.122e-7	-3.122e-7	0 0
62	M280	Y	1.376	1.376	0 0
63	M261A	X	-7.649e-7	-7.649e-7	0 0
64	M261A	Y	3.373	3.373	0 0
65	M267A	X	-7.649e-7	-7.649e-7	0 0
66	M267A	Y	3.373	3.373	0 0
67	M273A	X	-7.649e-7	-7.649e-7	0 0
68	M273A	Y	3.373	3.373	0 0
69	M279A	X	-7.649e-7	-7.649e-7	0 0
70	M279A	Y	3.373	3.373	0 0
71	M288B	X	-7.649e-7	-7.649e-7	0 0
72	M288B	Y	3.373	3.373	0 0
73	M294A	X	-7.649e-7	-7.649e-7	0 0
74	M294A	Y	3.373	3.373	0 0
75	M300B	X	-7.649e-7	-7.649e-7	0 0
76	M300B	Y	3.373	3.373	0 0
77	M306B	X	-7.649e-7	-7.649e-7	0 0
78	M306B	Y	3.373	3.373	0 0
79	M315	X	-7.649e-7	-7.649e-7	0 0
80	M315	Y	3.373	3.373	0 0
81	M321	X	-7.649e-7	-7.649e-7	0 0
82	M321	Y	3.373	3.373	0 0
83	M327	X	-7.649e-7	-7.649e-7	0 0
84	M327	Y	3.373	3.373	0 0
85	M332	X	-4.267e-7	-4.267e-7	0 0
86	M332	Y	1.881	1.881	0 0
87	M334	X	-2.002e-7	-2.002e-7	0 0
88	M334	Y	.883	.883	0 0
89	M336	X	-2.002e-7	-2.002e-7	0 0
90	M336	Y	.883	.883	0 0
91	M348	X	-6.071e-7	-6.071e-7	0 0
92	M348	Y	2.677	2.677	0 0
93	M349	X	-6.071e-7	-6.071e-7	0 0
94	M349	Y	2.677	2.677	0 0
95	M352	X	-5.277e-7	-5.277e-7	0 0
96	M352	Y	2.327	2.327	0 0
97	M353	X	-2.135e-7	-2.135e-7	0 0
98	M353	Y	.941	.941	0 0
99	M356	X	-2.135e-7	-2.135e-7	0 0
100	M356	Y	.941	.941	0 0
101	M357	X	-5.277e-7	-5.277e-7	0 0
102	M357	Y	2.327	2.327	0 0

Member Distributed Loads (BLC 17 : Structure Wind w/ Ice (120))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	.688	.688	0 0
2	M51	Y	1.192	1.192	0 0
3	M60	X	.229	.229	0 0
4	M60	Y	.397	.397	0 0
5	M63	X	.229	.229	0 0
6	M63	Y	.397	.397	0 0
7	M69	X	.473	.473	0 0
8	M69	Y	.82	.82	0 0
9	M72	X	.473	.473	0 0
10	M72	Y	.82	.82	0 0

Member Distributed Loads (BLC 17 : Structure Wind w/ Ice (120)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
11	M75	X	1.893	1.893	0 0
12	M75	Y	3.28	3.28	0 0
13	M92	X	.206	.206	0 0
14	M92	Y	.357	.357	0 0
15	M94	X	.826	.826	0 0
16	M94	Y	1.43	1.43	0 0
17	M98	X	.206	.206	0 0
18	M98	Y	.357	.357	0 0
19	M100	X	.206	.206	0 0
20	M100	Y	.357	.357	0 0
21	M104	X	.826	.826	0 0
22	M104	Y	1.43	1.43	0 0
23	M106	X	.206	.206	0 0
24	M106	Y	.358	.358	0 0
25	M109	X	.849	.849	0 0
26	M109	Y	1.47	1.47	0 0
27	M110	X	.212	.212	0 0
28	M110	Y	.367	.367	0 0
29	M111	X	.212	.212	0 0
30	M111	Y	.367	.367	0 0
31	M116	X	.422	.422	0 0
32	M116	Y	.73	.73	0 0
33	M121	X	.422	.422	0 0
34	M121	Y	.73	.73	0 0
35	M126	X	1.686	1.686	0 0
36	M126	Y	2.921	2.921	0 0
37	M129	X	.681	.681	0 0
38	M129	Y	1.18	1.18	0 0
39	M133	X	.681	.681	0 0
40	M133	Y	1.18	1.18	0 0
41	M137	X	.681	.681	0 0
42	M137	Y	1.18	1.18	0 0
43	M141	X	.681	.681	0 0
44	M141	Y	1.18	1.18	0 0
45	M145	X	2.726	2.726	0 0
46	M145	Y	4.721	4.721	0 0
47	M149	X	2.726	2.726	0 0
48	M149	Y	4.721	4.721	0 0
49	M163	X	1.686	1.686	0 0
50	M163	Y	2.921	2.921	0 0
51	M189A	X	.688	.688	0 0
52	M189A	Y	1.192	1.192	0 0
53	M209	X	8.721e-14	8.721e-14	0 0
54	M209	Y	1.51e-13	1.51e-13	0 0
55	M245A	X	.229	.229	0 0
56	M245A	Y	.397	.397	0 0
57	M246A	X	.229	.229	0 0
58	M246A	Y	.397	.397	0 0
59	M279	X	.918	.918	0 0
60	M279	Y	1.589	1.589	0 0
61	M280	X	.918	.918	0 0
62	M280	Y	1.589	1.589	0 0
63	M261A	X	1.686	1.686	0 0
64	M261A	Y	2.921	2.921	0 0
65	M267A	X	1.686	1.686	0 0
66	M267A	Y	2.921	2.921	0 0
67	M273A	X	1.686	1.686	0 0

Member Distributed Loads (BLC 17 : Structure Wind w/ Ice (120)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
68	M273A	Y	2.921	2.921	0 0
69	M279A	X	1.686	1.686	0 0
70	M279A	Y	2.921	2.921	0 0
71	M288B	X	1.686	1.686	0 0
72	M288B	Y	2.921	2.921	0 0
73	M294A	X	1.686	1.686	0 0
74	M294A	Y	2.921	2.921	0 0
75	M300B	X	1.686	1.686	0 0
76	M300B	Y	2.921	2.921	0 0
77	M306B	X	1.686	1.686	0 0
78	M306B	Y	2.921	2.921	0 0
79	M315	X	1.686	1.686	0 0
80	M315	Y	2.921	2.921	0 0
81	M321	X	1.686	1.686	0 0
82	M321	Y	2.921	2.921	0 0
83	M327	X	1.686	1.686	0 0
84	M327	Y	2.921	2.921	0 0
85	M332	X	.774	.774	0 0
86	M332	Y	1.341	1.341	0 0
87	M334	X	.774	.774	0 0
88	M334	Y	1.341	1.341	0 0
89	M336	X	.275	.275	0 0
90	M336	Y	.476	.476	0 0
91	M348	X	.818	.818	0 0
92	M348	Y	1.417	1.417	0 0
93	M349	X	1.511	1.511	0 0
94	M349	Y	2.617	2.617	0 0
95	M352	X	1.511	1.511	0 0
96	M352	Y	2.617	2.617	0 0
97	M353	X	.818	.818	0 0
98	M353	Y	1.417	1.417	0 0
99	M356	X	.643	.643	0 0
100	M356	Y	1.114	1.114	0 0
101	M357	X	.643	.643	0 0
102	M357	Y	1.114	1.114	0 0

Member Distributed Loads (BLC 18 : Structure Wind w/ Ice (135))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	.649	.649	0 0
2	M51	Y	.649	.649	0 0
3	M60	X	.649	.649	0 0
4	M60	Y	.649	.649	0 0
5	M63	X	.649	.649	0 0
6	M63	Y	.649	.649	0 0
7	M69	X	1.339	1.339	0 0
8	M69	Y	1.339	1.339	0 0
9	M72	X	.179	.179	0 0
10	M72	Y	.179	.179	0 0
11	M75	X	2.498	2.498	0 0
12	M75	Y	2.498	2.498	0 0
13	M92	X	.584	.584	0 0
14	M92	Y	.584	.584	0 0
15	M94	X	1.089	1.089	0 0
16	M94	Y	1.089	1.089	0 0
17	M98	X	.078	.078	0 0
18	M98	Y	.078	.078	0 0

Member Distributed Loads (BLC 18 : Structure Wind w/ Ice (135)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
19	M100	X	.584	.584	0 0
20	M100	Y	.584	.584	0 0
21	M104	X	1.089	1.089	0 0
22	M104	Y	1.089	1.089	0 0
23	M106	X	.078	.078	0 0
24	M106	Y	.078	.078	0 0
25	M109	X	1.12	1.12	0 0
26	M109	Y	1.12	1.12	0 0
27	M110	X	.6	.6	0 0
28	M110	Y	.6	.6	0 0
29	M111	X	.08	.08	0 0
30	M111	Y	.08	.08	0 0
31	M116	X	1.192	1.192	0 0
32	M116	Y	1.192	1.192	0 0
33	M121	X	.16	.16	0 0
34	M121	Y	.16	.16	0 0
35	M126	X	2.225	2.225	0 0
36	M126	Y	2.225	2.225	0 0
37	M129	X	1.927	1.927	0 0
38	M129	Y	1.927	1.927	0 0
39	M133	X	1.927	1.927	0 0
40	M133	Y	1.927	1.927	0 0
41	M137	X	.258	.258	0 0
42	M137	Y	.258	.258	0 0
43	M141	X	.258	.258	0 0
44	M141	Y	.258	.258	0 0
45	M145	X	3.597	3.597	0 0
46	M145	Y	3.597	3.597	0 0
47	M149	X	3.597	3.597	0 0
48	M149	Y	3.597	3.597	0 0
49	M163	X	2.385	2.385	0 0
50	M163	Y	2.385	2.385	0 0
51	M189A	X	1.211	1.211	0 0
52	M189A	Y	1.211	1.211	0 0
53	M209	X	.087	.087	0 0
54	M209	Y	.087	.087	0 0
55	M245A	X	.087	.087	0 0
56	M245A	Y	.087	.087	0 0
57	M246A	X	.087	.087	0 0
58	M246A	Y	.087	.087	0 0
59	M279	X	1.211	1.211	0 0
60	M279	Y	1.211	1.211	0 0
61	M280	X	1.211	1.211	0 0
62	M280	Y	1.211	1.211	0 0
63	M261A	X	2.385	2.385	0 0
64	M261A	Y	2.385	2.385	0 0
65	M267A	X	2.385	2.385	0 0
66	M267A	Y	2.385	2.385	0 0
67	M273A	X	2.385	2.385	0 0
68	M273A	Y	2.385	2.385	0 0
69	M279A	X	2.385	2.385	0 0
70	M279A	Y	2.385	2.385	0 0
71	M288B	X	2.385	2.385	0 0
72	M288B	Y	2.385	2.385	0 0
73	M294A	X	2.385	2.385	0 0
74	M294A	Y	2.385	2.385	0 0
75	M300B	X	2.385	2.385	0 0

Member Distributed Loads (BLC 18 : Structure Wind w/ Ice (135)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
76	M300B	Y	2.385	2.385	0 0
77	M306B	X	2.385	2.385	0 0
78	M306B	Y	2.385	2.385	0 0
79	M315	X	2.385	2.385	0 0
80	M315	Y	2.385	2.385	0 0
81	M321	X	2.385	2.385	0 0
82	M321	Y	2.385	2.385	0 0
83	M327	X	2.385	2.385	0 0
84	M327	Y	2.385	2.385	0 0
85	M332	X	.859	.859	0 0
86	M332	Y	.859	.859	0 0
87	M334	X	1.267	1.267	0 0
88	M334	Y	1.267	1.267	0 0
89	M336	X	.452	.452	0 0
90	M336	Y	.452	.452	0 0
91	M348	X	.836	.836	0 0
92	M348	Y	.836	.836	0 0
93	M349	X	1.967	1.967	0 0
94	M349	Y	1.967	1.967	0 0
95	M352	X	2.11	2.11	0 0
96	M352	Y	2.11	2.11	0 0
97	M353	X	1.544	1.544	0 0
98	M353	Y	1.544	1.544	0 0
99	M356	X	1.258	1.258	0 0
100	M356	Y	1.258	1.258	0 0
101	M357	X	.693	.693	0 0
102	M357	Y	.693	.693	0 0

Member Distributed Loads (BLC 19 : Structure Wind w/ Ice (150))

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
1	M51	X	.397	.397	0 0
2	M51	Y	.229	.229	0 0
3	M60	X	1.192	1.192	0 0
4	M60	Y	.688	.688	0 0
5	M63	X	1.192	1.192	0 0
6	M63	Y	.688	.688	0 0
7	M69	X	2.46	2.46	0 0
8	M69	Y	1.42	1.42	0 0
9	M72	X	4.686e-13	4.686e-13	0 0
10	M72	Y	2.705e-13	2.705e-13	0 0
11	M75	X	2.46	2.46	0 0
12	M75	Y	1.42	1.42	0 0
13	M92	X	1.072	1.072	0 0
14	M92	Y	.619	.619	0 0
15	M94	X	1.073	1.073	0 0
16	M94	Y	.619	.619	0 0
17	M98	X	2.123e-13	2.123e-13	0 0
18	M98	Y	1.226e-13	1.226e-13	0 0
19	M100	X	1.072	1.072	0 0
20	M100	Y	.619	.619	0 0
21	M104	X	1.072	1.072	0 0
22	M104	Y	.619	.619	0 0
23	M106	X	7.464e-11	7.464e-11	0 0
24	M106	Y	4.309e-11	4.309e-11	0 0
25	M109	X	1.102	1.102	0 0
26	M109	Y	.636	.636	0 0

Member Distributed Loads (BLC 19 : Structure Wind w/ Ice (150)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
27	M110	X	1.102	1.102	0 0
28	M110	Y	.636	.636	0 0
29	M111	X	2.1e-13	2.1e-13	0 0
30	M111	Y	1.212e-13	1.212e-13	0 0
31	M116	X	2.191	2.191	0 0
32	M116	Y	1.265	1.265	0 0
33	M121	X	4.173e-13	4.173e-13	0 0
34	M121	Y	2.409e-13	2.409e-13	0 0
35	M126	X	2.191	2.191	0 0
36	M126	Y	1.265	1.265	0 0
37	M129	X	3.541	3.541	0 0
38	M129	Y	2.044	2.044	0 0
39	M133	X	3.541	3.541	0 0
40	M133	Y	2.044	2.044	0 0
41	M137	X	6.746e-13	6.746e-13	0 0
42	M137	Y	3.895e-13	3.895e-13	0 0
43	M141	X	6.746e-13	6.746e-13	0 0
44	M141	Y	3.895e-13	3.895e-13	0 0
45	M145	X	3.541	3.541	0 0
46	M145	Y	2.044	2.044	0 0
47	M149	X	3.541	3.541	0 0
48	M149	Y	2.044	2.044	0 0
49	M163	X	2.921	2.921	0 0
50	M163	Y	1.686	1.686	0 0
51	M189A	X	1.589	1.589	0 0
52	M189A	Y	.918	.918	0 0
53	M209	X	.397	.397	0 0
54	M209	Y	.229	.229	0 0
55	M245A	X	2.271e-13	2.271e-13	0 0
56	M245A	Y	1.311e-13	1.311e-13	0 0
57	M246A	X	2.271e-13	2.271e-13	0 0
58	M246A	Y	1.311e-13	1.311e-13	0 0
59	M279	X	1.192	1.192	0 0
60	M279	Y	.688	.688	0 0
61	M280	X	1.192	1.192	0 0
62	M280	Y	.688	.688	0 0
63	M261A	X	2.921	2.921	0 0
64	M261A	Y	1.686	1.686	0 0
65	M267A	X	2.921	2.921	0 0
66	M267A	Y	1.686	1.686	0 0
67	M273A	X	2.921	2.921	0 0
68	M273A	Y	1.686	1.686	0 0
69	M279A	X	2.921	2.921	0 0
70	M279A	Y	1.686	1.686	0 0
71	M288B	X	2.921	2.921	0 0
72	M288B	Y	1.686	1.686	0 0
73	M294A	X	2.921	2.921	0 0
74	M294A	Y	1.686	1.686	0 0
75	M300B	X	2.921	2.921	0 0
76	M300B	Y	1.686	1.686	0 0
77	M306B	X	2.921	2.921	0 0
78	M306B	Y	1.686	1.686	0 0
79	M315	X	2.921	2.921	0 0
80	M315	Y	1.686	1.686	0 0
81	M321	X	2.921	2.921	0 0
82	M321	Y	1.686	1.686	0 0
83	M327	X	2.921	2.921	0 0

Company : Kimley-Horn and Associates, Inc.
 Designer : RJL
 Job Number : 01955051
 Model Name : 876352

Oct 12, 2020
 6:10 PM
 Checked By: ZAM

Member Distributed Loads (BLC 19 : Structure Wind w/ Ice (150)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,psf]	End Magnitude[lb/ft,F,psf]	Start Location[in...]	End Location[in...]
84	M327	Y	1.686	1.686	0 0
85	M332	X	.764	.764	0 0
86	M332	Y	.441	.441	0 0
87	M334	X	1.629	1.629	0 0
88	M334	Y	.941	.941	0 0
89	M336	X	.764	.764	0 0
90	M336	Y	.441	.441	0 0
91	M348	X	.815	.815	0 0
92	M348	Y	.471	.471	0 0
93	M349	X	2.015	2.015	0 0
94	M349	Y	1.163	1.163	0 0
95	M352	X	2.318	2.318	0 0
96	M352	Y	1.338	1.338	0 0
97	M353	X	2.318	2.318	0 0
98	M353	Y	1.338	1.338	0 0
99	M356	X	2.015	2.015	0 0
100	M356	Y	1.163	1.163	0 0
101	M357	X	.815	.815	0 0
102	M357	Y	.471	.471	0 0

Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1 N35	max 1471.589	18	-679.817	18	1050.051	30	-80.948	6	114.709	3	1876.396	18
2	min -169.981	10	-2233.323	26	85.084	6	-1725.905	31	-1219.799	59	-1891.243	10
3 N61	max 1421.167	4	2218.059	29	1034.973	24	1769.954	23	154.127	3	1846.155	12
4	min -134.761	12	578.899	5	65.512	16	45.668	16	-1143.355	75	-1858.05	4
5 N88	max -907.912	3	897.109	15	1002.681	19	521.793	7	1956.532	19	1785.973	7
6	min -2509.55	28	-900.096	7	60.752	11	-587.83	15	58.298	11	-1796.108	15
7 N1378B	max 3934.536	3	370.219	15	1826.605	28	75.687	15	136.511	11	56.564	7
8	min -1224.203	11	-377.449	7	794.008	1	-73.635	7	-530.29	3	-58.574	15
9 N1379A	max 736.702	5	3450.485	14	1868.46	19	467.039	14	271.565	13	59.547	18
10	min -2085.019	13	-1055.547	6	849.245	1	-119.93	6	-73.958	5	-60.15	10
11 N1380	max 638.807	17	1091.13	16	1835.622	30	120.021	16	265.2	8	57.029	12
12	min -1992.581	9	-3466.158	8	803.87	1	-467.855	8	-67.511	16	-59.652	4
13 Totals:	max 6047.912	3	6047.488	15	8287.733	27						
14	min -6047.923	11	-6047.471	7	3654.45	1						

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Member	Shape	Code Check	Loc...	LC	She...	Loc[in]	Dir	LC	phi* ...	phi*P...phi*M...phi* ...	Cb	Eqn
1	M334 SR 0.625	.366		75...	30	.008	0	10	294...9940...	103.544	103...	1.137 H1-1a*
2	M336 SR 0.625	.361		75...	24	.007	0	4	294...9940...	103.544	103...	1.137 H1-1a*
3	M332 SR 0.625	.357		75...	19	.007	75.854	15	294...9940...	103.544	103...	1.137 H1-1a*
4	M109 L2.5x2...	.354		14...	15	.029	0	y 14	3569...37485	1082...	246...	1.168 H2-1
5	M110 L2.5x2...	.353		14...	10	.029	0	y 8	3569...37485	1082...	246...	1.174 H2-1
6	M111 L2.5x2...	.352		14...	4	.029	0	y 3	3569...37485	1082...	246...	1.168 H2-1
7	M209 HSS4X...	.240		0	5	.088	0	z 4	9285...1061...	12311...	123...	2.882 H1-1b
8	M189A HSS4X...	.239		0	18	.092	0	z 10	9285...1061...	12311...	123...	2.849 H1-1b
9	M51 HSS4X...	.229		0	7	.087	0	z 15	9285...1061...	12311...	123...	2.861 H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc...	LC	She...	Locfln1	Dir	LC	phi*...	phi*P...	phi*M...	phi*...	Cb	Egn
10	M121 PIPE_2.5	.225	50...	16	.095	54.947		15	1081..	50715	3596.25	359...	2.695	H1-1b
11	M116 PIPE_2.5	.225	50...	6	.101	54.947		4	1081..	50715	3596.25	359...	2.716	H1-1b
12	M126 PIPE_2.5	.222	50...	11	.096	54.947		9	1081..	50715	3596.25	359...	2.737	H1-1b
13	M245A HSS4X...	.176	30...	12	.033	3.204	z	11	1040..	1061..	12311..	123...	1.581	H1-1b
14	M279 HSS4X...	.172	30...	7	.032	3.204	z	6	1040..	1061..	12311..	123...	1.581	H1-1b
15	M60 HSS4X...	.170	30...	18	.034	3.204	z	17	1040..	1061..	12311..	123...	1.581	H1-1b
16	M280 HSS4X...	.170	0	10	.032	27.233	z	3	1040..	1061..	12311..	123...	1.547	H1-1b
17	M246A HSS4X...	.168	0	15	.033	27.233	z	8	1040..	1061..	12311..	123...	1.547	H1-1b
18	M63 HSS4X...	.166	0	4	.033	27.233	z	13	1040..	1061..	12311..	123...	1.548	H1-1b
19	M261A PIPE_2.5	.165	10...	14	.060	101.053		17	2237..	50715	3596.25	359...	2.176	H1-1b
20	M267A PIPE_2.5	.158	10...	9	.063	101.053		5	2237..	50715	3596.25	359...	2.113	H1-1b
21	M288B PIPE_2.5	.156	10...	3	.057	101.053		7	2237..	50715	3596.25	359...	2.188	H1-1b
22	M315 PIPE_2.5	.155	10...	8	.058	101.053		12	2237..	50715	3596.25	359...	2.191	H1-1b
23	M163 PIPE_2.5	.149	10...	13	.075	18.947		4	2237..	50715	3596.25	359...	1.839	H1-1b
24	M294A PIPE_2.5	.148	10...	14	.060	101.053		11	2237..	50715	3596.25	359...	2.144	H1-1b
25	M321 PIPE_2.5	.148	10...	3	.059	101.053		16	2237..	50715	3596.25	359...	2.143	H1-1b
26	M279A PIPE_2.5	.143	10...	3	.074	18.947		10	2237..	50715	3596.25	359...	1.884	H1-1b
27	M306B PIPE_2.5	.142	10...	8	.076	18.947		15	2237..	50715	3596.25	359...	1.884	H1-1b
28	M92 L2x2x3	.141	50...	12	.007	0	z	11	9585..	22743	542.224	117...	1.914	H2-1
29	M104 L2x2x3	.140	50...	18	.007	0	z	17	9585..	22743	542.224	117...	1.905	H2-1
30	M98 L2x2x3	.139	50...	7	.006	0	z	6	9585..	22743	542.224	117...	1.904	H2-1
31	M100 L2x2x3	.128	50...	10	.007	50.542	z	25	9585..	22743	542.224	117...	1.913	H2-1
32	M106 L2x2x3	.127	50...	4	.007	0	y	5	9585..	22743	542.224	117...	1.91	H2-1
33	M94 L2x2x3	.127	50...	15	.007	50.542	z	31	9585..	22743	542.224	117...	1.909	H2-1
34	M273A PIPE_2.5	.123	10...	9	.059	75.789		16	2237..	50715	3596.25	359...	1.836	H1-1b
35	M327 PIPE_2.5	.114	10...	3	.059	75.789		11	2237..	50715	3596.25	359...	1.886	H1-1b
36	M300B PIPE_2.5	.113	10...	14	.060	75.789		6	2237..	50715	3596.25	359...	1.888	H1-1b
37	M69 PIPE_3.0	.093	64...	10	.099	13.737		11	2126..	65205	5748.75	574...	2.992	H1-1b
38	M72 PIPE_3.0	.087	64...	4	.098	13.737		6	2126..	65205	5748.75	574...	3.055	H1-1b
39	M75 PIPE_3.0	.087	64...	15	.099	13.737		17	2126..	65205	5748.75	574...	3.07	H1-1b
40	M349 PIPE_2.0	.045	0	4	.025	0		18	2382..	32130	1871...	187...	1.137	H1-1b*
41	M353 PIPE_2.0	.043	0	15	.027	59.933		13	2382..	32130	1871...	187...	1.137	H1-1b*
42	M357 PIPE_2.0	.043	0	10	.024	59.933		7	2382..	32130	1871...	187...	1.137	H1-1b*
43	M348 PIPE_2.0	.039	0	18	.024	0		4	2382..	32130	1871...	187...	1.137	H1-1b*
44	M356 PIPE_2.0	.038	0	7	.024	59.932		10	2382..	32130	1871...	187...	1.137	H1-1b*
45	M352 PIPE_2.0	.038	0	12	.024	59.932		15	2382..	32130	1871...	187...	1.137	H1-1b*

Envelope Plate/Shell Principal Stresses

Plate		Surf...	Sigma1 [ksi]	LC	Sigma2 [ksi]	LC	Tau Max [ksi]	LC	Angle [rad]	LC	Von Mises [ksi]	LC	
1	P552	max	T	3.417	6	.293	5	5.783	14	2.074	10	12.502	14
2		min		-1.698	14	-13.265	14	.748	10	-.542	9	1.405	10
3		max	B	9.192	14	1.453	14	3.87	14	1.313	5	8.559	14
4		min		-.167	5	-2.687	6	.519	10	-.181	16	.95	10
5	P648	max	T	3.349	16	.286	16	5.672	8	2.128	4	12.265	8
6		min		-1.67	8	-13.015	8	.697	1	-.639	1	1.233	1
7		max	B	9.019	8	1.432	8	3.793	8	1.299	15	8.395	8
8		min		-.15	16	-2.633	16	.532	4	-.179	11	.952	4
9	P457	max	T	3.428	11	.293	11	5.638	3	2.237	9	12.191	3
10		min		-1.66	3	-12.936	3	.161	9	-.387	14	.284	9
11		max	B	8.97	3	1.424	3	3.773	3	1.302	10	8.349	3
12		min		-.155	11	-2.689	11	.19	9	-.179	6	.331	9
13	P537	max	T	4.021	3	.269	6	5.622	11	1.694	11	12.051	11
14		min		-1.504	14	-12.722	11	.799	18	.208	7	1.433	18
15		max	B	8.627	11	1.233	14	3.739	11	2.101	18	8.114	11
16		min		-.15	6	-2.991	3	.57	17	-.173	17	1.238	18

Envelope Plate/Shell Principal Stresses (Continued)

Plate	Surf...	Sigma1 [ksi]	LC	Sigma2 [ksi]	LC	Tau Max [ksi]	LC	Angle [rad]	LC	Von Mises [ksi]	LC
17	P633	max T	3.949	14	.294	17	5.576	6	1.695	5	11.953
18		min	-1.51	8	-12.618	6	.731	12	.195	17	1.302
19		max B	8.566	6	1.238	9	3.715	6	2.106	12	8.058
20		min	-.187	17	-2.948	14	.629	12	.039	94	1.131
21	P442	max T	3.97	9	.275	11	5.505	17	1.694	16	11.812
22		min	-1.481	3	-12.477	17	.118	13	.204	12	.206
23		max B	8.448	16	1.211	3	3.662	16	2.103	7	7.946
24		min	-.157	11	-2.924	8	.174	13	.055	72	.323
25	P859A	max T	2.945	6	.203	5	5.492	14	1.815	10	11.542
26		min	-1.068	13	-12.029	14	.579	10	-.605	9	1.163
27		max B	9.628	14	1.142	13	4.254	14	1.455	4	9.12
28		min	-.232	5	-2.577	6	.24	10	-.297	3	.61
29	P715A	max T	2.89	16	.174	16	5.392	8	1.878	4	11.336
30		min	-1.035	8	-11.818	8	.513	1	-.74	1	.889
31		max B	9.456	8	1.107	8	4.175	8	1.455	15	8.954
32		min	-.215	16	-2.529	16	.214	4	-.295	14	.532
33	P787A	max T	2.955	11	.175	11	5.358	3	1.872	15	11.266
34		min	-1.03	3	-11.745	3	.061	9	-.436	14	.113
35		max B	9.4	3	1.102	3	4.149	3	2.007	9	8.9
36		min	-.218	11	-2.581	11	.147	9	-.295	8	.258
37	P853A	max T	3.303	6	.412	5	4.435	14	2.297	10	9.663
38		min	-1.491	13	-10.296	14	.284	10	-.458	9	.56
39		max B	8.544	14	1.087	13	3.773	14	1.414	10	8.092
40		min	-.333	5	-2.776	6	.095	10	-.514	3	.258
41	P709A	max T	3.245	16	.353	16	4.347	8	1.549	83	9.482
42		min	-1.415	8	-10.11	8	.332	4	-.777	4	.611
43		max B	8.389	8	1.044	7	3.705	9	1.362	15	7.938
44		min	-.271	16	-2.728	16	.138	4	-.512	14	.283
45	P781A	max T	3.302	11	.355	11	4.322	3	2.353	15	9.429
46		min	-1.409	3	-10.054	3	.253	9	-.417	14	.524
47		max B	8.339	3	1.045	18	3.672	3	1.732	9	7.889
48		min	-.271	11	-2.773	11	.131	15	-.516	8	.279
49	P536	max T	3.458	6	.477	5	3.921	14	2.345	10	9.289
50		min	-2.425	13	-10.259	14	.75	1	-.55	9	1.343
51		max B	7.663	14	2.255	13	2.714	14	1.292	4	6.826
52		min	-.46	5	-2.782	6	.458	10	-.313	16	.795
53	P632	max T	3.395	16	.431	16	3.844	8	1.832	98	9.114
54		min	-2.379	8	-10.068	8	.786	14	-.772	4	1.379
55		max B	7.517	8	2.202	8	2.658	8	1.287	15	6.693
56		min	-.422	16	-2.731	16	.382	5	-.312	11	.847
57	P441	max T	3.456	11	.441	11	3.824	3	1.608	62	9.066
58		min	-2.366	3	-10.014	3	.295	9	-.777	15	.567
59		max B	7.479	3	2.192	3	2.643	3	1.286	10	6.659
60		min	-.431	11	-2.777	11	.28	9	-.311	5	.542
61	P802A	max T	7.158	11	-.139	7	5.021	11	1.335	7	8.956
62		min	-.08	18	-2.99	12	.226	18	-.69	17	.426
63		max B	3.254	11	-.309	7	4.907	11	.876	15	8.659
64		min	.093	17	-6.561	11	.403	17	-.624	1	.764
65	P801B	max T	7.076	17	-.115	13	5.01	17	1.362	7	8.92
66		min	-.087	7	-2.943	17	.197	7	-.771	13	.443
67		max B	3.183	16	-.293	12	4.8	16	.878	4	8.469
68		min	.636	72	-6.459	17	.562	12	-.615	9	1.01
69	P729A	max T	7.074	6	-.224	18	4.965	6	1.475	12	8.854
70		min	-.086	12	-2.985	7	.173	12	-.657	28	.396
71		max B	3.216	6	-.291	18	4.853	6	.877	9	8.564
72		min	.737	11	-6.49	6	.568	18	-.607	14	1.022
73	P521	max T	3.767	3	.358	6	3.807	11	1.801	11	8.73

APPENDIX D
ADDITIONAL CALCULATIONS

Location:	A	Select
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TIA Revision:	TIA-222-H	Select
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Normalizing to 100% per TIA-222-H Section 15.5

SITE DATA		
BU Number:	876352	
Site Name:	Richard Wall	
Order Number:	527517	

REACTIONS		
Moment:	2.040	kip-ft
Axial:	2.509	kips
Shear:	1.546	kips

BOLT DATA		
Quantity:	4	
Diameter:	0.625	in
Material:	A325	Select
Fy:	92	ksi
Fu:	120	ksi
Bolt Spacing:	6	in

Load Combination	30
BOLT RESULTS	
Max Bolt (Cu+ Vu/η):	3.51
Axial Design Strength:	21.70
Stress Ratio:	15.42%

PLATE DATA		
Width:	8	in
Thickness:	0.75	in
Fy:	36	ksi

PLATE RESULTS		
Base Plate Stress:	7.66	ksi
Bending Strength:	32.40	ksi
Stress Ratio:	22.51%	

SUPPORT ARM DATA		
Type:	HSST	Select
Diameter/Width:	4	in
Thickness:	0.25	in
Fy:	35	ksi
Number of Sides:	4	

Controlling Load Combination 30

Exhibit F

Power Density/RF Emissions Report



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

AT&T Existing Facility

Site ID: 876352

CTL01053
94 East High Street
East Hampton, Connecticut 06424

December 8, 2020

EBI Project Number: 6220006187

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	32.45%



December 8, 2020

Emissions Analysis for Site: 876352 - CTL01053

EBI Consulting was directed to analyze the proposed AT&T facility located at **94 East High Street in East Hampton, Connecticut** for the purpose of determining whether the emissions from the Proposed AT&T 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 AT&T Wireless antenna facility located at 94 East High Street in East Hampton, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T 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) 4 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 2) 4 LTE FN channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 3) 2 UMTS channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 4) 4 LTE/5G channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 6) 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.
- 7) 4 LTE channels (WCS Band – 2300 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 25 Watts per Channel.



- 8) 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.
- 9) 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.
- 10) The antennas used in this modeling are the Powerwave 7770 for the 850 MHz channel(s), the CCI HPA65R-BU6A for the 2300 MHz channel(s), the CCI OPA65R-BU6BA for the 700 MHz / 2100 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 1900 MHz channel(s) in Sector A, the Powerwave 7770 for the 850 MHz channel(s), the CCI HPA65R-BU6A for the 2300 MHz channel(s), the CCI OPA65R-BU6BA for the 700 MHz / 2100 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 1900 MHz channel(s) in Sector B, the Powerwave 7770 for the 850 MHz channel(s), the CCI HPA65R-BU6A for the 2300 MHz channel(s), the CCI OPA65R-BU6BA for the 700 MHz / 2100 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 1900 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.
- 11) The antenna mounting height centerline of the proposed antennas is 93 feet above ground level (AGL).
- 12) 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.
- 13) All calculations were done with respect to uncontrolled / general population threshold limits.



AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770
Frequency Bands:	850 MHz	Frequency Bands:	850 MHz	Frequency Bands:	850 MHz
Gain:	11.5 dBd	Gain:	11.5 dBd	Gain:	11.5 dBd
Height (AGL):	93 feet	Height (AGL):	93 feet	Height (AGL):	93 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	80 Watts	Total TX Power (W):	80 Watts	Total TX Power (W):	80 Watts
ERP (W):	1,130.03	ERP (W):	1,130.03	ERP (W):	1,130.03
Antenna A1 MPE %:	0.83%	Antenna B1 MPE %:	0.83%	Antenna C1 MPE %:	0.83%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	CCI HPA65R-BU6A	Make / Model:	CCI HPA65R-BU6A	Make / Model:	CCI HPA65R-BU6A
Frequency Bands:	2300 MHz	Frequency Bands:	2300 MHz	Frequency Bands:	2300 MHz
Gain:	16.35 dBd	Gain:	16.35 dBd	Gain:	16.35 dBd
Height (AGL):	93 feet	Height (AGL):	93 feet	Height (AGL):	93 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	100 Watts	Total TX Power (W):	100 Watts	Total TX Power (W):	100 Watts
ERP (W):	4,315.19	ERP (W):	4,315.19	ERP (W):	4,315.19
Antenna A2 MPE %:	1.79%	Antenna B2 MPE %:	1.79%	Antenna C2 MPE %:	1.79%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	CCI OPA65R-BU6BA	Make / Model:	CCI OPA65R-BU6BA	Make / Model:	CCI OPA65R-BU6BA
Frequency Bands:	700 MHz / 2100 MHz	Frequency Bands:	700 MHz / 2100 MHz	Frequency Bands:	700 MHz / 2100 MHz
Gain:	12.15 dBd / 16.25 dBd	Gain:	12.15 dBd / 16.25 dBd	Gain:	12.15 dBd / 16.25 dBd
Height (AGL):	93 feet	Height (AGL):	93 feet	Height (AGL):	93 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	9,372.09	ERP (W):	9,372.09	ERP (W):	9,372.09
Antenna A3 MPE %:	5.14%	Antenna B3 MPE %:	5.14%	Antenna C3 MPE %:	5.14%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA
Frequency Bands:	700 MHz / 850 MHz / 1900 MHz	Frequency Bands:	700 MHz / 850 MHz / 1900 MHz	Frequency Bands:	700 MHz / 850 MHz / 1900 MHz
Gain:	11.85 dBd / 12.45 dBd / 15.55 dBd	Gain:	11.85 dBd / 12.45 dBd / 15.55 dBd	Gain:	11.85 dBd / 12.45 dBd / 15.55 dBd
Height (AGL):	93 feet	Height (AGL):	93 feet	Height (AGL):	93 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	480 Watts	Total TX Power (W):	480 Watts	Total TX Power (W):	480 Watts
ERP (W):	11,005.17	ERP (W):	11,005.17	ERP (W):	11,005.17
Antenna A4 MPE %:	6.63%	Antenna B4 MPE %:	6.63%	Antenna C4 MPE %:	6.63%



Site Composite MPE %	
Carrier	MPE %
AT&T (Max at Sector A):	14.39%
Town	1.47%
Sprint	0.97%
T-Mobile	10.08%
Verizon	4.88%
Nextel	0.66%
Site Total MPE % :	32.45%

AT&T MPE % Per Sector	
AT&T Sector A Total:	14.39%
AT&T Sector B Total:	14.39%
AT&T Sector C Total:	14.39%
Site Total MPE % :	32.45%

AT&T Maximum MPE Power Values (Sector A)							
AT&T 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
AT&T 850 MHz UMTS	2	565.02	93.0	4.70	850 MHz UMTS	567	0.83%
AT&T 2300 MHz LTE	4	1078.80	93.0	17.94	2300 MHz LTE	1000	1.79%
AT&T 700 MHz LTE FN	4	656.24	93.0	10.91	700 MHz LTE FN	467	2.34%
AT&T 2100 MHz LTE	4	1686.79	93.0	28.05	2100 MHz LTE	1000	2.80%
AT&T 700 MHz LTE	4	612.43	93.0	10.18	700 MHz LTE	467	2.18%
AT&T 850 MHz LTE/5G	4	703.17	93.0	11.69	850 MHz LTE/5G	567	2.06%
AT&T 1900 MHz LTE	4	1435.69	93.0	23.87	1900 MHz LTE	1000	2.39%
						Total:	14.39%

• 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 AT&T 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:

AT&T Sector	Power Density Value (%)
Sector A:	14.39%
Sector B:	14.39%
Sector C:	14.39%
AT&T Maximum MPE % (Sector A):	14.39%
Site Total:	32.45%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **32.45%** 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.