Robinson+Cole

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

November 20, 2019

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

Re: **Notice of Exempt Modification – Facility Modification**
Butternut Hollow Road, Greenwich, Connecticut

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains twelve (12) antennas at the 130-foot level on the existing 180-foot tower off Butternut Hollow Road in Greenwich, Connecticut (the "Property"). The tower is owned by the State of Connecticut, Department of Emergency Services and Public Protection ("DESPP"). The Siting Council approved Cellco's use of the DESPP tower in 1992 (Docket No. 150). A copy of the Council's Docket No. 150 approval is included in Attachment 1.

Cellco now intends to modify its facility by replacing six (6) of its existing antennas with six (6) new antennas and installing six (6) remote radio heads ("RRHs"), and one (1) HYBRIFLEX™ fiber optic antenna cable. A set of project plans showing the proposed facility modifications and equipment specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Greenwich's First Selectman, Peter Tesei; Katie DeLuca, Greenwich's Director of Planning and Zoning; DESPP, the tower owner; and Aquarion Water Company ("Aquarion"), the owner of the Property.[1]

[1] It remains unclear whether the building associated with the State Police tower is located in the Route 15 ROW or on property owned by Aquarion. In an excess of caution, we are sending a copy of this notice to both the Connecticut Department of Transportation and Aquarion.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas and RRHs will be installed at a centerline height of 130 feet on the 180-foot tower.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of six (6) new antennas and six (6) RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The tower and its foundation, with certain modifications, and antenna mounting brackets can support Cellco's proposed equipment modifications. (*See* Detailed Structural Analysis Report, including Tower Reinforcement Drawings, included in Attachment 4).

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Peter Tesei, Greenwich First Selectman
Katie DeLuca, Greenwich Director of Planning and Zoning
Brian Benito, DESPP
Aquarion Water Company
State of Connecticut Department of Transportation
Tim Parks

ATTACHMENT 1

ORIGINAL

DOCKET NO. 150 - An application of the State of Connecticut, Department of Public Safety, Division of State Police for a Certificate of Environmental Compatibility and Public Need for the construction, operation, and maintenance of a telecommunications facility located on Butternut Hollow Road, in the Town of Greenwich, Connecticut.

Connecticut

Siting

Council

August 4, 1992

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications tower, building, and associated equipment at the proposed site in Greenwich, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forest and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by 16-50k of the General Statutes of Connecticut (CGS), be issued to the Connecticut Department of Public Safety, Division of State Police, for the construction, operation, and maintenance of a telecommunications tower, building, and associated equipment at the proposed site on Butternut Hollow Road, in Greenwich, Connecticut.

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

1. The self-supporting, lattice tower shall be designed no taller than necessary to provide the proposed communications, and in no event shall the tower exceed the proposed tower height of 200 feet above ground level, with antennas and all appurtenances, to maintain a clear microwave path from the Butternut Hollow Road site to the Greenwich Hospital rooftop facility.

2. Prior to construction, a Phase 1 archaeological survey of the facility site shall be conducted by a professional archaeologist with results submitted to the Council. All artifacts shall be made available for inspection by the Connecticut Historic Preservation Office and, if necessary, a Phase II archaeological survey shall be prepared and submitted to the Council.

3. New connecting utility lines to the facility shall be undergrounded along Butternut Hollow Road.

4. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of State agencies. The D&M Plan shall be submitted and approved by the Council prior to the commencement of construction and shall also include:

   A. Final comprehensive site plans detailing the tower location, tower foundation specifications and profiles, tower height and antenna placements, equipment building specifications and profiles, placement of the propane tank, all grading and cut and fill details showing existing and final contour lines and elevations, the security fence, and landscaping and placement of vegetative screening.

   B. Detailed plans, including grading, for the final route of the site's access road, designed to minimize tree clearing and excessive cutting of earth.

   C. Detailed plans for the underground utility line from the nearest existing utility pole on Butternut Hollow Road to the tower site. Such plans are to be developed with review by the Connecticut Light and Power Company and the Town of Greenwich.

   D. Plans for erosion and sedimentation control consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, including measures for the protection of wetlands, watercourses, and Putnam Lake.

   E. Plans for the final disposal of excess excavated material from trenching activities.

   F. Plans and procedures for blasting, including explosion protection, and notification to adjacent property owners.

   G. Final construction schedule.

5. Selective vegetative clearing shall be allowed prior to approval of the D&M plan to permit reconnaissance necessary to prepare the D&M Plan and the Phase I archaeological survey.

6. The Certificate Holder shall comply with existing and future radio frequency (RF) standards promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted herein shall be brought into compliance with such standards.

7. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.

8. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

9. The Certificate Holder shall notify the Council of the commencement of construction no less than seven days prior to construction and shall provide a report to the Council upon completion of construction, including the final construction costs and date of commercial operation.

10. If the facility does not initially provide, or permanently ceases to provide telecommunications service following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.

Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within five years of the effective date of this Decision and Order or within five years after all appeals to this Decision and Order have been resolved.

Pursuant to CGS Section 16-50p, we hereby directed that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Greenwich Time and The Greenwich News.

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

The parties to this proceeding are:

PARTIES	ITS REPRESENTATIVES
Connecticut State Police	L. D. McCallum and Stephen R. Sarnoski Office of the Attorney General Mackenzie Hall 110 Sherman Street Hartford, CT 06105 (203) 566-7570

Town of Greenwich	Attorney John K. Wetmore Assistant Town Attorney Town of Greenwich 101 Field Point Road Greenwich, CT 06830
Metro Mobile CTS, Inc.	Henry H. Sprague III Robinson and Cole One Commercial Plaza Hartford, CT 06103-3597 (203) 275-8200
INTERVENOR	ITS REPRESENTATIVES
Springwich Cellular Limited Partnership	Peter J. Tyrrell, Esq. Springwich Cellular Limited Partnership 227 Church Street New Haven, CT 06510 (203) 771-7381

TEF/bd

6264E

CERTIFICATION

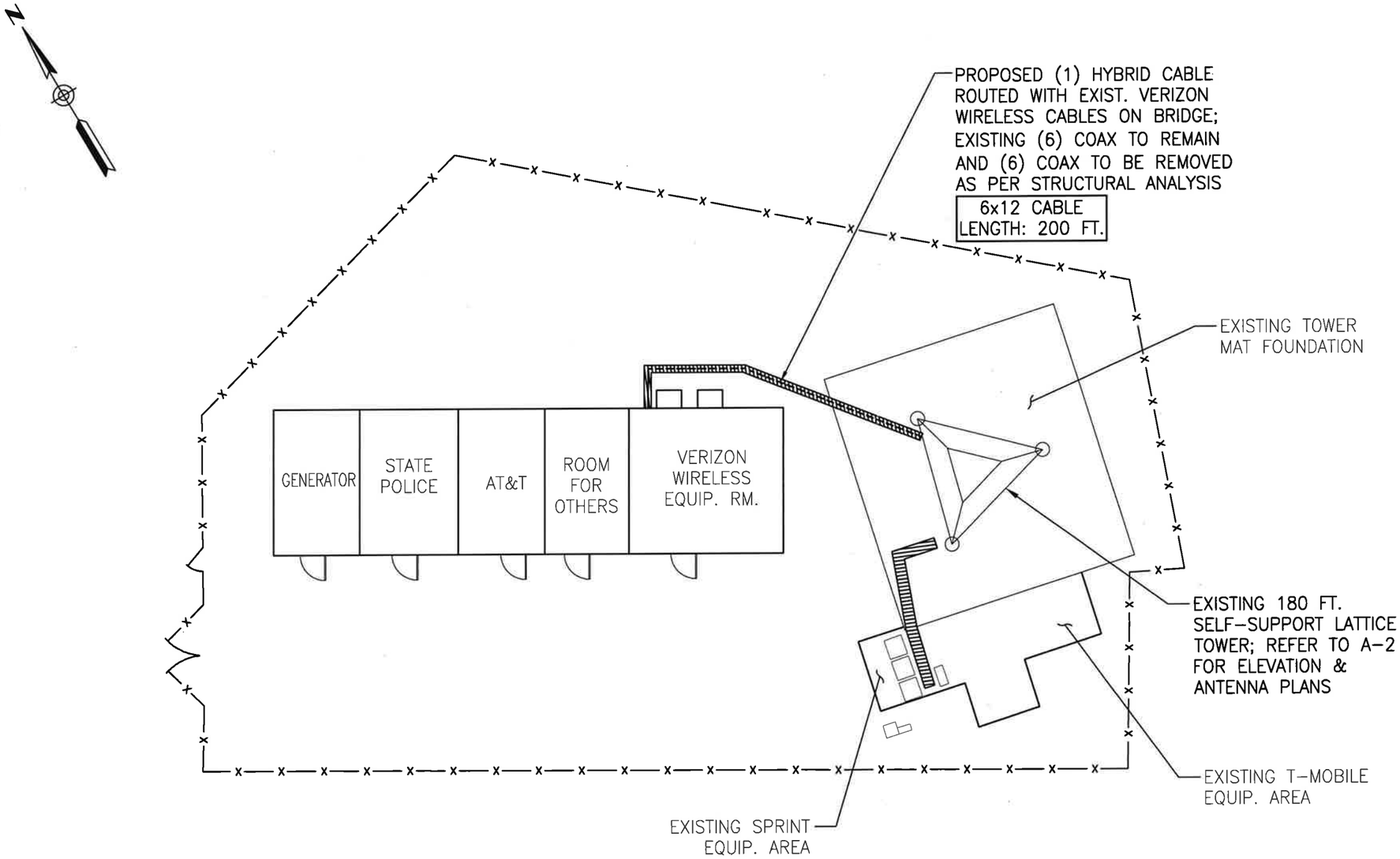
The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in DOCKET NO. 150 - An application of the State of Connecticut, Department of Public Safety, Division of State Police for a Certificate of Environmental Compatibility and Public Need for the construction, operation, and maintenance of a telecommunications facility located on Butternut Hollow Road, in the Town of Greenwich, Connecticut, and voted as follows to approve the site:

Council Members	Vote Cast
Mortimer A. Gelston Chairman	YES
Commissioner Clifton A. Leonhardt Designee: Gerald J. Heffernan	ABSTAIN
Commissioner Timothy R.E. Keeney Designee: Brian Emerick	YES
Harry E. Covey	YES
Daniel P. Lynch, Jr.	YES
Gloria Dibble Pond	ABSENT
Paulann H. Sheets	YES
William H. Smith	ABSENT
Colin C. Tait	ABSTAIN

Dated at New Britain, Connecticut, August 4, 1992.

6302E-2

ATTACHMENT 2



NOTES:
1. COMPOUND PLAN IS BASED EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 9-23-19 FOR THE PURPOSE OF DETERMINING CABLE LENGTHS. A COMPOUND SURVEY WAS NOT PERFORMED.
2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.
3. REFER TO STRUCTURAL ANALYSIS BY OTHERS.

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

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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

LICENSURE

STATE OF CONNECTICUT
DAVID A. WEINPAHL
NO. 22144
LICENSED PROFESSIONAL ENGINEER

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

SUBMITTALS

NO	DATE	DESCRIPTION
0	10.30.19	REVIEW

DRAWN BY:	MF
CHECKED BY:	DW

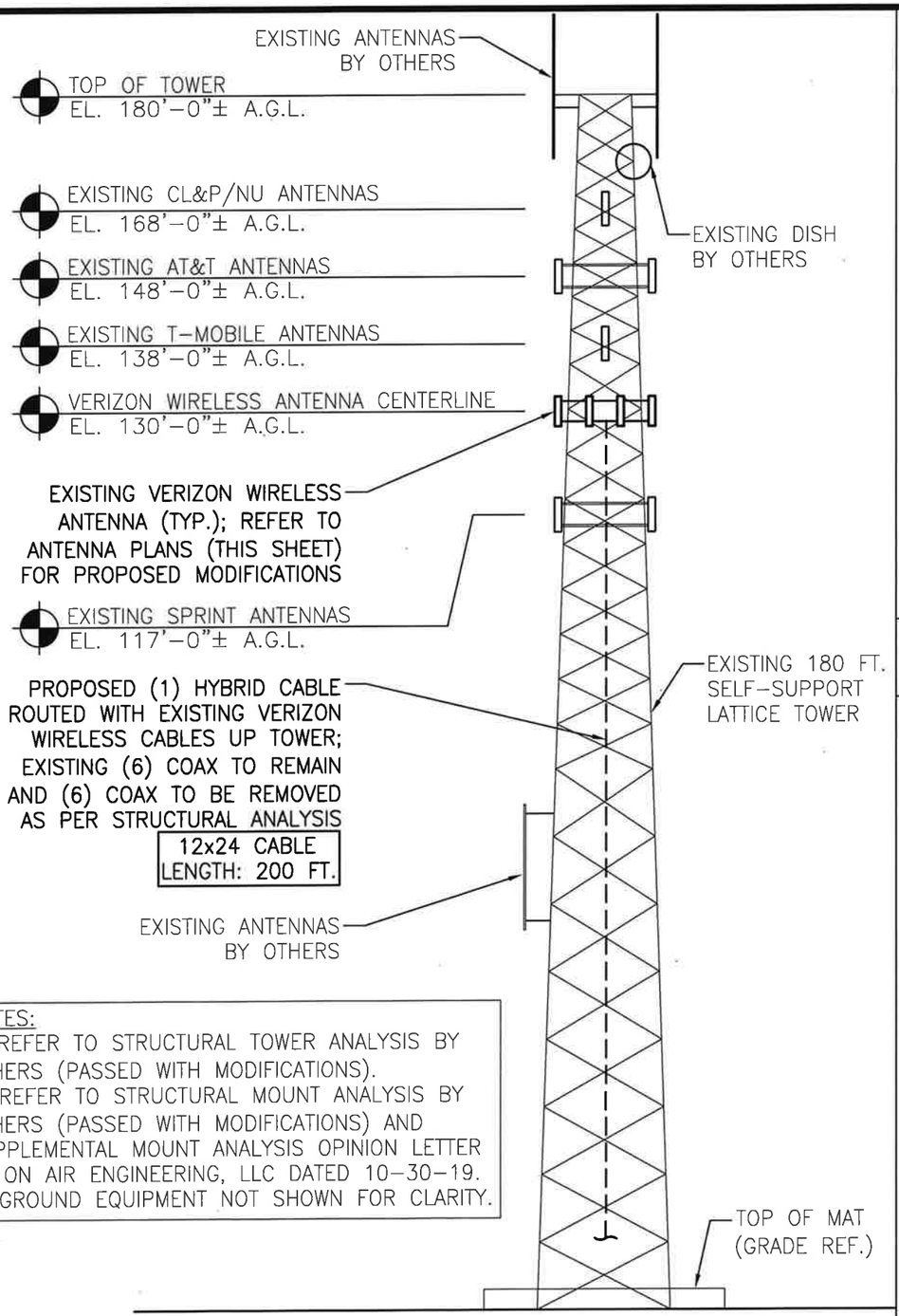
PROJECT NAME:
ANTMO
AWS-PCS-850-LTE
DESIGN EXHIBITS

SITE NAME:
BUTTERNUT CT

SITE ADDRESS:
CT STATE POLICE TOWER
BUTTERNUT HOLLOW RD.
GREENWICH, CT 06830

SHEET TITLE:
COMPOUND PLAN

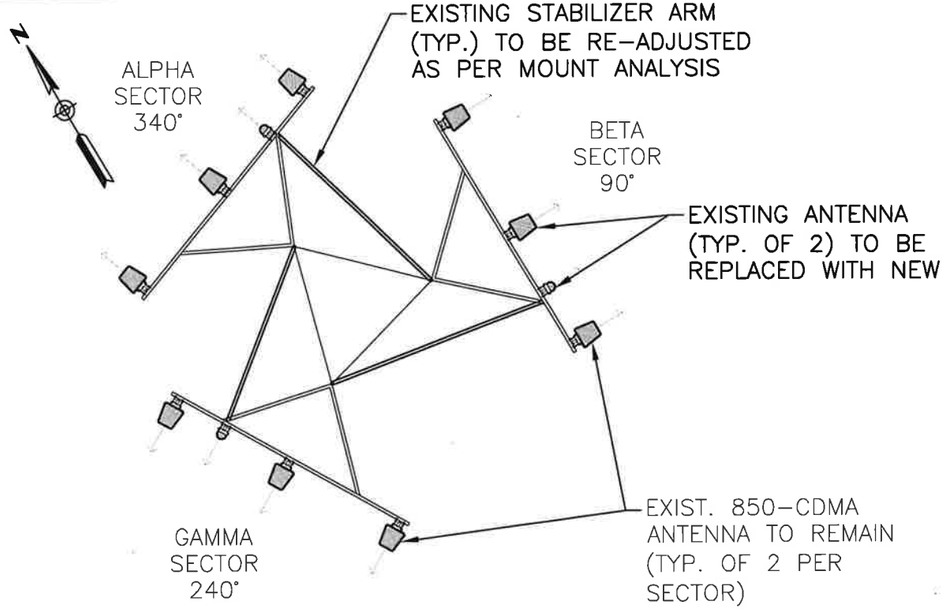
SHEET NUMBER:
A-1



NOTES:
1. REFER TO STRUCTURAL TOWER ANALYSIS BY OTHERS (PASSED WITH MODIFICATIONS).
2. REFER TO STRUCTURAL MOUNT ANALYSIS BY OTHERS (PASSED WITH MODIFICATIONS) AND SUPPLEMENTAL MOUNT ANALYSIS OPINION LETTER BY ON AIR ENGINEERING, LLC DATED 10-30-19.
3. GROUND EQUIPMENT NOT SHOWN FOR CLARITY.

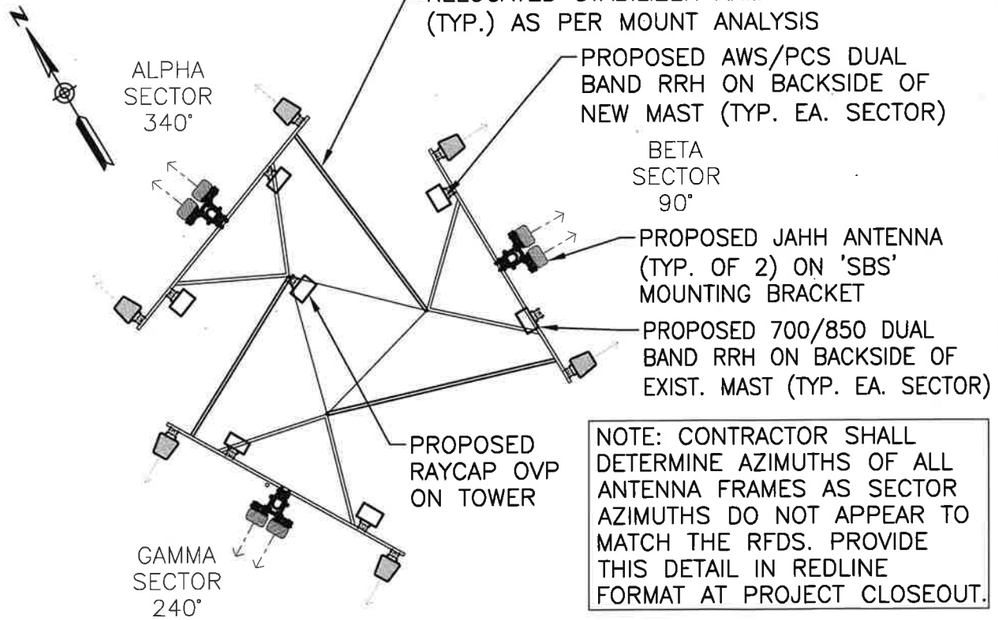
1 ELEVATION

Scale: NTS



2 ANTENNA PLAN @ 130 FT. - EXISTING

SCALE: 1/8" = 1'-0"



NOTE: CONTRACTOR SHALL DETERMINE AZIMUTHS OF ALL ANTENNA FRAMES AS SECTOR AZIMUTHS DO NOT APPEAR TO MATCH THE RFDS. PROVIDE THIS DETAIL IN REDLINE FORMAT AT PROJECT CLOSEOUT.

3 ANTENNA PLAN @ 130 FT. - PROPOSED

SCALE: 1/8" = 1'-0"

verizon

WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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

LICENSURE

STATE OF CONNECTICUT — DAVID A. WEINPAHL — NO. 22144 — LICENSED PROFESSIONAL ENGINEER

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

SUBMITTALS

NO	DATE	DESCRIPTION
0	10.30.19	REVIEW

DRAWN BY:	MF
CHECKED BY:	DW

PROJECT NAME:
ANTMO
AWS-PCS-850-LTE
DESIGN EXHIBITS

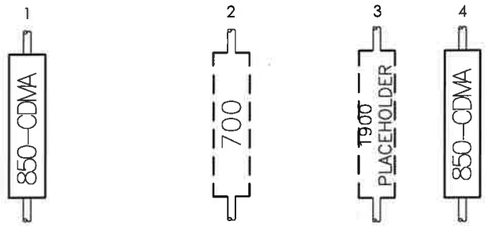
SITE NAME:
BUTTERNUT CT

SITE ADDRESS:
CT STATE POLICE TOWER
BUTTERNUT HOLLOW RD.
GREENWICH, CT 06830

SHEET TITLE:
ELEVATION &
ANTENNA PLANS

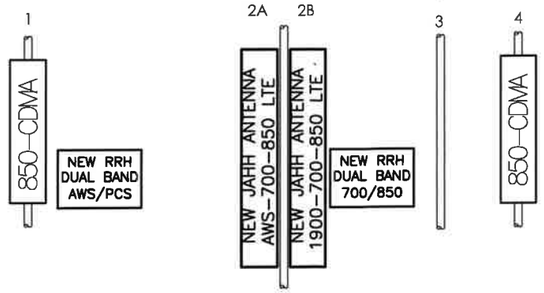
SHEET NUMBER:
A-2

EXISTING - ALPHA



(VIEWED FROM REAR)

PROPOSED - ALPHA



(VIEWED FROM REAR)

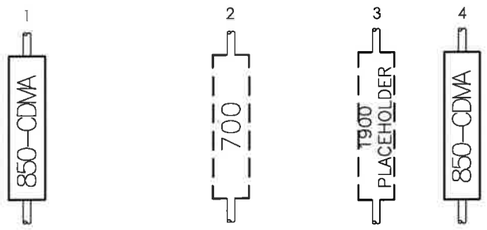
SECTOR: ALPHA				
POSITION	EXISTING ANTENNA	PROPOSED		
		ANTENNA	RRH	OVP
1	850-CDMA	EXISTING TO REMAIN	-	-
2	700	NEW JAHH SEE NOTE 1	AWS/PCS DUAL BAND; SEE NOTE 2	SEE NOTE 4
3	1900 PLACEHOLDER	NEW JAHH SEE NOTE 1	700/850 DUAL BAND; SEE NOTE 3	-
4	850-CDMA	EXISTING TO REMAIN	-	-

NOTES:
1. NEW JAHH ANTENNAS ON 'SBS' BRACKETS AT POS. 2 MAST; LEAVE POS. 3 MAST SPARE FOR RRH SUPPORT
2. NEW DUAL BAND RRH TO BE MOUNTED ON BACKSIDE OF NEW MAST; SEE 3/A-2
3. NEW DUAL BAND RRH TO BE MOUNTED ON BACKSIDE OF EXISTING POS. 3 MAST; SEE 3/A-2
4. NEW 12-CKT. RAYCAP OVP TO BE MOUNTED ON TOWER AND FEED ALL RRH's, ALL SECTORS; SEE 3/A-2

1 ANTENNA SECTOR CONFIGURATIONS - ALPHA

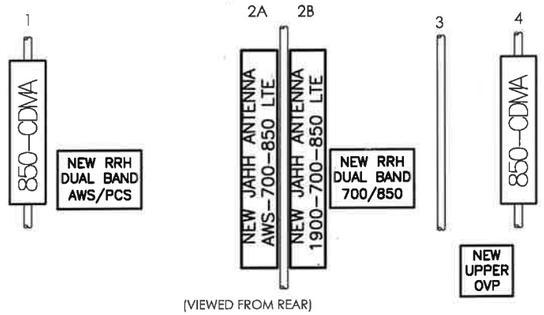
Scale: N.T.S.

EXISTING - BETA



(VIEWED FROM REAR)

PROPOSED - BETA



(VIEWED FROM REAR)

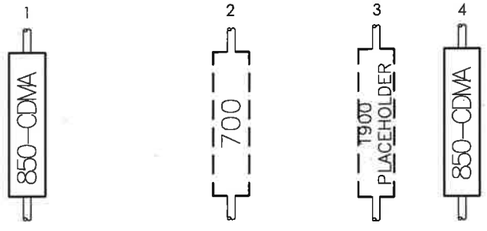
SECTOR: BETA				
POSITION	EXISTING ANTENNA	PROPOSED		
		ANTENNA	RRH	OVP
1	850-CDMA	EXISTING TO REMAIN	-	-
2	700	NEW JAHH SEE NOTE 1	AWS/PCS DUAL BAND; SEE NOTE 2	SEE NOTE 4
3	1900 PLACEHOLDER	NEW JAHH SEE NOTE 1	700/850 DUAL BAND; SEE NOTE 3	-
4	850-CDMA	EXISTING TO REMAIN	-	-

NOTES:
1. NEW JAHH ANTENNAS ON 'SBS' BRACKETS AT POS. 2 MAST; LEAVE POS. 3 MAST SPARE FOR RRH SUPPORT
2. NEW DUAL BAND RRH TO BE MOUNTED ON BACKSIDE OF NEW MAST; SEE 3/A-2
3. NEW DUAL BAND RRH TO BE MOUNTED ON BACKSIDE OF EXISTING POS. 3 MAST; SEE 3/A-2
4. NEW 12-CKT. RAYCAP OVP TO BE MOUNTED ON TOWER AND FEED ALL RRH's, ALL SECTORS; SEE 3/A-2

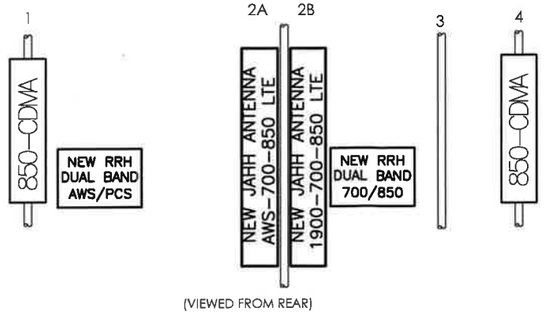
2 ANTENNA SECTOR CONFIGURATIONS - BETA

Scale: N.T.S.

EXISTING - GAMMA



PROPOSED - GAMMA



(VIEWED FROM REAR)

SECTOR: GAMMA				
POSITION	EXISTING ANTENNA	PROPOSED		
		ANTENNA	RRH	OVP
1	850-CDMA	EXISTING TO REMAIN	-	-
2	700	NEW JAHH SEE NOTE 1	AWS/PCS DUAL BAND; SEE NOTE 2	SEE NOTE 4
3	1900 PLACEHOLDER	NEW JAHH SEE NOTE 1	700/850 DUAL BAND; SEE NOTE 3	-
4	850-CDMA	EXISTING TO REMAIN	-	-

NOTES:
1. NEW JAHH ANTENNAS ON 'SBS' BRACKETS AT POS. 2 MAST; LEAVE POS. 3 MAST SPARE FOR RRH SUPPORT
2. NEW DUAL BAND RRH TO BE MOUNTED ON BACKSIDE OF NEW MAST; SEE 3/A-2
3. NEW DUAL BAND RRH TO BE MOUNTED ON BACKSIDE OF EXISTING POS. 3 MAST; SEE 3/A-2
4. NEW 12-CKT. RAYCAP OVP TO BE MOUNTED ON TOWER AND FEED ALL RRH's, ALL SECTORS; SEE 3/A-2

3 ANTENNA SECTOR CONFIGURATIONS - GAMMA

Scale: N.T.S.

verizon

WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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

LICENSURE

STATE OF CONNECTICUT
DAVID A. WEINPAHL
NO. 22144
LICENSED PROFESSIONAL ENGINEER

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

SUBMITTALS

NO	DATE	DESCRIPTION
0	10.30.19	REVIEW

DRAWN BY:	MF
CHECKED BY:	DW

PROJECT NAME:
ANTMO
AWS-PCS-850-LTE
DESIGN EXHIBITS

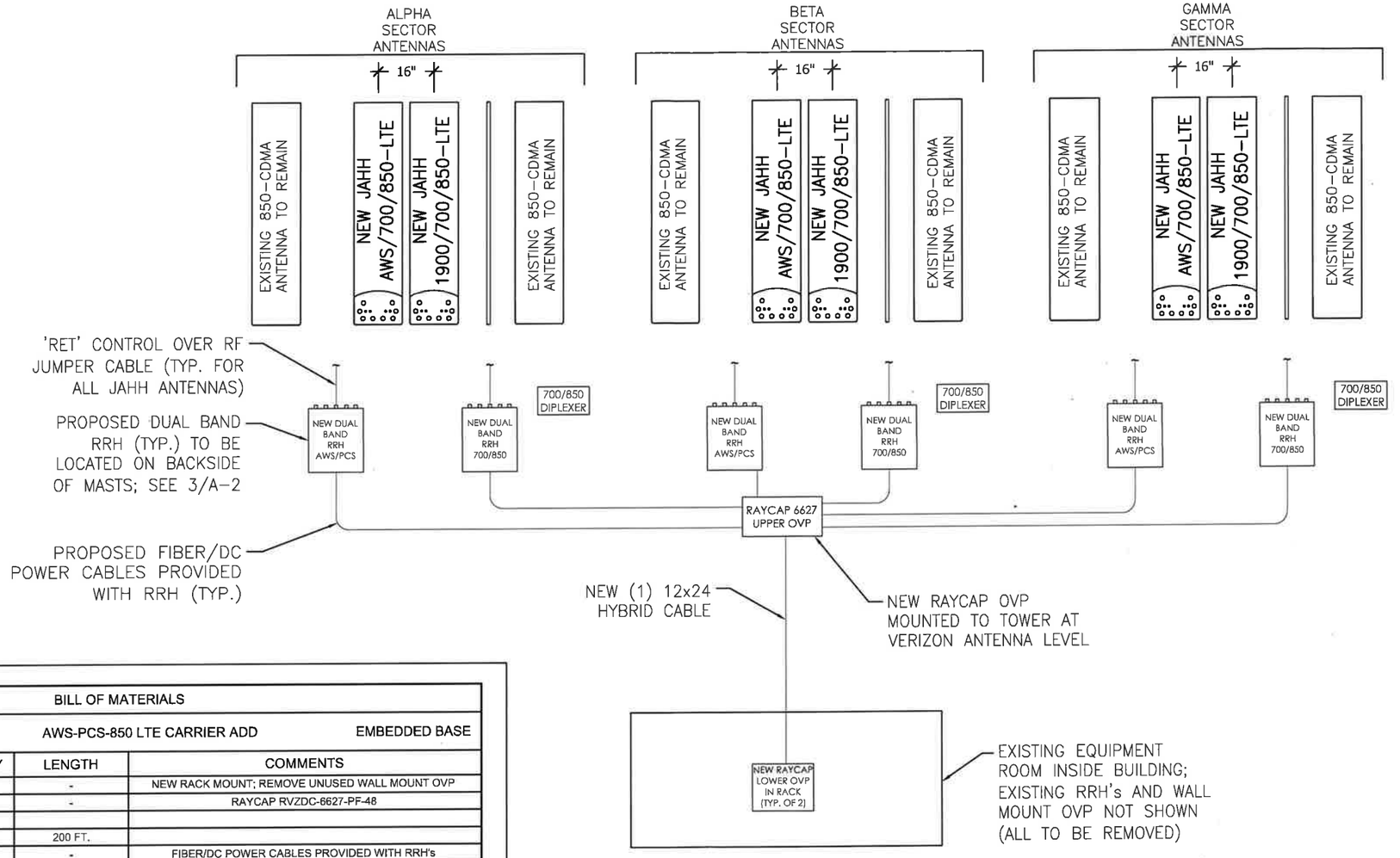
SITE NAME:
BUTTERNUT CT

SITE ADDRESS:
CT STATE POLICE TOWER
BUTTERNUT HOLLOW RD.
GREENWICH, CT 06830

SHEET TITLE:
ANTENNA SECTOR CONFIGURATIONS

SHEET NUMBER:
A-3

NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
SITE NAME: BUTTERNUT CT	AWS-PCS-850 LTE CARRIER ADD		EMBEDDED BASE
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	2	-	NEW RACK MOUNT; REMOVE UNUSED WALL MOUNT OVP
UPPER OVP	1	-	RAYCAP RVZDC-6627-PF-48
12x24 HYBRID CABLE	1	200 FT.	
1x1 HYBRID CABLE	-	-	FIBER/DC POWER CABLES PROVIDED WITH RRH's
RET CONTROL CABLE	-	-	NOT REQUIRED FOR JAHH ANTENNAS
1/2" JUMPERS	60	6 FT.	(20) PER SECTOR; SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS
700/850 DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS
DIPLEXER	3	-	REFER TO RFDS FOR SPECS
AWS ANTENNA	-	-	SHARED WITH NEW JAHH ANTENNA
700 ANTENNA	3	-	NEW JAHH TO REPLACE EXIST. 700
1900 ANTENNA	3	-	NEW JAHH TO REPLACE EXIST. 1900 PLACEHOLDER
850-CDMA ANTENNA	-	-	EXISTING TO REMAIN - 2 PER SECTOR
850-LTE ANTENNA	-	-	SHARED WITH NEW JAHH ANTENNA
SIDE-BY-SIDE MTG. BRACKET	3	-	COMMSCOPE BSAMNT-SBS-2-2

NOTES:
1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS. FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
2. EXIST. 700 JUMPERS TO BE REPLACED; LENGTH NOTED IS AVERAGE; FIELD FABRICATE ALL JUMPERS TO MIN. LENGTHS.

GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RF DATA SHEET WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CONTROL CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING COAXIAL CABLES EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS IN CERTAIN APPLICATIONS.
3. RET CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
4. RF JUMPER CABLES, COAX AND DIPLEXER WIRING NOT SHOWN.

1 BILL OF MATERIALS
Scale: N.T.S.

2 RF PLUMBING DIAGRAM
Scale: N.T.S.

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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

LICENSURE

STATE OF CONNECTICUT · DAVID A. WEINPAHL · NO. 22144 · LICENSED PROFESSIONAL ENGINEER

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

SUBMITTALS

0	10.30.19	REVIEW

NO	DATE	DESCRIPTION

DRAWN BY: MF
CHECKED BY: DW

PROJECT NAME:
ANTMO
AWS-PCS-850-LTE
DESIGN EXHIBITS

SITE NAME:
BUTTERNUT CT

SITE ADDRESS:
CT STATE POLICE TOWER
BUTTERNUT HOLLOW RD.
GREENWICH, CT 06830

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

SHEET NUMBER:
A-4

JAHH-65B-R3B

8-port sector antenna, 2x 698–787, 2x 824–894 and 4x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB (Port 1) and first HB(Port 5).

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band

Electrical Specifications

Frequency Band, MHz	**698–787**	**824–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2360**
Gain, dBi	14.5	15.8	18.0	18.4	18.5	18.8
Beamwidth, Horizontal, degrees	67	65	63	63	65	68
Beamwidth, Vertical, degrees	12.4	10.5	5.7	5.2	4.9	4.4
Beam Tilt, degrees	2–14	2–14	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	18	18	20	20	21	23
Front-to-Back Ratio at 180°, dB	32	34	31	35	36	38
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR | Return Loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	300	300	300	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

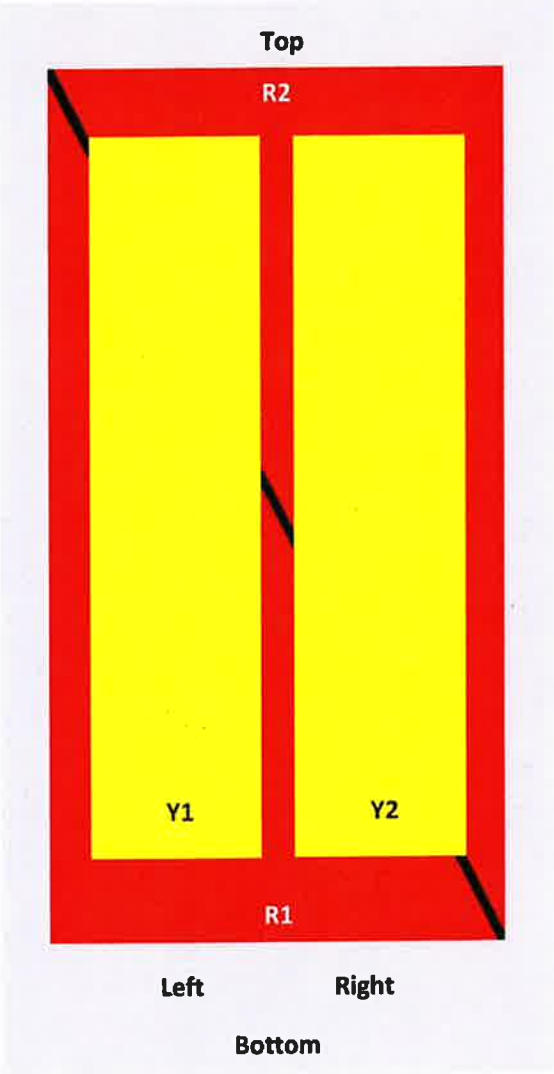
Electrical Specifications, BASTA*

Frequency Band, MHz	**698–787**	**824–894**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2360**
Gain by all Beam Tilts, average, dBi	14.3	14.9	17.6	18.1	18.2	18.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.4	±0.5	±0.6
Gain by Beam Tilt, average, dBi	2 ° | 14.3 8 ° | 14.3 14 ° | 14.3	2 ° | 15.0 8 ° | 14.9 14 ° | 15.4	0 ° | 17.2 5 ° | 17.6 10 ° | 17.6	0 ° | 17.6 5 ° | 18.2 10 ° | 18.2	0 ° | 17.7 5 ° | 18.3 10 ° | 18.3	0 ° | 17.9 5 ° | 18.7 10 ° | 18.7
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.4	±4	±2.4	±2.9	±2.7
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.5	±0.3	±0.2	±0.3	±0.1
USLS, beampeak to 20° above beampeak, dB	18	17	17	18	19	18
Front-to-Back Total Power at 180° ± 30°, dB	25	24	26	29	27	29
CPR at Boresight, dB	22	23	20	21	21	24
CPR at Sector, dB	11	12	11	11	11	8

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

Array Layout

JAHH-65A-R3B JAHH-65B-R3B JAHH-65C-R3B



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-798	1-2	1	ANxxxxxxxxxxxxxxxx1
R2	824-894	3-4	2	ANxxxxxxxxxxxxxxxx2
Y1	1695-2360	5-6	3	ANxxxxxxxxxxxxxxxx3
Y2	1695-2360	7-8		

View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

General Specifications

Operating Frequency Band 1695 – 2360 MHz | 698 – 787 MHz | 824 – 894 MHz

JAHH-65B-R3B

Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage | Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN

Mechanical Specifications

RF Connector Quantity, total	8
RF Connector Quantity, low band	4
RF Connector Quantity, high band	4
RF Connector Interface	4.3-10 Female
Color	Light gray
Grounding Type	RF connector body grounded to reflector and mounting bracket
Radiator Material	Aluminum | Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	301.0 N @ 150 km/h | 67.7 lbf @ 150 km/h
Wind Loading, lateral	254.0 N @ 150 km/h | 57.1 lbf @ 150 km/h
Wind Loading, maximum	143.4 lbf @ 150 km/h | 638.0 N @ 150 km/h
Effective Projected Area (EPA), frontal	0.28 m^2 | 3.01 ft^2
Effective Projected Area (EPA), lateral	0.24 m^2 | 2.58 ft^2
Wind Speed, maximum	241 km/h | 150 mph

Dimensions

Length	1828.0 mm | 72.0 in
Width	350.0 mm | 13.8 in
Depth	208.0 mm | 8.2 in
Net Weight, without mounting kit	29.2 kg | 64.4 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 5
Internal RET	High band (1) | Low band (2)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male

JAHH-65B-R3B

Packed Dimensions

Length	1975.0 mm | 77.8 in
Width	456.0 mm | 18.0 in
Depth	357.0 mm | 14.1 in
Shipping Weight	42.5 kg | 93.7 lb

Regulatory Compliance/Certifications

Agency	**Classification**
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)

Included Products

BSAMNT-3 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

SAMSUNG

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

RFV01U-D2A

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

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

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

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

Features and Benefits

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

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit
AWS/PCS (B66/B2)
RFV01U-D1A

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

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

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

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

Features and Benefits

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

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)
B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)
Instantaneous Bandwidth:
70MHz(B66) + 60MHz(B2)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 255mm (36.8L)
Weight: 38.3kg
Input Power: -48V DC
Operating Temp.: -40 ~ 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

	General	Power	Density					
Site Name: Butternut (Greenwich)								
Tower Height: 180Ft.								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*State Police	1	1000	180	866.0125	0.0119	0.5773	0.21%	
*Greenwich	1	1000	180	866.7875	0.0119	0.5779	0.21%	
*DOT	1	100	180	42.8	0.0012	0.2000	0.06%	
*Greenwich	1	432	177	18700	0.0053	1.0000	0.05%	
*NU	1	50	150	928	0.0009	0.6187	0.01%	
*NU	1	316	150	150	0.0055	0.2000	0.27%	
*NU	1	100	80	37.8	0.0066	0.2000	0.33%	
*NU	1	555	165	944	0.0079	0.6293	0.13%	
*NU	1	316	150	450	0.0055	0.3000	0.18%	
*NU	1	100	130	47.86	0.0023	0.2000	0.12%	
*State Police	1	56	176	6700	0.0007	1.0000	0.01%	
*T-Mobile	2	2334	137	2100	0.0978	1.0000	0.98%	
*T-Mobile	2	2334	137	1900	0.0978	1.0000	0.98%	
*T-Mobile	2	1167	137	2100	0.0489	1.0000	0.49%	
*T-Mobile	2	1167	137	1900	0.0489	1.0000	0.49%	
*T-Mobile	2	1167	137	1900	0.0489	1.0000	0.49%	
*T-Mobile	2	620	137	600	0.0260	0.4000	0.65%	
*T-Mobile	2	679	137	700	0.0285	0.4667	0.61%	
*Sprint	1	438	117	850	0.0128	0.5667	0.23%	
*Sprint	5	623	117	1900	0.0909	1.0000	0.91%	
*Sprint	2	1556	117	1900	0.0908	1.0000	0.91%	
*Sprint	8	640	117	2500	0.1494	1.0000	1.49%	
*Sprint	2	1081	117	850	0.0631	0.5667	1.11%	
*AT&T	2	424	148	850	0.0151	0.5667	0.27%	
*AT&T	2	656	148	1900	0.0234	1.0000	0.23%	
*AT&T	3	585	148	700	0.0313	0.4667	0.67%	
*AT&T	4	1222	148	1900	0.0872	1.0000	0.87%	
*AT&T	2	424	148	850	0.0151	0.5667	0.27%	
VZW PCS	**4**	**1525**	**130**	**0.1298**	**1970**	**1.0**	**12.98%**	
VZW Cellular	**3**	**498**	**130**	**0.0318**	**880**	**0.5793**	**5.49%**	
VZW Cellular	**4**	**355**	**130**	**0.0302**	**869**	**0.5866**	**5.15%**	
VZW AWS	**4**	**1493**	**130**	**0.1271**	**2145**	**1.0**	**12.71%**	
VZW 700	**4**	**628**	**130**	**0.0534**	**746**	**0.4973**	**10.75%**	
VZW CBRS	**0**	**31**	**130**	**0.0000**	**3550**	**2.36**	**0.00%**	
								60.29%
* Source: Siting Council								

ATTACHMENT 4

AECOM

Submitted to
Empire Telecom USA, LLC
16 Esquire Road
Billerica, MA 01862

Airosmith Development, Inc.
32 Clinton Street
Saratoga Springs, NY 12866

Northeast Site Solutions
199 Brickyard Road
Farmington, CT 06032

Verizon Wireless
20 Alexander Drive, 2nd Floor
Wallingford, CT

Submitted by
AECOM
500 Enterprise Drive,
Suite 3B
Rocky Hill, CT 06067
July 31, 2019

DETAILED STRUCTURAL ANALYSIS AND MODIFICATION OF AN EXISTING 180' SELF SUPPORTING LATTICE TOWER WITH STACK-N-BOLT SYSTEM AND FOUNDATION FOR PROPOSED ANTENNA ARRANGEMENT

AT&T Site No. : CT2129
Sprint Site No. : CT03XC343
T-Mobile Site No. : CT11070B
Verizon Site No. : Butternut, CT

Site Name : Connecticut State Police Tower #74
Site Address: 150 Butternut Hollow Road
CSP Tower # 74

60537397
Revision #4

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY
2. INTRODUCTION
3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS
4. FINDINGS AND EVALUATION
5. CONCLUSIONS
6. ANALYSIS DATA
   - TOWER REINFORCEMENT DRAWINGS SK-1 THROUGH SK-5
   - CALCULATIONS COVER PAGE
   - PLS-TOWER INPUT / OUTPUT SUMMARY
   - PLS-TOWER NODE LOCATIONS
   - PLS-TOWER MEMBER LOCATIONS
   - PLS-TOWER DETAILED OUTPUT
   - CONNECTION BETWEEN TOWERS EVALUATION
   - FOUNDATION EVALUATION

1. EXECUTIVE SUMMARY

This report summarizes the controlling load case structural analysis and evaluation of the 180' dual lattice tower, comprised of an exterior tower and an interior tower, located off of Butternut Hollow Road in Greenwich, Connecticut.

The structural analysis was conducted in accordance with the 2018 Connecticut State Building Code which includes the TIA-222-G[1] Standard, 2015 International Building Code, the 2018 Connecticut State Building Code Amendments, the AISC[2] Load Resistance Factor Design (LRFD), the ASCE 7[3] design Code, and the Connecticut State Police Requirements which include the TIA/EIA-222-F[4].

The antenna loading considered in the analysis consists of all the existing antennas, transmission lines and ancillary items as outlined in the Introduction Section of this report.

The proposed antenna modifications are listed below:

Proposed Antenna, Mounts & Cables	Carrier	Antenna Center Elevation
Remove: **(3) Windload Dishes**	**CSP (Existing)**	**@ 180'**
(3) Powerwave P65-16-XLH-RR Panel Antennas	**AT&T (Existing)**	**@ 148'**
(3) EMS RR90-17-02DP Panel Antennas **(3) GSM TMA Units**	**T-Mobile (Existing)**	**@ 136'**
(3) Swedcom SLCP 2x6014 Panel Antennas **(3) Amphenol BXA-171063-8BF Panel Antennas** **(3) Commscope HBXX6516DS-A2M Panel Antennas** **(6) Commscope HBXX6517DS-A2M Panel Antennas** **(9) 1-5/8" Coaxial Cables** **(1) (OVP Box) Distribution Box** **(1) Hybrid Cable**	**Verizon (Existing)**	**@ 126'**
Install: **(3) CCI OPA-65R-LCUU-H6 Panel Antennas** **(3) Ericsson RRUS-32 B2 RRH Units**	**AT&T (Proposed)**	**@ 148'**
(3) Ericsson AIR 21 B2A/B4P Panel Antennas **(3) Ericsson AIR 32 B66A/B2A Panel Antennas** **(3) APXVSAA24_43-U-A20 Panel Antennas** **(3) (AWS) TMA Units** **(3) Ericsson 4478 B71 RRH Units** **(3) Ericsson RRUS-11 RRH Units** **(3) Generic 600/700 Diplexer Units** **(3) Ericsson Hybriflex Cable 6x12 Fiber Optic Cables**	**T-Mobile (Proposed)**	**@ 136'**

Proposed Antenna, Mounts & Cables (Cont.)	Carrier	Antenna Center Elevation
(6) Commscope JAHH-65B-R3B-2DT Panel Antennas (3) BSAMNT-SBS-2-2 (JAHH Panel Antenna) Mounting Brackets (3) Samsung B2/B66a (RFV01U-D1A) RRH Units (3) Samsung B5/B13 (RFV01U-D2A) RRH Units (1) RFS DB-C1-12C-24AB-0Z Distribution Box (1) 1-5/8" O.D. Fiber Optic Cable (HB158-13U12S24-270-LI) (3) Commscope CBC78T-DS-43-2X Diplexer Units	**Verizon (Proposed)**	**@ 126'**
(3) Commscope DT465B-2XR Panel Antennas (3) 2x50W (800MHz) RRH Units (3) TD-RRH8x20-25 RRH Units w/ Solar Shield (1) Hybrid Cable (1-1/4" O.D. Cable used for Analysis (3) Stiff-Arm Mount Support Attachments (1 per Sector) (SitePro1 Part # STK-U)	**Sprint (Proposed)**	**@ 115'**

The results of an initial assessment analysis indicated the existing exterior and interior tower structures did not have enough capacity for the proposed loading conditions. The existing tower structures require modifications shown on SK-1 through SK-5. **Once the modifications indicated on sheets SK-1 through SK-5 are performed, the modified structures are considered structurally adequate with the wind load classification specified with the existing and proposed antenna loading. No installation of proposed antennas shall occur without the required modification being completed.**

The results of the analysis indicate the modified tower's sway (deflection) is 0.65 degrees and the modified tower's twist (rotation) is 0.07 degrees. These figures are within the Connecticut State Police requirements of 0.75 degrees for combined twist (rotation) and sway (deflection) when applying the TIA/EIA-222-F design conditions.

1. TIA = Telecommunications Industry Association Structural Standard for Antenna Supporting Structures and Antennas (Version G)
2. AISC = American Institute of Steel Construction (14th Edition)
3. ASCE 7 = American Society of Civil Engineers Standard 7 (2010 Edition)
4. TIA/EIA = Telecommunications Industry Association Structural Standard for Antenna Supporting Structures and Antennas (Version F)

1. **EXECUTIVE SUMMARY** *(continued)*

This analysis is based on:

1) The tower structure's theoretical capacity not including any assessment of the condition of the tower.
2) Member sizes and tower geometry of the outer tower taken from manufacturers' drawings prepared by Rohn Industries, Inc., file number 28325, dated December 28, 1992.
3) Member sizes and tower geometry of the inner tower taken from design calculations and drawings prepared by Towertek Industries Inc., signed and sealed May 9, 2002.
4) Foundation modifications taken from drawings prepared by Walker Engineering Incorporated, Job number 0206-237R2, signed and sealed November 26, 2002.
5) Tower Mapping and Existing Inventory performed by D&K Nationwide Communications, Inc. on March 31, 2016
6) Previous structural analysis performed by AECOM on behalf of the Connecticut State Police, project # 60509756.08 / PNS-608, signed and sealed on September 6, 2016.
7) Proposed antenna inventory Radio Frequency Data Sheet (RFDS) and contract drawings provided by AT&T, obtained via e-mail, dated May 5, 2017.
8) Proposed antenna inventory RFDS provided by T-Mobile, obtained via e-mail, dated, February 15, 2018, with a revision to proposed inventory obtained via e-mail dated March 26, 2018.
9) Proposed antenna inventory RFDS provided by Verizon Wireless, obtained via e-mail, dated March 18, 2019.
10) Proposed antenna inventory from site Construction Drawings, signed and sealed October 19, 2018, provided by Sprint, obtained via e-mail, dated July 31, 2019.
11) Antenna inventory as specified in section 2 and 6 of this report.

This report is only valid as per the information and data provided by others for antenna inventory, mounts, tower structure, existing foundation and associated cables. The user of this report shall field verify the antenna, cabling and mount configuration used, as well as the physical condition of the tower members, connections and foundations. Notify the engineer in writing immediately if any of the information in this report is found to be other than specified.

If you should have any questions, please call.

Sincerely,

AECOM,

Richard A. Sambor, P.E.
Senior Structural Engineer

RAS/mcd
Cc: IA, CF/Book – AECOM

2. INTRODUCTION

The subject tower is located off of Butternut Hollow Road in Greenwich, Connecticut. The original outer structure is a self-supporting three-legged 180' steel tapered lattice tower manufactured by Rohn Industries. A subsequent inner tower structure, a Stack-N-Bolt system, was installed inside the original tower and was designed by Towertek.

The structural analysis was conducted in accordance with the following:

- TIA-222-G Standard for Standard for a wind velocity of range of 90 mph to 110 mph (3-second gust) and 50 mph (3-second gust) concurrent with 0.75" ice thickness, considered to increase in thickness with height
- 2015 International Building Code with 2018 Connecticut State Building Code Amendments for a wind speed of 101 mph (3-second gust)
- 2010 AISC Load Resistance Factor Design (LRFD)
- 2010 ASCE 7 Minimum Design Loads for Buildings and Other Structures for the ice thickness referenced in the TIA-222-G Standard
- Connecticut State Police Requirements for a wind velocity of 90 mph (fastest mile) and 90 mph (fastest mile) concurrent with 0.5" ice. Twist (rotation) and sway (deflection) were determined in accordance with Connecticut State Police Requirements for a wind velocity of 90 mph (fastest mile) concurrent with 0.5" ice, analyzed under the TIA/EIA-222-F design Standard.

The existing structure supports numerous communication antennas. The inventory is summarized below:

Antenna Type	***Carrier***	***Mount***	***Centerline Elevation / Leg***	***Cable***
(1) Scala OGT9-806 (inverted) * (1) Sinclair SC479-HF1LDF (inverted) (1) TTA/Junction Box *	#27A,27B,27C CSP 2 * , 4 & 74 * (existing)	3' Stand-Off	175 / B	(2) 1-5/8" (1) 3/8" *
(1) (inverted) Dipole Antenna	#26-A NEU – 20 (existing)	*Shared with Above (Omni @ 175')*	175 / A	(1) 7/8"
(1) Sinclair SC479-HF1LDF (inverted) (1) Junction Box	#26-B CSP – 67 (existing)	*Shared with Above (Omni @ 175')*	175 / A	(1) 1-5/8" (1) 1/2"
(1) PD-420 20' Dipole Antenna	#28D NEU – 55 (existing)	3' Stand-Off	174 / C	(1) 7/8"
(1) DB-583 Omni Antenna	#28C TOG – 5 (existing)	*Shared with Above*	174 / C	(1) 1-5/8"
(1) Scala OGT9-806N * (1) Sinclair SC479-HF1LDF	#28A,28B CSP - 1 * & 3 (existing)	3' Stand-Off	174 / C	(2) 1-5/8"

Antenna Type	Carrier	Mount	Centerline Elevation / Leg	Cable
(1) SC3-W100AC 3' Dish Antenna	#25 Greenwich Police Dep. (existing)	Dish Mount	168 / B	(1) Elliptical Cable
(1) Kathrine 197-501 Panel Antenna (1) TMA	#23 Stamford 64 & 65 (existing)	3' Arm	168 / A	(1) 1-5/8" (1) 1/2"
DB-586-Y	#22 TOG - 6 (existing)	Leg Mounted	165 / A	(1) 7/8"
8' (solid) Dish with Radome	#21 SPD - 9 (existing)	Dish Mount	160 / A	(1) EW90
(3) Sinclair SC-479-HF1LDF (1 upright, 2 inverted) (1) TMA	CSP 70 to 73 (reserve)	3' Stand-Off	160	(3) 1-5/8" (1) 1/2"
(1) Kathrine 197-501 Panel Antenna	#20 Unknown (existing)	3' Arm	159.5 / A	(1) 7/8"
(1) Kathrine 197-501 Panel Antenna	#19 Stamford 63 (existing)	3' Arm	159 / B	(1) 7/8"
(3) OPA-65R-LCUU-H6 Panel Antennas (3) RRUS-32 B2 RRH Units	**AT&T (Proposed)**	*Shared with Below Mounts*	**147.5 / ABC**	*See Below Cables*
(6) Powerwave 7770 (12) TMAs (6) Ericsson RRU (1) Raycap Surge Suppressor	AT&T (existing)	(3) Side Arm Mounts	147.5 / ABC	(12) 1-5/8" (1) Fiber Optic Cable (2) DC Cables
(1) Celwave PD1142	#15 CSP – 21 (existing)	3' Arm	137 / B	(1) 7/8"
(3) AIR 21 B2A/B4P Panels (3) AIR32 B66A/B2A Panels (3) APXVSAA24_43-U-A20 Panel Antennas (3) (AWS) TMA Units (3) 4478 B71 RRH Units (3) RRUS-11 RRH Units (3) Generic Diplexer (600/700)	**T-Mobile (Proposed)**	Shared with Below Mounts	**136 / ABC**	**(3) 1-1/4" Hybriflex Cables (6x12)**
-----	T-Mobile (existing)	Face Mounted	136 / ABC	(6) 1-5/8"

Antenna Type	Carrier	Mount	Centerline Elevation / Leg	Cable
(1) 6' Dipole Antenna	#12 unknown (existing)	3' Arm	135 / C	(1) 7/8"
(1) Kreco CO41AN	#11 NEU – 18 (existing)	Mounted on Below Frame	130 / A	(1) 1-5/8"
(6) JAHH-65B-R3B-2DT Panels (3) Samsung B2/B66a (RFV01U-D1A) RRH Units (3) Samsung B5/B13 (RFV01U-D2A) RRH Units (1) RFS DB-C1-12C-24AB-0Z Distribution Box (3) Commscope CBC78T-DS-43-2X Diplexer Units	**Verizon (Proposed)**	**(3) Mount Brackets for JAHH Panels** *Shared with Below Mounts*	**126 / ABC**	**(1) 1-5/8" Fiber Optic Cables**
(6) Andrew DB844H80-XY Panels	Verizon (existing)	(3) Boom Gates (existing)	126 / ABC	(6) 1 5/8"
(1) Celwave PD1142	#9 DEP – 54 (existing)	3' Arm	122 / B	(1) 7/8"
(1) Celwave PD1142	#8 CSP – 66 (existing)	Share with (#9) 3' Arm	122 / B	(1) 7/8"
(3) DT465B-2XR Panels (3) 800 MHz RRH Units (3) TD-RRH 8x20-25 RRH Units	**Sprint (Proposed)**	**(3) STK-U Stiff Arm Support to Below Mount**	115 / ABC	**(1) Hybriflex Cable**
(3) APXVSPP18-C Panel Antennas (3) 800 MHz 2x50W RRH Units (3) 1900 MHz 4x45 RRH Units	Sprint (existing)	(3) 12' T-Arm Mount	115 / ABC	(3) Hybriflex Cables
(1) Celwave PD1142	#7 NEU – 17 (existing)	3' Stand-off	110 / A	(1) 7/8"
(1) Celwave PD1142	#5 NEU – 16 (existing)	6' Arm	82 / C	(1) 1-5/8"
(1) 10' Dipole	#4 DOT – 56 (existing)	3' Arm	65 / C	(1) 7/8"
(1) GPS	#3 Sprint - 69 (existing)	3' Arm	60 / C	(1) 7/8"

Antenna Type	Carrier	Mount	Centerline Elevation / Leg	Cable
(1) 4' Dipole Antenna	#1 Unknown (existing)	3' Arm	56 / A	(1) 7/8"
(1) GPS (TMG-26N)	#2 Verizon - 68 (existing)	3' Arm	54 / B	(1) 7/8"

Notes: Antenna elevations and ID numbering obtained from Tower Mapping and Existing Inventory via tower climb, performed by D&K Nationwide Communications, Inc. on March 31, 2016.

" * " indicated future decommissioning of CSP antennas

This structural analysis and evaluation of the communications tower was performed by AECOM on behalf of AT&T, Sprint, T-Mobile and Verizon Wireless (VZW). The purpose of this analysis was to investigate the structural integrity of the modified tower and existing foundation for existing and proposed antenna loads in compliance with the 2018 Connecticut State Building Code. This analysis was conducted to evaluate stress on the tower and the effect forces to the foundation of the tower resulting from existing and proposed antenna arrangements.

3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS

The structural analysis was done in accordance with, the TIA-222-G–Structural Standard for Antenna Towers and Antenna Supporting Structures and Antennas, the 2015 International Building Code with 2018 Connecticut State Building Code Amendments and the American Institute of Steel Construction (AISC) Manual of Steel Construction – Load Resistance Factor Design (LRFD)

The analysis was conducted using PLS-Tower (version 10.62) and used the following conditions for this tower review (following the TIA/EIA-222-G Standard):

- Structure Class 3 – (Essential Communications)
  - NOTE: ASCE 7 and CT State Building Code Applied Risk Category 4 for design wind loads (see below)
- Topographic Category 3 – (Tower location on top of hill – rolling wind conditions considered)
  - Crest Height used for analysis: (approximate elevations listed below)
    - Tower Base Elevation = 350 feet
    - High point (2 mile Radius) = 560 feet (Ref. Round Hill – West of Tower Site)
    - Low Point (2 mile Radius) = 212 feet (Ref. Near intersection of Grahampton Lane – South of Tower Site)
    - "H" = (Avg of High/Low) – Base Elevation = 36 feet
- Exposure Class C – (Open Terrain with scattered obstructions)
- Load Conditions:
  - Five load conditions were evaluated as shown which were compared to design stresses according to AISC and TIA-222-G Standard. The load conditions apply TIA-222-G load combinations from Section 2.3.2 (shown at the end of this section)

Basic Wind Speed:

- TIA-222-G:
  - Fairfield County (Wind Speed Range): V = 90 mph - 110 mph (3-second gust) [Annex of TIA/EIA-222-G 2006]
- IBC 2015 w/ 2018 CT State Building Code Amendment:
  - (2015) IBC Section 1609.1.1 – Determination of Wind Loads – Exception 5 "Designs using TIA-222" applies for determination of Design Wind Load obtained as "V.ult" are to be converted to "V.asd" when applying the TIA-222-G design Standard (under Section 1609.3) for Basic Wind Speed.
  - (2018) CT State Building Code Amendment to the IBC Section 1609.3 wind loads are obtained from Appendix N of the State Building Code.
    - **V.asd = 101 mph** (3-Second Gust) Wind Design Parameter for the Town of Greenwich, Connecticut for Risk Category four (IV) for essential communications (Connecticut State Police).

Ice thickness used for this analysis is **0.75 inch** (assumed to start at the base of the tower) and is considered to increase in thickness with height. The initial ice thickness for design is referenced in the Annex of TIA-222-G and follows the same design criteria as the ASCE 7 Standard.

The below load condition implements the design requirements of the Connecticut State Police for the tower structures deflection limits with the allowable deflection limit of the combination of the tower's sway (deflection) and twist (rotation) under the TIA-222-F design Standard. This design limit required the design combined value of sway (deflection) and twist (rotation) to be under 0.75 degrees following the TIA-222-F design Standard.

Load Condition (TIA-222-F) = 90 mph (fastest mile) Wind Load (with ice) + Ice Load + Tower Dead Load

3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS (cont.)

Seismic event consideration factors/values for design (and are applied into the PLS-Tower design outputs – see below load combination):

- S.s = 0.259 (2018 CT State Building Code – Location Specific Value)
- S.1 = 0.070 (2018 CT State Building Code – Location Specific Value)
- Seismic Design Category = "C" – (2015 International Building Code)
- F.a = 1.6 (Obtained from TIA-222-G Table 2-12 Considering above conditions)
- F.v = 2.4 (Obtained from TIA-222-G Table 2-13 Considering above conditions)

Strength Limit State Load Combinations (TIA-222-G Section 2.3.2):

The structural analysis herein has considered the following load combinations within the analysis:

1. ***1.2 Dead Load Tower structure + 1.0 Dead Load Guy Assemblies + 1.6 Wind load without ice***
2. 0.9 Dead Load Tower structure + 1.0 Dead Load Guy Assemblies + 1.6 Wind load without ice
3. 1.2 Dead Load Tower structure + 1.0 Dead Load Guy Assemblies + 1.0 Dead weight of ice due to factored ice thickness + 1.0 Concurrent wind load with factored ice thickness + 1.0 Load effects due to temperature
4. 1.2 Dead Load Tower structure + 1.0 Dead Load Guy Assemblies + 1.0 Earthquake Load
5. 0.9 Dead Load Tower structure + 1.0 Dead Load Guy Assemblies + 1.0 Earthquake Load

NOTE 1: The above **bolded** load combination is considered to create the governing design loads per the results of the analysis.

NOTE 2: The above "Dead Load Guy Assemblies" are not considered as part of the analysis and are considered as a value of zero.

NOTE 3: The "Load effects due to temperature" do not apply for structures that are self-sustaining (from the TIA-222-G Standard)

4. FINDINGS AND EVALUATION

The combined axial and bending stresses on the tower structure were evaluated to compare with the strength design in accordance with AISC (LRFD). The results of an initial analysis indicated that the existing exterior and interior tower structures did not have enough capacity to support the proposed loading conditions. The tower structure requires modifications shown on SK-1 through SK-5. **Once the modifications indicated on sheets SK-1 through SK-5 are performed, the modified structure and existing foundation are considered structurally adequate with the wind load specification and with the existing and proposed antenna loading included herein.**

The existing dual lattice tower's sway (deflection) is 0.65 degrees, and the existing tower's twist (rotation) is 0.07 degrees. The figures combined ARE within the Connecticut State Police requirement of 0.75 degrees for combined twist and sway.

See the below tables for tower capacity and tower deflection (sway) and rotation (twist) figures:

Tower Twist & Sway 90 mph concurrent with ice (TIA-222-F Condition):

Component	Allowable	Actual
Twist	0.75°	0.07°
Sway		0.65°

Proposed Tower Component Stress vs Capacity Summary (TIA-222-G Condition):

Component	Component Size	Controlling Member	Stress (% Capacity)	Pass/Fail
Rohn Diagonal	L3-1/2x3-1/2x1/4	Rohn-DF42	96.34	Pass
Rohn Leg	Rohn 6 EH (Extra Heavy)	Rohn-LG2P	91.06	Pass
Rohn Horizontal	L1-3/4x1-3/4x3/16	Rohn-H2P	16.10	Pass
Rohn Flange Bolts	(6) 1" Diameter A325 Bolts – Tension	Rohn-LH21	84.15	Pass
Interior Tower Diagonal	L6x6x3/8	SNB-DI42	95.44	Pass
Interior Tower Leg	Pipe 8 SCH 80 (Extra Strong)	SNB-LH2P	97.93	Pass
Interior Tower Horizontal	Pipe 4"x0.494" (Pipe 4 XXS)	SNB-H9cP	3.85	Pass
Interior Flange Bolts	(6) 1" Diameter A325 Bolts – Tension	SNB-LG21	96.67	Pass
Tower-to-Tower Connection	A325 Bolt	3/4" Bolt	67.7	Pass
Foundation	36.5' Square	Overturning Moment Resistance	93.8	Pass
Foundation	36.5' Square	Soil Bearing Resistance	72.3	Pass
Foundation	36.5' Square	Punching Shear Capacity	78.9	Pass
Foundation	36.5' Square	Foundation Flexure Capacity	91.4	Pass

Structure Rating (Maximum from all components) =	97.93 %	Pass

5. CONCLUSIONS

The results of an initial assessment analysis indicated the existing Exterior and Interior tower structures did not have enough capacity for the proposed loading conditions. The existing tower structures require modifications shown on SK-1 through SK-5. **Once the modifications indicated on sheets SK-1 through SK-5 are performed, the modified structures are considered structurally adequate with the wind load classification specified with the existing and proposed antenna loading. No installation of proposed antennas shall occur without the required modification being completed.**

The results of the analysis indicate the modified tower's sway (deflection) is 0.65 degrees and the modified tower's twist (rotation) is 0.07 degrees. These figures are within the Connecticut State Police requirements of 0.75 degrees for combined twist (rotation) and sway (deflection) when applying the TIA/EIA-222-F design conditions.

Limitations/Assumptions:

This report is based on the following:

A. Tower is properly installed and maintained.

B. All members and their geometry are as specified in the original manufacturer drawings and are in good condition.

C. All required members are in place.

D. All bolts are in place and are properly tightened.

E. Tower is in plumb condition.

F. All member protective coatings are in good condition.

G. All tower members were properly designed, detailed, fabricated, installed, and have been properly maintained since erection.

H. Foundations are in good condition without defect and were properly constructed to support original design loads as specified in the original design documents.

AECOM is not responsible for any modifications completed prior to or hereafter in which AECOM is not or was not directly involved. Modifications include but are not limited to:

A. Adding antennas
B. Removing/replacing antennas
C. Adding coaxial cables

AECOM hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact AECOM. AECOM disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

Ongoing and Periodic Inspection and Maintenance:

After the Contractor has successfully completed the installation and the work has been accepted, the owner will be responsible for the ongoing and periodic inspection and maintenance of the tower.

The owner shall refer to TIA-222-G Section 14.2 for recommendations for maintenance and inspection. The frequency of the inspection and maintenance intervals is to be determined by the owner based upon actual site and environmental conditions. It is recommended that a complete and thorough inspection of the entire tower structural system be performed at least yearly and more frequently as conditions warrant. It is also recommended that the structure be inspected after severe wind and/or ice storms or other extreme loading conditions.

6. ANALYSIS DATA

TOWER REINFORCEMENT DRAWINGS SK-1 THROUGH SK-5

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL COMPLY WITH THE CONNECTICUT STATE BUILDING AND LIFE SAFETY CODES, SUPPLEMENTS AND AMENDMENTS.
2. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND NOTES IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
3. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
4. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
5. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION AND ELECTRICAL SUB-CONTRACTORS SHALL PAY FOR THEIR PERMITS.
6. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS ON SITE AT ALL TIMES AND ENSURE THE DISTRIBUTION OF NEW DRAWINGS TO SUB-CONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. CONTRACTOR SHALL FURNISH 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
7. INSTALLATION OF THIS WIRELESS COMMUNICATIONS EQUIPMENT SITE REQUIRES WORK IN THE IMMEDIATE VICINITY OF EXISTING OPERATING TELECOMMUNICATION SYSTEMS. THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE METHODS OF PROTECTION WITH THE VARIOUS TELECOMMUNICATION CARRIERS AND THE TOWER OWNER. THERE SHALL BE NO INTERRUPTION OF OPERATION WITHOUT TIMELY COORDINATION WITH AND APPROVAL BY THE VARIOUS COMMUNICATIONS OPERATORS INCLUDING THE CONNECTICUT STATE POLICE.
8. THE REINFORCEMENT OF PORTIONS OF THIS TOWER STRUCTURE WILL AFFECT CRITICAL CONNECTICUT STATE POLICE ANTENNAS.
9. NO MOVEMENT, ALTERATION, OR DISCONNECTION OF CONNECTICUT STATE POLICE ANTENNAS MAY OCCUR WITHOUT THE NOTIFICATION AND APPROVAL OF THE CONNECTICUT STATE POLICE. CONTACT THE NETWORK CONTROL CENTER AT 860-865-8008.
10. TOWER REINFORCING WORK AFFECTING CRITICAL CONNECTICUT STATE POLICE ANTENNAS MAY BE REQUIRED TO BE CONDUCTED AT TIMES AS DETERMINED BY THE REQUIREMENTS OF THE CONNECTICUT STATE POLICE.
11. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTORS FOR ANY CONDITION PER MFR'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR ARCHITECT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
13. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ARCHITECT FOR REVIEW. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTAL TO THE ARCHITECT FOR REVIEW.
14. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA. SUBMIT ANY DISCREPANCIES FROM THE DRAWINGS TO THE ARCHITECT.
15. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURE AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
16. CONTRACTOR TO CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 TO VERIFY AND IDENTIFY THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS IDENTIFIED PRIOR TO COMMENCING WORK IN THE CONTRACT AREA.
17. CONTRACTOR SHALL COMPLY WITH OWNER ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
18. DIMENSIONS OF EXISTING TOWER ARE BASED ON MANUFACTURER'S DRAWINGS PREPARED BY ROHN INDUSTRIES, INC., DATED DECEMBER 1992, AND ARE NOT GUARANTEED. CONTRACTOR SHALL TAKE FIELD DIMENSIONS AS NECESSARY TO ASSURE PROPER FIT OF ALL FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENT ARE SUBMITTED FOR REVIEW, DIMENSIONS ARE PROVIDED FOR THE ENGINEER'S REFERENCE ONLY.
19. TOWER INVENTORY IS BASED ON INFORMATION OBTAINED BY CONNECTICUT STATE POLICE DATED APRIL 12, 2016. TOWER MAPPING AND EXISTING INVENTORY OBTAINED FROM D&K NATIONWIDE COMMUNICATIONS, INC. DATED MARCH 2, 2016.
20. CONTRACTOR TO VERIFY REQUIRED CLEARANCES INCLUDING BUT NOT LIMITED TO EXISTING BUILDINGS, EQUIPMENT PADS AND SHELTERS PRIOR TO COMMENCING WORK.
21. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. NO MEMBER OF THE TOWER SHALL BE LEFT DISCONNECTED FOR THE NEXT WORKING DAY. THE CONTRACTOR SHALL BE AWARE OF WEATHER AND WIND CONDITIONS AND NOT PERFORM MEMBER REPLACEMENT IN A WIND.

STRUCTURAL NOTES

STRUCTURAL STEEL MATERIAL:

ALL STRUCTURAL STEEL MEMBERS AND HSS TUBING USED FOR REINFORCING SHALL BE MINIMUM 50 KSI WITH THE BELOW EXCEPTIONS:

ANGLE SIZE 2-1/2"x2-1/2"x3/16" AND SMALLER A36
STRUCTURAL PLATES A36

STRUCTURAL STEEL SHALL CONFORM TO ALL THE REQUIREMENTS OF THE ASTM SPECIFICATION, AS REFERENCED IN THE CODE.

UNLESS OTHERWISE NOTED, ALL STEEL WILL BE GALVANIZED IN ACCORDANCE WITH ASTM 123 AFTER FABRICATION. TOUCH UP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH-UP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.

SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL STEEL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SUBMIT 2 SETS OF PRINTS FOR THE ENGINEER REVIEW.

MILL BEARING ENDS OF COLUMNS, STIFFENERS, AND OTHER BEARING SURFACES TO TRANSFER LOAD OVER ENTIRE CROSS SECTION.

THE OMISSION OF ANY MATERIAL THAT WAS SHOWN ON THE CONTRACT DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF PROVIDING THE SAME.

CONNECTIONS / FIELD ASSEMBLY:

BOLTED CONNECTIONS: UNLESS OTHERWISE NOTED, ALL JOINTS ARE SLIP CRITICAL TYPE, REQUIRING 5/8" & 3/4" DIA. A325-N & A490-X BOLTS, A563 NUTS AND F436 WASHERS, ALL GALVANIZED. BEVELED WASHERS SHALL BE USED ON BEAM FLANGES HAVING A SLOPE GREATER THAN 1:20.

STRUCTURE IS DESIGNED TO BE LEVEL AND PLUMB, SELF-SUPPORTING AND STABLE AFTER WORK IS COMPLETED.

COMMENCEMENT OF WORK WITHOUT NOTIFYING THE ENGINEER OF ANY DISCREPANCIES WILL BE CONSIDERED ACCEPTANCE OF PRECEDING WORK.

INSPECTIONS:

SPECIAL INSPECTIONS ARE REQUIRED PER THE CODE FOR STRUCTURAL STEEL WORK.

OWNER WILL SUPPLY THE SERVICES OF A SPECIAL INSPECTOR AND TESTING AGENTS AS REQUIRED. CONTRACTOR SHALL COORDINATE INSPECTIONS OF FABRICATOR'S AND ERECTOR'S WORK AND MATERIALS TO MEET THE REQUIREMENTS OF THE STATEMENT OF SPECIAL INSPECTIONS FOR THIS PROJECT.

COPIES OF TESTING AND INSPECTION REPORTS WILL BE PROVIDED TO THE OWNER, BUILDING OFFICIAL, ENGINEER OF RECORD AND CONTRACTOR.

PROJECT NO. 60537397
Designed by: MCD
Drawn by: GAT
Checked by: ICA
Approved by: RAS

AECOM
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
(860)-529-8882

AT&T | Sprint | T-Mobile | verizon

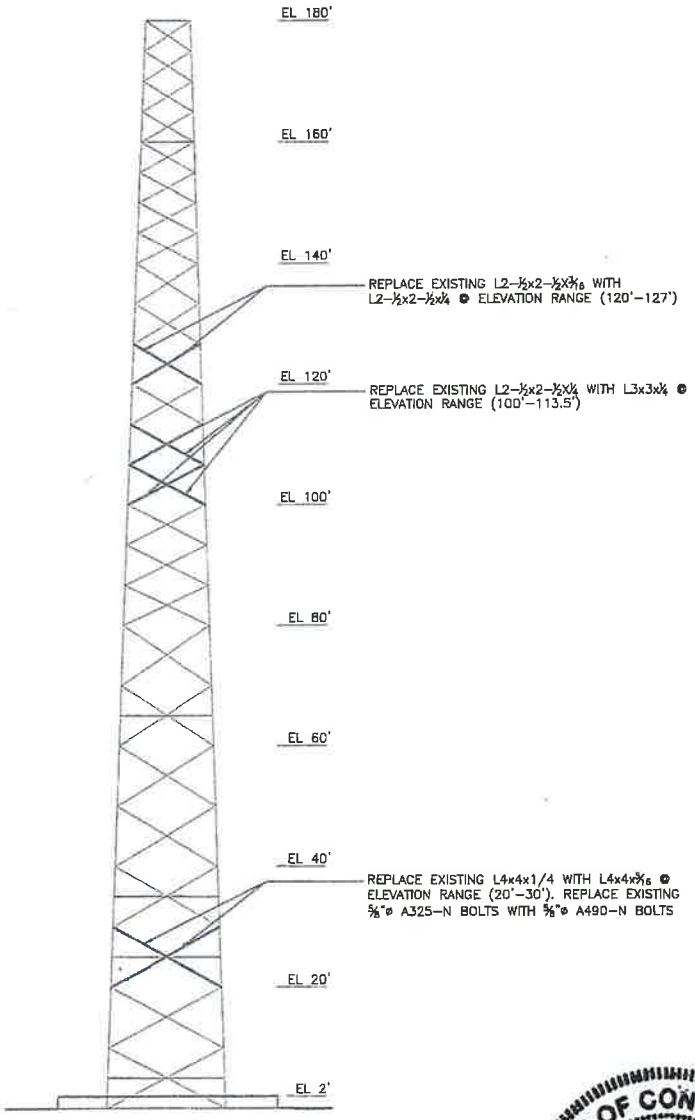
SITE ADDRESS: BUTTERNUT HOLLOW ROAD
GREENWICH, CONNECTICUT 06831

REV.	DATE:	DESCRIPTION
4	07/31/19	RE-ISSUED/NO CHANGE
3	10/11/18	RE-ISSUED
2	10/03/18	RE-ISSUED

Scale: AS NOTED | Date: 03/20/18
Job No. | File No.

Dwg. No. SK-1

NOTES:
1. REFER TO STRUCTURAL NOTES ON SK-1 FOR STEEL GRADE REQUIREMENTS FOR REPLACEMENT MEMBERS.
2. REINFORCEMENT OF TOWER IS REQUIRED FOR ALL 3 SIDES OF EXISTING EXTERIOR TOWER STRUCTURE.
3. CONNECTION BOLTS THAT ARE REMOVED DURING MEMBER REPLACEMENT SHALL BE REPLACED IN KIND, UNLESS NOTED OTHERWISE. EXISTING BOLTS SHALL NOT BE RE-USED FOR CONNECTING REPLACEMENT MEMBERS.
4. CONTRACTOR SHALL COORDINATE WITH ROHN INC. FOR INDICATED TOWER REPLACEMENT MEMBERS AS SHOWN.
5. CONTRACTOR SHALL VERIFY INFORMATION SHOWN ON THIS SHEET PRIOR TO ORDERING MATERIALS.
6. THE BOTTOM 2 FEET OF THE TOWER'S LEGS AND DIAGONAL MEMBERS ARE ENCASED IN CONCRETE, PART OF A PREVIOUS FOUNDATION MODIFICATION.



1 / SK-2 **TOWER ELEVATION - EXTERIOR TOWER**
SCALE: 1" = 30'-0" (INTERIOR TOWER NOT SHOWN FOR CLARITY)

STATE OF CONNECTICUT
RICHARD A. SAMBOR
No. 9057
LICENSED PROFESSIONAL ENGINEER

PROJECT NO.	60537397
Designed by:	MCD
Drawn by:	GAT
Checked by:	ICA
Approved by:	RAS

AECOM
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
(860)-529-8882

AT&T | Sprint | T-Mobile | verizon

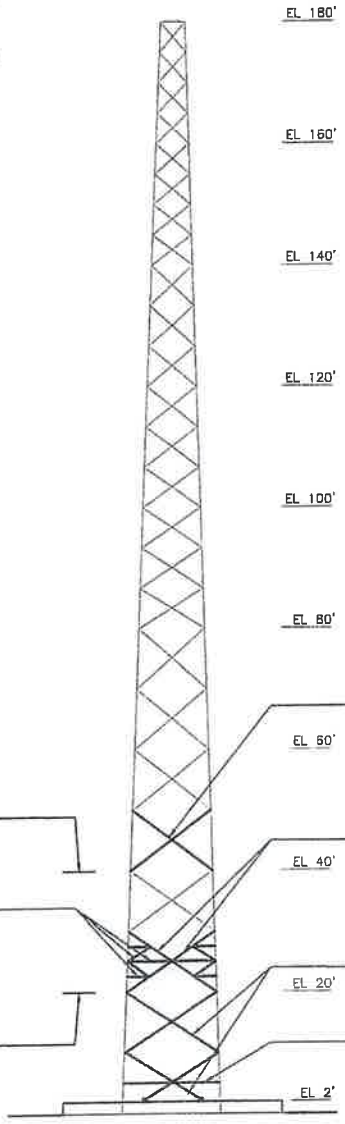
SITE ADDRESS: BUTTERNUT HOLLOW ROAD
GREENWICH, CONNECTICUT 06831

REV.	DATE:	DESCRIPTION
4	07/31/19	RE-ISSUED/NO CHANGE
3	10/11/18	RE-ISSUED
2	10/03/18	RE-ISSUED

Scale: AS NOTED | Date: 03/20/18
Job No. | File No.

Dwg. No. SK-2

NOTES:
1. REFER TO STRUCTURAL NOTES ON SK-1 FOR STEEL GRADE REQUIREMENTS FOR REPLACEMENT MEMBERS.
2. REINFORCEMENT OF TOWER IS REQUIRED FOR ALL 3 SIDES OF EXISTING INTERIOR TOWER STRUCTURE.
3. CONNECTION BOLTS THAT ARE REMOVED DURING MEMBER REPLACEMENT SHALL BE REPLACED IN KIND, UNLESS NOTED OTHERWISE. EXISTING BOLTS SHALL NOT BE RE-USED FOR CONNECTING REPLACEMENT MEMBERS.
4. CONTRACTOR SHALL VERIFY INFORMATION SHOWN ON THIS SHEET PRIOR TO ORDERING MATERIALS.
5. THE BOTTOM 2 FEET OF THE TOWER'S LEGS AND DIAGONAL MEMBERS ARE ENCASED IN CONCRETE, PART OF A PREVIOUS FOUNDATION MODIFICATION.
6. EXISTING TOWER DIAGONAL MEMBERS AT ELEVATION 0'-2' RANGE ARE ENCASED IN CONCRETE. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF TOWER STRUCTURE DURING CONSTRUCTION OF PROPOSED DIAGONAL BASE CONNECTIONS. REFER TO SK-5 FOR DETAILS FOR REPLACEMENT OF DIAGONAL MEMBERS.
7. EXISTING DIAGONAL MEMBERS EMBEDDED IN CONCRETE ARE TO BE CUT AFTER REPLACEMENT INSTALLATION OF DIAGONAL BASE ANCHORS, BASEPLATE AND CONNCECTION PLATES ARE CONSTRUCTED TO ALLOW REPLACEMENT OF PROPOSED DIAGONAL MEMBERS (AS INDICATED IN NOTE 3 ABOVE AND SK-5).



1 / SK-3 TOWER ELEVATION - INTERIOR TOWER
SCALE: 1" = 30'-0" (EXTERIOR TOWER NOT SHOWN FOR CLARITY)

STATE OF CONNECTICUT · RICHARD A. SAMBOR · No. 9057 · LICENSED PROFESSIONAL ENGINEER

PROJECT NO.	60537397
Designed by:	MCD
Drawn by:	GAT
Checked by:	ICA
Approved by:	RAS

AECOM
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
(860)-529-8882

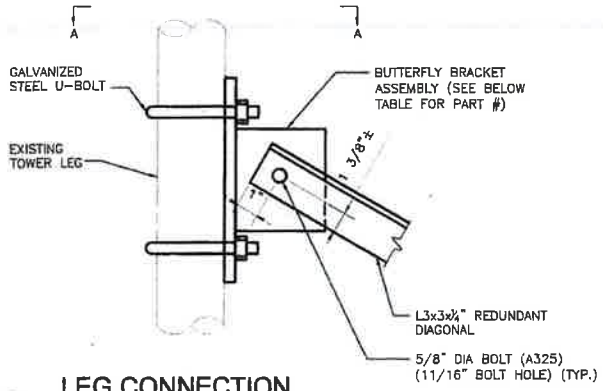
AT&T | Sprint | T-Mobile | verizon

SITE ADDRESS: BUTTERNUT HOLLOW ROAD
GREENWICH, CONNECTICUT 06831

REV.	DATE:	DESCRIPTION
4	07/31/19	RE-ISSUED/NO CHANGE
3	10/11/18	RE-ISSUED
2	10/03/18	RE-ISSUED

Scale: AS NOTED | Date: 03/20/18
Job No. | File No.

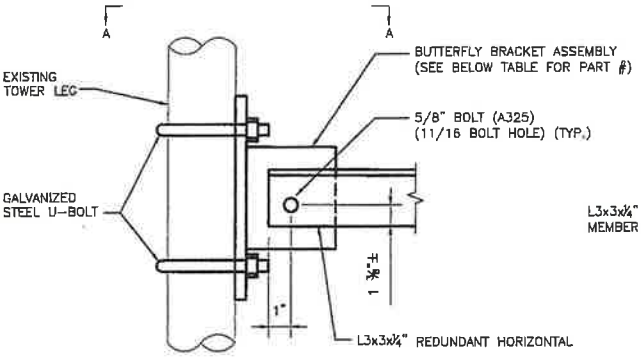
Dwg. No. SK-3
Dwg. 3 of 5



3 SK-4 LEG CONNECTION REDUNDANT DIAGONAL

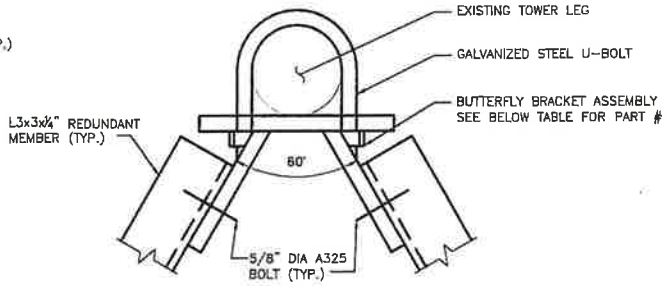
SCALE: 1-1/2"=1'-0"

NOTES:
1. REFER TO SK-1 FOR STRUCTURAL NOTES. COORDINATE SHEET WITH SK-3 FOR SECONDARY HORIZONTAL/DIAGONAL CONNECTION MEMBERS.
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS SHOWN PRIOR TO ORDERING SUPPLIES.
3. U-BOLTED CONNECTION ASSEMBLIES CONNECTING THE EXTERIOR AND INTERIOR TOWERS ARE PERMITTED TO BE ADJUSTED ONE UNIT AT A TIME TO ALLOW THE INSTALLATION OF THE PROPOSED BUTTERFLY BRACKET ASSEMBLIES INDICATED HERE AND ON SHEET SK-3.



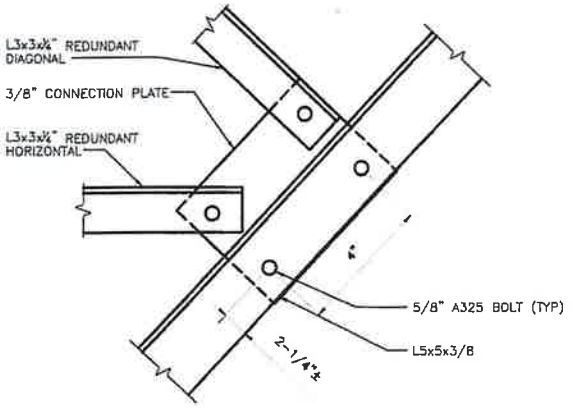
2 SK-4 LEG CONNECTION REDUNDANT HORIZONTAL

SCALE: 1-1/2"=1'-0"



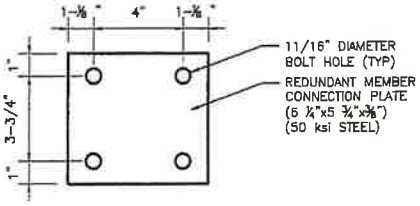
5 SK-4 SECTION A

SCALE: N.T.S.



1 SK-4 REDUNDANT MEMBER CONNECTION

SCALE: 1-1/2"=1'-0"



4 SK-4 CONNECTION PLATE

SCALE: 1-1/2"=1'-0"

ELEVATION	LEG BUTTERFLY BRACKET #
2'-10'	RSH-0500-00
20'-30'	RSH-0500-00

NOTE: LEG BUTTERFLY BRACKET ASSEMBLY INFORMATION FROM PRIMUS ELECTRONICS CORPORATION. CONTRACTOR SHALL USE PRODUCTS SIMILAR TO OR EXCEEDING IN QUALITY FOR CONSTRUCTION.

NOTE:
1. DETAILS 2 & 3 ABOVE INDICATE CONNECTIONS OF DIAGONAL AND HORIZONTAL MEMBERS TO TOWER LEGS. BUTTERFLY BRACKET ASSEMBLIES USED FOR CONNECTION TO EXISTING LEGS SHALL BE INSTALLED AS CLOSE TO EXISTING ADJOINING HORIZONTAL MEMBER AS POSSIBLE.

PROJECT NO. 60537397
Designed by: MCD
Drawn by: GAT
Checked by: ICA
Approved by: RAS

AECOM
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
(860)-529-8882

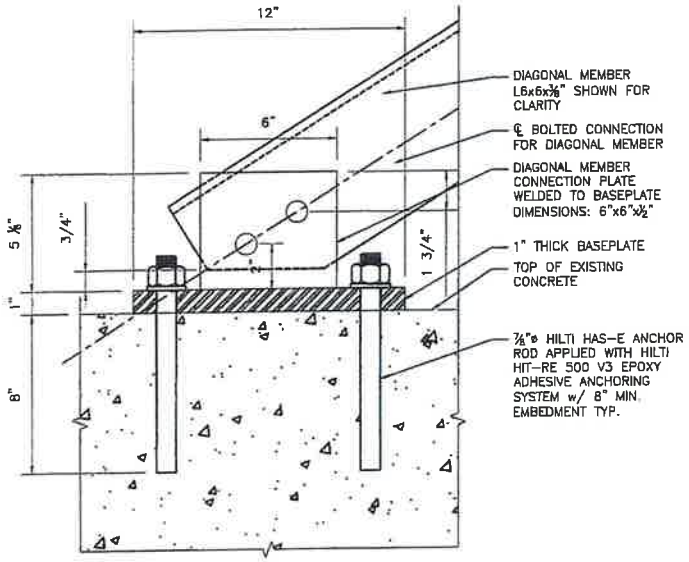
AT&T Sprint T-Mobile verizon

SITE ADDRESS: BUTTERNUT HOLLOW ROAD
GREENWICH, CONNECTICUT 06831

REV.	DATE:	DESCRIPTION
4	07/31/19	RE-ISSUED/NO CHANGE
3	10/11/18	RE-ISSUED
2	10/03/18	RE-ISSUED

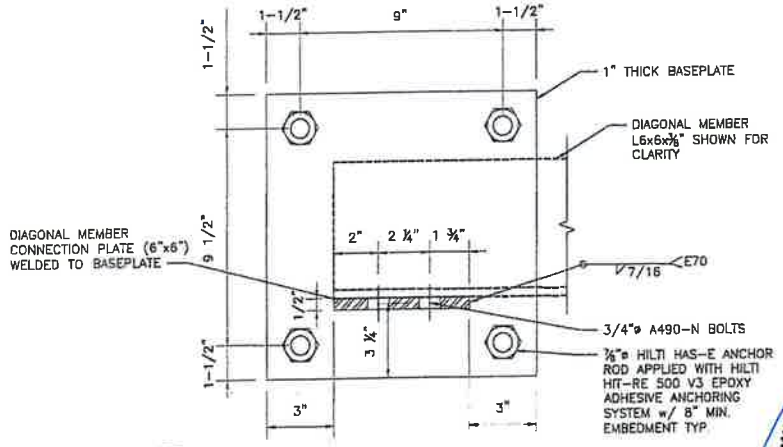
Scale: AS NOTED | Date: 03/20/18
Job No. | File No.

Dwg. No. SK-4



2 / SK-5 **DIAGONAL BASE ANCHOR - ELEVATION VIEW**

SCALE: 1-1/2"=1'-0"



1 / SK-5 **DIAGONAL BASE ANCHOR - PLAN VIEW**

SCALE: 1-1/2"=1'-0"

PROJECT NO. 60537397	AECOM	AT&T Sprint T-Mobile verizon
Designed by: MCD	500 ENTERPRISE DRIVE	SITE ADDRESS: BUTTERNUT HOLLOW ROAD
Drawn by: GAT	ROCKY HILL, CONNECTICUT	GREENWICH, CONNECTICUT 06831
Checked by: ICA	(860)-529-8882	
Approved by: RAS		

REV.	DATE:	DESCRIPTION
4	07/31/19	RE-ISSUED/NO CHANGE
3	10/11/18	RE-ISSUED
2	10/03/18	RE-ISSUED

Scale: AS NOTED | Date: 03/20/18 | Job No. | File No.

Dwg. No. SK-5

Dwg. 5 of 5

CALCULATIONS COVER PAGE

A Note Regarding the Tower Calculations included herein:

The computer program utilized for the structural analysis contained in this report was "PLS-Tower", Version 10.62. This program does not apply multiple wind attack angles to greatest stress. As a result, multiple analyses with different wind attack angles were run in order to arrive at the controlling condition causing he greatest stress. This report includes only the TIA-222-G load case and wind attack angle that causes the greatest stress to the tower members in order to minimize the size of this report. The analyses conducted but not included with this report are available upon request.

PLS-TOWER INPUT / OUTPUT SUMMARY

Project Name : Multi-Carrier Analysis
Project Notes: Butternut Hollow
Project File : p:\projects\telcom\structuralsbylocation\connecticut\greenwichcsp#74\14-vzw adds to # 13_pls_g\pls-tower_wind_0\4-carir.tow
Date run : 3:01:51 PM Wednesday, July 31, 2019
by : Tower Version 10.62
Licensed to : URS Connecticut

Successfully performed nonlinear analysis

Unusual number of fixed joints found: 6. Towers normally have from between 1 and 4 fixed joints. ??
Linear appurtenance "DNK1-7/8" @ 56`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK2-7/8" @ 54`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK3-7/8" @ 60`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK4-7/8" @ 65`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK5-1-5/8" @ 82`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK6-Hybriflex Cables @ Sprint" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK7-7/8" @ 110`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK8-7/8" @ 122`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK9-7/8" @ 122`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK10-1-5/8" @ VZW" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK11-1-5/8" @ 130`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK12-7/8" @ 135`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK13,14-1-5/8" @ T-Mobile" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK15-7/8" @ 137`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK16,17,18-1-5/8" @ ATT" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK16,17,18-Optic Fiber Cable @ ATT" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK16,17,18-DC Cable @ ATT" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK19-7/8" @ 159`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK20-7/8" @ 159.5`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "CSP70,71,72-1-5/8" @ 160`(3)" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "CSP73-1/2" @ 160`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK21-Ellipitical @ 160`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK22-7/8" @ 165`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK23A-1-5/8" @ 168`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK23B-1/2" @ 168`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK26-B-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK26A-7/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK26C-1/2" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK27-B-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK27A-7/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK27C-3/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28A-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28B-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28C-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28D-7/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "GRN-1-Ellipitical @ 172`(DNK25)" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "VZW-(1) Hybriflex Cables" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "Hybriflex 6x12 Cables @ T-Mobile" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "Hybriflex 9x18 Cables @ T-Mobile" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
The model has 40 warnings. ??

Member check option: ANSI/TIA 222-G-1
Connection rupture check: ANSI/TIA 222-G-1
Crossing diagonal check: ANSI/TIA 222-G-1 [Alternate Unsupported RLOUT = 1]
Loads from file: p:\projects\telcom\structuralsbylocation\connecticut\greenwichcsp#74\14-vzw adds to # 13_pls_g\pls-tower_wind_0\4-carir.eia

*** Analysis Results:

Maximum element usage is 97.93% for Angle "SNB-LH2P" in load case "1: 1.2D + 1.0Dg + 1.6Wo"

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
1: 1.2D + 1.0Dg + 1.6Wo	RohnJP	-28.86	0.10	347.98	28.86	-0.05	-5.40	-0.01	5.40	0.00

1: 1.2D + 1.0Dg + 1.6Wo	SNB-JP	-49.71	0.00	500.22	49.71	0.00	-13.12	0.00	13.12	0.00
1: 1.2D + 1.0Dg + 1.6Wo	RohnJ1	-9.19	-9.74	-144.29	13.39	1.86	-1.36	0.00	2.31	0.00
1: 1.2D + 1.0Dg + 1.6Wo	RohnJ2	-9.38	9.66	-144.59	13.46	-1.81	-1.46	-0.01	2.33	0.00
1: 1.2D + 1.0Dg + 1.6Wo	SNB-J1	-16.94	-18.22	-222.16	24.88	5.30	-2.55	-0.04	5.89	0.00
1: 1.2D + 1.0Dg + 1.6Wo	SNB-J2	-16.96	18.25	-222.63	24.91	-5.31	-2.56	0.04	5.90	0.00
2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	-28.59	0.10	342.58	28.59	-0.05	-5.32	-0.01	5.32	0.00
2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	-49.56	0.00	495.02	49.56	0.00	-13.00	0.00	13.00	0.00
2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	-9.33	-9.96	-148.99	13.65	1.92	-1.40	0.00	2.37	0.00
2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	-9.51	9.88	-149.32	13.72	-1.87	-1.50	-0.01	2.39	0.00
2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	-17.01	-18.33	-226.45	25.01	5.40	-2.62	-0.04	6.00	0.00
2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	-17.03	18.36	-226.95	25.04	-5.40	-2.63	0.04	6.01	0.00
4: 1.2D + 1.0Dg + 1.0E	RohnJP	-2.52	0.00	41.46	2.52	-0.00	-0.56	0.00	0.56	0.00
4: 1.2D + 1.0Dg + 1.0E	SNB-JP	-3.04	0.00	49.20	3.04	-0.00	-1.17	-0.00	1.17	0.00
4: 1.2D + 1.0Dg + 1.0E	RohnJ1	0.11	0.32	8.90	0.34	-0.09	0.11	-0.00	0.14	0.00
4: 1.2D + 1.0Dg + 1.0E	RohnJ2	0.10	-0.33	8.99	0.34	0.10	0.10	0.00	0.14	0.00
4: 1.2D + 1.0Dg + 1.0E	SNB-J1	-0.46	-0.54	2.94	0.71	-0.03	0.20	-0.01	0.20	0.00
4: 1.2D + 1.0Dg + 1.0E	SNB-J2	-0.45	0.54	3.04	0.71	0.03	0.20	0.01	0.20	0.00
5: 0.9D + 1.0Dg + 1.0E	RohnJP	-2.25	0.00	36.46	2.25	-0.00	-0.49	0.00	0.49	0.00
5: 0.9D + 1.0Dg + 1.0E	SNB-JP	-2.90	0.00	44.53	2.90	-0.00	-1.05	-0.00	1.05	0.00
5: 0.9D + 1.0Dg + 1.0E	RohnJ1	-0.03	0.09	4.00	0.10	-0.04	0.07	-0.00	0.08	0.00
5: 0.9D + 1.0Dg + 1.0E	RohnJ2	-0.03	-0.10	4.06	0.10	0.04	0.07	0.00	0.08	0.00
5: 0.9D + 1.0Dg + 1.0E	SNB-J1	-0.52	-0.66	-1.61	0.84	0.07	0.14	-0.01	0.15	0.00
5: 0.9D + 1.0Dg + 1.0E	SNB-J2	-0.52	0.66	-1.54	0.84	-0.07	0.14	0.01	0.16	0.00
6: Service 1.0D + 1.0Dg + 1.0 Wo	RohnJP	-7.13	0.02	89.82	7.13	-0.01	-1.38	-0.00	1.38	0.00
6: Service 1.0D + 1.0Dg + 1.0 Wo	SNB-JP	-11.50	0.00	122.99	11.50	-0.00	-3.24	-0.00	3.24	0.00
6: Service 1.0D + 1.0Dg + 1.0 Wo	RohnJ1	-1.72	-1.60	-20.18	2.35	0.28	-0.21	-0.00	0.35	0.00
6: Service 1.0D + 1.0Dg + 1.0 Wo	RohnJ2	-1.76	1.58	-20.19	2.37	-0.27	-0.23	-0.00	0.35	0.00
6: Service 1.0D + 1.0Dg + 1.0 Wo	SNB-J1	-3.62	-3.77	-38.48	5.22	0.95	-0.41	-0.01	1.03	0.00
6: Service 1.0D + 1.0Dg + 1.0 Wo	SNB-J2	-3.62	3.77	-38.52	5.23	-0.95	-0.41	0.01	1.03	0.00
1.2*DL	RohnJP	-1.07	0.00	19.88	1.07	-0.00	-0.28	-0.00	0.28	0.00
1.2*DL	SNB-JP	-0.55	0.00	18.52	0.55	-0.00	-0.48	-0.00	0.48	0.00
1.2*DL	RohnJ1	0.53	0.92	19.69	1.06	-0.24	0.14	-0.00	0.27	0.00
1.2*DL	RohnJ2	0.53	-0.92	19.78	1.06	0.24	0.14	0.00	0.27	0.00
1.2*DL	SNB-J1	0.27	0.47	18.28	0.55	-0.41	0.24	-0.00	0.47	0.00
1.2*DL	SNB-J2	0.28	-0.47	18.38	0.55	0.41	0.24	0.00	0.47	0.00
0.9DL	RohnJP	-0.80	0.00	14.92	0.80	-0.00	-0.21	-0.00	0.21	0.00
0.9DL	SNB-JP	-0.41	0.00	13.89	0.41	-0.00	-0.36	-0.00	0.36	0.00
0.9DL	RohnJ1	0.40	0.69	14.77	0.80	-0.18	0.10	-0.00	0.21	0.00
0.9DL	RohnJ2	0.40	-0.69	14.84	0.80	0.18	0.10	0.00	0.21	0.00
0.9DL	SNB-J1	0.21	0.35	13.71	0.41	-0.31	0.18	-0.00	0.35	0.00
0.9DL	SNB-J2	0.21	-0.36	13.78	0.41	0.31	0.18	0.00	0.36	0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Leg:

Load Case	Support Joint	Origin Joint	Leg Member	Force In Leg Dir. (kips)	Residual Shear Perpendicular To Leg (kips)	Residual Shear Horizontal To Leg - Res. (kips)	Residual Shear Horizontal To Leg - Long. (kips)	Residual Shear To Leg - Tran. (kips)	Total Long. Force (kips)	Total Tran. Force (kips)	Total Vert. Force (kips)
1: 1.2D + 1.0Dg + 1.6Wo	RohnJP	RohnIaS	Rohn-LI2P	348.846	15.102	15.114	-0.098	15.114	-28.86	0.10	347.98
1: 1.2D + 1.0Dg + 1.6Wo	SNB-JP	SNB-IaS	SNB-LI2P	501.792	29.999	30.022	-0.002	30.022	-49.71	0.00	500.22
1: 1.2D + 1.0Dg + 1.6Wo	RohnJ1	RohnIa1	Rohn-LI21	-144.691	7.950	7.956	4.803	6.342	-9.19	-9.74	-144.29
1: 1.2D + 1.0Dg + 1.6Wo	RohnJ2	RohnIa2	Rohn-LI22	-144.993	8.041	8.046	-4.711	6.522	-9.38	9.66	-144.59
1: 1.2D + 1.0Dg + 1.6Wo	SNB-J1	SNB-Ia1	SNB-LI21	-222.944	16.461	16.472	10.646	12.570	-16.94	-18.22	-222.16
1: 1.2D + 1.0Dg + 1.6Wo	SNB-J2	SNB-Ia2	SNB-LI22	-223.417	16.478	16.489	-10.661	12.578	-16.96	18.25	-222.63
2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	RohnIaS	Rohn-LI2P	343.443	15.047	15.058	-0.098	15.058	-28.59	0.10	342.58
2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	SNB-IaS	SNB-LI2P	496.589	30.060	30.084	-0.001	30.084	-49.56	0.00	495.02
2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	RohnIa1	Rohn-LI21	-149.403	8.023	8.028	4.868	6.384	-9.33	-9.96	-148.99
2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	RohnIa2	Rohn-LI22	-149.727	8.112	8.117	-4.776	6.564	-9.51	9.88	-149.32
2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	SNB-Ia1	SNB-LI21	-227.234	16.428	16.439	10.611	12.557	-17.01	-18.33	-226.45
2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	SNB-Ia2	SNB-LI22	-227.731	16.444	16.456	-10.626	12.565	-17.03	18.36	-226.95
4: 1.2D + 1.0Dg + 1.0E	RohnJP	RohnIaS	Rohn-LI2P	41.526	0.882	0.883	-0.003	0.883	-2.52	0.00	41.46
4: 1.2D + 1.0Dg + 1.0E	SNB-JP	SNB-IaS	SNB-LI2P	49.282	1.100	1.101	-0.001	1.101	-3.04	0.00	49.20
4: 1.2D + 1.0Dg + 1.0E	RohnJ1	RohnIa1	Rohn-LI21	8.905	0.071	0.071	-0.019	0.069	0.11	0.32	8.90
4: 1.2D + 1.0Dg + 1.0E	RohnJ2	RohnIa2	Rohn-LI22	8.996	0.076	0.076	0.020	0.073	0.10	-0.33	8.99
4: 1.2D + 1.0Dg + 1.0E	SNB-J1	SNB-Ia1	SNB-LI21	2.908	0.824	0.824	0.644	0.514	-0.46	-0.54	2.94
4: 1.2D + 1.0Dg + 1.0E	SNB-J2	SNB-Ia2	SNB-LI22	3.009	0.826	0.826	-0.647	0.514	-0.45	0.54	3.04
5: 0.9D + 1.0Dg + 1.0E	RohnJP	RohnIaS	Rohn-LI2P	36.518	0.814	0.814	-0.003	0.814	-2.25	0.00	36.46
5: 0.9D + 1.0Dg + 1.0E	SNB-JP	SNB-IaS	SNB-LI2P	44.607	1.148	1.148	-0.001	1.148	-2.90	0.00	44.53

5: 0.9D + 1.0Dg + 1.0E	RohnJ1	RohnIa1	Rohn-LI21	3.996	0.112	0.112	0.042	0.104	-0.03	0.09	4.00
5: 0.9D + 1.0Dg + 1.0E	RohnJ2	RohnIa2	Rohn-LI22	4.064	0.116	0.117	-0.041	0.109	-0.03	-0.10	4.06
5: 0.9D + 1.0Dg + 1.0E	SNB-J1	SNB-Ia1	SNB-LI21	-1.645	0.781	0.781	0.606	0.493	-0.52	-0.66	-1.61
5: 0.9D + 1.0Dg + 1.0E	SNB-J2	SNB-Ia2	SNB-LI22	-1.569	0.782	0.783	-0.608	0.493	-0.52	0.66	-1.54
6: Service 1.0D + 1.0Dg + 1.0 Wo	RohnJP	RohnIaS	Rohn-LI2P	90.036	3.582	3.585	-0.023	3.585	-7.13	0.02	89.82
6: Service 1.0D + 1.0Dg + 1.0 Wo	SNB-JP	SNB-IaS	SNB-LI2P	123.345	6.653	6.658	-0.001	6.658	-11.50	0.00	122.99
6: Service 1.0D + 1.0Dg + 1.0 Wo	RohnJ1	RohnIa1	Rohn-LI21	-20.254	1.603	1.604	0.908	1.322	-1.72	-1.60	-20.18
6: Service 1.0D + 1.0Dg + 1.0 Wo	RohnJ2	RohnIa2	Rohn-LI22	-20.266	1.625	1.626	-0.889	1.361	-1.76	1.58	-20.19
6: Service 1.0D + 1.0Dg + 1.0 Wo	SNB-J1	SNB-Ia1	SNB-LI21	-38.649	3.769	3.771	2.456	2.862	-3.62	-3.77	-38.48
6: Service 1.0D + 1.0Dg + 1.0 Wo	SNB-J2	SNB-Ia2	SNB-LI22	-38.690	3.773	3.776	-2.461	2.864	-3.62	3.77	-38.52
1.2*DL	RohnJP	RohnIaS	Rohn-LI2P	19.911	0.280	0.280	-0.001	0.280	-1.07	0.00	19.88
1.2*DL	SNB-JP	SNB-IaS	SNB-LI2P	18.526	0.180	0.180	-0.001	-0.180	-0.55	0.00	18.52
1.2*DL	RohnJ1	RohnIa1	Rohn-LI21	19.713	0.284	0.284	-0.246	-0.143	0.53	0.92	19.69
1.2*DL	RohnJ2	RohnIa2	Rohn-LI22	19.804	0.282	0.282	0.244	-0.142	0.53	-0.92	19.78
1.2*DL	SNB-J1	SNB-Ia1	SNB-LI21	18.286	0.173	0.173	0.151	0.085	0.27	0.47	18.28
1.2*DL	SNB-J2	SNB-Ia2	SNB-LI22	18.387	0.176	0.176	-0.154	0.085	0.28	-0.47	18.38
0.9DL	RohnJP	RohnIaS	Rohn-LI2P	14.935	0.211	0.211	-0.001	0.211	-0.80	0.00	14.92
0.9DL	SNB-JP	SNB-IaS	SNB-LI2P	13.892	0.134	0.134	-0.001	-0.134	-0.41	0.00	13.89
0.9DL	RohnJ1	RohnIa1	Rohn-LI21	14.788	0.214	0.214	-0.185	-0.107	0.40	0.69	14.77
0.9DL	RohnJ2	RohnIa2	Rohn-LI22	14.856	0.212	0.212	0.183	-0.107	0.40	-0.69	14.84
0.9DL	SNB-J1	SNB-Ia1	SNB-LI21	13.712	0.129	0.129	0.112	0.064	0.21	0.35	13.71
0.9DL	SNB-J2	SNB-Ia2	SNB-LI22	13.788	0.131	0.131	-0.115	0.064	0.21	-0.36	13.78

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Area (ft^2)	Face Af Adjust Factor	Face Ar Adjust Factor	Dead Load Factor
A	180.000	160.000	36	111	7.50	8.87	163.75	0.9000	0.9000	1.000
B	160.000	140.000	33	93	8.87	10.23	191.05	0.9000	0.9000	1.000
C	140.000	120.000	27	72	10.23	11.60	218.31	0.9000	0.9000	1.000
D	120.000	100.000	27	72	11.60	12.96	245.54	0.9000	0.9000	1.000
E	100.000	80.000	27	72	12.96	14.32	272.78	0.9000	0.9000	1.000
F	80.000	60.000	21	51	14.32	15.68	300.04	0.9000	0.9000	1.000
G	60.000	40.000	21	51	15.68	17.05	327.29	0.9000	0.9000	1.000
H	40.000	20.000	21	51	17.05	18.41	354.57	0.9000	0.9000	1.000
I	20.000	0.000	18	39	18.41	19.78	381.92	0.9000	0.9000	1.000

Printed capacities do not include the strength factor entered for each load case.
The Group Summary reports on the member and load case that resulted in maximum usage which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	L/R Capacity (kips)	Comp. Conn. Shear Capacity (kips)	Comp. Conn. Bearing Capacity (kips)	RLX	RLY	RLZ	L/R	Length Comp. Member (ft)	Curve No.	No. Of Bolts Comp.
Rohn-D1	Rohn Diagonal 1	SAE	1.75X1.75X0.1875	36.0	39.87	39.87	Rohn-DA61	-1.9241:	1.2D +	4.825	12.433	13.050	0.500	0.500	0.500	170.38	9.740	4	1
Rohn-D2	Rohn Diagonal 2	SAE	2X2X0.1875	36.0	84.67	84.67	Rohn-DB61	-4.8991:	1.2D +	5.786	12.433	13.050	0.500	0.500	0.500	166.50	10.934	4	1
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	36.0	79.74	79.74	Rohn-DC41	-6.7521:	1.2D +	8.468	12.433	13.050	0.500	0.500	0.500	155.13	12.798	4	1
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	36.0	84.74	84.74	Rohn-DD21	-8.2851:	1.2D +	9.776	12.433	17.400	0.500	0.500	0.500	165.83	13.570	4	1
Rohn-D5	Rohn Diagonal 5	SAE	3X3X0.25	50.0	76.24	76.24	Rohn-DE61	-9.4791:	1.2D +	13.033	12.433	19.500	0.500	0.500	0.500	157.99	15.589	4	1
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	50.0	91.97	91.97	Rohn-DF32	-11.4341:	1.2D +	15.227	12.433	19.500	0.500	0.500	0.500	158.34	18.315	4	1
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	50.0	80.02	80.02	Rohn-DH12	-9.9501:	1.2D +	19.124	12.433	19.500	0.500	0.500	0.500	151.38	20.058	4	1
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	50.0	10.72	10.72	Rohn-LA4P	-11.1471:	1.2D +	103.968	0.000	0.000	1.000	1.000	1.000	52.67	5.004	1	0
Rohn-L2	Rohn Leg 2	Pipe	Pipe3.5EH	50.0	28.98	28.98	Rohn-LB4P	-38.4671:	1.2D +	132.756	0.000	0.000	1.000	1.000	1.000	45.84	5.004	1	0
Rohn-L3	Rohn Leg 3	Pipe	Pipe4EH	50.0	50.76	50.76	Rohn-LC3P	-76.3891:	1.2D +	150.478	0.000	0.000	1.000	1.000	1.000	54.04	6.665	1	0
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	50.0	80.43	80.43	Rohn-LD3P	-127.7781:	1.2D +	158.870	0.000	0.000	1.000	1.000	1.000	42.54	6.665	1	0
Rohn-L5	Rohn Leg 5	Pipe	Pipe5EH	50.0	76.59	76.59	Rohn-LE3P	-171.9681:	1.2D +	224.520	0.000	0.000	1.000	1.000	1.000	43.23	6.665	1	0
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EHS	50.0	78.92	78.92	Rohn-LF1P	-192.3891:	1.2D +	243.786	0.000	0.000	1.000	1.000	1.000	54.10	10.008	1	0
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	50.0	91.06	91.06	Rohn-LG2P	-259.6901:	1.2D +	285.178	0.000	0.000	1.000	1.000	1.000	54.59	10.008	1	0
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EHS	50.0	81.91	81.91	Rohn-LI1P	-322.2241:	1.2D +	393.385	0.000	0.000	1.000	1.000	1.000	40.57	10.008	1	0
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	36.0	2.54	2.54	Rohn-H12	-0.2061:	1.2D +	8.108	0.000	0.000	0.500	0.500	0.500	131.28	7.505	4	0
SNB-D1	SNB Diagonal 1	SAE	2X2X0.3125	36.0	11.96	11.81	SNB-DA72	-1.4681:	1.2D +	19.391	12.433	21.750	0.500	0.500	0.500	111.38	7.240	1	1

SNB-D2	SNB Diagonal 2	SAE	2X2X0.25	36.0	28.50	28.50	SNB-DB72	-3.5441:	1.2D +	13.020	12.433	17.400	0.500	0.500	0.500	127.05	8.279	4	1
SNB-D3	SNB Diagonal 3	SAE	2.5X2.5X0.3125	36.0	75.48	75.48	SNB-DD61	-9.3851:	1.2D +	16.821	12.433	21.750	0.500	0.500	0.500	140.03	11.412	4	1
SNB-D4	SNB Diagonal 4	SAE	3X3X0.5	36.0	70.13	70.13	SNB-DE12	-12.5541:	1.2D +	41.188	17.901	41.760	0.500	0.500	0.500	121.07	11.784	4	1
SNB-D5	SNB Diagonal 5	SAE	4X4X0.5	36.0	67.44	67.44	SNB-DF41	-12.0732:	0.9D +	57.545	17.901	41.760	0.500	0.500	0.500	119.15	15.529	1	1
SNB-D6	SNB Diagonal 6	SAE	4X4X0.625	36.0	88.18	88.18	SNB-DH12	-15.7852:	0.9D +	59.660	17.901	52.200	0.500	0.500	0.500	132.03	17.142	4	1
SNB-D7	SNB Diagonal 7	SAE	5X5X0.625	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
SNB-L1	SNB Leg 1	Pipe	P3-437	36.0	7.62	7.62	SNB-LA4P	-8.8351:	1.2D +	115.987	0.000	0.000	1.000	1.000	1.000	55.09	5.004	1	0
SNB-L2	SNB Leg 2	Pipe	P4-494	36.0	45.68	45.68	SNB-LC3P	-77.7741:	1.2D +	170.256	0.000	0.000	1.000	1.000	1.000	56.33	6.665	1	0
SNB-L3	SNB Leg 3	Pipe	Pipe5EH	36.0	81.20	81.20	SNB-LD3P	-136.3791:	1.2D +	167.960	0.000	0.000	1.000	1.000	1.000	43.23	6.665	1	0
SNB-L4	SNB Leg 4	Pipe	P6-562	36.0	90.97	90.97	SNB-LF2P	-267.6021:	1.2D +	294.167	0.000	0.000	1.000	1.000	1.000	55.86	10.008	1	0
SNB-L5	SNB Leg 5	Pipe	Pipe8XS	36.0	97.93	97.93	SNB-LH2P	-403.8181:	1.2D +	412.353	0.000	0.000	0.250	0.250	0.250	10.42	10.008	1	0
SNB-L6	SNB Leg 6	Pipe	Pipe10XS	36.0	93.12	93.12	SNB-LI2P	-478.7921:	1.2D +	514.179	0.000	0.000	0.500	0.500	0.500	16.54	10.008	1	0
Connect	Connect Towers	BIG	0.1X0.1X1	36.0	0.03	0.01	Connect I2	-2.8142:	0.9D +	25912.070	0.000	0.000	1.000	1.000	1.000	2.40	2.002	1	0
SNB-H1	SNB Horizontal 1	Pipe	P3-425	36.0	2.13	2.13	SNB-H4cP	-2.5502:	0.9D +	119.859	0.000	0.000	1.000	1.000	1.000	44.46	4.066	1	0
SNB-H2	SNB Horizontal 2	Pipe	P4-494	36.0	3.85	3.85	SNB-H9cP	-6.2802:	0.9D +	163.108	0.000	0.000	1.000	1.000	1.000	63.14	7.472	1	0
Rohn-D8	Rohn Diagonal 8	SAE	2X2X0.375	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
WLAC-1	Wind Lacing 1	SAE	2X2X0.25	36.0	1.64	1.64	SNB-WL-D2P	-0.2212:	0.9D +	13.417	0.000	0.000	1.000	1.000	1.000	124.79	4.066	4	0
WLAC-2	Wind Lacing 2	SAE	2.5X2.5X0.3125	36.0	3.19	3.19	SNB-WL-I2P	-0.3131:	1.2D +	9.810	0.000	0.000	1.000	1.000	1.000	183.36	7.472	4	0
R-D1-MOD	MODIFICATION - L1.75X1.75x3/16	SAE	1.75X1.75X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D2-MOD	MODIFICATION - L2X2x3/16	SAE	2X2X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D3-MOD	MODIFICATION - L2.5X2.5x1/4	SAE	2.5X2.5X0.25	50.0	85.12	85.12	Rohn-DC61	-8.8261:	1.2D +	10.368	12.433	19.500	0.500	0.500	0.500	161.02	13.177	4	1
R-D4-MOD	MODIFICATION - L3x3x1/4	SAE	3X3X0.25	50.0	79.91	79.91	Rohn-DD41	-9.9361:	1.2D +	16.211	12.433	19.500	0.500	0.500	0.500	141.66	13.977	4	1
R-D5-MOD	MODIFICATION - L3X3x1/4	SAE	3X3X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D6-MOD	MODIFICATION - L3.5X3.5x5/16	SAE	3.5X3.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D7-MOD	MODIFICATION - L4X4x5/16	SAE	4X4X0.3125	50.0	77.10	77.10	Rohn-DH32	-11.9831:	1.2D +	22.091	15.542	24.375	0.500	0.500	0.500	156.66	20.653	4	1
S-D1-MOD	MODIFICATION - L2X2x5/16	SAE	2X2X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D2-MOD	MODIFICATION - L2x2x1/4	SAE	2X2X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D3-MOD	MODIFICATION - L2.5X2.5x5/16	SAE	2.5X2.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D4-MOD	MODIFICATION - L3.5X3.5x3/8	SAE	3.5X3.5X0.375	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D5-MOD	MODIFICATION - L4X4x0.5	SAE	4X4X0.5	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D6-MOD	MODIFICATION - L5X5x3/8	SAE	5X5X0.375	50.0	64.45	64.45	SNB-DH32	-14.4222:	0.9D +	70.032	22.376	35.100	0.500	0.500	0.500	107.27	17.700	1	1
S-D7-MOD	MODIFICATION - L6X6x3/8	SAE	6X6X0.375	50.0	88.55	88.55	SNB-DI32	-19.8132:	0.9D +	95.638	22.376	35.100	0.500	0.500	0.500	94.99	18.841	1	1

Group Summary (Tension Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Tens. %	Tension Control Member	Tension Force (kips)	Tension Control Load Case	Net Tens. Section Capacity (kips)	Conn. Tens. Shear Capacity (kips)	Conn. Tens. Bearing Capacity (kips)	Conn. Tens. Rupture Capacity (kips)	Length Tens. Member (ft)	No. Of Bolts Tens.	No. Of Holes	Hole Diameter (in)
Rohn-D1	Rohn Diagonal 1	SAE	1.75X1.75X0.1875	36.0	39.87	23.73	Rohn-DA8P	1.8392:	0.9D +	16.022	12.433	13.050	7.750	10.034	1	1.000	0.6875
Rohn-D2	Rohn Diagonal 2	SAE	2X2X0.1875	36.0	84.67	52.01	Rohn-DB7P	4.5612:	0.9D +	18.958	12.433	13.050	8.770	11.238	1	1.000	0.6875
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	36.0	79.74	57.60	Rohn-DC3P	5.6371:	1.2D +	25.222	12.433	13.050	9.787	12.798	1	1.000	0.6875
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	36.0	84.74	53.74	Rohn-DD1P	6.6822:	0.9D +	33.216	12.433	17.400	13.050	13.570	1	1.000	0.6875
Rohn-D5	Rohn Diagonal 5	SAE	3X3X0.25	50.0	76.24	69.10	Rohn-DE5P	8.5922:	0.9D +	46.366	12.433	19.500	14.625	15.589	1	1.000	0.6875
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	50.0	91.97	81.58	Rohn-DF1P	10.1432:	0.9D +	55.506	12.433	19.500	14.625	17.748	1	1.000	0.6875
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	50.0	80.02	75.46	Rohn-DH2P	9.3822:	0.9D +	64.647	12.433	19.500	14.625	20.058	1	1.000	0.6875
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	50.0	10.72	3.32	Rohn-LA42	4.2322:	0.9D +	127.350	0.000	0.000	0.000	5.004	0	0.000	0
Rohn-L2	Rohn Leg 2	Pipe	Pipe3.5EH	50.0	28.98	9.78	Rohn-LB42	15.1432:	0.9D +	154.800	0.000	0.000	0.000	5.004	0	0.000	0
Rohn-L3	Rohn Leg 3	Pipe	Pipe4EH	50.0	50.76	16.31	Rohn-LC32	30.3772:	0.9D +	186.300	0.000	0.000	0.000	6.665	0	0.000	0
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	50.0	80.43	29.36	Rohn-LD32	53.2382:	0.9D +	181.350	0.000	0.000	0.000	6.665	0	0.000	0
Rohn-L5	Rohn Leg 5	Pipe	Pipe5EH	50.0	76.59	28.45	Rohn-LE32	73.2332:	0.9D +	257.400	0.000	0.000	0.000	6.665	0	0.000	0
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EHS	50.0	78.92	30.78	Rohn-LF22	92.9452:	0.9D +	301.950	0.000	0.000	0.000	10.008	0	0.000	0
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	50.0	91.06	36.86	Rohn-LH22	130.6932:	0.9D +	354.599	0.000	0.000	0.000	10.008	0	0.000	0
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EHS	50.0	81.91	32.91	Rohn-LI22	146.0312:	0.9D +	443.699	0.000	0.000	0.000	10.008	0	0.000	0
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	36.0	2.54	1.11	Rohn-H11	0.2242:	0.9D +	20.088	0.000	0.000	0.000	7.505	0	0.000	0
SNB-D1	SNB Diagonal 1	SAE	2X2X0.3125	36.0	11.96	11.96	SNB-DA7P	1.4871:	1.2D +	30.509	12.433	21.750	14.616	7.240	1	1.000	0.6875
SNB-D2	SNB Diagonal 2	SAE	2X2X0.25	36.0	28.50	28.18	SNB-DB6P	3.2951:	1.2D +	25.060	12.433	17.400	11.693	8.011	1	1.000	0.6875
SNB-D3	SNB Diagonal 3	SAE	2.5X2.5X0.3125	36.0	75.48	71.52	SNB-DD3P	8.8921:	1.2D +	40.623	12.433	21.750	16.312	11.059	1	1.000	0.6875
SNB-D4	SNB Diagonal 4	SAE	3X3X0.5	36.0	70.13	64.97	SNB-DE4P	11.6311:	1.2D +	76.465	17.901	41.760	31.494	12.172	1	1.000	0.8125
SNB-D5	SNB Diagonal 5	SAE	4X4X0.5	36.0	67.44	62.83	SNB-DF2P	11.2471:	1.2D +	109.090	17.901	41.760	31.494	15.014	1	1.000	0.8125
SNB-D6	SNB Diagonal 6	SAE	4X4X0.625	36.0	88.18	73.74	SNB-DH2P	13.2001:	1.2D +	133.834	17.901	52.200	39.367	17.142	1	1.000	0.8125
SNB-D7	SNB Diagonal 7	SAE	5X5X0.625	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
SNB-L1	SNB Leg 1	Pipe	P3-437	36.0	7.62	2.32	SNB-LA42	3.1562:	0.9D +	136.080	0.000	0.000	0.000	5.004	0	0.000	0
SNB-L2	SNB Leg 2	Pipe	P4-494	36.0	45.68	17.17	SNB-LC32	34.5462:	0.9D +	201.204	0.000	0.000	0.000	6.665	0	0.000	0
SNB-L3	SNB Leg 3	Pipe	Pipe5EH	36.0	81.20	33.44	SNB-LD32	61.9712:	0.9D +	185.328	0.000	0.000	0.000	6.665	0	0.000	0
SNB-L4	SNB Leg 4	Pipe	P6-562	36.0	90.97	35.22	SNB-LF22	122.0842:	0.9D +	346.679	0.000	0.000	0.000	10.008	0	0.000	0
SNB-L5	SNB Leg 5	Pipe	Pipe8XS	36.0	97.93	44.26	SNB-LH22	183.5542:	0.9D +	414.719	0.000	0.000	0.000	10.008	0	0.000	0

SNB-L6	SNB Leg 6	Pipe	Pipe10XS	36.0	93.12	41.63	SNB-LI22	217.1712:	0.9D +	521.639	0.000	0.000	0.000	10.008	0	0.000	0
Connect	Connect Towers	BIG	0.1X0.1X1	36.0	0.03	0.03	Connect IP	6.9881:	1.2D +	25919.960	0.000	0.000	0.000	2.002	0	0.000	0
SNB-H1	SNB Horizontal 1	Pipe	P3-425	36.0	2.13	1.50	SNB-H4eP	1.9891:	1.2D +	133.002	0.000	0.000	0.000	4.066	0	0.000	0
SNB-H2	SNB Horizontal 2	Pipe	P4-494	36.0	3.85	1.81	SNB-H9bP	3.6451:	1.2D +	201.204	0.000	0.000	0.000	7.472	0	0.000	0
Rohn-D8	Rohn Diagonal 8	SAE	2X2X0.375	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
WLAC-1	Wind Lacing 1	SAE	2X2X0.25	36.0	1.64	1.46	SNB-WL-D3P	0.4431:	1.2D +	30.456	0.000	0.000	0.000	4.066	0	0.000	0
WLAC-2	Wind Lacing 2	SAE	2.5X2.5X0.3125	36.0	3.19	1.32	SNB-WL-I3P	0.6251:	1.2D +	47.304	0.000	0.000	0.000	7.472	0	0.000	0
R-D1-MOD	MODIFICATION - L1.75X1.75x3/16	SAE	1.75X1.75X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D2-MOD	MODIFICATION - L2X2x3/16	SAE	2X2X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D3-MOD	MODIFICATION - L2.5X2.5x1/4	SAE	2.5X2.5X0.25	50.0	85.12	63.22	Rohn-DC5P	7.8602:	0.9D +	37.225	12.433	19.500	14.625	13.177	1	1.000	0.6875
R-D4-MOD	MODIFICATION - L3x3x1/4	SAE	3X3X0.25	50.0	79.91	77.26	Rohn-DD3P	9.6061:	1.2D +	46.366	12.433	19.500	14.625	13.977	1	1.000	0.6875
R-D5-MOD	MODIFICATION - L3X3x1/4	SAE	3X3X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D6-MOD	MODIFICATION - L3.5X3.5x5/16	SAE	3.5X3.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D7-MOD	MODIFICATION - L4X4x5/16	SAE	4X4X0.3125	50.0	77.10	69.41	Rohn-DH4P	10.7882:	0.9D +	79.895	15.542	24.375	18.281	20.653	1	1.000	0.6875
S-D1-MOD	MODIFICATION - L2X2x5/16	SAE	2X2X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D2-MOD	MODIFICATION - L2x2x1/4	SAE	2X2X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D3-MOD	MODIFICATION - L2.5X2.5x5/16	SAE	2.5X2.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D4-MOD	MODIFICATION - L3.5X3.5x3/8	SAE	3.5X3.5X0.375	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D5-MOD	MODIFICATION - L4X4x0.5	SAE	4X4X0.5	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D6-MOD	MODIFICATION - L5X5x3/8	SAE	5X5X0.375	50.0	64.45	57.78	SNB-DG4P	12.9291:	1.2D +	120.850	22.376	35.100	26.471	16.594	1	1.000	0.8125
S-D7-MOD	MODIFICATION - L6X6x3/8	SAE	6X6X0.375	50.0	88.55	76.56	SNB-DI4P	17.1321:	1.2D +	148.272	22.376	35.100	26.471	18.841	1	1.000	0.8125

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

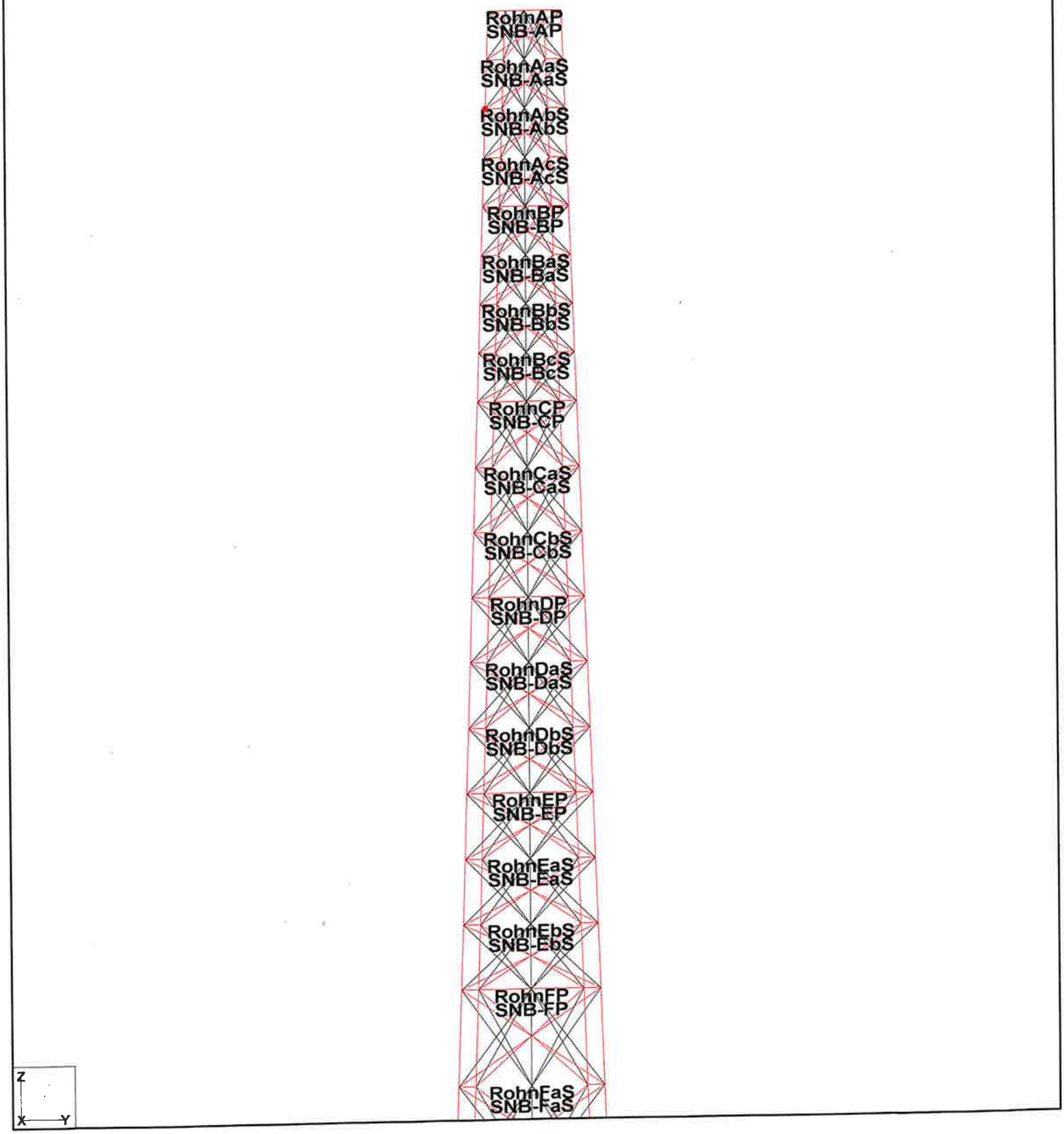
Load Case	Maximum Usage %	Element Label	Element Type
1: 1.2D + 1.0Dg + 1.6Wo	97.93	SNB-LH2P	Angle
2: 0.9D + 1.0Dg + 1.6Wo	96.89	SNB-LH2P	Angle
4: 1.2D + 1.0Dg + 1.0E	12.42	Rohn-LD3P	Angle
5: 0.9D + 1.0Dg + 1.0E	11.00	Rohn-LD3P	Angle
6: Service 1.0D + 1.0Dg + 1.0 Wo	24.09	SNB-LH1P	Angle
1.2*DL	5.66	Rohn-LD3P	Angle
0.9DL	4.25	Rohn-LD3P	Angle

*** Weight of structure (lbs):
Weight of Angles*Section DLF: 61800.0
Weight of Equipment: 12631.6
Total: 74431.6

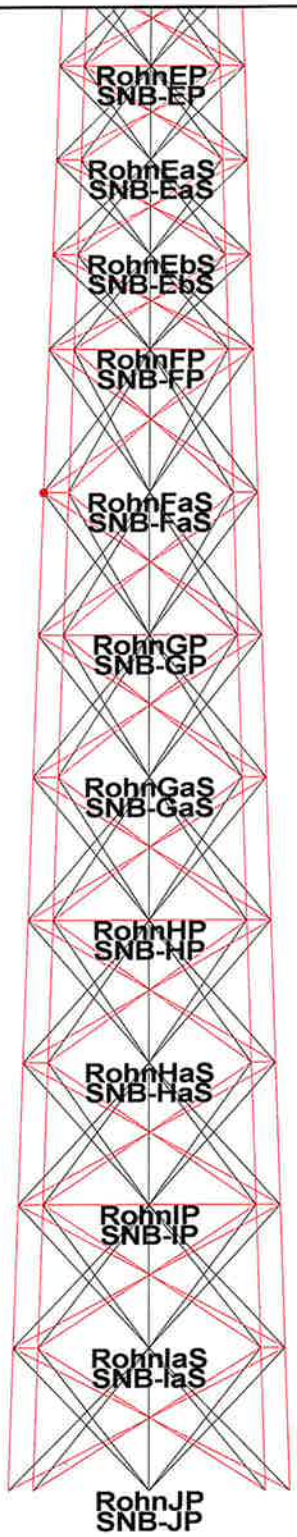
*** End of Report

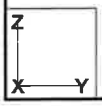
PLS-TOWER NODE LOCATIONS

AECOM Connecticut, Project - Butternut Hollow Greenwich, CT
Tower Version 10.62, Wednesday, July 31, 2019
Undeformed geometry displayed



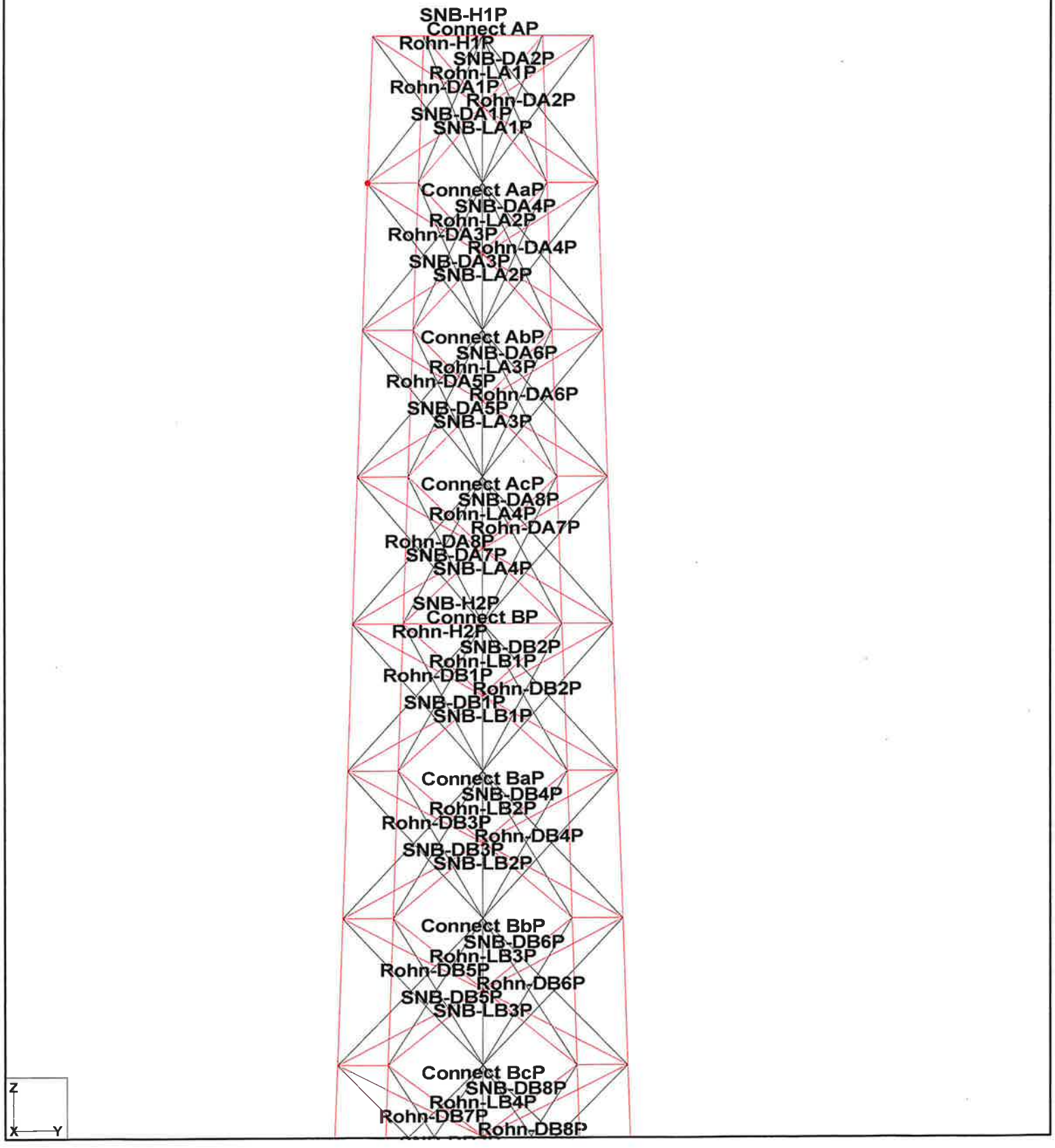
AECOM Connecticut, Project - Butternut Hollow Greenwich, CT
Tower Version 10.62, Wednesday, July 31, 2019
Undeformed geometry displayed



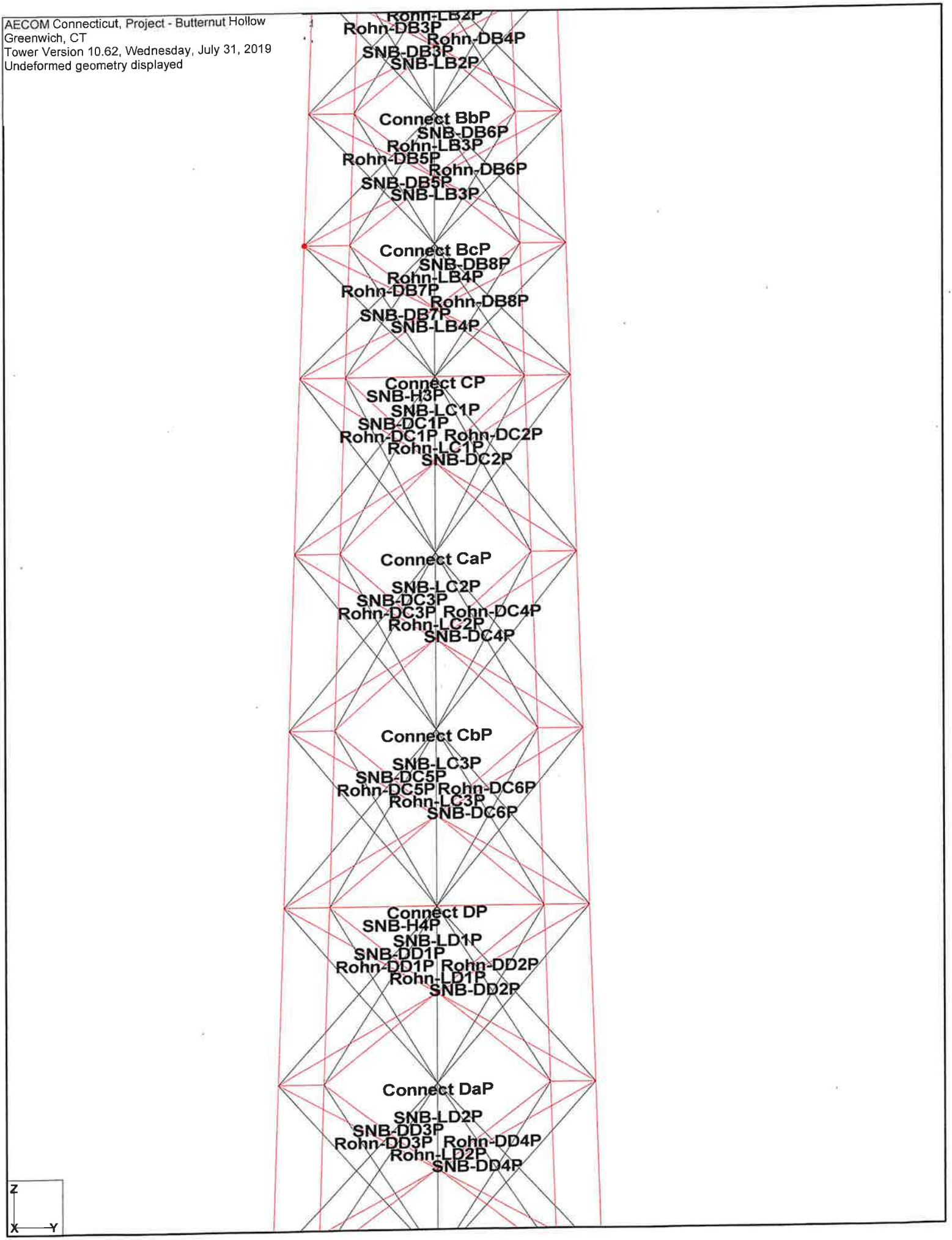


PLS-TOWER MEMBER LOCATIONS

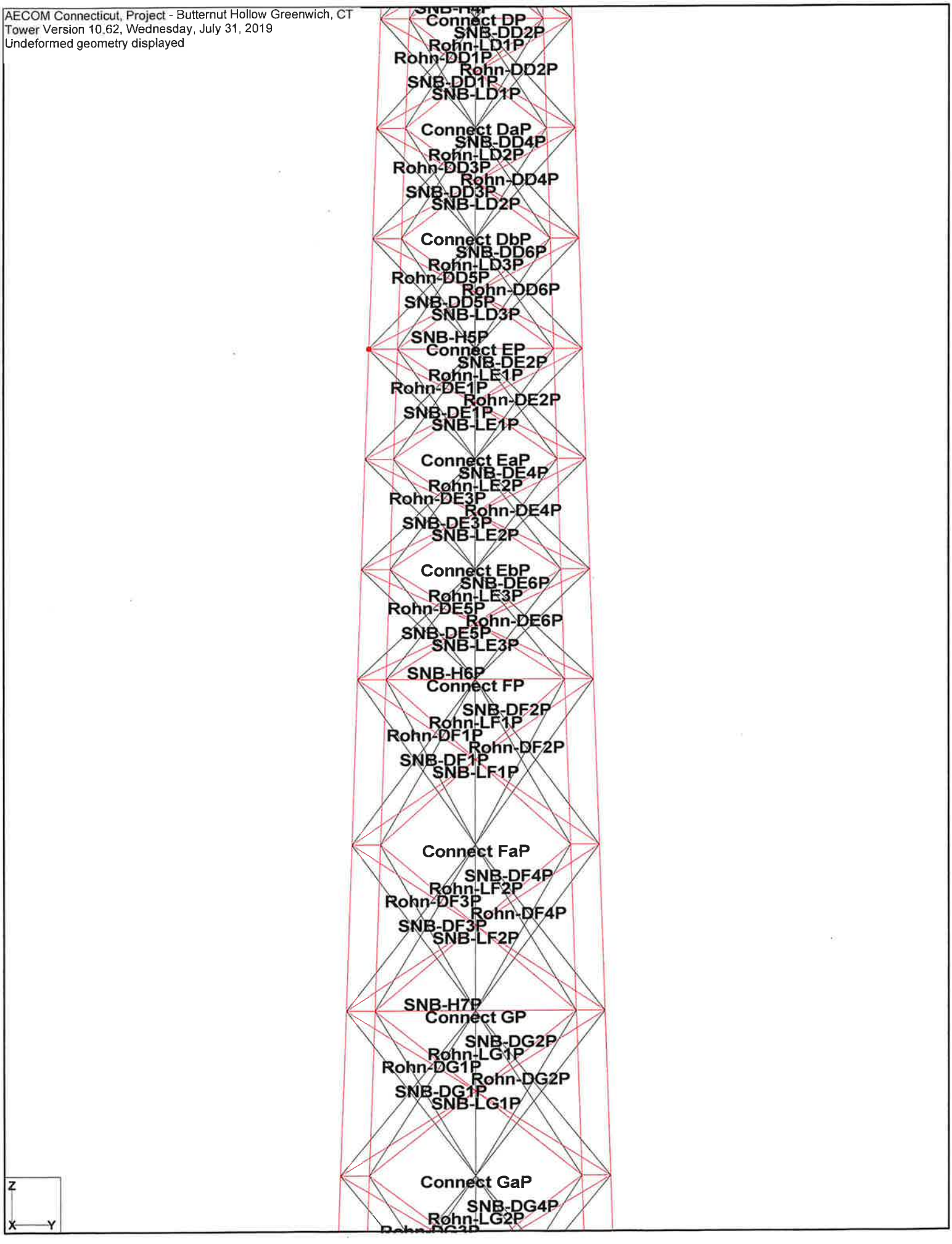
AECOM Connecticut, Project - Butternut Hollow Greenwich, CT
Tower Version 10.62, Wednesday, July 31, 2019
Undeformed geometry displayed



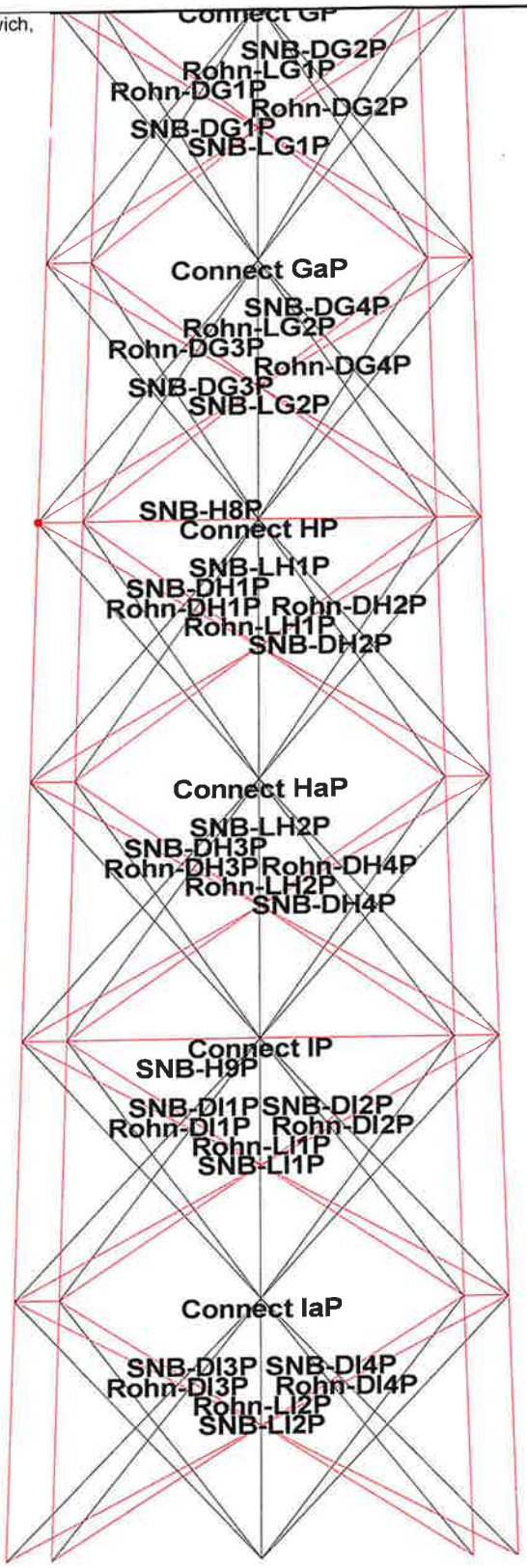
AECOM Connecticut, Project - Butternut Hollow
Greenwich, CT
Tower Version 10.62, Wednesday, July 31, 2019
Undeformed geometry displayed

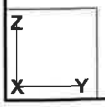


AECOM Connecticut, Project - Butternut Hollow Greenwich, CT
Tower Version 10.62, Wednesday, July 31, 2019
Undeformed geometry displayed



AECOM Connecticut, Project - Butternut Hollow Greenwich, CT
Tower Version 10.62, Wednesday, July 31, 2019
Undeformed geometry displayed





PLS-TOWER DETAILED OUTPUT

```
*************************************************************************
*                                                                       *
* TOWER - Analysis and Design -  Copyright Power Line Systems, Inc. 1986-2006 *
*                                                                       *
*************************************************************************

Project Name : Multi-Carrier Analysis
Project Notes: Butternut Hollow
Project File : p:\projects\telcom\structuralsbylocation\connecticut\greenwichcsp#74\14-vzw adds to # 13\_pls_g\pls-tower_wind_0\4-carir.tow
Date run     : 3:01:51 PM Wednesday, July 31, 2019
by           : Tower Version 10.62
Licensed to  : URS Connecticut

Successfully performed nonlinear analysis

Unusual number of fixed joints found: 6.  Towers normally have from between 1 and 4 fixed joints. ??
Linear appurtenance "DNK1-7/8" @ 56`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK2-7/8" @ 54`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK3-7/8" @ 60`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK4-7/8" @ 65`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK5-1-5/8" @ 82`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK6-Hybriflex Cables @ Sprint" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK7-7/8" @ 110`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK8-7/8" @ 122`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK9-7/8" @ 122`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK10-1-5/8" @ VZW" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK11-1-5/8" @ 130`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK12-7/8" @ 135`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK13,14-1-5/8" @ T-Mobile" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK15-7/8" @ 137`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK16,17,18-1-5/8" @ ATT" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK16,17,18-Optic Fiber Cable @ ATT" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK16,17,18-DC Cable @ ATT" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK19-7/8" @ 159`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK20-7/8" @ 159.5`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "CSP70,71,72-1-5/8" @ 160`(3)" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "CSP73-1/2" @ 160`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK21-Ellipitical @ 160`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK22-7/8" @ 165`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK23A-1-5/8" @ 168`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK23B-1/2" @ 168`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK26-B-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK26A-7/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK26C-1/2" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK27-B-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK27A-7/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK27C-3/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28A-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28B-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28C-1-5/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "DNK28D-7/8" @ 175`" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "GRN-1-Ellipitical @ 172`(DNK25)" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "VZW-(1) Hybriflex Cables" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "Hybriflex 6x12 Cables @ T-Mobile" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
Linear appurtenance "Hybriflex 9x18 Cables @ T-Mobile" is included in the face zone (face solidity ratio for Rev. F), but does not contribute to wind load: this is nonsensical ??
The model has 40 warnings.  ??

Nonlinear convergence parameters: Use Standard Parameters
Member check option: ANSI/TIA 222-G-1
Connection rupture check: ANSI/TIA 222-G-1
Crossing diagonal check: ANSI/TIA 222-G-1  [Alternate Unsupported RLOUT = 1]

Joints Geometry:

  Joint      Symmetry X Coord.  Y Coord.  Z Coord.  X Disp.  Y Disp.  Z Disp.   X Rot.   Y Rot.   Z Rot.
  Label         Code     (ft)      (ft)      (ft)    Rest.    Rest.    Rest.    Rest.    Rest.    Rest.
-------------------------------------------------------------------------------------------------------
```

RohnAP	Tri-Symmetry	4.333	0	180	Free	Free	Free	Free	Free	Free
RohnBP	Tri-Symmetry	5.121	0	160	Free	Free	Free	Free	Free	Free
RohnCP	Tri-Symmetry	5.909	0	140	Free	Free	Free	Free	Free	Free
RohnDP	Tri-Symmetry	6.695	0	120	Free	Free	Free	Free	Free	Free
RohnEP	Tri-Symmetry	7.481	0	100	Free	Free	Free	Free	Free	Free
RohnFP	Tri-Symmetry	8.268	0	80	Free	Free	Free	Free	Free	Free
RohnGP	Tri-Symmetry	9.055	0	60	Free	Free	Free	Free	Free	Free
RohnHP	Tri-Symmetry	9.841	0	40	Free	Free	Free	Free	Free	Free
RohnIP	Tri-Symmetry	10.63	0	20	Free	Free	Free	Free	Free	Free
RohnJP	Tri-Symmetry	11.42	0	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
SNB-AP	Tri-Symmetry	2.333	0	180	Free	Free	Free	Free	Free	Free
SNB-BP	Tri-Symmetry	3.121	0	160	Free	Free	Free	Free	Free	Free
SNB-CP	Tri-Symmetry	3.908	0	140	Free	Free	Free	Free	Free	Free
SNB-DP	Tri-Symmetry	4.695	0	120	Free	Free	Free	Free	Free	Free
SNB-EP	Tri-Symmetry	5.481	0	100	Free	Free	Free	Free	Free	Free
SNB-FP	Tri-Symmetry	6.268	0	80	Free	Free	Free	Free	Free	Free
SNB-GP	Tri-Symmetry	7.055	0	60	Free	Free	Free	Free	Free	Free
SNB-HP	Tri-Symmetry	7.841	0	40	Free	Free	Free	Free	Free	Free
SNB-IP	Tri-Symmetry	8.628	0	20	Free	Free	Free	Free	Free	Free
SNB-JP	Tri-Symmetry	9.415	0	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
RohnA1	Tri-Gen 1	-2.167	-3.752	180	Free	Free	Free	Free	Free	Free
RohnA2	Tri-Gen 2	-2.167	3.752	180	Free	Free	Free	Free	Free	Free
RohnB1	Tri-Gen 1	-2.561	-4.435	160	Free	Free	Free	Free	Free	Free
RohnB2	Tri-Gen 2	-2.561	4.435	160	Free	Free	Free	Free	Free	Free
RohnC1	Tri-Gen 1	-2.954	-5.117	140	Free	Free	Free	Free	Free	Free
RohnC2	Tri-Gen 2	-2.954	5.117	140	Free	Free	Free	Free	Free	Free
RohnD1	Tri-Gen 1	-3.348	-5.798	120	Free	Free	Free	Free	Free	Free
RohnD2	Tri-Gen 2	-3.348	5.798	120	Free	Free	Free	Free	Free	Free
RohnE1	Tri-Gen 1	-3.741	-6.479	100	Free	Free	Free	Free	Free	Free
RohnE2	Tri-Gen 2	-3.741	6.479	100	Free	Free	Free	Free	Free	Free
RohnF1	Tri-Gen 1	-4.134	-7.16	80	Free	Free	Free	Free	Free	Free
RohnF2	Tri-Gen 2	-4.134	7.16	80	Free	Free	Free	Free	Free	Free
RohnG1	Tri-Gen 1	-4.527	-7.842	60	Free	Free	Free	Free	Free	Free
RohnG2	Tri-Gen 2	-4.527	7.842	60	Free	Free	Free	Free	Free	Free
RohnH1	Tri-Gen 1	-4.921	-8.523	40	Free	Free	Free	Free	Free	Free
RohnH2	Tri-Gen 2	-4.921	8.523	40	Free	Free	Free	Free	Free	Free
RohnI1	Tri-Gen 1	-5.315	-9.206	20	Free	Free	Free	Free	Free	Free
RohnI2	Tri-Gen 2	-5.315	9.206	20	Free	Free	Free	Free	Free	Free
RohnJ1	Tri-Gen 1	-5.71	-9.89	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
RohnJ2	Tri-Gen 2	-5.71	9.89	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
SNB-A1	Tri-Gen 1	-1.167	-2.02	180	Free	Free	Free	Free	Free	Free
SNB-A2	Tri-Gen 2	-1.167	2.02	180	Free	Free	Free	Free	Free	Free
SNB-B1	Tri-Gen 1	-1.561	-2.703	160	Free	Free	Free	Free	Free	Free
SNB-B2	Tri-Gen 2	-1.561	2.703	160	Free	Free	Free	Free	Free	Free
SNB-C1	Tri-Gen 1	-1.954	-3.384	140	Free	Free	Free	Free	Free	Free
SNB-C2	Tri-Gen 2	-1.954	3.384	140	Free	Free	Free	Free	Free	Free
SNB-D1	Tri-Gen 1	-2.348	-4.066	120	Free	Free	Free	Free	Free	Free
SNB-D2	Tri-Gen 2	-2.348	4.066	120	Free	Free	Free	Free	Free	Free
SNB-E1	Tri-Gen 1	-2.74	-4.747	100	Free	Free	Free	Free	Free	Free
SNB-E2	Tri-Gen 2	-2.74	4.747	100	Free	Free	Free	Free	Free	Free
SNB-F1	Tri-Gen 1	-3.134	-5.428	80	Free	Free	Free	Free	Free	Free
SNB-F2	Tri-Gen 2	-3.134	5.428	80	Free	Free	Free	Free	Free	Free
SNB-G1	Tri-Gen 1	-3.528	-6.11	60	Free	Free	Free	Free	Free	Free
SNB-G2	Tri-Gen 2	-3.528	6.11	60	Free	Free	Free	Free	Free	Free
SNB-H1	Tri-Gen 1	-3.921	-6.791	40	Free	Free	Free	Free	Free	Free
SNB-H2	Tri-Gen 2	-3.921	6.791	40	Free	Free	Free	Free	Free	Free
SNB-I1	Tri-Gen 1	-4.314	-7.472	20	Free	Free	Free	Free	Free	Free
SNB-I2	Tri-Gen 2	-4.314	7.472	20	Free	Free	Free	Free	Free	Free
SNB-J1	Tri-Gen 1	-4.708	-8.154	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
SNB-J2	Tri-Gen 2	-4.708	8.154	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

Secondary Joints:

Joint Label	Symmetry Code	Origin Joint	End Joint	Fraction	Elevation (ft)	X Disp. Rest.	Y Disp. Rest.	Z Disp. Rest.	X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.
RohnAaS	Tri-Symmetry	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free
RohnAbS	Tri-Symmetry	RohnAP	RohnBP	0.5	0	Free	Free	Free	Free	Free	Free

RohnAcS	Tri-Symmetry	RohnAP	RohnBP	0.75	0	Free	Free	Free	Free	Free	Free
RohnBaS	Tri-Symmetry	RohnBP	RohnCP	0.25	0	Free	Free	Free	Free	Free	Free
RohnBbS	Tri-Symmetry	RohnBP	RohnCP	0.5	0	Free	Free	Free	Free	Free	Free
RohnBcS	Tri-Symmetry	RohnBP	RohnCP	0.75	0	Free	Free	Free	Free	Free	Free
RohnCaS	Tri-Symmetry	RohnCP	RohnDP	0.333	0	Free	Free	Free	Free	Free	Free
RohnCbS	Tri-Symmetry	RohnCP	RohnDP	0.667	0	Free	Free	Free	Free	Free	Free
RohnDaS	Tri-Symmetry	RohnDP	RohnEP	0.333	0	Free	Free	Free	Free	Free	Free
RohnDbS	Tri-Symmetry	RohnDP	RohnEP	0.667	0	Free	Free	Free	Free	Free	Free
RohnEaS	Tri-Symmetry	RohnEP	RohnFP	0.333	0	Free	Free	Free	Free	Free	Free
RohnEbS	Tri-Symmetry	RohnEP	RohnFP	0.667	0	Free	Free	Free	Free	Free	Free
RohnFaS	Tri-Symmetry	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free
RohnGaS	Tri-Symmetry	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free
RohnHaS	Tri-Symmetry	RohnHP	RohnIP	0.5	0	Free	Free	Free	Free	Free	Free
RohnIaS	Tri-Symmetry	RohnIP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-AaS	Tri-Symmetry	SNB-AP	SNB-BP	0.25	0	Free	Free	Free	Free	Free	Free
SNB-AbS	Tri-Symmetry	SNB-AP	SNB-BP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-AcS	Tri-Symmetry	SNB-AP	SNB-BP	0.75	0	Free	Free	Free	Free	Free	Free
SNB-BaS	Tri-Symmetry	SNB-BP	SNB-CP	0.25	0	Free	Free	Free	Free	Free	Free
SNB-BbS	Tri-Symmetry	SNB-BP	SNB-CP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-BcS	Tri-Symmetry	SNB-BP	SNB-CP	0.75	0	Free	Free	Free	Free	Free	Free
SNB-CaS	Tri-Symmetry	SNB-CP	SNB-DP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-CbS	Tri-Symmetry	SNB-CP	SNB-DP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-DaS	Tri-Symmetry	SNB-DP	SNB-EP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-DbS	Tri-Symmetry	SNB-DP	SNB-EP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-EaS	Tri-Symmetry	SNB-EP	SNB-FP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-EbS	Tri-Symmetry	SNB-EP	SNB-FP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-FaS	Tri-Symmetry	SNB-FP	SNB-GP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-GaS	Tri-Symmetry	SNB-GP	SNB-HP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-HaS	Tri-Symmetry	SNB-HP	SNB-IP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-IaS	Tri-Symmetry	SNB-IP	SNB-JP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-A1S	None	SNB-AP	SNB-A1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-A2S	None	SNB-A1	SNB-A2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-A3S	None	SNB-A2	SNB-AP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-B1S	None	SNB-BP	SNB-B1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-B2S	None	SNB-B1	SNB-B2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-B3S	None	SNB-B2	SNB-BP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-C1S	None	SNB-CP	SNB-C1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-C2S	None	SNB-C1	SNB-C2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-C3S	None	SNB-C2	SNB-CP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-D1S	None	SNB-DP	SNB-D1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-D2S	None	SNB-D1	SNB-D2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-D3S	None	SNB-D2	SNB-DP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-E1S	None	SNB-EP	SNB-E1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-E2S	None	SNB-E1	SNB-E2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-E3S	None	SNB-E2	SNB-EP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-F1S	None	SNB-FP	SNB-F1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-F2S	None	SNB-F1	SNB-F2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-F3S	None	SNB-F2	SNB-FP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-G1S	None	SNB-GP	SNB-G1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-G2S	None	SNB-G1	SNB-G2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-G3S	None	SNB-G2	SNB-GP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-H1S	None	SNB-HP	SNB-H1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-H2S	None	SNB-H1	SNB-H2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-H3S	None	SNB-H2	SNB-HP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-I1S	None	SNB-IP	SNB-I1	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-I2S	None	SNB-I1	SNB-I2	0.5	0	Free	Free	Free	Free	Free	Free
SNB-WL-I3S	None	SNB-I2	SNB-IP	0.5	0	Free	Free	Free	Free	Free	Free
RohnAa1	Tri-Gen 1	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free
RohnAa2	Tri-Gen 2	RohnAP	RohnBP	0.25	0	Free	Free	Free	Free	Free	Free
RohnAb1	Tri-Gen 1	RohnAP	RohnBP	0.5	0	Free	Free	Free	Free	Free	Free
RohnAb2	Tri-Gen 2	RohnAP	RohnBP	0.5	0	Free	Free	Free	Free	Free	Free
RohnAc1	Tri-Gen 1	RohnAP	RohnBP	0.75	0	Free	Free	Free	Free	Free	Free
RohnAc2	Tri-Gen 2	RohnAP	RohnBP	0.75	0	Free	Free	Free	Free	Free	Free
RohnBa1	Tri-Gen 1	RohnBP	RohnCP	0.25	0	Free	Free	Free	Free	Free	Free
RohnBa2	Tri-Gen 2	RohnBP	RohnCP	0.25	0	Free	Free	Free	Free	Free	Free
RohnBb1	Tri-Gen 1	RohnBP	RohnCP	0.5	0	Free	Free	Free	Free	Free	Free
RohnBb2	Tri-Gen 2	RohnBP	RohnCP	0.5	0	Free	Free	Free	Free	Free	Free
RohnBc1	Tri-Gen 1	RohnBP	RohnCP	0.75	0	Free	Free	Free	Free	Free	Free
RohnBc2	Tri-Gen 2	RohnBP	RohnCP	0.75	0	Free	Free	Free	Free	Free	Free

RohnCa1	Tri-Gen 1	RohnCP	RohnDP	0.333	0	Free	Free	Free	Free	Free	Free
RohnCa2	Tri-Gen 2	RohnCP	RohnDP	0.333	0	Free	Free	Free	Free	Free	Free
RohnCb1	Tri-Gen 1	RohnCP	RohnDP	0.667	0	Free	Free	Free	Free	Free	Free
RohnCb2	Tri-Gen 2	RohnCP	RohnDP	0.667	0	Free	Free	Free	Free	Free	Free
RohnDa1	Tri-Gen 1	RohnDP	RohnEP	0.333	0	Free	Free	Free	Free	Free	Free
RohnDa2	Tri-Gen 2	RohnDP	RohnEP	0.333	0	Free	Free	Free	Free	Free	Free
RohnDb1	Tri-Gen 1	RohnDP	RohnEP	0.667	0	Free	Free	Free	Free	Free	Free
RohnDb2	Tri-Gen 2	RohnDP	RohnEP	0.667	0	Free	Free	Free	Free	Free	Free
RohnEa1	Tri-Gen 1	RohnEP	RohnFP	0.333	0	Free	Free	Free	Free	Free	Free
RohnEa2	Tri-Gen 2	RohnEP	RohnFP	0.333	0	Free	Free	Free	Free	Free	Free
RohnEb1	Tri-Gen 1	RohnEP	RohnFP	0.667	0	Free	Free	Free	Free	Free	Free
RohnEb2	Tri-Gen 2	RohnEP	RohnFP	0.667	0	Free	Free	Free	Free	Free	Free
RohnFa1	Tri-Gen 1	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free
RohnFa2	Tri-Gen 2	RohnFP	RohnGP	0.5	0	Free	Free	Free	Free	Free	Free
RohnGa1	Tri-Gen 1	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free
RohnGa2	Tri-Gen 2	RohnGP	RohnHP	0.5	0	Free	Free	Free	Free	Free	Free
RohnHa1	Tri-Gen 1	RohnHP	RohnIP	0.5	0	Free	Free	Free	Free	Free	Free
RohnHa2	Tri-Gen 2	RohnHP	RohnIP	0.5	0	Free	Free	Free	Free	Free	Free
RohnIa1	Tri-Gen 1	RohnIP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free
RohnIa2	Tri-Gen 2	RohnIP	RohnJP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Aa1	Tri-Gen 1	SNB-AP	SNB-BP	0.25	0	Free	Free	Free	Free	Free	Free
SNB-Aa2	Tri-Gen 2	SNB-AP	SNB-BP	0.25	0	Free	Free	Free	Free	Free	Free
SNB-Ab1	Tri-Gen 1	SNB-AP	SNB-BP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ab2	Tri-Gen 2	SNB-AP	SNB-BP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ac1	Tri-Gen 1	SNB-AP	SNB-BP	0.75	0	Free	Free	Free	Free	Free	Free
SNB-Ac2	Tri-Gen 2	SNB-AP	SNB-BP	0.75	0	Free	Free	Free	Free	Free	Free
SNB-Ba1	Tri-Gen 1	SNB-BP	SNB-CP	0.25	0	Free	Free	Free	Free	Free	Free
SNB-Ba2	Tri-Gen 2	SNB-BP	SNB-CP	0.25	0	Free	Free	Free	Free	Free	Free
SNB-Bb1	Tri-Gen 1	SNB-BP	SNB-CP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Bb2	Tri-Gen 2	SNB-BP	SNB-CP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Bc1	Tri-Gen 1	SNB-BP	SNB-CP	0.75	0	Free	Free	Free	Free	Free	Free
SNB-Bc2	Tri-Gen 2	SNB-BP	SNB-CP	0.75	0	Free	Free	Free	Free	Free	Free
SNB-Ca1	Tri-Gen 1	SNB-CP	SNB-DP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-Ca2	Tri-Gen 2	SNB-CP	SNB-DP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-Cb1	Tri-Gen 1	SNB-CP	SNB-DP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-Cb2	Tri-Gen 2	SNB-CP	SNB-DP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-Da1	Tri-Gen 1	SNB-DP	SNB-EP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-Da2	Tri-Gen 2	SNB-DP	SNB-EP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-Db1	Tri-Gen 1	SNB-DP	SNB-EP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-Db2	Tri-Gen 2	SNB-DP	SNB-EP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-Ea1	Tri-Gen 1	SNB-EP	SNB-FP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-Ea2	Tri-Gen 2	SNB-EP	SNB-FP	0.333	0	Free	Free	Free	Free	Free	Free
SNB-Eb1	Tri-Gen 1	SNB-EP	SNB-FP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-Eb2	Tri-Gen 2	SNB-EP	SNB-FP	0.667	0	Free	Free	Free	Free	Free	Free
SNB-Fa1	Tri-Gen 1	SNB-FP	SNB-GP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Fa2	Tri-Gen 2	SNB-FP	SNB-GP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ga1	Tri-Gen 1	SNB-GP	SNB-HP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ga2	Tri-Gen 2	SNB-GP	SNB-HP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ha1	Tri-Gen 1	SNB-HP	SNB-IP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ha2	Tri-Gen 2	SNB-HP	SNB-IP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ia1	Tri-Gen 1	SNB-IP	SNB-JP	0.5	0	Free	Free	Free	Free	Free	Free
SNB-Ia2	Tri-Gen 2	SNB-IP	SNB-JP	0.5	0	Free	Free	Free	Free	Free	Free

The model contains 60 primary and 123 secondary joints for a total of 183 joints.

Steel Material Properties:

Steel Material Label	Modulus of Elasticity (ksi)	Yield Stress Fy (ksi)	Ultimate Stress Fu (ksi)	Member Stress All. Hyp. 1 (ksi)	Member Stress All. Hyp. 2 (ksi)	Member Rupture Hyp. 1 (ksi)	Member Rupture Hyp. 2 (ksi)	Member Bearing Hyp. 1 (ksi)	Member Bearing Hyp. 2 (ksi)
A 36	2.9e+004	36	58	0	0	0	0	0	0
A572-50	2.9e+004	50	65	0	0	0	0	0	0

Bolt Properties:

Bolt Label	Bolt Diameter	Hole Diameter	Ultimate Shear	Default End	Default Bolt	Shear Capacity	Shear Capacity

	(in)	(in)	Capacity (kips)	Distance (in)	Spacing (in)	Hyp. 1 (kips)	Hyp. 2 (kips)
5/8 A325-N	0.625	0.6875	16.58	1.125	1.5	0	0
3/4 A325-N	0.75	0.8125	23.87	1.35	1.8	0	0
5/8 A490-N	0.625	0.6875	20.72	1.125	1.5	0	0
3/4 A490-N	0.75	0.8125	29.83	1.35	1.8	0	0

Number Bolts Used By Type:

Bolt Type	Number Bolts
5/8 A325-N	228
5/8 A490-N	6
3/4 A325-N	42
3/4 A490-N	24

Angle Properties:

Angle Type	Angle Size	Long Leg (in)	Short Leg (in)	Thick. (in)	Unit Weight (lbs/ft)	Gross Area (in^2)	w/t Ratio	Radius of Gyration Rx (in)	Radius of Gyration Ry (in)	Radius of Gyration Rz (in)	Number of Angles	Wind Width (in)	Short Edge Dist. (in)	Long Edge Dist. (in)	Optimize Cost Factor	Section Modulus (in^3)
SAE	6X6X0.375	6	6	0.375	14.9	4.36	13.67	1.88	1.88	1.19	1	6	3	0	1.0000	0
SAE	5X5X0.625	5	5	0.625	20	5.86	6.2	1.52	1.52	0.978	1	5	2.5	0	1.0000	0
SAE	5X5X0.375	5	5	0.375	12.3	3.61	11	1.56	1.56	0.99	1	5	2.5	0	1.0000	0
SAE	4X4X0.625	4	4	0.625	15.7	4.61	4.8	1.2	1.2	0.779	1	4	2	0	1.0000	0
SAE	4X4X0.5	4	4	0.5	12.8	3.75	6.25	1.22	1.22	0.782	1	4	2	0	1.0000	0
SAE	4X4X0.3125	4	4	0.3125	8.2	2.4	10.6	1.24	1.24	0.791	1	4	2	0	1.0000	0
SAE	4X4X0.25	4	4	0.25	6.6	1.94	13.5	1.25	1.25	0.795	1	4	2	0	1.0000	0
SAE	3.5X3.5X0.375	3.5	3.5	0.375	8.5	2.48	7.33	1.07	1.07	0.687	1	3.5	1.75	0	1.0000	0
SAE	3.5X3.5X0.3125	3.5	3.5	0.3125	7.2	2.09	9	1.08	1.08	0.69	1	3.5	1.75	0	1.0000	0
SAE	3.5X3.5X0.25	3.5	3.5	0.25	5.8	1.69	11.5	1.09	1.09	0.694	1	3.5	1.75	0	1.0000	0
SAE	3X3X0.5	3	3	0.5	9.4	2.75	4.38	0.898	0.898	0.584	1	3	1.5	0	1.0000	0
SAE	3X3X0.25	3	3	0.25	4.9	1.44	9.75	0.93	0.93	0.592	1	3	1.5	0	1.0000	0
SAE	2.5X2.5X0.3125	2.5	2.5	0.3125	5	1.46	6	0.761	0.761	0.489	1	2.5	1.25	0	1.0000	0
SAE	2.5X2.5X0.25	2.5	2.5	0.25	4.1	1.19	7.75	0.769	0.769	0.491	1	2.5	1.25	0	1.0000	0
SAE	2.5X2.5X0.1875	2.5	2.5	0.1875	3.07	0.902	10.67	0.778	0.778	0.495	1	2.5	1.25	0	1.0000	0
SAE	2X2X0.375	2	2	0.375	4.7	1.36	3	0.594	0.594	0.389	1	2	1	0	1.0000	0
SAE	2X2X0.3125	2	2	0.3125	3.92	1.15	3.8	0.601	0.601	0.39	1	2	1	0	1.0000	0
SAE	2X2X0.25	2	2	0.25	3.19	0.94	5	0.609	0.609	0.391	1	2	1	0	1.0000	0
SAE	2X2X0.1875	2	2	0.1875	2.44	0.71	8	0.617	0.617	0.394	1	2	1	0	1.0000	0
SAE	1.75X1.75X0.1875	1.75	1.75	0.1875	2.12	0.62	6	0.537	0.537	0.343	1	1.75	0.875	0	1.0000	0
BIG	0.1X0.1X1	0.1	0.1	1	0	800	2.17	9.99	9.99	9.99	1	0.1	0.05	0	1.0000	0
Pipe	Pipe3EH	3.5	2.9	0	10.3	2.83	1	1.14	1.14	1.14	1	0	0	0	0.0000	0
Pipe	Pipe4EH	4.5	3.826	0	15	4.14	1	1.48	1.48	1.48	1	0	0	0	0.0000	0
Pipe	Pipe5STD	5.563	5.047	0	14.6	4.03	1	1.88	1.88	1.88	1	0	0	0	0.0000	0
Pipe	Pipe5EH	5.563	4.813	0	20.8	5.72	1	1.85	1.85	1.85	1	0	0	0	0.0000	0
Pipe	Pipe6EH	6.625	5.761	0	28.6	7.88	1	2.2	2.2	2.2	1	0	0	0	0.0000	0
Pipe	Pipe8EHS	8.625	8	0	35.78	9.86	1	2.96	2.96	2.96	1	0	0	0	0.0000	0
Pipe	Pipe3.5EH	4	3.364	0	12.5	3.44	1	1.31	1.31	1.31	1	0	0	0	0.0000	0
Pipe	Pipe6EHS	6.625	5.96	0	24.38	6.71	1	2.22	2.22	2.22	1	0	0	0	0.0000	0
Pipe	P3-437	3.5	2.626	0	15	4.2	1	1.09	1.09	1.09	1	0	0	0	0.0000	0
Pipe	P4-494	4.5	3.512	0	21.4	6.21	1	1.42	1.42	1.42	1	0	0	0	0.0000	0
Pipe	P6-562	6.625	5.5	0	36.6	10.7	1	2.15	2.15	2.15	1	0	0	0	0.0000	0
Pipe	Pipe8XS	8.625	7.625	0	43.39	12.8	1	2.88	2.88	2.88	1	0	0	0	0.0000	0
Pipe	Pipe10XS	10.75	9.75	0	54.74	16.1	1	3.63	3.63	3.63	1	0	0	0	0.0000	0
Pipe	P3-425	3.5	2.65	0	15	4.105	1	1.097	1.097	1.097	1	0	0	0	0.0000	0

Angle Groups:

Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group	Allow. Add. Angle Width For Optimize (in)

Rohn-D1	Rohn Diagonal 1	SAE	1.75X1.75X0.1875	A 36	Truss	Other	None	0.000
Rohn-D2	Rohn Diagonal 2	SAE	2X2X0.1875	A 36	Truss	Other	None	0.000
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	A 36	Truss	Other	None	0.000
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	A 36	Truss	Other	None	0.000
Rohn-D5	Rohn Diagonal 5	SAE	3X3X0.25	A572-50	Truss	Other	None	0.000
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	A572-50	Truss	Other	None	0.000
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	A572-50	Truss	Other	None	0.000
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	A572-50	Beam	Leg	None	0.000
Rohn-L2	Rohn Leg 2	Pipe	Pipe3.5EH	A572-50	Beam	Leg	None	0.000
Rohn-L3	Rohn Leg 3	Pipe	Pipe4EH	A572-50	Beam	Leg	None	0.000
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	A572-50	Beam	Leg	None	0.000
Rohn-L5	Rohn Leg 5	Pipe	Pipe5EH	A572-50	Beam	Leg	None	0.000
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EHS	A572-50	Beam	Leg	None	0.000
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	A572-50	Beam	Leg	None	0.000
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EHS	A572-50	Beam	Leg	None	0.000
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	A 36	Beam	Other	None	0.000
SNB-D1	SNB Diagonal 1	SAE	2X2X0.3125	A 36	Truss	Other	None	0.000
SNB-D2	SNB Diagonal 2	SAE	2X2X0.25	A 36	Truss	Other	None	0.000
SNB-D3	SNB Diagonal 3	SAE	2.5X2.5X0.3125	A 36	Truss	Other	None	0.000
SNB-D4	SNB Diagonal 4	SAE	3X3X0.5	A 36	Truss	Other	None	0.000
SNB-D5	SNB Diagonal 5	SAE	4X4X0.5	A 36	Truss	Other	None	0.000
SNB-D6	SNB Diagonal 6	SAE	4X4X0.625	A 36	Truss	Other	None	0.000
SNB-D7	SNB Diagonal 7	SAE	5X5X0.625	A 36	Truss	Other	None	0.000
SNB-L1	SNB Leg 1	Pipe	P3-437	A 36	Beam	Leg	None	0.000
SNB-L2	SNB Leg 2	Pipe	P4-494	A 36	Beam	Leg	None	0.000
SNB-L3	SNB Leg 3	Pipe	Pipe5EH	A 36	Beam	Leg	None	0.000
SNB-L4	SNB Leg 4	Pipe	P6-562	A 36	Beam	Leg	None	0.000
SNB-L5	SNB Leg 5	Pipe	Pipe8XS	A 36	Beam	Leg	None	0.000
SNB-L6	SNB Leg 6	Pipe	Pipe10XS	A 36	Beam	Leg	None	0.000
Connect	Connect Towers	BIG	0.1X0.1X1	A 36		Other	None	0.000
SNB-H1	SNB Horizontal 1	Pipe	P3-425	A 36	Beam	Other	None	0.000
SNB-H2	SNB Horizontal 2	Pipe	P4-494	A 36	Beam	Other	None	0.000
Rohn-D8	Rohn Diagonal 8	SAE	2X2X0.375	A 36	Truss	Other	None	0.000
WLAC-1	Wind Lacing 1	SAE	2X2X0.25	A 36	Truss	Redundant	None	0.000
WLAC-2	Wind Lacing 2	SAE	2.5X2.5X0.3125	A 36	Truss	Redundant	None	0.000
R-D1-MOD	MODIFICATION - L1.75X1.75x3/16	SAE	1.75X1.75X0.1875	A572-50	Truss	Other	None	0.000
R-D2-MOD	MODIFICATION - L2X2x3/16	SAE	2X2X0.1875	A572-50	Truss	Other	None	0.000
R-D3-MOD	MODIFICATION - L2.5X2.5x1/4	SAE	2.5X2.5X0.25	A572-50	Truss	Other	None	0.000
R-D4-MOD	MODIFICATION - L3x3x1/4	SAE	3X3X0.25	A572-50	Truss	Other	None	0.000
R-D5-MOD	MODIFICATION - L3X3x1/4	SAE	3X3X0.25	A572-50	Truss	Other	None	0.000
R-D6-MOD	MODIFICATION - L3.5X3.5x5/16	SAE	3.5X3.5X0.3125	A572-50	Truss	Other	None	0.000
R-D7-MOD	MODIFICATION - L4X4x5/16	SAE	4X4X0.3125	A572-50	Truss	Other	None	0.000
S-D1-MOD	MODIFICATION - L2X2x5/16	SAE	2X2X0.3125	A572-50	Truss	Other	None	0.000
S-D2-MOD	MODIFICATION - L2x2x1/4	SAE	2X2X0.25	A572-50	Truss	Other	None	0.000
S-D3-MOD	MODIFICATION - L2.5X2.5x5/16	SAE	2.5X2.5X0.3125	A572-50	Truss	Other	None	0.000
S-D4-MOD	MODIFICATION - L3.5X3.5x3/8	SAE	3.5X3.5X0.375	A572-50	Truss	Other	None	0.000
S-D5-MOD	MODIFICATION - L4X4x0.5	SAE	4X4X0.5	A572-50	Truss	Other	None	0.000
S-D6-MOD	MODIFICATION - L5X5x3/8	SAE	5X5X0.375	A572-50	Truss	Other	None	0.000
S-D7-MOD	MODIFICATION - L6X6x3/8	SAE	6X6X0.375	A572-50	Truss	Other	None	0.000

Aggregate Angle Information:

Note: Estimate of surface area reported for painting purposes, not wind loading.

Angle Type	Angle Size	Material Type	Total Length (ft)	Total Surface Area (ft^2)	Total Weight (lbs)
SAE	1.75X1.75X0.1875	A 36	279.43	163.00	592.39
SAE	2X2X0.1875	A 36	258.81	172.54	631.49
SAE	2.5X2.5X0.1875	A 36	151.20	126.00	464.18
SAE	2.5X2.5X0.25	A572-50	79.06	65.89	324.16
SAE	2.5X2.5X0.25	A 36	81.42	67.85	333.83
SAE	3X3X0.25	A572-50	443.36	443.36	2172.46
SAE	3.5X3.5X0.25	A572-50	446.54	520.96	2589.91
SAE	4X4X0.25	A572-50	379.04	505.38	2501.65
SAE	4X4X0.3125	A572-50	123.92	165.23	1016.15
Pipe	Pipe3EH	A572-50	60.05	64.05	618.48

Pipe	Pipe3.5EH	A572-50	60.05	73.70	750.58
Pipe	Pipe4EH	A572-50	60.05	83.32	900.69
Pipe	Pipe5STD	A572-50	60.05	106.18	876.68
Pipe	Pipe5EH	A572-50	60.05	103.84	1248.97
Pipe	Pipe6EHS	A572-50	60.05	125.95	1463.93
Pipe	Pipe6EH	A572-50	120.09	247.91	3434.66
Pipe	Pipe8EHS	A572-50	60.05	166.38	2148.47
SAE	2X2X0.3125	A 36	165.23	110.15	647.69
SAE	2X2X0.25	A 36	225.69	150.46	719.94
SAE	2.5X2.5X0.3125	A 36	470.63	392.19	2353.15
SAE	3X3X0.5	A 36	219.00	219.00	2058.63
SAE	4X4X0.5	A 36	183.26	244.34	2345.69
SAE	4X4X0.625	A 36	199.19	265.58	3127.26
SAE	5X5X0.375	A572-50	205.76	342.94	2530.90
SAE	6X6X0.375	A572-50	222.64	445.29	3317.38
Pipe	P3-437	A 36	60.05	61.31	900.70
Pipe	P4-494	A 36	303.38	405.11	6492.26
Pipe	Pipe5EH	A 36	60.05	103.84	1248.96
Pipe	P6-562	A 36	120.09	242.69	4395.40
Pipe	Pipe8XS	A 36	120.09	325.25	5210.82
Pipe	Pipe10XS	A 36	60.05	205.16	3286.94
BIG	0.1X0.1X1	A 36	150.03	5.00	0.00
Pipe	P3-425	A 36	73.04	74.87	1095.63

Sections:
The adjustment factors below only apply to dead load and wind areas that are calculated for members in the model.
They do not apply to equipment or to manually input dead load and drag areas.

Section Label	Joint Defining Section Bottom	Dead Load Adjust. Factor	Transverse Drag x Area Factor For Face	Longitudinal Drag x Area Factor For Face	Transverse Area Factor (CD From Code)	Longitudinal Area Factor (CD From Code)	Af Flat Factor For Face EIA Only	Ar Round Factor For Face EIA Only	Transverse Drag x Area Factor For All	Longitudinal Drag x Area Factor For All	SAPS Angle Drag x Area Factor	SAPS Round Drag x Area Factor	Force Solid Face
A	RohnBP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
B	RohnCP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
C	RohnDP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
D	RohnEP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
E	RohnFP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
F	RohnGP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
G	RohnHP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
H	RohnIP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None
I	RohnJP	1.000	0.000	0.000	0.000	0.000	0.900	0.900	0.000	0.000	0.000	0.000	None

Angle Member Connectivity:

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ	Bolt Type	# Bolts	# Bolt Holes	# Shear Planes	Connect Leg	Short Edge Dist. (in)	Long Edge Dist. (in)	End Dist. (in)	Bolt Spacing (in)	Rest. Coef.
Rohn-DA1P	Rohn-D1		Tri-Symmetry	RohnAP	RohnAa1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA11	Rohn-D1		Tri-Gen 1	RohnA1	RohnAa2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA12	Rohn-D1		Tri-Gen 2	RohnA2	RohnAaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA2P	Rohn-D1		Tri-Symmetry	RohnAP	RohnAa2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA21	Rohn-D1		Tri-Gen 1	RohnA1	RohnAaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA22	Rohn-D1		Tri-Gen 2	RohnA2	RohnAa1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA3P	Rohn-D1		Tri-Symmetry	RohnAaS	RohnAb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA31	Rohn-D1		Tri-Gen 1	RohnAa1	RohnAb2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA32	Rohn-D1		Tri-Gen 2	RohnAa2	RohnAbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA4P	Rohn-D1		Tri-Symmetry	RohnAaS	RohnAb2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA41	Rohn-D1		Tri-Gen 1	RohnAa1	RohnAbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA42	Rohn-D1		Tri-Gen 2	RohnAa2	RohnAb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA5P	Rohn-D1		Tri-Symmetry	RohnAbS	RohnAc1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA51	Rohn-D1		Tri-Gen 1	RohnAb1	RohnAc2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA52	Rohn-D1		Tri-Gen 2	RohnAb2	RohnAcS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA6P	Rohn-D1		Tri-Symmetry	RohnAbS	RohnAc2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA61	Rohn-D1		Tri-Gen 1	RohnAb1	RohnAcS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA62	Rohn-D1		Tri-Gen 2	RohnAb2	RohnAc1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA7P	Rohn-D1		Tri-Symmetry	RohnAcS	RohnB2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0

Rohn-DA71	Rohn-D1	Tri-Gen 1	RohnAc1	RohnBP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA72	Rohn-D1	Tri-Gen 2	RohnAc2	RohnB1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA8P	Rohn-D1	Tri-Symmetry	RohnAcS	RohnB1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA81	Rohn-D1	Tri-Gen 1	RohnAc1	RohnB2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DA82	Rohn-D1	Tri-Gen 2	RohnAc2	RohnBP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB1P	Rohn-D2	Tri-Symmetry	RohnBP	RohnBa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB11	Rohn-D2	Tri-Gen 1	RohnB1	RohnBa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB12	Rohn-D2	Tri-Gen 2	RohnB2	RohnBaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB2P	Rohn-D2	Tri-Symmetry	RohnBP	RohnBa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB21	Rohn-D2	Tri-Gen 1	RohnB1	RohnBaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB22	Rohn-D2	Tri-Gen 2	RohnB2	RohnBa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB3P	Rohn-D2	Tri-Symmetry	RohnBaS	RohnBb1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB31	Rohn-D2	Tri-Gen 1	RohnBa1	RohnBb2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB32	Rohn-D2	Tri-Gen 2	RohnBa2	RohnBbS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB4P	Rohn-D2	Tri-Symmetry	RohnBaS	RohnBb2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB41	Rohn-D2	Tri-Gen 1	RohnBa1	RohnBbS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB42	Rohn-D2	Tri-Gen 2	RohnBa2	RohnBb1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB5P	Rohn-D2	Tri-Symmetry	RohnBbS	RohnBc1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB51	Rohn-D2	Tri-Gen 1	RohnBb1	RohnBc2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB52	Rohn-D2	Tri-Gen 2	RohnBb2	RohnBcS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB6P	Rohn-D2	Tri-Symmetry	RohnBbS	RohnBc2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB61	Rohn-D2	Tri-Gen 1	RohnBb1	RohnBcS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB62	Rohn-D2	Tri-Gen 2	RohnBb2	RohnBc1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB7P	Rohn-D2	Tri-Symmetry	RohnBcS	RohnC1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB71	Rohn-D2	Tri-Gen 1	RohnBc1	RohnC2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB72	Rohn-D2	Tri-Gen 2	RohnBc2	RohnCP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB8P	Rohn-D2	Tri-Symmetry	RohnBcS	RohnC2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB81	Rohn-D2	Tri-Gen 1	RohnBc1	RohnCP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DB82	Rohn-D2	Tri-Gen 2	RohnBc2	RohnC1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC1P	Rohn-D3	Tri-Symmetry	RohnCP	RohnCa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC11	Rohn-D3	Tri-Gen 1	RohnC1	RohnCa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC12	Rohn-D3	Tri-Gen 2	RohnC2	RohnCaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC2P	Rohn-D3	Tri-Symmetry	RohnCP	RohnCa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC21	Rohn-D3	Tri-Gen 1	RohnC1	RohnCaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC22	Rohn-D3	Tri-Gen 2	RohnC2	RohnCa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC3P	Rohn-D3	Tri-Symmetry	RohnCaS	RohnCb1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC31	Rohn-D3	Tri-Gen 1	RohnCa1	RohnCb2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC32	Rohn-D3	Tri-Gen 2	RohnCa2	RohnCbS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC4P	Rohn-D3	Tri-Symmetry	RohnCaS	RohnCb2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC41	Rohn-D3	Tri-Gen 1	RohnCa1	RohnCbS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC42	Rohn-D3	Tri-Gen 2	RohnCa2	RohnCb1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC5P	R-D3-MOD	Tri-Symmetry	RohnCbS	RohnD1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC51	R-D3-MOD	Tri-Gen 1	RohnCb1	RohnD2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC52	R-D3-MOD	Tri-Gen 2	RohnCb2	RohnDP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC6P	R-D3-MOD	Tri-Symmetry	RohnCbS	RohnD2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC61	R-D3-MOD	Tri-Gen 1	RohnCb1	RohnDP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DC62	R-D3-MOD	Tri-Gen 2	RohnCb2	RohnD1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD1P	Rohn-D4	Tri-Symmetry	RohnDP	RohnDa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD11	Rohn-D4	Tri-Gen 1	RohnD1	RohnDa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD12	Rohn-D4	Tri-Gen 2	RohnD2	RohnDaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD2P	Rohn-D4	Tri-Symmetry	RohnDP	RohnDa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD21	Rohn-D4	Tri-Gen 1	RohnD1	RohnDaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD22	Rohn-D4	Tri-Gen 2	RohnD2	RohnDa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD3P	R-D4-MOD	Tri-Symmetry	RohnDaS	RohnDb1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD31	R-D4-MOD	Tri-Gen 1	RohnDa1	RohnDb2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD32	R-D4-MOD	Tri-Gen 2	RohnDa2	RohnDbS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD4P	R-D4-MOD	Tri-Symmetry	RohnDaS	RohnDb2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD41	R-D4-MOD	Tri-Gen 1	RohnDa1	RohnDbS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD42	R-D4-MOD	Tri-Gen 2	RohnDa2	RohnDb1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD5P	R-D4-MOD	Tri-Symmetry	RohnDbS	RohnE1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD51	R-D4-MOD	Tri-Gen 1	RohnDb1	RohnE2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD52	R-D4-MOD	Tri-Gen 2	RohnDb2	RohnEP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD6P	R-D4-MOD	Tri-Symmetry	RohnDbS	RohnE2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD61	R-D4-MOD	Tri-Gen 1	RohnDb1	RohnEP	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DD62	R-D4-MOD	Tri-Gen 2	RohnDb2	RohnE1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE1P	Rohn-D5	Tri-Symmetry	RohnEP	RohnEa1	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE11	Rohn-D5	Tri-Gen 1	RohnE1	RohnEa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE12	Rohn-D5	Tri-Gen 2	RohnE2	RohnEaS	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE2P	Rohn-D5	Tri-Symmetry	RohnEP	RohnEa2	1	4	0.5	0.5	0.5	5/8	A325-N	1	1	1	Long only	0	0	0	0	0

Rohn-DE21	Rohn-D5	Tri-Gen 1	RohnE1	RohnEaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE22	Rohn-D5	Tri-Gen 2	RohnE2	RohnEa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE3P	Rohn-D5	Tri-Symmetry	RohnEaS	RohnEb1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE31	Rohn-D5	Tri-Gen 1	RohnEa1	RohnEb2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE32	Rohn-D5	Tri-Gen 2	RohnEa2	RohnEbS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE4P	Rohn-D5	Tri-Symmetry	RohnEaS	RohnEb2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE41	Rohn-D5	Tri-Gen 1	RohnEa1	RohnEbS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE42	Rohn-D5	Tri-Gen 2	RohnEa2	RohnEb1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE5P	Rohn-D5	Tri-Symmetry	RohnEbS	RohnF1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE51	Rohn-D5	Tri-Gen 1	RohnEb1	RohnF2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE52	Rohn-D5	Tri-Gen 2	RohnEb2	RohnFP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE6P	Rohn-D5	Tri-Symmetry	RohnEbS	RohnF2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE61	Rohn-D5	Tri-Gen 1	RohnEb1	RohnFP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DE62	Rohn-D5	Tri-Gen 2	RohnEb2	RohnF1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF1P	Rohn-D6	Tri-Symmetry	RohnFP	RohnFa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF11	Rohn-D6	Tri-Gen 1	RohnF1	RohnFa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF12	Rohn-D6	Tri-Gen 2	RohnF2	RohnFaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF2P	Rohn-D6	Tri-Symmetry	RohnFP	RohnFa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF21	Rohn-D6	Tri-Gen 1	RohnF1	RohnFaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF22	Rohn-D6	Tri-Gen 2	RohnF2	RohnFa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF3P	Rohn-D6	Tri-Symmetry	RohnFaS	RohnG1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF31	Rohn-D6	Tri-Gen 1	RohnFa1	RohnG2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF32	Rohn-D6	Tri-Gen 2	RohnFa2	RohnGP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF4P	Rohn-D6	Tri-Symmetry	RohnFaS	RohnG2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF41	Rohn-D6	Tri-Gen 1	RohnFa1	RohnGP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DF42	Rohn-D6	Tri-Gen 2	RohnFa2	RohnG1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG1P	Rohn-D6	Tri-Symmetry	RohnGP	RohnGa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG11	Rohn-D6	Tri-Gen 1	RohnG1	RohnGa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG12	Rohn-D6	Tri-Gen 2	RohnG2	RohnGaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG2P	Rohn-D6	Tri-Symmetry	RohnGP	RohnGa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG21	Rohn-D6	Tri-Gen 1	RohnG1	RohnGaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG22	Rohn-D6	Tri-Gen 2	RohnG2	RohnGa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG3P	Rohn-D6	Tri-Symmetry	RohnGaS	RohnH1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG31	Rohn-D6	Tri-Gen 1	RohnGa1	RohnH2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG32	Rohn-D6	Tri-Gen 2	RohnGa2	RohnHP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG4P	Rohn-D6	Tri-Symmetry	RohnGaS	RohnH2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG41	Rohn-D6	Tri-Gen 1	RohnGa1	RohnHP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DG42	Rohn-D6	Tri-Gen 2	RohnGa2	RohnH1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH1P	Rohn-D7	Tri-Symmetry	RohnHP	RohnHa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH11	Rohn-D7	Tri-Gen 1	RohnH1	RohnHa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH12	Rohn-D7	Tri-Gen 2	RohnH2	RohnHaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH2P	Rohn-D7	Tri-Symmetry	RohnHP	RohnHa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH21	Rohn-D7	Tri-Gen 1	RohnH1	RohnHaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH22	Rohn-D7	Tri-Gen 2	RohnH2	RohnHa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH3P	R-D7-MOD	Tri-Symmetry	RohnHaS	RohnI1	1	4	0.5	0.5	0.5 5/8 A490-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH31	R-D7-MOD	Tri-Gen 1	RohnHa1	RohnI2	1	4	0.5	0.5	0.5 5/8 A490-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH32	R-D7-MOD	Tri-Gen 2	RohnHa2	RohnIP	1	4	0.5	0.5	0.5 5/8 A490-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH4P	R-D7-MOD	Tri-Symmetry	RohnHaS	RohnI2	1	4	0.5	0.5	0.5 5/8 A490-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH41	R-D7-MOD	Tri-Gen 1	RohnHa1	RohnIP	1	4	0.5	0.5	0.5 5/8 A490-N	1	1	1	Long only	0	0	0	0	0
Rohn-DH42	R-D7-MOD	Tri-Gen 2	RohnHa2	RohnI1	1	4	0.5	0.5	0.5 5/8 A490-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI1P	Rohn-D7	Tri-Symmetry	RohnIP	RohnIa1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI11	Rohn-D7	Tri-Gen 1	RohnI1	RohnIa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI12	Rohn-D7	Tri-Gen 2	RohnI2	RohnIaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI2P	Rohn-D7	Tri-Symmetry	RohnIP	RohnIa2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI21	Rohn-D7	Tri-Gen 1	RohnI1	RohnIaS	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI22	Rohn-D7	Tri-Gen 2	RohnI2	RohnIaI	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI3P	Rohn-D7	Tri-Symmetry	RohnIaS	RohnJ1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI31	Rohn-D7	Tri-Gen 1	RohnIa1	RohnJ2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI32	Rohn-D7	Tri-Gen 2	RohnIa2	RohnJP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI4P	Rohn-D7	Tri-Symmetry	RohnIaS	RohnJ2	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI41	Rohn-D7	Tri-Gen 1	RohnIa1	RohnJP	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-DI42	Rohn-D7	Tri-Gen 2	RohnIa2	RohnJ1	1	4	0.5	0.5	0.5 5/8 A325-N	1	1	1	Long only	0	0	0	0	0
Rohn-LA1P	Rohn-L1	Tri-Symmetry	RohnAP	RohnAaS	1	4	1	1	1		0	0	0		0	0	0	0	0
Rohn-LA11	Rohn-L1	Tri-Gen 1	RohnA1	RohnAa1	1	4	1	1	1		0	0	0		0	0	0	0	0
Rohn-LA12	Rohn-L1	Tri-Gen 2	RohnA2	RohnAa2	1	4	1	1	1		0	0	0		0	0	0	0	0
Rohn-LA2P	Rohn-L1	Tri-Symmetry	RohnAaS	RohnAbS	1	4	1	1	1		0	0	0		0	0	0	0	0
Rohn-LA21	Rohn-L1	Tri-Gen 1	RohnAa1	RohnAb1	1	4	1	1	1		0	0	0		0	0	0	0	0
Rohn-LA22	Rohn-L1	Tri-Gen 2	RohnAa2	RohnAb2	1	4	1	1	1		0	0	0		0	0	0	0	0
Rohn-LA3P	Rohn-L1	Tri-Symmetry	RohnAbS	RohnAcS	1	4	1	1	1		0	0	0		0	0	0	0	0

Rohn-LA31	Rohn-L1	Tri-Gen 1	RohnAb1	RohnAc1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LA32	Rohn-L1	Tri-Gen 2	RohnAb2	RohnAc2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LA4P	Rohn-L1	Tri-Symmetry	RohnAcS	RohnBP	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LA41	Rohn-L1	Tri-Gen 1	RohnAc1	RohnB1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LA42	Rohn-L1	Tri-Gen 2	RohnAc2	RohnB2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB1P	Rohn-L2	Tri-Symmetry	RohnBP	RohnBaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB11	Rohn-L2	Tri-Gen 1	RohnB1	RohnBa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB12	Rohn-L2	Tri-Gen 2	RohnB2	RohnBa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB2P	Rohn-L2	Tri-Symmetry	RohnBaS	RohnBbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB21	Rohn-L2	Tri-Gen 1	RohnBa1	RohnBb1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB22	Rohn-L2	Tri-Gen 2	RohnBa2	RohnBb2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB3P	Rohn-L2	Tri-Symmetry	RohnBbS	RohnBcS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB31	Rohn-L2	Tri-Gen 1	RohnBb1	RohnBc1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB32	Rohn-L2	Tri-Gen 2	RohnBb2	RohnBc2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB4P	Rohn-L2	Tri-Symmetry	RohnBcS	RohnCP	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB41	Rohn-L2	Tri-Gen 1	RohnBc1	RohnC1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LB42	Rohn-L2	Tri-Gen 2	RohnBc2	RohnC2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC1P	Rohn-L3	Tri-Symmetry	RohnCP	RohnCaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC11	Rohn-L3	Tri-Gen 1	RohnC1	RohnCa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC12	Rohn-L3	Tri-Gen 2	RohnC2	RohnCa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC2P	Rohn-L3	Tri-Symmetry	RohnCaS	RohnCbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC21	Rohn-L3	Tri-Gen 1	RohnCa1	RohnCb1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC22	Rohn-L3	Tri-Gen 2	RohnCa2	RohnCb2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC3P	Rohn-L3	Tri-Symmetry	RohnCbS	RohnDP	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC31	Rohn-L3	Tri-Gen 1	RohnCb1	RohnD1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LC32	Rohn-L3	Tri-Gen 2	RohnCb2	RohnD2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD1P	Rohn-L4	Tri-Symmetry	RohnDP	RohnDaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD11	Rohn-L4	Tri-Gen 1	RohnD1	RohnDa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD12	Rohn-L4	Tri-Gen 2	RohnD2	RohnDa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD2P	Rohn-L4	Tri-Symmetry	RohnDaS	RohnDbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD21	Rohn-L4	Tri-Gen 1	RohnDa1	RohnDb1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD22	Rohn-L4	Tri-Gen 2	RohnDa2	RohnDb2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD3P	Rohn-L4	Tri-Symmetry	RohnDbS	RohnEP	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD31	Rohn-L4	Tri-Gen 1	RohnDb1	RohnE1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LD32	Rohn-L4	Tri-Gen 2	RohnDb2	RohnE2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE1P	Rohn-L5	Tri-Symmetry	RohnEP	RohnEaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE11	Rohn-L5	Tri-Gen 1	RohnE1	RohnEa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE12	Rohn-L5	Tri-Gen 2	RohnE2	RohnEa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE2P	Rohn-L5	Tri-Symmetry	RohnEaS	RohnEbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE21	Rohn-L5	Tri-Gen 1	RohnEa1	RohnEb1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE22	Rohn-L5	Tri-Gen 2	RohnEa2	RohnEb2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE3P	Rohn-L5	Tri-Symmetry	RohnEbS	RohnFP	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE31	Rohn-L5	Tri-Gen 1	RohnEb1	RohnF1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LE32	Rohn-L5	Tri-Gen 2	RohnEb2	RohnF2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LF1P	Rohn-L6	Tri-Symmetry	RohnFP	RohnFaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LF11	Rohn-L6	Tri-Gen 1	RohnF1	RohnFa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LF12	Rohn-L6	Tri-Gen 2	RohnF2	RohnFa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LF2P	Rohn-L6	Tri-Symmetry	RohnFaS	RohnGP	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LF21	Rohn-L6	Tri-Gen 1	RohnFa1	RohnG1	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LF22	Rohn-L6	Tri-Gen 2	RohnFa2	RohnG2	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LG1P	Rohn-L7	Tri-Symmetry	RohnGP	RohnGaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LG11	Rohn-L7	Tri-Gen 1	RohnG1	RohnGa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LG12	Rohn-L7	Tri-Gen 2	RohnG2	RohnGa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LG2P	Rohn-L7	Tri-Symmetry	RohnGaS	RohnHP	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LG21	Rohn-L7	Tri-Gen 1	RohnGa1	RohnH1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LG22	Rohn-L7	Tri-Gen 2	RohnGa2	RohnH2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LH1P	Rohn-L7	Tri-Symmetry	RohnHP	RohnHaS	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LH11	Rohn-L7	Tri-Gen 1	RohnH1	RohnHa1	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LH12	Rohn-L7	Tri-Gen 2	RohnH2	RohnHa2	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LH2P	Rohn-L7	Tri-Symmetry	RohnHaS	RohnIP	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LH21	Rohn-L7	Tri-Gen 1	RohnHa1	RohnI1	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LH22	Rohn-L7	Tri-Gen 2	RohnHa2	RohnI2	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LI1P	Rohn-L8	Tri-Symmetry	RohnIP	RohnIaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LI11	Rohn-L8	Tri-Gen 1	RohnI1	RohnIa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LI12	Rohn-L8	Tri-Gen 2	RohnI2	RohnIa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Rohn-LI2P	Rohn-L8	Tri-Symmetry	RohnIaS	RohnJP	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LI21	Rohn-L8	Tri-Gen 1	RohnIa1	RohnJ1	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-LI22	Rohn-L8	Tri-Gen 2	RohnIa2	RohnJ2	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Rohn-H1P	Rohn-H1	Tri-Symmetry	RohnAP	RohnA1	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0

Rohn-H11	Rohn-H1	Tri-Gen 1	RohnA1	RohnA2	1	4	0.5	0.5	0.5		0	0	0		0	0	0	0	0
Rohn-H12	Rohn-H1	Tri-Gen 2	RohnA2	RohnAP	1	4	0.5	0.5	0.5		0	0	0		0	0	0	0	0
Rohn-H2P	Rohn-H1	Tri-Symmetry	RohnBP	RohnB1	1	4	0.5	0.5	0.5		0	0	0		0	0	0	0	0
Rohn-H21	Rohn-H1	Tri-Gen 1	RohnB1	RohnB2	1	4	0.5	0.5	0.5		0	0	0		0	0	0	0	0
Rohn-H22	Rohn-H1	Tri-Gen 2	RohnB2	RohnBP	1	4	0.5	0.5	0.5		0	0	0		0	0	0	0	0
SNB-DA1P	SNB-D1	Tri-Symmetry	SNB-AP	SNB-Aa1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA11	SNB-D1	Tri-Gen 1	SNB-A1	SNB-Aa2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA12	SNB-D1	Tri-Gen 2	SNB-A2	SNB-AaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA2P	SNB-D1	Tri-Symmetry	SNB-AP	SNB-Aa2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA21	SNB-D1	Tri-Gen 1	SNB-A1	SNB-AaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA22	SNB-D1	Tri-Gen 2	SNB-A2	SNB-Aa1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA3P	SNB-D1	Tri-Symmetry	SNB-AaS	SNB-Ab1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA31	SNB-D1	Tri-Gen 1	SNB-Aa1	SNB-Ab2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA32	SNB-D1	Tri-Gen 2	SNB-Aa2	SNB-AbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA4P	SNB-D1	Tri-Symmetry	SNB-AaS	SNB-Ab2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA41	SNB-D1	Tri-Gen 1	SNB-Aa1	SNB-AbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA42	SNB-D1	Tri-Gen 2	SNB-Aa2	SNB-Ab1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA5P	SNB-D1	Tri-Symmetry	SNB-AbS	SNB-Ac1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA51	SNB-D1	Tri-Gen 1	SNB-Ab1	SNB-Ac2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA52	SNB-D1	Tri-Gen 2	SNB-Ab2	SNB-AcS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA6P	SNB-D1	Tri-Symmetry	SNB-AbS	SNB-Ac2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA61	SNB-D1	Tri-Gen 1	SNB-Ab1	SNB-AcS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA62	SNB-D1	Tri-Gen 2	SNB-Ab2	SNB-Ac1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA7P	SNB-D1	Tri-Symmetry	SNB-AcS	SNB-B1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA71	SNB-D1	Tri-Gen 1	SNB-Ac1	SNB-B2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA72	SNB-D1	Tri-Gen 2	SNB-Ac2	SNB-BP	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA8P	SNB-D1	Tri-Symmetry	SNB-AcS	SNB-B2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA81	SNB-D1	Tri-Gen 1	SNB-Ac1	SNB-BP	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DA82	SNB-D1	Tri-Gen 2	SNB-Ac2	SNB-B1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB1P	SNB-D2	Tri-Symmetry	SNB-BP	SNB-Ba1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB11	SNB-D2	Tri-Gen 1	SNB-B1	SNB-Ba2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB12	SNB-D2	Tri-Gen 2	SNB-B2	SNB-BaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB2P	SNB-D2	Tri-Symmetry	SNB-BP	SNB-Ba2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB21	SNB-D2	Tri-Gen 1	SNB-B1	SNB-BaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB22	SNB-D2	Tri-Gen 2	SNB-B2	SNB-Ba1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB3P	SNB-D2	Tri-Symmetry	SNB-BaS	SNB-Bb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB31	SNB-D2	Tri-Gen 1	SNB-Ba1	SNB-Bb2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB32	SNB-D2	Tri-Gen 2	SNB-Ba2	SNB-BbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB4P	SNB-D2	Tri-Symmetry	SNB-BaS	SNB-Bb2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB41	SNB-D2	Tri-Gen 1	SNB-Ba1	SNB-BbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB42	SNB-D2	Tri-Gen 2	SNB-Ba2	SNB-Bb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB5P	SNB-D2	Tri-Symmetry	SNB-BbS	SNB-Bc1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB51	SNB-D2	Tri-Gen 1	SNB-Bb1	SNB-Bc2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB52	SNB-D2	Tri-Gen 2	SNB-Bb2	SNB-BcS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB6P	SNB-D2	Tri-Symmetry	SNB-BbS	SNB-Bc2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB61	SNB-D2	Tri-Gen 1	SNB-Bb1	SNB-BcS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB62	SNB-D2	Tri-Gen 2	SNB-Bb2	SNB-Bc1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB7P	SNB-D2	Tri-Symmetry	SNB-BcS	SNB-C1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB71	SNB-D2	Tri-Gen 1	SNB-Bc1	SNB-C2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB72	SNB-D2	Tri-Gen 2	SNB-Bc2	SNB-CP	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB8P	SNB-D2	Tri-Symmetry	SNB-BcS	SNB-C2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB81	SNB-D2	Tri-Gen 1	SNB-Bc1	SNB-CP	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DB82	SNB-D2	Tri-Gen 2	SNB-Bc2	SNB-C1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC1P	SNB-D3	Tri-Symmetry	SNB-CP	SNB-Ca1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC11	SNB-D3	Tri-Gen 1	SNB-C1	SNB-Ca2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC12	SNB-D3	Tri-Gen 2	SNB-C2	SNB-CaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC2P	SNB-D3	Tri-Symmetry	SNB-CP	SNB-Ca2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC21	SNB-D3	Tri-Gen 1	SNB-C1	SNB-CaS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC22	SNB-D3	Tri-Gen 2	SNB-C2	SNB-Cb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC3P	SNB-D3	Tri-Symmetry	SNB-CaS	SNB-Cb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC31	SNB-D3	Tri-Gen 1	SNB-Ca1	SNB-Cb2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC32	SNB-D3	Tri-Gen 2	SNB-Ca2	SNB-CbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC4P	SNB-D3	Tri-Symmetry	SNB-CaS	SNB-Cb2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC41	SNB-D3	Tri-Gen 1	SNB-Ca1	SNB-CbS	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC42	SNB-D3	Tri-Gen 2	SNB-Ca2	SNB-Cb1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC5P	SNB-D3	Tri-Symmetry	SNB-CbS	SNB-D1	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC51	SNB-D3	Tri-Gen 1	SNB-Cb1	SNB-D2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC52	SNB-D3	Tri-Gen 2	SNB-Cb2	SNB-DP	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC6P	SNB-D3	Tri-Symmetry	SNB-CbS	SNB-D2	1	4	0.5	0.5	0.5	5/8 A325-N	1	1	1	Long only	0	0	0	0	0

SNB-DC61	SNB-D3	Tri-Gen 1	SNB-Cb1	SNB-DP	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DC62	SNB-D3	Tri-Gen 2	SNB-Cb2	SNB-D1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD1P	SNB-D3	Tri-Symmetry	SNB-DP	SNB-Da1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD11	SNB-D3	Tri-Gen 1	SNB-D1	SNB-Da2	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD12	SNB-D3	Tri-Gen 2	SNB-D2	SNB-DaS	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD2P	SNB-D3	Tri-Symmetry	SNB-DP	SNB-Da2	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD21	SNB-D3	Tri-Gen 1	SNB-D1	SNB-DaS	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD22	SNB-D3	Tri-Gen 2	SNB-D2	SNB-Da1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD3P	SNB-D3	Tri-Symmetry	SNB-DaS	SNB-Db1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD31	SNB-D3	Tri-Gen 1	SNB-Da1	SNB-Db2	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD32	SNB-D3	Tri-Gen 2	SNB-Da2	SNB-DbS	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD4P	SNB-D3	Tri-Symmetry	SNB-DaS	SNB-Db2	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD41	SNB-D3	Tri-Gen 1	SNB-Da1	SNB-DbS	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD42	SNB-D3	Tri-Gen 2	SNB-Da2	SNB-Db1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD5P	SNB-D3	Tri-Symmetry	SNB-DbS	SNB-E1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD51	SNB-D3	Tri-Gen 1	SNB-Db1	SNB-E2	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD52	SNB-D3	Tri-Gen 2	SNB-Db2	SNB-EP	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD6P	SNB-D3	Tri-Symmetry	SNB-DbS	SNB-E2	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD61	SNB-D3	Tri-Gen 1	SNB-Db1	SNB-EP	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DD62	SNB-D3	Tri-Gen 2	SNB-Db2	SNB-E1	1	4	0.5	0.5	0.5 5/8	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE1P	SNB-D4	Tri-Symmetry	SNB-EP	SNB-Ea1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE11	SNB-D4	Tri-Gen 1	SNB-E1	SNB-Ea2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE12	SNB-D4	Tri-Gen 2	SNB-E2	SNB-EaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE2P	SNB-D4	Tri-Symmetry	SNB-EP	SNB-Ea2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE21	SNB-D4	Tri-Gen 1	SNB-E1	SNB-EaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE22	SNB-D4	Tri-Gen 2	SNB-E2	SNB-Ea1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE3P	SNB-D4	Tri-Symmetry	SNB-EaS	SNB-Eb1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE31	SNB-D4	Tri-Gen 1	SNB-Ea1	SNB-Eb2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE32	SNB-D4	Tri-Gen 2	SNB-Ea2	SNB-EbS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE4P	SNB-D4	Tri-Symmetry	SNB-EaS	SNB-Eb2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE41	SNB-D4	Tri-Gen 1	SNB-Ea1	SNB-EbS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE42	SNB-D4	Tri-Gen 2	SNB-Ea2	SNB-Eb1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE5P	SNB-D4	Tri-Symmetry	SNB-EbS	SNB-F1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE51	SNB-D4	Tri-Gen 1	SNB-Eb1	SNB-F2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE52	SNB-D4	Tri-Gen 2	SNB-Eb2	SNB-FP	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE6P	SNB-D4	Tri-Symmetry	SNB-EbS	SNB-F2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE61	SNB-D4	Tri-Gen 1	SNB-Eb1	SNB-FP	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DE62	SNB-D4	Tri-Gen 2	SNB-Eb2	SNB-F1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF1P	SNB-D5	Tri-Symmetry	SNB-FP	SNB-Fa1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF11	SNB-D5	Tri-Gen 1	SNB-F1	SNB-Fa2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF12	SNB-D5	Tri-Gen 2	SNB-F2	SNB-FaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF2P	SNB-D5	Tri-Symmetry	SNB-FP	SNB-Fa2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF21	SNB-D5	Tri-Gen 1	SNB-F1	SNB-FaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF22	SNB-D5	Tri-Gen 2	SNB-F2	SNB-Fa1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF3P	SNB-D5	Tri-Symmetry	SNB-FaS	SNB-G1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF31	SNB-D5	Tri-Gen 1	SNB-Fa1	SNB-G2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF32	SNB-D5	Tri-Gen 2	SNB-Fa2	SNB-GP	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF4P	SNB-D5	Tri-Symmetry	SNB-FaS	SNB-G2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF41	SNB-D5	Tri-Gen 1	SNB-Fa1	SNB-GP	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DF42	SNB-D5	Tri-Gen 2	SNB-Fa2	SNB-G1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG1P	SNB-D6	Tri-Symmetry	SNB-GP	SNB-Ga1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG11	SNB-D6	Tri-Gen 1	SNB-G1	SNB-Ga2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG12	SNB-D6	Tri-Gen 2	SNB-G2	SNB-GaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG2P	SNB-D6	Tri-Symmetry	SNB-GP	SNB-Ga2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG21	SNB-D6	Tri-Gen 1	SNB-G1	SNB-GaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG22	SNB-D6	Tri-Gen 2	SNB-G2	SNB-Ga1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DG3P	S-D6-MOD	Tri-Symmetry	SNB-GaS	SNB-H1	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DG31	S-D6-MOD	Tri-Gen 1	SNB-Ga1	SNB-H2	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DG32	S-D6-MOD	Tri-Gen 2	SNB-Ga2	SNB-HP	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DG4P	S-D6-MOD	Tri-Symmetry	SNB-GaS	SNB-H2	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DG41	S-D6-MOD	Tri-Gen 1	SNB-Ga1	SNB-HP	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DG42	S-D6-MOD	Tri-Gen 2	SNB-Ga2	SNB-H1	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DH1P	SNB-D6	Tri-Symmetry	SNB-HP	SNB-Ha1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DH11	SNB-D6	Tri-Gen 1	SNB-H1	SNB-Ha2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DH12	SNB-D6	Tri-Gen 2	SNB-H2	SNB-HaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DH2P	SNB-D6	Tri-Symmetry	SNB-HP	SNB-Ha2	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DH21	SNB-D6	Tri-Gen 1	SNB-H1	SNB-HaS	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DH22	SNB-D6	Tri-Gen 2	SNB-H2	SNB-Ha1	1	4	0.5	0.5	0.5 3/4	A325-N	1	1	1	Long only	0	0	0	0	0
SNB-DH3P	S-D6-MOD	Tri-Symmetry	SNB-HaS	SNB-I1	1	4	0.5	0.5	0.5 3/4	A490-N	1	1	1	Long only	0	0	0	0	0

SNB-DH31 S-D6-MOD		Tri-Gen 1	SNB-Ha1	SNB-I2	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DH32 S-D6-MOD		Tri-Gen 2	SNB-Ha2	SNB-IP	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DH4P S-D6-MOD		Tri-Symmetry	SNB-HaS	SNB-I2	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DH41 S-D6-MOD		Tri-Gen 1	SNB-Ha1	SNB-IP	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DH42 S-D6-MOD		Tri-Gen 2	SNB-Ha2	SNB-I1	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI1P S-D7-MOD		Tri-Symmetry	SNB-IP	SNB-Ia1	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI11 S-D7-MOD		Tri-Gen 1	SNB-I1	SNB-Ia2	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI12 S-D7-MOD		Tri-Gen 2	SNB-I2	SNB-IaS	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI2P S-D7-MOD		Tri-Symmetry	SNB-IP	SNB-Ia2	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI21 S-D7-MOD		Tri-Gen 1	SNB-I1	SNB-IaS	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI22 S-D7-MOD		Tri-Gen 2	SNB-I2	SNB-Ia1	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI3P S-D7-MOD		Tri-Symmetry	SNB-IaS	SNB-J1	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI31 S-D7-MOD		Tri-Gen 1	SNB-Ia1	SNB-J2	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI32 S-D7-MOD		Tri-Gen 2	SNB-Ia2	SNB-JP	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI4P S-D7-MOD		Tri-Symmetry	SNB-IaS	SNB-J2	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI41 S-D7-MOD		Tri-Gen 1	SNB-Ia1	SNB-JP	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-DI42 S-D7-MOD		Tri-Gen 2	SNB-Ia2	SNB-J1	1	4	0.5	0.5	0.5	3/4	A490-N	1	1	1	Long only	0	0	0	0	0
SNB-LA1P	SNB-L1	Tri-Symmetry	SNB-AP	SNB-AaS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA11	SNB-L1	Tri-Gen 1	SNB-A1	SNB-Aa1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA12	SNB-L1	Tri-Gen 2	SNB-A2	SNB-Aa2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA2P	SNB-L1	Tri-Symmetry	SNB-AaS	SNB-AbS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA21	SNB-L1	Tri-Gen 1	SNB-Aa1	SNB-Ab1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA22	SNB-L1	Tri-Gen 2	SNB-Aa2	SNB-Ab2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA3P	SNB-L1	Tri-Symmetry	SNB-AbS	SNB-AcS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA31	SNB-L1	Tri-Gen 1	SNB-Ab1	SNB-Ac1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA32	SNB-L1	Tri-Gen 2	SNB-Ab2	SNB-Ac2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA4P	SNB-L1	Tri-Symmetry	SNB-AcS	SNB-BP	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA41	SNB-L1	Tri-Gen 1	SNB-Ac1	SNB-B1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LA42	SNB-L1	Tri-Gen 2	SNB-Ac2	SNB-B2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB1P	SNB-L2	Tri-Symmetry	SNB-BP	SNB-BaS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB11	SNB-L2	Tri-Gen 1	SNB-B1	SNB-Ba1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB12	SNB-L2	Tri-Gen 2	SNB-B2	SNB-Ba2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB2P	SNB-L2	Tri-Symmetry	SNB-BaS	SNB-BbS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB21	SNB-L2	Tri-Gen 1	SNB-Ba1	SNB-Bb1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB22	SNB-L2	Tri-Gen 2	SNB-Ba2	SNB-Bb2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB3P	SNB-L2	Tri-Symmetry	SNB-BbS	SNB-BcS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB31	SNB-L2	Tri-Gen 1	SNB-Bb1	SNB-Bc1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB32	SNB-L2	Tri-Gen 2	SNB-Bb2	SNB-Bc2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB4P	SNB-L2	Tri-Symmetry	SNB-BcS	SNB-CP	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB41	SNB-L2	Tri-Gen 1	SNB-Bc1	SNB-C1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LB42	SNB-L2	Tri-Gen 2	SNB-Bc2	SNB-C2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC1P	SNB-L2	Tri-Symmetry	SNB-CP	SNB-CaS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC11	SNB-L2	Tri-Gen 1	SNB-C1	SNB-Ca1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC12	SNB-L2	Tri-Gen 2	SNB-C2	SNB-Ca2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC2P	SNB-L2	Tri-Symmetry	SNB-CaS	SNB-CbS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC21	SNB-L2	Tri-Gen 1	SNB-Ca1	SNB-Cb1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC22	SNB-L2	Tri-Gen 2	SNB-Ca2	SNB-Cb2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC3P	SNB-L2	Tri-Symmetry	SNB-CbS	SNB-DP	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC31	SNB-L2	Tri-Gen 1	SNB-Cb1	SNB-D1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LC32	SNB-L2	Tri-Gen 2	SNB-Cb2	SNB-D2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD1P	SNB-L3	Tri-Symmetry	SNB-DP	SNB-DaS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD11	SNB-L3	Tri-Gen 1	SNB-D1	SNB-Da1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD12	SNB-L3	Tri-Gen 2	SNB-D2	SNB-Da2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD2P	SNB-L3	Tri-Symmetry	SNB-DaS	SNB-DbS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD21	SNB-L3	Tri-Gen 1	SNB-Da1	SNB-Db1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD22	SNB-L3	Tri-Gen 2	SNB-Da2	SNB-Db2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD3P	SNB-L3	Tri-Symmetry	SNB-DbS	SNB-EP	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD31	SNB-L3	Tri-Gen 1	SNB-Db1	SNB-E1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LD32	SNB-L3	Tri-Gen 2	SNB-Db2	SNB-E2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE1P	SNB-L4	Tri-Symmetry	SNB-EP	SNB-EaS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE11	SNB-L4	Tri-Gen 1	SNB-E1	SNB-Ea1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE12	SNB-L4	Tri-Gen 2	SNB-E2	SNB-Ea2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE2P	SNB-L4	Tri-Symmetry	SNB-EaS	SNB-EbS	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE21	SNB-L4	Tri-Gen 1	SNB-Ea1	SNB-Eb1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE22	SNB-L4	Tri-Gen 2	SNB-Ea2	SNB-Eb2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE3P	SNB-L4	Tri-Symmetry	SNB-EbS	SNB-FP	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE31	SNB-L4	Tri-Gen 1	SNB-Eb1	SNB-F1	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LE32	SNB-L4	Tri-Gen 2	SNB-Eb2	SNB-F2	1	4	1	1	1			0	0	0		0	0	0	0	0
SNB-LF1P	SNB-L4	Tri-Symmetry	SNB-FP	SNB-FaS	1	4	1	1	1			0	0	0		0	0	0	0	0

SNB-LF11	SNB-L4	Tri-Gen 1	SNB-F1	SNB-Fa1	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LF12	SNB-L4	Tri-Gen 2	SNB-F2	SNB-Fa2	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LF2P	SNB-L4	Tri-Symmetry	SNB-FaS	SNB-GP	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LF21	SNB-L4	Tri-Gen 1	SNB-Fa1	SNB-G1	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LF22	SNB-L4	Tri-Gen 2	SNB-Fa2	SNB-G2	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LG1P	SNB-L5	Tri-Symmetry	SNB-GP	SNB-GaS	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LG11	SNB-L5	Tri-Gen 1	SNB-G1	SNB-Ga1	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LG12	SNB-L5	Tri-Gen 2	SNB-G2	SNB-Ga2	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LG2P	SNB-L5	Tri-Symmetry	SNB-GaS	SNB-HP	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LG21	SNB-L5	Tri-Gen 1	SNB-Ga1	SNB-H1	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LG22	SNB-L5	Tri-Gen 2	SNB-Ga2	SNB-H2	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LH1P	SNB-L5	Tri-Symmetry	SNB-HP	SNB-HaS	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LH11	SNB-L5	Tri-Gen 1	SNB-H1	SNB-Ha1	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LH12	SNB-L5	Tri-Gen 2	SNB-H2	SNB-Ha2	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LH2P	SNB-L5	Tri-Symmetry	SNB-HaS	SNB-IP	1	4	0.25	0.25	0.25	0	0	0	0	0	0	0	0
SNB-LH21	SNB-L5	Tri-Gen 1	SNB-Ha1	SNB-I1	1	4	0.25	0.25	0.25	0	0	0	0	0	0	0	0
SNB-LH22	SNB-L5	Tri-Gen 2	SNB-Ha2	SNB-I2	1	4	0.25	0.25	0.25	0	0	0	0	0	0	0	0
SNB-LI1P	SNB-L6	Tri-Symmetry	SNB-IP	SNB-IaS	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LI11	SNB-L6	Tri-Gen 1	SNB-I1	SNB-Ia1	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LI12	SNB-L6	Tri-Gen 2	SNB-I2	SNB-Ia2	1	4	1	1	1	0	0	0	0	0	0	0	0
SNB-LI2P	SNB-L6	Tri-Symmetry	SNB-IaS	SNB-JP	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
SNB-LI21	SNB-L6	Tri-Gen 1	SNB-Ia1	SNB-J1	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
SNB-LI22	SNB-L6	Tri-Gen 2	SNB-Ia2	SNB-J2	1	4	0.5	0.5	0.5	0	0	0	0	0	0	0	0
Connect AP	Connect	Tri-Symmetry	RohnAP	SNB-AP	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect A1	Connect	Tri-Gen 1	RohnA1	SNB-A1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect A2	Connect	Tri-Gen 2	RohnA2	SNB-A2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect AaP	Connect	Tri-Symmetry	RohnAaS	SNB-AaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Aa1	Connect	Tri-Gen 1	RohnAa1	SNB-Aa1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Aa2	Connect	Tri-Gen 2	RohnAa2	SNB-Aa2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect AbP	Connect	Tri-Symmetry	RohnAbS	SNB-AbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ab1	Connect	Tri-Gen 1	RohnAb1	SNB-Ab1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ab2	Connect	Tri-Gen 2	RohnAb2	SNB-Ab2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect AcP	Connect	Tri-Symmetry	RohnAcS	SNB-AcS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ac1	Connect	Tri-Gen 1	RohnAc1	SNB-Ac1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ac2	Connect	Tri-Gen 2	RohnAc2	SNB-Ac2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect BP	Connect	Tri-Symmetry	RohnBP	SNB-BP	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect B1	Connect	Tri-Gen 1	RohnB1	SNB-B1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect B2	Connect	Tri-Gen 2	RohnB2	SNB-B2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect BaP	Connect	Tri-Symmetry	RohnBaS	SNB-BaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ba1	Connect	Tri-Gen 1	RohnBa1	SNB-Ba1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ba2	Connect	Tri-Gen 2	RohnBa2	SNB-Ba2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect BbP	Connect	Tri-Symmetry	RohnBbS	SNB-BbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Bb1	Connect	Tri-Gen 1	RohnBb1	SNB-Bb1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Bb2	Connect	Tri-Gen 2	RohnBb2	SNB-Bb2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect BcP	Connect	Tri-Symmetry	RohnBcS	SNB-BcS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Bc1	Connect	Tri-Gen 1	RohnBc1	SNB-Bc1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Bc2	Connect	Tri-Gen 2	RohnBc2	SNB-Bc2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect CP	Connect	Tri-Symmetry	RohnCP	SNB-CP	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect C1	Connect	Tri-Gen 1	RohnC1	SNB-C1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect C2	Connect	Tri-Gen 2	RohnC2	SNB-C2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect CaP	Connect	Tri-Symmetry	RohnCaS	SNB-CaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ca1	Connect	Tri-Gen 1	RohnCa1	SNB-Ca1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Ca2	Connect	Tri-Gen 2	RohnCa2	SNB-Ca2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect CbP	Connect	Tri-Symmetry	RohnCbS	SNB-CbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Cb1	Connect	Tri-Gen 1	RohnCb1	SNB-Cb1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Cb2	Connect	Tri-Gen 2	RohnCb2	SNB-Cb2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect DP	Connect	Tri-Symmetry	RohnDP	SNB-DP	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect D1	Connect	Tri-Gen 1	RohnD1	SNB-D1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect D2	Connect	Tri-Gen 2	RohnD2	SNB-D2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect DaP	Connect	Tri-Symmetry	RohnDaS	SNB-DaS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Da1	Connect	Tri-Gen 1	RohnDa1	SNB-Da1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Da2	Connect	Tri-Gen 2	RohnDa2	SNB-Da2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect DbP	Connect	Tri-Symmetry	RohnDbS	SNB-DbS	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Db1	Connect	Tri-Gen 1	RohnDb1	SNB-Db1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect Db2	Connect	Tri-Gen 2	RohnDb2	SNB-Db2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect EP	Connect	Tri-Symmetry	RohnEP	SNB-EP	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect E1	Connect	Tri-Gen 1	RohnE1	SNB-E1	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect E2	Connect	Tri-Gen 2	RohnE2	SNB-E2	1	4	1	1	1	0	0	0	0	0	0	0	0
Connect EaP	Connect	Tri-Symmetry	RohnEaS	SNB-EaS	1	4	1	1	1	0	0	0	0	0	0	0	0

Connect Ea1	Connect	Tri-Gen 1	RohnEa1	SNB-Ea1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ea2	Connect	Tri-Gen 2	RohnEa2	SNB-Ea2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect EbP	Connect	Tri-Symmetry	RohnEbS	SNB-EbS	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Eb1	Connect	Tri-Gen 1	RohnEb1	SNB-Eb1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Eb2	Connect	Tri-Gen 2	RohnEb2	SNB-Eb2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect FP	Connect	Tri-Symmetry	RohnFP	SNB-FP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect F1	Connect	Tri-Gen 1	RohnF1	SNB-F1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect F2	Connect	Tri-Gen 2	RohnF2	SNB-F2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect FaP	Connect	Tri-Symmetry	RohnFaS	SNB-FaS	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Fa1	Connect	Tri-Gen 1	RohnFa1	SNB-Fa1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Fa2	Connect	Tri-Gen 2	RohnFa2	SNB-Fa2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect GP	Connect	Tri-Symmetry	RohnGP	SNB-GP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect G1	Connect	Tri-Gen 1	RohnG1	SNB-G1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect G2	Connect	Tri-Gen 2	RohnG2	SNB-G2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect GaP	Connect	Tri-Symmetry	RohnGaS	SNB-GaS	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ga1	Connect	Tri-Gen 1	RohnGa1	SNB-Ga1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ga2	Connect	Tri-Gen 2	RohnGa2	SNB-Ga2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect HP	Connect	Tri-Symmetry	RohnHP	SNB-HP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect H1	Connect	Tri-Gen 1	RohnH1	SNB-H1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect H2	Connect	Tri-Gen 2	RohnH2	SNB-H2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect HaP	Connect	Tri-Symmetry	RohnHaS	SNB-HaS	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ha1	Connect	Tri-Gen 1	RohnHa1	SNB-Ha1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ha2	Connect	Tri-Gen 2	RohnHa2	SNB-Ha2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect IP	Connect	Tri-Symmetry	RohnIP	SNB-IP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect I1	Connect	Tri-Gen 1	RohnI1	SNB-I1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect I2	Connect	Tri-Gen 2	RohnI2	SNB-I2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect IaP	Connect	Tri-Symmetry	RohnIaS	SNB-IaS	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ia1	Connect	Tri-Gen 1	RohnIa1	SNB-Ia1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
Connect Ia2	Connect	Tri-Gen 2	RohnIa2	SNB-Ia2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H1aP	SNB-H1	None	SNB-AP	SNB-WL-A1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H1bP	SNB-H1	None	SNB-WL-A1S	SNB-A1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H1cP	SNB-H1	None	SNB-A1	SNB-WL-A2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H1dP	SNB-H1	None	SNB-WL-A2S	SNB-A2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H1eP	SNB-H1	None	SNB-A2	SNB-WL-A3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H1fP	SNB-H1	None	SNB-WL-A3S	SNB-AP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H2aP	SNB-H1	None	SNB-BP	SNB-WL-B1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H2bP	SNB-H1	None	SNB-WL-B1S	SNB-B1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H2cP	SNB-H1	None	SNB-B1	SNB-WL-B2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H2dP	SNB-H1	None	SNB-WL-B2S	SNB-B2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H2eP	SNB-H1	None	SNB-B2	SNB-WL-B3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H2fP	SNB-H1	None	SNB-WL-B3S	SNB-BP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H3aP	SNB-H1	None	SNB-CP	SNB-WL-C1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H3bP	SNB-H1	None	SNB-WL-C1S	SNB-C1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H3cP	SNB-H1	None	SNB-C1	SNB-WL-C2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H3dP	SNB-H1	None	SNB-WL-C2S	SNB-C2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H3eP	SNB-H1	None	SNB-C2	SNB-WL-C3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H3fP	SNB-H1	None	SNB-WL-C3S	SNB-CP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H4aP	SNB-H1	None	SNB-DP	SNB-WL-D1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H4bP	SNB-H1	None	SNB-WL-D1S	SNB-D1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H4cP	SNB-H1	None	SNB-D1	SNB-WL-D2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H4dP	SNB-H1	None	SNB-WL-D2S	SNB-D2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H4eP	SNB-H1	None	SNB-D2	SNB-WL-D3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H4fP	SNB-H1	None	SNB-WL-D3S	SNB-DP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H5aP	SNB-H2	None	SNB-EP	SNB-WL-E1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H5bP	SNB-H2	None	SNB-WL-E1S	SNB-E1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H5cP	SNB-H2	None	SNB-E1	SNB-WL-E2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H5dP	SNB-H2	None	SNB-WL-E2S	SNB-E2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H5eP	SNB-H2	None	SNB-E2	SNB-WL-E3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H5fP	SNB-H2	None	SNB-WL-E3S	SNB-EP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H6aP	SNB-H2	None	SNB-FP	SNB-WL-F1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H6bP	SNB-H2	None	SNB-WL-F1S	SNB-F1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H6cP	SNB-H2	None	SNB-F1	SNB-WL-F2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H6dP	SNB-H2	None	SNB-WL-F2S	SNB-F2	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H6eP	SNB-H2	None	SNB-F2	SNB-WL-F3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H6fP	SNB-H2	None	SNB-WL-F3S	SNB-FP	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H7aP	SNB-H2	None	SNB-GP	SNB-WL-G1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H7bP	SNB-H2	None	SNB-WL-G1S	SNB-G1	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H7cP	SNB-H2	None	SNB-G1	SNB-WL-G2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0
SNB-H7dP	SNB-H2	None	SNB-WL-G2S	SNB-G2	1	4	1	1	1	0	0	0	0	0	0	0	0	0

SNB-H7eP	SNB-H2	None	SNB-G2	SNB-WL-G3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H7fP	SNB-H2	None	SNB-WL-G3S	SNB-GP	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H8aP	SNB-H2	None	SNB-HP	SNB-WL-H1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H8bP	SNB-H2	None	SNB-WL-H1S	SNB-H1	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H8cP	SNB-H2	None	SNB-H1	SNB-WL-H2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H8dP	SNB-H2	None	SNB-WL-H2S	SNB-H2	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H8eP	SNB-H2	None	SNB-H2	SNB-WL-H3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H8fP	SNB-H2	None	SNB-WL-H3S	SNB-HP	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H9aP	SNB-H2	None	SNB-IP	SNB-WL-I1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H9bP	SNB-H2	None	SNB-WL-I1S	SNB-I1	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H9cP	SNB-H2	None	SNB-I1	SNB-WL-I2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H9dP	SNB-H2	None	SNB-WL-I2S	SNB-I2	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H9eP	SNB-H2	None	SNB-I2	SNB-WL-I3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-H9fP	SNB-H2	None	SNB-WL-I3S	SNB-IP	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-A1P	WLAC-1	None	SNB-WL-A1S	SNB-WL-A2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-A2P	WLAC-1	None	SNB-WL-A2S	SNB-WL-A3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-A3P	WLAC-1	None	SNB-WL-A3S	SNB-WL-A1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-B1P	WLAC-1	None	SNB-WL-B1S	SNB-WL-B2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-B2P	WLAC-1	None	SNB-WL-B2S	SNB-WL-B3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-B3P	WLAC-1	None	SNB-WL-B3S	SNB-WL-B1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-C1P	WLAC-1	None	SNB-WL-C1S	SNB-WL-C2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-C2P	WLAC-1	None	SNB-WL-C2S	SNB-WL-C3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-C3P	WLAC-1	None	SNB-WL-C3S	SNB-WL-C1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-D1P	WLAC-1	None	SNB-WL-D1S	SNB-WL-D2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-D2P	WLAC-1	None	SNB-WL-D2S	SNB-WL-D3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-D3P	WLAC-1	None	SNB-WL-D3S	SNB-WL-D1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-E1P	WLAC-2	None	SNB-WL-E1S	SNB-WL-E2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-E2P	WLAC-2	None	SNB-WL-E2S	SNB-WL-E3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-E3P	WLAC-2	None	SNB-WL-E3S	SNB-WL-E1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-F1P	WLAC-2	None	SNB-WL-F1S	SNB-WL-F2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-F2P	WLAC-2	None	SNB-WL-F2S	SNB-WL-F3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-F3P	WLAC-2	None	SNB-WL-F3S	SNB-WL-F1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-G1P	WLAC-2	None	SNB-WL-G1S	SNB-WL-G2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-G2P	WLAC-2	None	SNB-WL-G2S	SNB-WL-G3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-G3P	WLAC-2	None	SNB-WL-G3S	SNB-WL-G1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-H1P	WLAC-2	None	SNB-WL-H1S	SNB-WL-H2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-H2P	WLAC-2	None	SNB-WL-H2S	SNB-WL-H3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-H3P	WLAC-2	None	SNB-WL-H3S	SNB-WL-H1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-I1P	WLAC-2	None	SNB-WL-I1S	SNB-WL-I2S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-I2P	WLAC-2	None	SNB-WL-I2S	SNB-WL-I3S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0
SNB-WL-I3P	WLAC-2	None	SNB-WL-I3S	SNB-WL-I1S	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0

Member Capacities and Overrides:

Member Label	Group Label	Design Comp. Capacity (kips)	Comp. Control Criterion	Design Tension Capacity (kips)	Tension Control Criterion	L/r	Length (ft)	L/r Comp. Capacity (kips)	Connection Shear Capacity (kips)	Connection Bearing Capacity (kips)	Net Section Tension Capacity (kips)	Rupture Tension Capacity (kips)	RTE End Dist. Tension Capacity (kips)	RTE Edge Dist. Tension Capacity (kips)	Override Comp. Capacity (kips)	Override Comp. Control Criterion	Override Tension Capacity (kips)	Override Tension Control Criterion	Override Face or Member ship	Warnings or Errors
Rohn-DA1P	Rohn-D1	5.454	L/r	7.750	Rupture	160	9.16	5.454	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA11	Rohn-D1	5.454	L/r	7.750	Rupture	160	9.16	5.454	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA12	Rohn-D1	5.454	L/r	7.750	Rupture	160	9.16	5.454	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA2P	Rohn-D1	5.454	L/r	7.750	Rupture	160	9.16	5.454	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA21	Rohn-D1	5.454	L/r	7.750	Rupture	160	9.16	5.454	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA22	Rohn-D1	5.454	L/r	7.750	Rupture	160	9.16	5.454	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA3P	Rohn-D1	5.127	L/r	7.750	Rupture	165	9.45	5.127	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA31	Rohn-D1	5.127	L/r	7.750	Rupture	165	9.45	5.127	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA32	Rohn-D1	5.127	L/r	7.750	Rupture	165	9.45	5.127	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA4P	Rohn-D1	5.127	L/r	7.750	Rupture	165	9.45	5.127	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA41	Rohn-D1	5.127	L/r	7.750	Rupture	165	9.45	5.127	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA42	Rohn-D1	5.127	L/r	7.750	Rupture	165	9.45	5.127	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA5P	Rohn-D1	4.825	L/r	7.750	Rupture	170	9.74	4.825	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA51	Rohn-D1	4.825	L/r	7.750	Rupture	170	9.74	4.825	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA52	Rohn-D1	4.825	L/r	7.750	Rupture	170	9.74	4.825	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	
Rohn-DA6P	Rohn-D1	4.825	L/r	7.750	Rupture	170	9.74	4.825	12.433	13.050	16.022	7.750	0.000	0.000	0.000		0.000		Automatic	

Rohn-DA61	Rohn-D1	4.825	L/r	7.750	Rupture	170	9.74	4.825	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA62	Rohn-D1	4.825	L/r	7.750	Rupture	170	9.74	4.825	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA7P	Rohn-D1	4.546	L/r	7.750	Rupture	176	10.03	4.546	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA71	Rohn-D1	4.546	L/r	7.750	Rupture	176	10.03	4.546	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA72	Rohn-D1	4.546	L/r	7.750	Rupture	176	10.03	4.546	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA8P	Rohn-D1	4.546	L/r	7.750	Rupture	176	10.03	4.546	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA81	Rohn-D1	4.546	L/r	7.750	Rupture	176	10.03	4.546	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DA82	Rohn-D1	4.546	L/r	7.750	Rupture	176	10.03	4.546	12.433	13.050	16.022	7.750	0.000	0.000	0.000	0.000	Automatic
Rohn-DB1P	Rohn-D2	6.480	L/r	8.770	Rupture	157	10.33	6.480	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB11	Rohn-D2	6.480	L/r	8.770	Rupture	157	10.33	6.480	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB12	Rohn-D2	6.480	L/r	8.770	Rupture	157	10.33	6.480	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB2P	Rohn-D2	6.480	L/r	8.770	Rupture	157	10.33	6.480	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB21	Rohn-D2	6.480	L/r	8.770	Rupture	157	10.33	6.480	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB22	Rohn-D2	6.480	L/r	8.770	Rupture	157	10.33	6.480	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB3P	Rohn-D2	6.119	L/r	8.770	Rupture	162	10.63	6.119	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB31	Rohn-D2	6.119	L/r	8.770	Rupture	162	10.63	6.119	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB32	Rohn-D2	6.119	L/r	8.770	Rupture	162	10.63	6.119	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB4P	Rohn-D2	6.119	L/r	8.770	Rupture	162	10.63	6.119	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB41	Rohn-D2	6.119	L/r	8.770	Rupture	162	10.63	6.119	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB42	Rohn-D2	6.119	L/r	8.770	Rupture	162	10.63	6.119	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB5P	Rohn-D2	5.786	L/r	8.770	Rupture	167	10.93	5.786	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB51	Rohn-D2	5.786	L/r	8.770	Rupture	167	10.93	5.786	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB52	Rohn-D2	5.786	L/r	8.770	Rupture	167	10.93	5.786	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB6P	Rohn-D2	5.786	L/r	8.770	Rupture	167	10.93	5.786	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB61	Rohn-D2	5.786	L/r	8.770	Rupture	167	10.93	5.786	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB62	Rohn-D2	5.786	L/r	8.770	Rupture	167	10.93	5.786	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB7P	Rohn-D2	5.476	L/r	8.770	Rupture	171	11.24	5.476	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB71	Rohn-D2	5.476	L/r	8.770	Rupture	171	11.24	5.476	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB72	Rohn-D2	5.476	L/r	8.770	Rupture	171	11.24	5.476	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB8P	Rohn-D2	5.476	L/r	8.770	Rupture	171	11.24	5.476	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB81	Rohn-D2	5.476	L/r	8.770	Rupture	171	11.24	5.476	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DB82	Rohn-D2	5.476	L/r	8.770	Rupture	171	11.24	5.476	12.433	13.050	18.958	8.770	0.000	0.000	0.000	0.000	Automatic
Rohn-DC1P	Rohn-D3	9.017	L/r	9.787	Rupture	150	12.40	9.017	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC11	Rohn-D3	9.017	L/r	9.787	Rupture	150	12.40	9.017	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC12	Rohn-D3	9.017	L/r	9.787	Rupture	150	12.40	9.017	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC2P	Rohn-D3	9.017	L/r	9.787	Rupture	150	12.40	9.017	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC21	Rohn-D3	9.017	L/r	9.787	Rupture	150	12.40	9.017	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC22	Rohn-D3	9.017	L/r	9.787	Rupture	150	12.40	9.017	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC3P	Rohn-D3	8.468	L/r	9.787	Rupture	155	12.80	8.468	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC31	Rohn-D3	8.468	L/r	9.787	Rupture	155	12.80	8.468	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC32	Rohn-D3	8.468	L/r	9.787	Rupture	155	12.80	8.468	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC4P	Rohn-D3	8.468	L/r	9.787	Rupture	155	12.80	8.468	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC41	Rohn-D3	8.468	L/r	9.787	Rupture	155	12.80	8.468	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC42	Rohn-D3	8.468	L/r	9.787	Rupture	155	12.80	8.468	12.433	13.050	25.222	9.787	0.000	0.000	0.000	0.000	Automatic
Rohn-DC5P	R-D3-MOD	10.368	L/r	12.433	Shear	161	13.18	10.368	12.433	19.500	37.225	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DC51	R-D3-MOD	10.368	L/r	12.433	Shear	161	13.18	10.368	12.433	19.500	37.225	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DC52	R-D3-MOD	10.368	L/r	12.433	Shear	161	13.18	10.368	12.433	19.500	37.225	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DC6P	R-D3-MOD	10.368	L/r	12.433	Shear	161	13.18	10.368	12.433	19.500	37.225	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DC61	R-D3-MOD	10.368	L/r	12.433	Shear	161	13.18	10.368	12.433	19.500	37.225	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DC62	R-D3-MOD	10.368	L/r	12.433	Shear	161	13.18	10.368	12.433	19.500	37.225	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD1P	Rohn-D4	9.776	L/r	12.433	Shear	166	13.57	9.776	12.433	17.400	33.216	13.050	0.000	0.000	0.000	0.000	Automatic
Rohn-DD11	Rohn-D4	9.776	L/r	12.433	Shear	166	13.57	9.776	12.433	17.400	33.216	13.050	0.000	0.000	0.000	0.000	Automatic
Rohn-DD12	Rohn-D4	9.776	L/r	12.433	Shear	166	13.57	9.776	12.433	17.400	33.216	13.050	0.000	0.000	0.000	0.000	Automatic
Rohn-DD2P	Rohn-D4	9.776	L/r	12.433	Shear	166	13.57	9.776	12.433	17.400	33.216	13.050	0.000	0.000	0.000	0.000	Automatic
Rohn-DD21	Rohn-D4	9.776	L/r	12.433	Shear	166	13.57	9.776	12.433	17.400	33.216	13.050	0.000	0.000	0.000	0.000	Automatic
Rohn-DD22	Rohn-D4	9.776	L/r	12.433	Shear	166	13.57	9.776	12.433	17.400	33.216	13.050	0.000	0.000	0.000	0.000	Automatic
Rohn-DD3P	R-D4-MOD	12.433	Shear	12.433	Shear	142	13.98	16.211	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD31	R-D4-MOD	12.433	Shear	12.433	Shear	142	13.98	16.211	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD32	R-D4-MOD	12.433	Shear	12.433	Shear	142	13.98	16.211	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD4P	R-D4-MOD	12.433	Shear	12.433	Shear	142	13.98	16.211	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD41	R-D4-MOD	12.433	Shear	12.433	Shear	142	13.98	16.211	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD42	R-D4-MOD	12.433	Shear	12.433	Shear	142	13.98	16.211	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD5P	R-D4-MOD	12.433	Shear	12.433	Shear	146	14.37	15.340	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD51	R-D4-MOD	12.433	Shear	12.433	Shear	146	14.37	15.340	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD52	R-D4-MOD	12.433	Shear	12.433	Shear	146	14.37	15.340	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD6P	R-D4-MOD	12.433	Shear	12.433	Shear	146	14.37	15.340	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD61	R-D4-MOD	12.433	Shear	12.433	Shear	146	14.37	15.340	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DD62	R-D4-MOD	12.433	Shear	12.433	Shear	146	14.37	15.340	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE1P	Rohn-D5	12.433	Shear	12.433	Shear	150	14.77	14.514	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic

Rohn-DE11	Rohn-D5	12.433	Shear	12.433	Shear	150	14.77	14.514	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE12	Rohn-D5	12.433	Shear	12.433	Shear	150	14.77	14.514	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE2P	Rohn-D5	12.433	Shear	12.433	Shear	150	14.77	14.514	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE21	Rohn-D5	12.433	Shear	12.433	Shear	150	14.77	14.514	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE22	Rohn-D5	12.433	Shear	12.433	Shear	150	14.77	14.514	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE3P	Rohn-D5	12.433	Shear	12.433	Shear	154	15.19	13.730	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE31	Rohn-D5	12.433	Shear	12.433	Shear	154	15.19	13.730	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE32	Rohn-D5	12.433	Shear	12.433	Shear	154	15.19	13.730	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE4P	Rohn-D5	12.433	Shear	12.433	Shear	154	15.19	13.730	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE41	Rohn-D5	12.433	Shear	12.433	Shear	154	15.19	13.730	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE42	Rohn-D5	12.433	Shear	12.433	Shear	154	15.19	13.730	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE5P	Rohn-D5	12.433	Shear	12.433	Shear	158	15.59	13.033	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE51	Rohn-D5	12.433	Shear	12.433	Shear	158	15.59	13.033	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE52	Rohn-D5	12.433	Shear	12.433	Shear	158	15.59	13.033	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE6P	Rohn-D5	12.433	Shear	12.433	Shear	158	15.59	13.033	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE61	Rohn-D5	12.433	Shear	12.433	Shear	158	15.59	13.033	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DE62	Rohn-D5	12.433	Shear	12.433	Shear	158	15.59	13.033	12.433	19.500	46.366	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF1P	Rohn-D6	12.433	Shear	12.433	Shear	153	17.75	16.216	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF11	Rohn-D6	12.433	Shear	12.433	Shear	153	17.75	16.216	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF12	Rohn-D6	12.433	Shear	12.433	Shear	153	17.75	16.216	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF2P	Rohn-D6	12.433	Shear	12.433	Shear	153	17.75	16.216	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF21	Rohn-D6	12.433	Shear	12.433	Shear	153	17.75	16.216	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF22	Rohn-D6	12.433	Shear	12.433	Shear	153	17.75	16.216	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF3P	Rohn-D6	12.433	Shear	12.433	Shear	158	18.32	15.227	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF31	Rohn-D6	12.433	Shear	12.433	Shear	158	18.32	15.227	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF32	Rohn-D6	12.433	Shear	12.433	Shear	158	18.32	15.227	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF4P	Rohn-D6	12.433	Shear	12.433	Shear	158	18.32	15.227	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF41	Rohn-D6	12.433	Shear	12.433	Shear	158	18.32	15.227	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DF42	Rohn-D6	12.433	Shear	12.433	Shear	158	18.32	15.227	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG1P	Rohn-D6	12.433	Shear	12.433	Shear	163	18.89	14.315	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG11	Rohn-D6	12.433	Shear	12.433	Shear	163	18.89	14.315	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG12	Rohn-D6	12.433	Shear	12.433	Shear	163	18.89	14.315	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG2P	Rohn-D6	12.433	Shear	12.433	Shear	163	18.89	14.315	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG21	Rohn-D6	12.433	Shear	12.433	Shear	163	18.89	14.315	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG22	Rohn-D6	12.433	Shear	12.433	Shear	163	18.89	14.315	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG3P	Rohn-D6	12.433	Shear	12.433	Shear	168	19.47	13.474	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG31	Rohn-D6	12.433	Shear	12.433	Shear	168	19.47	13.474	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG32	Rohn-D6	12.433	Shear	12.433	Shear	168	19.47	13.474	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG4P	Rohn-D6	12.433	Shear	12.433	Shear	168	19.47	13.474	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG41	Rohn-D6	12.433	Shear	12.433	Shear	168	19.47	13.474	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DG42	Rohn-D6	12.433	Shear	12.433	Shear	168	19.47	13.474	12.433	19.500	55.506	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH1P	Rohn-D7	12.433	Shear	12.433	Shear	151	20.06	19.124	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH11	Rohn-D7	12.433	Shear	12.433	Shear	151	20.06	19.124	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH12	Rohn-D7	12.433	Shear	12.433	Shear	151	20.06	19.124	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH2P	Rohn-D7	12.433	Shear	12.433	Shear	151	20.06	19.124	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH21	Rohn-D7	12.433	Shear	12.433	Shear	151	20.06	19.124	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH22	Rohn-D7	12.433	Shear	12.433	Shear	151	20.06	19.124	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DH3P	R-D7-MOD	15.542	Shear	15.542	Shear	157	20.65	22.091	15.542	24.375	79.895	18.281	0.000	0.000	0.000	0.000	Automatic
Rohn-DH31	R-D7-MOD	15.542	Shear	15.542	Shear	157	20.65	22.091	15.542	24.375	79.895	18.281	0.000	0.000	0.000	0.000	Automatic
Rohn-DH32	R-D7-MOD	15.542	Shear	15.542	Shear	157	20.65	22.091	15.542	24.375	79.895	18.281	0.000	0.000	0.000	0.000	Automatic
Rohn-DH4P	R-D7-MOD	15.542	Shear	15.542	Shear	157	20.65	22.091	15.542	24.375	79.895	18.281	0.000	0.000	0.000	0.000	Automatic
Rohn-DH41	R-D7-MOD	15.542	Shear	15.542	Shear	157	20.65	22.091	15.542	24.375	79.895	18.281	0.000	0.000	0.000	0.000	Automatic
Rohn-DH42	R-D7-MOD	15.542	Shear	15.542	Shear	157	20.65	22.091	15.542	24.375	79.895	18.281	0.000	0.000	0.000	0.000	Automatic
Rohn-DI1P	Rohn-D7	12.433	Shear	12.433	Shear	160	21.25	17.033	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI11	Rohn-D7	12.433	Shear	12.433	Shear	160	21.25	17.033	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI12	Rohn-D7	12.433	Shear	12.433	Shear	160	21.25	17.033	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI2P	Rohn-D7	12.433	Shear	12.433	Shear	160	21.25	17.033	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI21	Rohn-D7	12.433	Shear	12.433	Shear	160	21.25	17.033	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI22	Rohn-D7	12.433	Shear	12.433	Shear	160	21.25	17.033	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI3P	Rohn-D7	12.433	Shear	12.433	Shear	165	21.86	16.101	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI31	Rohn-D7	12.433	Shear	12.433	Shear	165	21.86	16.101	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI32	Rohn-D7	12.433	Shear	12.433	Shear	165	21.86	16.101	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI4P	Rohn-D7	12.433	Shear	12.433	Shear	165	21.86	16.101	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI41	Rohn-D7	12.433	Shear	12.433	Shear	165	21.86	16.101	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-DI42	Rohn-D7	12.433	Shear	12.433	Shear	165	21.86	16.101	12.433	19.500	64.647	14.625	0.000	0.000	0.000	0.000	Automatic
Rohn-LA1P	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA11	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA12	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA2P	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic

Rohn-LA21	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA22	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA3P	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA31	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA32	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA4P	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA41	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LA42	Rohn-L1	103.968	L/r	127.350	Net Sect	53	5.00	103.968	0.000	0.000	127.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB1P	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB11	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB12	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB2P	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB21	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB22	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB3P	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB31	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB32	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB4P	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB41	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LB42	Rohn-L2	132.756	L/r	154.800	Net Sect	46	5.00	132.756	0.000	0.000	154.800	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC1P	Rohn-L3	150.478	L/r	186.300	Net Sect	54	6.67	150.478	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC11	Rohn-L3	150.478	L/r	186.300	Net Sect	54	6.67	150.478	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC12	Rohn-L3	150.478	L/r	186.300	Net Sect	54	6.67	150.478	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC2P	Rohn-L3	150.285	L/r	186.300	Net Sect	54	6.69	150.285	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC21	Rohn-L3	150.285	L/r	186.300	Net Sect	54	6.69	150.285	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC22	Rohn-L3	150.285	L/r	186.300	Net Sect	54	6.69	150.285	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC3P	Rohn-L3	150.478	L/r	186.300	Net Sect	54	6.67	150.478	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC31	Rohn-L3	150.478	L/r	186.300	Net Sect	54	6.67	150.478	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LC32	Rohn-L3	150.478	L/r	186.300	Net Sect	54	6.67	150.478	0.000	0.000	186.300	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD1P	Rohn-L4	158.870	L/r	181.350	Net Sect	43	6.67	158.870	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD11	Rohn-L4	158.870	L/r	181.350	Net Sect	43	6.67	158.870	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD12	Rohn-L4	158.870	L/r	181.350	Net Sect	43	6.67	158.870	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD2P	Rohn-L4	158.744	L/r	181.350	Net Sect	43	6.69	158.744	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD21	Rohn-L4	158.744	L/r	181.350	Net Sect	43	6.69	158.744	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD22	Rohn-L4	158.744	L/r	181.350	Net Sect	43	6.69	158.744	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD3P	Rohn-L4	158.870	L/r	181.350	Net Sect	43	6.67	158.870	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD31	Rohn-L4	158.870	L/r	181.350	Net Sect	43	6.67	158.870	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LD32	Rohn-L4	158.870	L/r	181.350	Net Sect	43	6.67	158.870	0.000	0.000	181.350	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE1P	Rohn-L5	224.520	L/r	257.400	Net Sect	43	6.67	224.520	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE11	Rohn-L5	224.520	L/r	257.400	Net Sect	43	6.67	224.520	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE12	Rohn-L5	224.520	L/r	257.400	Net Sect	43	6.67	224.520	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE2P	Rohn-L5	224.335	L/r	257.400	Net Sect	43	6.69	224.335	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE21	Rohn-L5	224.335	L/r	257.400	Net Sect	43	6.69	224.335	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE22	Rohn-L5	224.335	L/r	257.400	Net Sect	43	6.69	224.335	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE3P	Rohn-L5	224.520	L/r	257.400	Net Sect	43	6.67	224.520	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE31	Rohn-L5	224.520	L/r	257.400	Net Sect	43	6.67	224.520	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LE32	Rohn-L5	224.520	L/r	257.400	Net Sect	43	6.67	224.520	0.000	0.000	257.400	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LF1P	Rohn-L6	243.786	L/r	301.950	Net Sect	54	10.01	243.786	0.000	0.000	301.950	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LF11	Rohn-L6	243.786	L/r	301.950	Net Sect	54	10.01	243.786	0.000	0.000	301.950	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LF12	Rohn-L6	243.786	L/r	301.950	Net Sect	54	10.01	243.786	0.000	0.000	301.950	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LF2P	Rohn-L6	286.222	L/r	301.950	Net Sect	27	10.01	286.222	0.000	0.000	301.950	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LF21	Rohn-L6	286.222	L/r	301.950	Net Sect	27	10.01	286.222	0.000	0.000	301.950	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LF22	Rohn-L6	286.222	L/r	301.950	Net Sect	27	10.01	286.222	0.000	0.000	301.950	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LG1P	Rohn-L7	285.178	L/r	354.599	Net Sect	55	10.01	285.178	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LG11	Rohn-L7	285.178	L/r	354.599	Net Sect	55	10.01	285.178	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LG12	Rohn-L7	285.178	L/r	354.599	Net Sect	55	10.01	285.178	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LG2P	Rohn-L7	285.178	L/r	354.599	Net Sect	55	10.01	285.178	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LG21	Rohn-L7	285.178	L/r	354.599	Net Sect	55	10.01	285.178	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LG22	Rohn-L7	285.178	L/r	354.599	Net Sect	55	10.01	285.178	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LH1P	Rohn-L7	335.801	L/r	354.599	Net Sect	27	10.01	335.801	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LH11	Rohn-L7	335.801	L/r	354.599	Net Sect	27	10.01	335.801	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LH12	Rohn-L7	335.801	L/r	354.599	Net Sect	27	10.01	335.801	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LH2P	Rohn-L7	335.801	L/r	354.599	Net Sect	27	10.01	335.801	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LH21	Rohn-L7	335.801	L/r	354.599	Net Sect	27	10.01	335.801	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LH22	Rohn-L7	335.801	L/r	354.599	Net Sect	27	10.01	335.801	0.000	0.000	354.599	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LI1P	Rohn-L8	393.385	L/r	443.699	Net Sect	41	10.01	393.385	0.000	0.000	443.699	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LI11	Rohn-L8	393.385	L/r	443.699	Net Sect	41	10.01	393.385	0.000	0.000	443.699	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LI12	Rohn-L8	393.385	L/r	443.699	Net Sect	41	10.01	393.385	0.000	0.000	443.699	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LI2P	Rohn-L8	430.547	L/r	443.699	Net Sect	20	10.01	430.547	0.000	0.000	443.699	0.000	0.000	0.000	0.000	0.000	Automatic

Rohn-LI21	Rohn-L8	430.547	L/r	443.699	Net Sect	20	10.01	430.547	0.000	0.000	443.699	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-LI22	Rohn-L8	430.547	L/r	443.699	Net Sect	20	10.01	430.547	0.000	0.000	443.699	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-H1P	Rohn-H1	8.108	L/r	20.088	Net Sect	131	7.50	8.108	0.000	0.000	20.088	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-H11	Rohn-H1	8.108	L/r	20.088	Net Sect	131	7.50	8.108	0.000	0.000	20.088	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-H12	Rohn-H1	8.108	L/r	20.088	Net Sect	131	7.50	8.108	0.000	0.000	20.088	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-H2P	Rohn-H1	5.818	L/r	20.088	Net Sect	155	8.87	5.818	0.000	0.000	20.088	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-H21	Rohn-H1	5.818	L/r	20.088	Net Sect	155	8.87	5.818	0.000	0.000	20.088	0.000	0.000	0.000	0.000	0.000	Automatic
Rohn-H22	Rohn-H1	5.818	L/r	20.088	Net Sect	155	8.87	5.818	0.000	0.000	20.088	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-DA1P	SNB-D1	12.433	Shear	12.433	Shear	101	6.54	21.874	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA11	SNB-D1	12.433	Shear	12.433	Shear	101	6.54	21.874	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA12	SNB-D1	12.433	Shear	12.433	Shear	101	6.54	21.874	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA2P	SNB-D1	12.433	Shear	12.433	Shear	101	6.54	21.874	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA21	SNB-D1	12.433	Shear	12.433	Shear	101	6.54	21.874	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA22	SNB-D1	12.433	Shear	12.433	Shear	101	6.54	21.874	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA3P	SNB-D1	12.433	Shear	12.433	Shear	104	6.76	21.074	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA31	SNB-D1	12.433	Shear	12.433	Shear	104	6.76	21.074	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA32	SNB-D1	12.433	Shear	12.433	Shear	104	6.76	21.074	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA4P	SNB-D1	12.433	Shear	12.433	Shear	104	6.76	21.074	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA41	SNB-D1	12.433	Shear	12.433	Shear	104	6.76	21.074	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA42	SNB-D1	12.433	Shear	12.433	Shear	104	6.76	21.074	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA5P	SNB-D1	12.433	Shear	12.433	Shear	108	7.00	20.244	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA51	SNB-D1	12.433	Shear	12.433	Shear	108	7.00	20.244	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA52	SNB-D1	12.433	Shear	12.433	Shear	108	7.00	20.244	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA6P	SNB-D1	12.433	Shear	12.433	Shear	108	7.00	20.244	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA61	SNB-D1	12.433	Shear	12.433	Shear	108	7.00	20.244	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA62	SNB-D1	12.433	Shear	12.433	Shear	108	7.00	20.244	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA7P	SNB-D1	12.433	Shear	12.433	Shear	111	7.24	19.391	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA71	SNB-D1	12.433	Shear	12.433	Shear	111	7.24	19.391	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA72	SNB-D1	12.433	Shear	12.433	Shear	111	7.24	19.391	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA8P	SNB-D1	12.433	Shear	12.433	Shear	111	7.24	19.391	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA81	SNB-D1	12.433	Shear	12.433	Shear	111	7.24	19.391	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DA82	SNB-D1	12.433	Shear	12.433	Shear	111	7.24	19.391	12.433	21.750	30.509	14.616	0.000	0.000	0.000	0.000	Automatic
SNB-DB1P	SNB-D2	12.433	Shear	11.693	Rupture	115	7.49	15.192	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB11	SNB-D2	12.433	Shear	11.693	Rupture	115	7.49	15.192	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB12	SNB-D2	12.433	Shear	11.693	Rupture	115	7.49	15.192	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB2P	SNB-D2	12.433	Shear	11.693	Rupture	115	7.49	15.192	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB21	SNB-D2	12.433	Shear	11.693	Rupture	115	7.49	15.192	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB22	SNB-D2	12.433	Shear	11.693	Rupture	115	7.49	15.192	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB3P	SNB-D2	12.433	Shear	11.693	Rupture	119	7.75	14.472	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB31	SNB-D2	12.433	Shear	11.693	Rupture	119	7.75	14.472	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB32	SNB-D2	12.433	Shear	11.693	Rupture	119	7.75	14.472	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB4P	SNB-D2	12.433	Shear	11.693	Rupture	119	7.75	14.472	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB41	SNB-D2	12.433	Shear	11.693	Rupture	119	7.75	14.472	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB42	SNB-D2	12.433	Shear	11.693	Rupture	119	7.75	14.472	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB5P	SNB-D2	12.433	Shear	11.693	Rupture	123	8.01	13.747	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB51	SNB-D2	12.433	Shear	11.693	Rupture	123	8.01	13.747	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB52	SNB-D2	12.433	Shear	11.693	Rupture	123	8.01	13.747	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB6P	SNB-D2	12.433	Shear	11.693	Rupture	123	8.01	13.747	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB61	SNB-D2	12.433	Shear	11.693	Rupture	123	8.01	13.747	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB62	SNB-D2	12.433	Shear	11.693	Rupture	123	8.01	13.747	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB7P	SNB-D2	12.433	Shear	11.693	Rupture	127	8.28	13.020	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB71	SNB-D2	12.433	Shear	11.693	Rupture	127	8.28	13.020	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB72	SNB-D2	12.433	Shear	11.693	Rupture	127	8.28	13.020	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB8P	SNB-D2	12.433	Shear	11.693	Rupture	127	8.28	13.020	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB81	SNB-D2	12.433	Shear	11.693	Rupture	127	8.28	13.020	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DB82	SNB-D2	12.433	Shear	11.693	Rupture	127	8.28	13.020	12.433	17.400	25.060	11.693	0.000	0.000	0.000	0.000	Automatic
SNB-DC1P	SNB-D3	12.433	Shear	12.433	Shear	119	9.66	22.579	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC11	SNB-D3	12.433	Shear	12.433	Shear	119	9.66	22.579	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC12	SNB-D3	12.433	Shear	12.433	Shear	119	9.66	22.579	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC2P	SNB-D3	12.433	Shear	12.433	Shear	119	9.66	22.579	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC21	SNB-D3	12.433	Shear	12.433	Shear	119	9.66	22.579	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC22	SNB-D3	12.433	Shear	12.433	Shear	119	9.66	22.579	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC3P	SNB-D3	12.433	Shear	12.433	Shear	123	10.01	21.388	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC31	SNB-D3	12.433	Shear	12.433	Shear	123	10.01	21.388	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC32	SNB-D3	12.433	Shear	12.433	Shear	123	10.01	21.388	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC4P	SNB-D3	12.433	Shear	12.433	Shear	123	10.01	21.388	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC41	SNB-D3	12.433	Shear	12.433	Shear	123	10.01	21.388	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC42	SNB-D3	12.433	Shear	12.433	Shear	123	10.01	21.388	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC5P	SNB-D3	12.433	Shear	12.433	Shear	127	10.34	20.280	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic

SNB-DC51	SNB-D3	12.433	Shear	12.433	Shear	127	10.34	20.280	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC52	SNB-D3	12.433	Shear	12.433	Shear	127	10.34	20.280	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC6P	SNB-D3	12.433	Shear	12.433	Shear	127	10.34	20.280	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC61	SNB-D3	12.433	Shear	12.433	Shear	127	10.34	20.280	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DC62	SNB-D3	12.433	Shear	12.433	Shear	127	10.34	20.280	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD1P	SNB-D3	12.433	Shear	12.433	Shear	131	10.69	19.128	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD11	SNB-D3	12.433	Shear	12.433	Shear	131	10.69	19.128	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD12	SNB-D3	12.433	Shear	12.433	Shear	131	10.69	19.128	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD2P	SNB-D3	12.433	Shear	12.433	Shear	131	10.69	19.128	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD21	SNB-D3	12.433	Shear	12.433	Shear	131	10.69	19.128	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD22	SNB-D3	12.433	Shear	12.433	Shear	131	10.69	19.128	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD3P	SNB-D3	12.433	Shear	12.433	Shear	136	11.06	17.913	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD31	SNB-D3	12.433	Shear	12.433	Shear	136	11.06	17.913	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD32	SNB-D3	12.433	Shear	12.433	Shear	136	11.06	17.913	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD4P	SNB-D3	12.433	Shear	12.433	Shear	136	11.06	17.913	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD41	SNB-D3	12.433	Shear	12.433	Shear	136	11.06	17.913	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD42	SNB-D3	12.433	Shear	12.433	Shear	136	11.06	17.913	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD5P	SNB-D3	12.433	Shear	12.433	Shear	140	11.41	16.821	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD51	SNB-D3	12.433	Shear	12.433	Shear	140	11.41	16.821	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD52	SNB-D3	12.433	Shear	12.433	Shear	140	11.41	16.821	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD6P	SNB-D3	12.433	Shear	12.433	Shear	140	11.41	16.821	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD61	SNB-D3	12.433	Shear	12.433	Shear	140	11.41	16.821	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DD62	SNB-D3	12.433	Shear	12.433	Shear	140	11.41	16.821	12.433	21.750	40.623	16.312	0.000	0.000	0.000	0.000	Automatic
SNB-DE1P	SNB-D4	17.901	Shear	17.901	Shear	121	11.78	41.188	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE11	SNB-D4	17.901	Shear	17.901	Shear	121	11.78	41.188	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE12	SNB-D4	17.901	Shear	17.901	Shear	121	11.78	41.188	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE2P	SNB-D4	17.901	Shear	17.901	Shear	121	11.78	41.188	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE21	SNB-D4	17.901	Shear	17.901	Shear	121	11.78	41.188	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE22	SNB-D4	17.901	Shear	17.901	Shear	121	11.78	41.188	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE3P	SNB-D4	17.901	Shear	17.901	Shear	125	12.17	39.111	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE31	SNB-D4	17.901	Shear	17.901	Shear	125	12.17	39.111	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE32	SNB-D4	17.901	Shear	17.901	Shear	125	12.17	39.111	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE4P	SNB-D4	17.901	Shear	17.901	Shear	125	12.17	39.111	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE41	SNB-D4	17.901	Shear	17.901	Shear	125	12.17	39.111	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE42	SNB-D4	17.901	Shear	17.901	Shear	125	12.17	39.111	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE5P	SNB-D4	17.901	Shear	17.901	Shear	129	12.54	37.164	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE51	SNB-D4	17.901	Shear	17.901	Shear	129	12.54	37.164	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE52	SNB-D4	17.901	Shear	17.901	Shear	129	12.54	37.164	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE6P	SNB-D4	17.901	Shear	17.901	Shear	129	12.54	37.164	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE61	SNB-D4	17.901	Shear	17.901	Shear	129	12.54	37.164	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DE62	SNB-D4	17.901	Shear	17.901	Shear	129	12.54	37.164	17.901	41.760	76.465	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF1P	SNB-D5	17.901	Shear	17.901	Shear	115	15.01	60.419	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF11	SNB-D5	17.901	Shear	17.901	Shear	115	15.01	60.419	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF12	SNB-D5	17.901	Shear	17.901	Shear	115	15.01	60.419	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF2P	SNB-D5	17.901	Shear	17.901	Shear	115	15.01	60.419	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF21	SNB-D5	17.901	Shear	17.901	Shear	115	15.01	60.419	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF22	SNB-D5	17.901	Shear	17.901	Shear	115	15.01	60.419	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF3P	SNB-D5	17.901	Shear	17.901	Shear	119	15.53	57.545	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF31	SNB-D5	17.901	Shear	17.901	Shear	119	15.53	57.545	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF32	SNB-D5	17.901	Shear	17.901	Shear	119	15.53	57.545	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF4P	SNB-D5	17.901	Shear	17.901	Shear	119	15.53	57.545	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF41	SNB-D5	17.901	Shear	17.901	Shear	119	15.53	57.545	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DF42	SNB-D5	17.901	Shear	17.901	Shear	119	15.53	57.545	17.901	41.760	109.090	31.494	0.000	0.000	0.000	0.000	Automatic
SNB-DG1P	SNB-D6	17.901	Shear	17.901	Shear	124	16.06	66.772	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DG11	SNB-D6	17.901	Shear	17.901	Shear	124	16.06	66.772	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DG12	SNB-D6	17.901	Shear	17.901	Shear	124	16.06	66.772	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DG2P	SNB-D6	17.901	Shear	17.901	Shear	124	16.06	66.772	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DG21	SNB-D6	17.901	Shear	17.901	Shear	124	16.06	66.772	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DG22	SNB-D6	17.901	Shear	17.901	Shear	124	16.06	66.772	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DG3P	S-D6-MOD	22.376	Shear	22.376	Shear	101	16.59	77.545	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DG31	S-D6-MOD	22.376	Shear	22.376	Shear	101	16.59	77.545	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DG32	S-D6-MOD	22.376	Shear	22.376	Shear	101	16.59	77.545	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DG4P	S-D6-MOD	22.376	Shear	22.376	Shear	101	16.59	77.545	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DG41	S-D6-MOD	22.376	Shear	22.376	Shear	101	16.59	77.545	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DG42	S-D6-MOD	22.376	Shear	22.376	Shear	101	16.59	77.545	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DH1P	SNB-D6	17.901	Shear	17.901	Shear	132	17.14	59.660	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DH11	SNB-D6	17.901	Shear	17.901	Shear	132	17.14	59.660	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DH12	SNB-D6	17.901	Shear	17.901	Shear	132	17.14	59.660	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DH2P	SNB-D6	17.901	Shear	17.901	Shear	132	17.14	59.660	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic

SNB-DH21	SNB-D6	17.901	Shear	17.901	Shear	132	17.14	59.660	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DH22	SNB-D6	17.901	Shear	17.901	Shear	132	17.14	59.660	17.901	52.200	133.834	39.367	0.000	0.000	0.000	0.000	Automatic
SNB-DH3P	S-D6-MOD	22.376	Shear	22.376	Shear	107	17.70	70.032	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DH31	S-D6-MOD	22.376	Shear	22.376	Shear	107	17.70	70.032	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DH32	S-D6-MOD	22.376	Shear	22.376	Shear	107	17.70	70.032	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DH4P	S-D6-MOD	22.376	Shear	22.376	Shear	107	17.70	70.032	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DH41	S-D6-MOD	22.376	Shear	22.376	Shear	107	17.70	70.032	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DH42	S-D6-MOD	22.376	Shear	22.376	Shear	107	17.70	70.032	22.376	35.100	120.850	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI1P	S-D7-MOD	22.376	Shear	22.376	Shear	92	18.27	98.948	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI11	S-D7-MOD	22.376	Shear	22.376	Shear	92	18.27	98.948	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI12	S-D7-MOD	22.376	Shear	22.376	Shear	92	18.27	98.948	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI2P	S-D7-MOD	22.376	Shear	22.376	Shear	92	18.27	98.948	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI21	S-D7-MOD	22.376	Shear	22.376	Shear	92	18.27	98.948	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI22	S-D7-MOD	22.376	Shear	22.376	Shear	92	18.27	98.948	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI3P	S-D7-MOD	22.376	Shear	22.376	Shear	95	18.84	95.638	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI31	S-D7-MOD	22.376	Shear	22.376	Shear	95	18.84	95.638	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI32	S-D7-MOD	22.376	Shear	22.376	Shear	95	18.84	95.638	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI4P	S-D7-MOD	22.376	Shear	22.376	Shear	95	18.84	95.638	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI41	S-D7-MOD	22.376	Shear	22.376	Shear	95	18.84	95.638	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-DI42	S-D7-MOD	22.376	Shear	22.376	Shear	95	18.84	95.638	22.376	35.100	148.272	26.471	0.000	0.000	0.000	0.000	Automatic
SNB-LA1P	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA11	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA12	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA2P	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA21	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA22	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA3P	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA31	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA32	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA4P	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA41	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LA42	SNB-L1	115.987	L/r	136.080	Net Sect	55	5.00	115.987	0.000	0.000	136.080	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB1P	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB11	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB12	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB2P	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB21	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB22	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB3P	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB31	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB32	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB4P	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB41	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LB42	SNB-L2	183.128	L/r	201.204	Net Sect	42	5.00	183.128	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC1P	SNB-L2	170.256	L/r	201.204	Net Sect	56	6.67	170.256	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC11	SNB-L2	170.256	L/r	201.204	Net Sect	56	6.67	170.256	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC12	SNB-L2	170.256	L/r	201.204	Net Sect	56	6.67	170.256	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC2P	SNB-L2	170.085	L/r	201.204	Net Sect	56	6.69	170.085	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC21	SNB-L2	170.085	L/r	201.204	Net Sect	56	6.69	170.085	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC22	SNB-L2	170.085	L/r	201.204	Net Sect	56	6.69	170.085	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC3P	SNB-L2	170.256	L/r	201.204	Net Sect	56	6.67	170.256	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC31	SNB-L2	170.256	L/r	201.204	Net Sect	56	6.67	170.256	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LC32	SNB-L2	170.256	L/r	201.204	Net Sect	56	6.67	170.256	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD1P	SNB-L3	167.960	L/r	185.328	Net Sect	43	6.67	167.960	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD11	SNB-L3	167.960	L/r	185.328	Net Sect	43	6.67	167.960	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD12	SNB-L3	167.960	L/r	185.328	Net Sect	43	6.67	167.960	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD2P	SNB-L3	167.861	L/r	185.328	Net Sect	43	6.69	167.861	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD21	SNB-L3	167.861	L/r	185.328	Net Sect	43	6.69	167.861	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD22	SNB-L3	167.861	L/r	185.328	Net Sect	43	6.69	167.861	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD3P	SNB-L3	167.960	L/r	185.328	Net Sect	43	6.67	167.960	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD31	SNB-L3	167.960	L/r	185.328	Net Sect	43	6.67	167.960	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LD32	SNB-L3	167.960	L/r	185.328	Net Sect	43	6.67	167.960	0.000	0.000	185.328	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE1P	SNB-L4	322.320	L/r	346.679	Net Sect	37	6.67	322.320	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE11	SNB-L4	322.320	L/r	346.679	Net Sect	37	6.67	322.320	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE12	SNB-L4	322.320	L/r	346.679	Net Sect	37	6.67	322.320	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE2P	SNB-L4	322.179	L/r	346.679	Net Sect	37	6.69	322.179	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE21	SNB-L4	322.179	L/r	346.679	Net Sect	37	6.69	322.179	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE22	SNB-L4	322.179	L/r	346.679	Net Sect	37	6.69	322.179	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE3P	SNB-L4	322.320	L/r	346.679	Net Sect	37	6.67	322.320	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic

SNB-LE31	SNB-L4	322.320	L/r	346.679	Net Sect	37	6.67	322.320	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LE32	SNB-L4	322.320	L/r	346.679	Net Sect	37	6.67	322.320	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LF1P	SNB-L4	294.167	L/r	346.679	Net Sect	56	10.01	294.167	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LF11	SNB-L4	294.167	L/r	346.679	Net Sect	56	10.01	294.167	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LF12	SNB-L4	294.167	L/r	346.679	Net Sect	56	10.01	294.167	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LF2P	SNB-L4	294.167	L/r	346.679	Net Sect	56	10.01	294.167	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LF21	SNB-L4	294.167	L/r	346.679	Net Sect	56	10.01	294.167	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LF22	SNB-L4	294.167	L/r	346.679	Net Sect	56	10.01	294.167	0.000	0.000	346.679	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LG1P	SNB-L5	378.443	L/r	414.719	Net Sect	42	10.01	378.443	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LG11	SNB-L5	378.443	L/r	414.719	Net Sect	42	10.01	378.443	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LG12	SNB-L5	378.443	L/r	414.719	Net Sect	42	10.01	378.443	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LG2P	SNB-L5	378.443	L/r	414.719	Net Sect	42	10.01	378.443	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LG21	SNB-L5	378.443	L/r	414.719	Net Sect	42	10.01	378.443	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LG22	SNB-L5	378.443	L/r	414.719	Net Sect	42	10.01	378.443	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LH1P	SNB-L5	378.442	L/r	414.719	Net Sect	42	10.01	378.442	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LH11	SNB-L5	378.442	L/r	414.719	Net Sect	42	10.01	378.442	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LH12	SNB-L5	378.442	L/r	414.719	Net Sect	42	10.01	378.442	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LH2P	SNB-L5	412.353	L/r	414.719	Net Sect	10	10.01	412.353	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LH21	SNB-L5	412.353	L/r	414.719	Net Sect	10	10.01	412.353	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LH22	SNB-L5	412.353	L/r	414.719	Net Sect	10	10.01	412.353	0.000	0.000	414.719	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LI1P	SNB-L6	492.432	L/r	521.639	Net Sect	33	10.01	492.432	0.000	0.000	521.639	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LI11	SNB-L6	492.432	L/r	521.639	Net Sect	33	10.01	492.432	0.000	0.000	521.639	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LI12	SNB-L6	492.432	L/r	521.639	Net Sect	33	10.01	492.432	0.000	0.000	521.639	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LI2P	SNB-L6	514.179	L/r	521.639	Net Sect	17	10.01	514.179	0.000	0.000	521.639	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LI21	SNB-L6	514.179	L/r	521.639	Net Sect	17	10.01	514.179	0.000	0.000	521.639	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-LI22	SNB-L6	514.179	L/r	521.639	Net Sect	17	10.01	514.179	0.000	0.000	521.639	0.000	0.000	0.000	0.000	0.000	Automatic
Connect AP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect A1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect A2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect AaP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Aa1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Aa2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect AbP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ab1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ab2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect AcP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ac1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ac2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect BP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect B1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect B2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect BaP	Connect	25912.083	L/r	25919.960	Net Sect	2	2.00	25912.083	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ba1	Connect	25912.083	L/r	25919.960	Net Sect	2	2.00	25912.083	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ba2	Connect	25912.083	L/r	25919.960	Net Sect	2	2.00	25912.083	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect BbP	Connect	25912.081	L/r	25919.960	Net Sect	2	2.00	25912.081	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Bb1	Connect	25912.081	L/r	25919.960	Net Sect	2	2.00	25912.081	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Bb2	Connect	25912.081	L/r	25919.960	Net Sect	2	2.00	25912.081	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect BcP	Connect	25912.079	L/r	25919.960	Net Sect	2	2.00	25912.079	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Bc1	Connect	25912.079	L/r	25919.960	Net Sect	2	2.00	25912.079	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Bc2	Connect	25912.079	L/r	25919.960	Net Sect	2	2.00	25912.079	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect CP	Connect	25912.078	L/r	25919.960	Net Sect	2	2.00	25912.078	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect C1	Connect	25912.078	L/r	25919.960	Net Sect	2	2.00	25912.078	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect C2	Connect	25912.078	L/r	25919.960	Net Sect	2	2.00	25912.078	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect CaP	Connect	25912.080	L/r	25919.960	Net Sect	2	2.00	25912.080	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ca1	Connect	25912.080	L/r	25919.960	Net Sect	2	2.00	25912.080	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ca2	Connect	25912.080	L/r	25919.960	Net Sect	2	2.00	25912.080	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect CbP	Connect	25912.083	L/r	25919.960	Net Sect	2	2.00	25912.083	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Cb1	Connect	25912.083	L/r	25919.960	Net Sect	2	2.00	25912.083	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Cb2	Connect	25912.083	L/r	25919.960	Net Sect	2	2.00	25912.083	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect DP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect D1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect D2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect DaP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Da1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Da2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect DbP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Db1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Db2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic
Connect EP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	Automatic

Connect E1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect E2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect EaP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ea1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ea2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect EbP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Eb1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Eb2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect FP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect F1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect F2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect FaP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Fa1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Fa2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect GP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect G1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect G2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect GaP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ga1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ga2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect HP	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect H1	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect H2	Connect	25912.085	L/r	25919.960	Net Sect	2	2.00	25912.085	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect HaP	Connect	25912.078	L/r	25919.960	Net Sect	2	2.00	25912.078	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ha1	Connect	25912.078	L/r	25919.960	Net Sect	2	2.00	25912.078	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ha2	Connect	25912.078	L/r	25919.960	Net Sect	2	2.00	25912.078	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect IP	Connect	25912.070	L/r	25919.960	Net Sect	2	2.00	25912.070	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect I1	Connect	25912.070	L/r	25919.960	Net Sect	2	2.00	25912.070	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect I2	Connect	25912.070	L/r	25919.960	Net Sect	2	2.00	25912.070	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect IaP	Connect	25912.058	L/r	25919.960	Net Sect	2	2.00	25912.058	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ia1	Connect	25912.058	L/r	25919.960	Net Sect	2	2.00	25912.058	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
Connect Ia2	Connect	25912.058	L/r	25919.960	Net Sect	2	2.00	25912.058	0.000	0.000	25919.960	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H1aP	SNB-H1	129.628	L/r	133.002	Net Sect	22	2.02	129.628	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H1bP	SNB-H1	129.628	L/r	133.002	Net Sect	22	2.02	129.628	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H1cP	SNB-H1	129.628	L/r	133.002	Net Sect	22	2.02	129.628	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H1dP	SNB-H1	129.628	L/r	133.002	Net Sect	22	2.02	129.628	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H1eP	SNB-H1	129.628	L/r	133.002	Net Sect	22	2.02	129.628	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H1fP	SNB-H1	129.628	L/r	133.002	Net Sect	22	2.02	129.628	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H2aP	SNB-H1	127.025	L/r	133.002	Net Sect	30	2.70	127.025	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H2bP	SNB-H1	127.025	L/r	133.002	Net Sect	30	2.70	127.025	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H2cP	SNB-H1	127.025	L/r	133.002	Net Sect	30	2.70	127.025	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H2dP	SNB-H1	127.025	L/r	133.002	Net Sect	30	2.70	127.025	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H2eP	SNB-H1	127.025	L/r	133.002	Net Sect	30	2.70	127.025	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H2fP	SNB-H1	127.025	L/r	133.002	Net Sect	30	2.70	127.025	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H3aP	SNB-H1	123.751	L/r	133.002	Net Sect	37	3.38	123.751	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H3bP	SNB-H1	123.751	L/r	133.002	Net Sect	37	3.38	123.751	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H3cP	SNB-H1	123.751	L/r	133.002	Net Sect	37	3.38	123.751	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H3dP	SNB-H1	123.751	L/r	133.002	Net Sect	37	3.38	123.751	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H3eP	SNB-H1	123.751	L/r	133.002	Net Sect	37	3.38	123.751	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H3fP	SNB-H1	123.751	L/r	133.002	Net Sect	37	3.38	123.751	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H4aP	SNB-H1	119.859	L/r	133.002	Net Sect	44	4.07	119.859	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H4bP	SNB-H1	119.859	L/r	133.002	Net Sect	44	4.07	119.859	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H4cP	SNB-H1	119.859	L/r	133.002	Net Sect	44	4.07	119.859	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H4dP	SNB-H1	119.859	L/r	133.002	Net Sect	44	4.07	119.859	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H4eP	SNB-H1	119.859	L/r	133.002	Net Sect	44	4.07	119.859	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H4fP	SNB-H1	119.859	L/r	133.002	Net Sect	44	4.07	119.859	0.000	0.000	133.002	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H5aP	SNB-H2	184.862	L/r	201.204	Net Sect	40	4.75	184.862	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H5bP	SNB-H2	184.862	L/r	201.204	Net Sect	40	4.75	184.862	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H5cP	SNB-H2	184.862	L/r	201.204	Net Sect	40	4.75	184.862	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H5dP	SNB-H2	184.862	L/r	201.204	Net Sect	40	4.75	184.862	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H5eP	SNB-H2	184.862	L/r	201.204	Net Sect	40	4.75	184.862	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H5fP	SNB-H2	184.862	L/r	201.204	Net Sect	40	4.75	184.862	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H6aP	SNB-H2	180.105	L/r	201.204	Net Sect	46	5.43	180.105	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H6bP	SNB-H2	180.105	L/r	201.204	Net Sect	46	5.43	180.105	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H6cP	SNB-H2	180.105	L/r	201.204	Net Sect	46	5.43	180.105	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H6dP	SNB-H2	180.105	L/r	201.204	Net Sect	46	5.43	180.105	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H6eP	SNB-H2	180.105	L/r	201.204	Net Sect	46	5.43	180.105	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H6fP	SNB-H2	180.105	L/r	201.204	Net Sect	46	5.43	180.105	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H7aP	SNB-H2	174.858	L/r	201.204	Net Sect	52	6.11	174.858	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	0.000	Automatic

SNB-H7bP	SNB-H2	174.858	L/r	201.204	Net Sect	52	6.11	174.858	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H7cP	SNB-H2	174.858	L/r	201.204	Net Sect	52	6.11	174.858	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H7dP	SNB-H2	174.858	L/r	201.204	Net Sect	52	6.11	174.858	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H7eP	SNB-H2	174.858	L/r	201.204	Net Sect	52	6.11	174.858	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H7fP	SNB-H2	174.858	L/r	201.204	Net Sect	52	6.11	174.858	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H8aP	SNB-H2	169.180	L/r	201.204	Net Sect	57	6.79	169.180	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H8bP	SNB-H2	169.180	L/r	201.204	Net Sect	57	6.79	169.180	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H8cP	SNB-H2	169.180	L/r	201.204	Net Sect	57	6.79	169.180	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H8dP	SNB-H2	169.180	L/r	201.204	Net Sect	57	6.79	169.180	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H8eP	SNB-H2	169.180	L/r	201.204	Net Sect	57	6.79	169.180	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H8fP	SNB-H2	169.180	L/r	201.204	Net Sect	57	6.79	169.180	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H9aP	SNB-H2	163.108	L/r	201.204	Net Sect	63	7.47	163.108	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H9bP	SNB-H2	163.108	L/r	201.204	Net Sect	63	7.47	163.108	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H9cP	SNB-H2	163.108	L/r	201.204	Net Sect	63	7.47	163.108	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H9dP	SNB-H2	163.108	L/r	201.204	Net Sect	63	7.47	163.108	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H9eP	SNB-H2	163.108	L/r	201.204	Net Sect	63	7.47	163.108	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-H9fP	SNB-H2	163.108	L/r	201.204	Net Sect	63	7.47	163.108	0.000	0.000	201.204	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-A1P	WLAC-1	24.875	L/r	30.456	Net Sect	62	2.02	24.875	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-A2P	WLAC-1	24.875	L/r	30.456	Net Sect	62	2.02	24.875	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-A3P	WLAC-1	24.875	L/r	30.456	Net Sect	62	2.02	24.875	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-B1P	WLAC-1	21.201	L/r	30.456	Net Sect	83	2.70	21.201	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-B2P	WLAC-1	21.201	L/r	30.456	Net Sect	83	2.70	21.201	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-B3P	WLAC-1	21.201	L/r	30.456	Net Sect	83	2.70	21.201	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-C1P	WLAC-1	17.258	L/r	30.456	Net Sect	104	3.38	17.258	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-C2P	WLAC-1	17.258	L/r	30.456	Net Sect	104	3.38	17.258	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-C3P	WLAC-1	17.258	L/r	30.456	Net Sect	104	3.38	17.258	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-D1P	WLAC-1	13.417	L/r	30.456	Net Sect	125	4.07	13.417	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-D2P	WLAC-1	13.417	L/r	30.456	Net Sect	125	4.07	13.417	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-D3P	WLAC-1	13.417	L/r	30.456	Net Sect	125	4.07	13.417	0.000	0.000	30.456	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-E1P	WLAC-2	23.157	L/r	47.304	Net Sect	116	4.75	23.157	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-E2P	WLAC-2	23.157	L/r	47.304	Net Sect	116	4.75	23.157	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-E3P	WLAC-2	23.157	L/r	47.304	Net Sect	116	4.75	23.157	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-F1P	WLAC-2	18.587	L/r	47.304	Net Sect	133	5.43	18.587	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-F2P	WLAC-2	18.587	L/r	47.304	Net Sect	133	5.43	18.587	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-F3P	WLAC-2	18.587	L/r	47.304	Net Sect	133	5.43	18.587	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-G1P	WLAC-2	14.672	L/r	47.304	Net Sect	150	6.11	14.672	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-G2P	WLAC-2	14.672	L/r	47.304	Net Sect	150	6.11	14.672	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-G3P	WLAC-2	14.672	L/r	47.304	Net Sect	150	6.11	14.672	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-H1P	WLAC-2	11.878	L/r	47.304	Net Sect	167	6.79	11.878	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-H2P	WLAC-2	11.878	L/r	47.304	Net Sect	167	6.79	11.878	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-H3P	WLAC-2	11.878	L/r	47.304	Net Sect	167	6.79	11.878	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-I1P	WLAC-2	9.810	L/r	47.304	Net Sect	183	7.47	9.810	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-I2P	WLAC-2	9.810	L/r	47.304	Net Sect	183	7.47	9.810	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic
SNB-WL-I3P	WLAC-2	9.810	L/r	47.304	Net Sect	183	7.47	9.810	0.000	0.000	47.304	0.000	0.000	0.000	0.000	0.000	Automatic

The model contains 612 angle members.

Section Joint Information:

Section Label	Joint Label	Joint Elevation (ft)
A	RohnAP	180.000
A	RohnAa1	175.000
A	RohnA1	180.000
A	RohnAa2	175.000
A	RohnA2	180.000
A	RohnAaS	175.000
A	RohnAb1	170.000
A	RohnAb2	170.000
A	RohnAbS	170.000
A	RohnAc1	165.000
A	RohnAc2	165.000
A	RohnAcS	165.000
A	RohnB2	160.000
A	RohnBP	160.000
A	RohnB1	160.000
A	SNB-AP	180.000

A	SNB-Aa1	175.000
A	SNB-A1	180.000
A	SNB-Aa2	175.000
A	SNB-A2	180.000
A	SNB-AaS	175.000
A	SNB-Ab1	170.000
A	SNB-Ab2	170.000
A	SNB-AbS	170.000
A	SNB-Ac1	165.000
A	SNB-Ac2	165.000
A	SNB-AcS	165.000
A	SNB-B1	160.000
A	SNB-B2	160.000
A	SNB-BP	160.000
A	SNB-WL-A1S	180.000
A	SNB-WL-A2S	180.000
A	SNB-WL-A3S	180.000
A	SNB-WL-B1S	160.000
A	SNB-WL-B2S	160.000
A	SNB-WL-B3S	160.000
B	RohnBP	160.000
B	RohnBa1	155.000
B	RohnB1	160.000
B	RohnBa2	155.000
B	RohnB2	160.000
B	RohnBaS	155.000
B	RohnBb1	150.000
B	RohnBb2	150.000
B	RohnBbS	150.000
B	RohnBc1	145.000
B	RohnBc2	145.000
B	RohnBcS	145.000
B	RohnC1	140.000
B	RohnC2	140.000
B	RohnCP	140.000
B	SNB-BP	160.000
B	SNB-Ba1	155.000
B	SNB-B1	160.000
B	SNB-Ba2	155.000
B	SNB-B2	160.000
B	SNB-BaS	155.000
B	SNB-Bb1	150.000
B	SNB-Bb2	150.000
B	SNB-BbS	150.000
B	SNB-Bc1	145.000
B	SNB-Bc2	145.000
B	SNB-BcS	145.000
B	SNB-C1	140.000
B	SNB-C2	140.000
B	SNB-CP	140.000
B	SNB-WL-C1S	140.000
B	SNB-WL-C2S	140.000
B	SNB-WL-C3S	140.000
C	RohnCP	140.000
C	RohnCa1	133.340
C	RohnC1	140.000
C	RohnCa2	133.340
C	RohnC2	140.000
C	RohnCaS	133.340
C	RohnCb1	126.660
C	RohnCb2	126.660
C	RohnCbS	126.660
C	RohnD1	120.000
C	RohnD2	120.000
C	RohnDP	120.000
C	SNB-CP	140.000
C	SNB-Ca1	133.340
C	SNB-C1	140.000
C	SNB-Ca2	133.340

C	SNB-C2	140.000
C	SNB-CaS	133.340
C	SNB-Cb1	126.660
C	SNB-Cb2	126.660
C	SNB-CbS	126.660
C	SNB-D1	120.000
C	SNB-D2	120.000
C	SNB-DP	120.000
C	SNB-WL-D1S	120.000
C	SNB-WL-D2S	120.000
C	SNB-WL-D3S	120.000
D	RohnDP	120.000
D	RohnDa1	113.340
D	RohnD1	120.000
D	RohnDa2	113.340
D	RohnD2	120.000
D	RohnDaS	113.340
D	RohnDb1	106.660
D	RohnDb2	106.660
D	RohnDbS	106.660
D	RohnE1	100.000
D	RohnE2	100.000
D	RohnEP	100.000
D	SNB-DP	120.000
D	SNB-Da1	113.340
D	SNB-D1	120.000
D	SNB-Da2	113.340
D	SNB-D2	120.000
D	SNB-DaS	113.340
D	SNB-Db1	106.660
D	SNB-Db2	106.660
D	SNB-DbS	106.660
D	SNB-E1	100.000
D	SNB-E2	100.000
D	SNB-EP	100.000
D	SNB-WL-E1S	100.000
D	SNB-WL-E2S	100.000
D	SNB-WL-E3S	100.000
E	RohnEP	100.000
E	RohnEa1	93.340
E	RohnE1	100.000
E	RohnEa2	93.340
E	RohnE2	100.000
E	RohnEaS	93.340
E	RohnEb1	86.660
E	RohnEb2	86.660
E	RohnEbS	86.660
E	RohnF1	80.000
E	RohnF2	80.000
E	RohnFP	80.000
E	SNB-EP	100.000
E	SNB-Ea1	93.340
E	SNB-E1	100.000
E	SNB-Ea2	93.340
E	SNB-E2	100.000
E	SNB-EaS	93.340
E	SNB-Eb1	86.660
E	SNB-Eb2	86.660
E	SNB-EbS	86.660
E	SNB-F1	80.000
E	SNB-F2	80.000
E	SNB-FP	80.000
E	SNB-WL-F1S	80.000
E	SNB-WL-F2S	80.000
E	SNB-WL-F3S	80.000
F	RohnFP	80.000
F	RohnFa1	70.000
F	RohnF1	80.000
F	RohnFa2	70.000

```
F     RohnF2    80.000
F    RohnFaS    70.000
F     RohnG1    60.000
F     RohnG2    60.000
F     RohnGP    60.000
F     SNB-FP    80.000
F    SNB-Fa1    70.000
F     SNB-F1    80.000
F    SNB-Fa2    70.000
F     SNB-F2    80.000
F    SNB-FaS    70.000
F     SNB-G1    60.000
F     SNB-G2    60.000
F     SNB-GP    60.000
F SNB-WL-G1S    60.000
F SNB-WL-G2S    60.000
F SNB-WL-G3S    60.000
G     RohnGP    60.000
G    RohnGa1    50.000
G     RohnG1    60.000
G    RohnGa2    50.000
G     RohnG2    60.000
G    RohnGaS    50.000
G     RohnH1    40.000
G     RohnH2    40.000
G     RohnHP    40.000
G     SNB-GP    60.000
G    SNB-Ga1    50.000
G     SNB-G1    60.000
G    SNB-Ga2    50.000
G     SNB-G2    60.000
G    SNB-GaS    50.000
G     SNB-H1    40.000
G     SNB-H2    40.000
G     SNB-HP    40.000
G SNB-WL-H1S    40.000
G SNB-WL-H2S    40.000
G SNB-WL-H3S    40.000
H     RohnHP    40.000
H    RohnHa1    30.000
H     RohnH1    40.000
H    RohnHa2    30.000
H     RohnH2    40.000
H    RohnHaS    30.000
H     RohnI1    20.000
H     RohnI2    20.000
H     RohnIP    20.000
H     SNB-HP    40.000
H    SNB-Ha1    30.000
H     SNB-H1    40.000
H    SNB-Ha2    30.000
H     SNB-H2    40.000
H    SNB-HaS    30.000
H     SNB-I1    20.000
H     SNB-I2    20.000
H     SNB-IP    20.000
H SNB-WL-I1S    20.000
H SNB-WL-I2S    20.000
H SNB-WL-I3S    20.000
I     RohnIP    20.000
I    RohnIa1    10.000
I     RohnI1    20.000
I    RohnIa2    10.000
I     RohnI2    20.000
I    RohnIaS    10.000
I     RohnJ1     0.000
I     RohnJ2     0.000
I     RohnJP     0.000
I     SNB-IP    20.000
```

I	SNB-Ia1	10.000
I	SNB-I1	20.000
I	SNB-Ia2	10.000
I	SNB-I2	20.000
I	SNB-IaS	10.000
I	SNB-J1	0.000
I	SNB-J2	0.000
I	SNB-JP	0.000

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Area (ft^2)	Face Af Adjust Factor	Face Ar Adjust Factor	Dead Load Factor
A	180.000	160.000	36	111	7.50	8.87	163.75	0.9000	0.9000	1.000
B	160.000	140.000	33	93	8.87	10.23	191.05	0.9000	0.9000	1.000
C	140.000	120.000	27	72	10.23	11.60	218.31	0.9000	0.9000	1.000
D	120.000	100.000	27	72	11.60	12.96	245.54	0.9000	0.9000	1.000
E	100.000	80.000	27	72	12.96	14.32	272.78	0.9000	0.9000	1.000
F	80.000	60.000	21	51	14.32	15.68	300.04	0.9000	0.9000	1.000
G	60.000	40.000	21	51	15.68	17.05	327.29	0.9000	0.9000	1.000
H	40.000	20.000	21	51	17.05	18.41	354.57	0.9000	0.9000	1.000
I	20.000	0.000	18	39	18.41	19.78	381.92	0.9000	0.9000	1.000

Equipment Library:

Equipment Property Label	Stock Number	Weight (lbs)	Wind Area (ft^2)	Ice Area (ft^2)	Shape or EIA Antenna Type	Drag Coef.	Diameter (ft)	Height (ft)
RFS PD1142 w/ ice	Omni	10.0	1.32	0.00	Circle	1.00	0.00	0.00
Andrew DB-583 w/ ice	Omni	6.3	0.54	0.00	Circle	1.00	0.00	0.00
12` T-Arm	Mount	465.0	13.60	0.00	Square	1.00	0.00	0.00
3` Stand-Off	Mount	50.0	2.72	0.00	Square	1.00	0.00	0.00
Dipole	Dipole	46.0	9.17	0.00	Circle	1.00	0.00	0.00
TMA	TMA	15.0	1.29	0.00	Square	1.00	0.00	0.00
GPS	GPS	10.0	1.00	0.00	Circle	1.00	0.00	0.00
Powerwave 7770	Panel	35.0	5.88	0.00	Square	1.00	0.00	0.00
Raycap Surge Suppressor	Other	27.0	1.79	0.00	Circle	1.00	0.00	0.00
4` Dipole	Dipole	40.0	3.70	0.00	Circle	1.00	0.00	0.00
DB586-Y	Omni	8.2	1.01	0.00	Circle	1.00	0.00	0.00
5` Dipole	Dipole	50.0	3.95	0.00	Circle	1.00	0.00	0.00
8` Omni	Omni	5.0	2.00	0.00	Circle	1.00	0.00	0.00
12` Omni	Omni	55.0	4.00	0.00	Circle	1.00	0.00	0.00
Boom Gate	Mount	471.0	13.60	0.00	Square	1.00	0.00	0.00
Scala OGT9-806 w/ ice	Omni	18.5	2.27	0.00	Circle	1.00	0.00	0.00
Sinclair SC479-HF1LDF w/ ice	Omni	34.0	5.06	0.00	Circle	1.00	0.00	0.00
RFS APXVSPP18-C w/ ice	Panel	90.0	8.26	0.00	Square	1.00	0.00	0.00
ALU RRH	RRH	60.0	6.90	0.00	Square	1.00	0.00	0.00
6` Stand-Off	Mount	140.0	10.60	0.00	Square	1.00	0.00	0.00
Decibel DB844H80-XY w/ ice	Panel	10.0	3.97	0.00	Square	1.00	0.00	0.00
Raycap DB-T1-6Z-8AB-0Z Dist. Box	Panel	45.0	5.60	0.00	Square	1.00	0.00	0.00
Ericsson AIR B2A/B4P	Panel	110.0	6.53	0.00	Square	1.00	0.00	0.00
Decibel PD-420 2 bay - Dipole	Dipole	10.0	1.64	0.00	Square	1.00	0.00	0.00
RRHU-11 RRH Unit	RRH	50.0	2.99	0.00	Square	1.00	0.00	0.00
10` Dipole	Dipole	46.0	9.17	0.00	Square	1.00	0.00	0.00
4`x1` Panel	Panel	30.0	6.53	0.00	Square	1.00	0.00	0.00
DT465B-2XR-V2	Panel	88.4	9.65	0.00	Square	1.00	0.00	0.00
800 MHz RRH Unit	RRH	60.0	6.90	0.00	Square	1.00	0.00	0.00
TD-RRH 8x20-25 RRH Unit	RRH	66.1	4.72	0.00	Square	1.00	0.00	0.00
JAHH-65B-R3B Panel	Panel	126.3	9.66	0.00	Square	1.00	0.00	0.00
BSAMNT-SBS-2-2 Mount for JAHH Antenna	Mount	116.0	3.78	0.00	Square	1.00	0.00	0.00
Ericsson 4478 (B71) RRH Unit	RRH	60.0	1.26	0.00	Square	1.00	0.00	0.00
AIR32 B66/B2A	Panel	132.2	5.84	0.00	Square	1.00	0.00	0.00
APXVAA24_43-U-A20 (RFS)	Panel	150.0	22.38	0.00	Square	1.00	0.00	0.00
Twin TMA Unit - Generic	Other	25.0	1.12	0.00	Square	1.00	0.00	0.00
Diplexer Unit - Generic	Other	25.0	0.72	0.00	Square	1.00	0.00	0.00
TMA Unit (LGP24101)	Other	14.1	1.29	0.00	Square	1.00	0.00	0.00

OPA-65-LCUU-H6 Panel	Panel	64.0	10.12	0.00	Square	1.00	0.00	0.00
RRUS-32 RRH Unit	Other	80.0	3.88	0.00	Square	1.00	0.00	0.00
4` Dish	Dish	120.0	13.10	0.00	EIA Microwave MaxCA	1.00	0.00	0.00
8` Dish with Radome	Dish	560.0	51.32	0.00	EIA Microwave Radome MaxCA	1.00	0.00	0.00
RRH B2/B66A (RFV01U-D1A)	Panel	116.0	3.13	0.00	Square	1.00	0.00	0.00
RRH B5B/B13 (RFV01U-D2A)	Panel	98.5	3.13	0.00	Square	1.00	0.00	0.00
CBC78T-DS-43-2X	Other	15.7	0.83	0.00	Square	1.00	0.00	0.00

Equipment Connectivity:

Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle (deg)
DNK-1	RohnGP	5` Dipole	0.00
MT-DNK1	RohnGP	3` Stand-Off	0.00
DNK2-GPS68	RohnG1	GPS	120.00
MT-DNK2	RohnG1	3` Stand-Off	120.00
DNK3-GPS69	RohnG2	GPS	240.00
MT-DNK3	RohnG2	3` Stand-Off	240.00
DNK4-DOT56	RohnG2	10` Dipole	240.00
MT-DNK4	RohnG2	3` Stand-Off	240.00
DNK5-NEU16	RohnF2	8` Omni	240.00
MT-DNK5	RohnF2	6` Stand-Off	240.00
DNK9-DEP54	RohnD1	RFS PD1142 w/ ice	120.00
MT-DNK9	RohnD1	3` Stand-Off	120.00
DNK8-CSP66	RohnD1	RFS PD1142 w/ ice	120.00
DNK7-NEU17	RohnDaS	12` Omni	0.00
MT-DNK7	RohnDaS	3` Stand-Off	0.00
Sprint-A	RohnDaS	12` T-Arm	0.00
Sprint-B	RohnDa1	12` T-Arm	120.00
Sprint-C	RohnDa2	12` T-Arm	240.00
Sprint-1	RohnDaS	RFS APXVSPP18-C w/ ice	0.00
Sprint-2	RohnDaS	ALU RRH	0.00
Sprint-3	RohnDaS	ALU RRH	0.00
Sprint-4	RohnDa1	RFS APXVSPP18-C w/ ice	120.00
Sprint-5	RohnDa1	ALU RRH	120.00
Sprint-6	RohnDa1	ALU RRH	120.00
Sprint-7	RohnDa2	RFS APXVSPP18-C w/ ice	240.00
Sprint-8	RohnDa2	ALU RRH	240.00
Sprint-9	RohnDa2	ALU RRH	240.00
Sprint-10	RohnDaS	DT465B-2XR-V2	0.00
Sprint-11	RohnDa1	DT465B-2XR-V2	120.00
Sprint-12	RohnDa2	DT465B-2XR-V2	240.00
Sprint-13	RohnDaS	800 MHz RRH Unit	0.00
Sprint-14	RohnDa1	800 MHz RRH Unit	120.00
Sprint-15	RohnDa2	800 MHz RRH Unit	240.00
Sprint-16	RohnDaS	TD-RRH 8x20-25 RRH Unit	0.00
Sprint-17	RohnDa1	TD-RRH 8x20-25 RRH Unit	120.00
Sprint-18	RohnDa2	TD-RRH 8x20-25 RRH Unit	240.00
Verizon-A	RohnCbS	Boom Gate	0.00
Verizon-B	RohnCb1	Boom Gate	120.00
Verizon-C	RohnCb2	Boom Gate	240.00
Verizon-1	RohnCbS	Decibel DB844H80-XY w/ ice	0.00
Verizon-2	RohnCbS	Decibel DB844H80-XY w/ ice	0.00
Verizon-3	RohnCb1	Decibel DB844H80-XY w/ ice	120.00
Verizon-4	RohnCb1	Decibel DB844H80-XY w/ ice	120.00
Verizon-5	RohnCb2	Decibel DB844H80-XY w/ ice	240.00
Verizon-6	RohnCb2	Decibel DB844H80-XY w/ ice	240.00
Verizon-7	RohnCbS	JAHH-65B-R3B Panel	0.00
Verizon-8	RohnCbS	JAHH-65B-R3B Panel	0.00
Verizon-9	RohnCb1	JAHH-65B-R3B Panel	120.00
Verizon-10	RohnCb1	JAHH-65B-R3B Panel	120.00
Verizon-11	RohnCb2	JAHH-65B-R3B Panel	240.00
Verizon-12	RohnCb2	JAHH-65B-R3B Panel	240.00
Verizon-D	RohnCbS	BSAMNT-SBS-2-2 Mount for JAHH Antenna	0.00
Verizon-E	RohnCb1	BSAMNT-SBS-2-2 Mount for JAHH Antenna	120.00
Verizon-F	RohnCb2	BSAMNT-SBS-2-2 Mount for JAHH Antenna	240.00

Verizon-22	RohnCbS	Raycap DB-T1-6Z-8AB-0Z Dist. Box	0.00
NEU-18	RohnCbS	12` Omni	0.00
DNK15-CSP21	RohnCa1	RFS PD1142 w/ ice	120.00
MT-DNK15	RohnCa1	3` Stand-Off	120.00
DNK-12	RohnCa2	5` Dipole	240.00
MT-DNK12	RohnCa2	3` Stand-Off	240.00
T-Mobile-1	RohnCaS	Ericsson AIR B2A/B4P	0.00
T-Mobile-2	RohnCaS	AIR32 B66/B2A	0.00
T-Mobile-3	RohnCaS	APXVAA24_43-U-A20 (RFS)	0.00
T-Mobile-4	RohnCa1	Ericsson AIR B2A/B4P	120.00
T-Mobile-5	RohnCa1	AIR32 B66/B2A	120.00
T-Mobile-6	RohnCa1	APXVAA24_43-U-A20 (RFS)	120.00
T-Mobile-7	RohnCa2	Ericsson AIR B2A/B4P	240.00
T-Mobile-8	RohnCa2	AIR32 B66/B2A	240.00
T-Mobile-9	RohnCa2	APXVAA24_43-U-A20 (RFS)	240.00
T-Mobile-10	RohnCaS	Twin TMA Unit - Generic	0.00
T-Mobile-11	RohnCa1	Twin TMA Unit - Generic	120.00
T-Mobile-12	RohnCa2	Twin TMA Unit - Generic	240.00
T-Mobile-13	RohnCaS	RRHU-11 RRH Unit	0.00
T-Mobile-14	RohnCa1	RRHU-11 RRH Unit	120.00
T-Mobile-15	RohnCa2	RRHU-11 RRH Unit	240.00
T-Mobile-16	RohnCaS	Ericsson 4478 (B71) RRH Unit	0.00
T-Mobile-17	RohnCa1	Ericsson 4478 (B71) RRH Unit	120.00
T-Mobile-18	RohnCa2	Ericsson 4478 (B71) RRH Unit	240.00
T-Mobile-19	RohnCaS	Diplexer Unit - Generic	0.00
T-Mobile-20	RohnCa1	Diplexer Unit - Generic	120.00
T-Mobile-21	RohnCa2	Diplexer Unit - Generic	240.00
ATT-A	RohnBbS	12` T-Arm	0.00
ATT-B	RohnBb1	12` T-Arm	120.00
ATT-C	RohnBb2	12` T-Arm	240.00
ATT-A1	RohnBbS	Powerwave 7770	0.00
ATT-A2	RohnBbS	Powerwave 7770	0.00
ATT-A3	RohnBbS	RRHU-11 RRH Unit	0.00
ATT-A4	RohnBbS	TMA Unit (LGP24101)	0.00
ATT-A5	RohnBbS	TMA Unit (LGP24101)	0.00
ATT-A6	RohnBbS	Raycap Surge Suppressor	0.00
ATT-A7	RohnBbS	OPA-65-LCUU-H6 Panel	0.00
ATT-A8	RohnBbS	RRUS-32 RRH Unit	0.00
ATT-B1	RohnBb1	RRHU-11 RRH Unit	120.00
ATT-B2	RohnBb1	TMA Unit (LGP24101)	120.00
ATT-B3	RohnBb1	TMA Unit (LGP24101)	120.00
ATT-B4	RohnBb1	OPA-65-LCUU-H6 Panel	120.00
ATT-B5	RohnBb1	RRUS-32 RRH Unit	120.00
ATT-C1	RohnBb2	RRHU-11 RRH Unit	240.00
ATT-C2	RohnBb2	TMA Unit (LGP24101)	240.00
ATT-C3	RohnBb2	TMA Unit (LGP24101)	240.00
ATT-C4	RohnBb2	OPA-65-LCUU-H6 Panel	240.00
ATT-C5	RohnBb2	RRUS-32 RRH Unit	240.00
CSP-70	RohnBP	Sinclair SC479-HF1LDF w/ ice	0.00
CSP-71	RohnB1	Sinclair SC479-HF1LDF w/ ice	120.00
CSP-72	RohnB2	Sinclair SC479-HF1LDF w/ ice	240.00
CSP-73	RohnB2	TMA	240.00
DNK21-SPD9	RohnBP	8` Dish with Radome	0.00
DNK20-UNKNOWN	RohnBP	4`x1` Panel	240.00
DNK19-STAM63	RohnB1	4`x1` Panel	120.00
159-A	RohnBP	3` Stand-Off	0.00
159-B	RohnB1	3` Stand-Off	120.00
160	RohnBP	3` Stand-Off	240.00
DNK22-TOG-6	RohnAcS	DB586-Y	0.00
DNK23-STAM64	RohnAcS	4`x1` Panel	0.00
DNK23-STAM65	RohnAcS	TMA	0.00
GRN-1 (DNK25)	RohnAb1	4` Dish	120.00
DNK26aCSP-67	RohnAaS	Dipole	0.00
DNK26bNEU-20	RohnAa1	4` Dipole	0.00
DNK27A-CSP4	RohnAa2	Sinclair SC479-HF1LDF w/ ice	240.00
DNK27B-CSP2	RohnAa2	Scala OGT9-806 w/ ice	120.00
DNK27C-CSP74	RohnAa1	TMA	120.00
DNK28A-CSP1	RohnAa1	Scala OGT9-806 w/ ice	120.00
DNK28B-CSP3	RohnAa2	Sinclair SC479-HF1LDF w/ ice	240.00

DNK28C-TOG5	RohnAaS	Andrew DB-583 w/ ice	0.00
DNK28D-NEU55	RohnAa2	Decibel PD-420 2 bay - Dipole	240.00
Top-A	RohnAP	6` Stand-Off	0.00
Top-B	RohnA1	6` Stand-Off	120.00
Top-C1	RohnA2	6` Stand-Off	260.00
Top-C2	RohnA2	6` Stand-Off	220.00
ATT-B7	RohnBb1	Powerwave 7770	120.00
ATT-B8	RohnBb1	Powerwave 7770	120.00
ATT-C7	RohnBb2	Powerwave 7770	240.00
ATT-C8	RohnBb2	Powerwave 7770	240.00
Verizon-25	RohnCbS	RRH B2/B66A (RFV01U-D1A)	0.00
Verizon-26	RohnCb1	RRH B2/B66A (RFV01U-D1A)	120.00
Verizon-27	RohnCb2	RRH B2/B66A (RFV01U-D1A)	240.00
Verizon-28	RohnCbS	RRH B5B/BB13 (RFV01U-D2A)	0.00
Verizon-29	RohnCb1	RRH B5B/BB13 (RFV01U-D2A)	120.00
Verizon-30	RohnCb2	RRH B5B/BB13 (RFV01U-D2A)	240.00
Verizon-31	RohnCbS	CBC78T-DS-43-2X	0.00
Verizon-32	RohnCb1	CBC78T-DS-43-2X	120.00
Verizon-33	RohnCb2	CBC78T-DS-43-2X	240.00

Linear Appurtenances:

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter (in)	Perimeter (in)	Unit Weight (lbs/ft)	In Face	Include in Wind Load
Full Cable Tray 2-150 (wind only)	2	150	2	Flat	24	0	0	Yes	Yes
Full Cable Tray 150-top (wind only)	150	180	1	Flat	24	0	0	Yes	Yes
DNK1-7/8" @ 56`	2	180	1	Round	0	0	1.30128	Yes	No
DNK2-7/8" @ 54`	2	180	1	Round	0	0	1.30128	Yes	No
DNK3-7/8" @ 60`	2	180	1	Round	0	0	1.30128	Yes	No
DNK4-7/8" @ 65`	2	180	1	Round	0	0	1.30128	Yes	No
DNK5-1-5/8" @ 82`	2	180	1	Round	0	0	2.33495	Yes	No
DNK6-Hybriflex Cables @ Sprint	2	180	4	Round	0	0	0.9	Yes	No
DNK7-7/8" @ 110`	2	180	1	Round	0	0	1.30128	Yes	No
DNK8-7/8" @ 122`	2	180	1	Round	0	0	1.30128	Yes	No
DNK9-7/8" @ 122`	2	180	1	Round	0	0	1.30128	Yes	No
DNK10-1-5/8" @ VZW	2	180	6	Round	0	0	2.33495	Yes	No
DNK11-1-5/8" @ 130`	2	180	1	Round	0	0	2.33495	Yes	No
DNK12-7/8" @ 135`	2	180	1	Round	0	0	1.30128	Yes	No
DNK13,14-1-5/8" @ T-Mobile	2	180	6	Round	0	0	2.33495	Yes	No
DNK15-7/8" @ 137`	2	180	1	Round	0	0	1.30128	Yes	No
DNK16,17,18-1-5/8" @ ATT	2	180	12	Round	0	0	2.33495	Yes	No
DNK16,17,18-Optic Fiber Cable @ ATT	2	180	1	Round	0	0	1.3	Yes	No
DNK16,17,18-DC Cable @ ATT	2	180	2	Round	0	0	0.3	Yes	No
DNK19-7/8" @ 159`	2	180	1	Round	0	0	1.30128	Yes	No
DNK20-7/8" @ 159.5`	2	180	1	Round	0	0	1.30128	Yes	No
CSP70,71,72-1-5/8" @ 160`(3)	2	180	3	Round	0	0	2.33495	Yes	No
CSP73-1/2" @ 160`	2	180	1	Round	0	0	0.840278	Yes	No
DNK21-Ellipitical @ 160`	2	180	1	Round	0	0	1.24804	Yes	No
DNK22-7/8" @ 165`	2	180	1	Round	0	0	1.30128	Yes	No
DNK23A-1-5/8" @ 168`	2	180	1	Round	0	0	2.33495	Yes	No
DNK23B-1/2" @ 168`	2	180	1	Round	0	0	0.840278	Yes	No
DNK26-B-1-5/8" @ 175`	2	180	1	Round	0	0	2.33495	Yes	No
DNK26A-7/8" @ 175`	2	180	1	Round	0	0	1.30128	Yes	No
DNK26C-1/2" @ 175`	2	180	1	Round	0	0	0.840278	Yes	No
DNK27-B-1-5/8" @ 175`	2	180	1	Round	0	0	2.33495	Yes	No
DNK27A-7/8" @ 175`	2	180	1	Round	0	0	1.30128	Yes	No
DNK27C-3/8" @ 175`	2	180	1	Round	0	0	0.654213	Yes	No
DNK28A-1-5/8" @ 175`	2	180	1	Round	0	0	2.33495	Yes	No
DNK28B-1-5/8" @ 175`	2	180	1	Round	0	0	2.33495	Yes	No
DNK28C-1-5/8" @ 175`	2	180	1	Round	0	0	2.33495	Yes	No
DNK28D-7/8" @ 175`	2	180	1	Round	0	0	1.30128	Yes	No
GRN-1-Ellipitical @ 172`(DNK25)	2	180	1	Round	0	0	1.24804	Yes	No
VZW-(1) Hybriflex Cables	2	180	1	Round	0	0	1.3	Yes	No
Hybriflex 6x12 Cables @ T-Mobile	2	180	2	Round	0	0	1.7	Yes	No
Hybriflex 9x18 Cables @ T-Mobile	2	180	1	Round	0	0	0.9	Yes	No

*** Loads Data

Loads from file: p:\projects\telcom\structuralsbylocation\connecticut\greenwichcsp#74\14-vzw adds to # 13_pls_g\pls-tower_wind_0\4-carir.eia

Structure Height Summary (used for calculating wind/ice adjust with height):
  Structure height above ground 180.00 (ft)
  Elevation of structure bottom for wind height adjustment: 0.00 (ft)
  Structure height for structure gust response factor: 180.00 (ft)
  Structure gust response factor, Gh: 0.8500
  Mean wind conversion factor, m: 0.6000
  Wind direction probability factor, Kd, for structures: 0.85, for appurtenances: 0.85
  Structure fundamental frequency, f1: 2.0199 (Hz)
  Guy installation temperature: 60.00 (deg F)
  Tower Type: Triangular Latticed

ANSI/TIA 222-G Load Options:
  Structure Class 3
  Exposure Category C Open terrain
  Topographic Category 3 (Kzt calculated based on crest height, H, of 36.00 (ft))
  Spectral Response SDS 0.276
  Spectral Response SD1 0.112

EIA Rev. G Load Cases:

Load Case Description	Dead Load Factor	Wind Load Factor	Strength Factor	Load Case Type	Basic Wind Speed (mph)	Wind Dir. (Deg)	Mean Wind Start Elevation (ft)	Mean Wind Stop Elevation (ft)	Ice Thick. (in)	Ice Density (lbs/ft^3)	Temperature (deg F)	Point Loads	Joint Displ.
1: 1.2D + 1.0Dg + 1.6Wo	1.2000	1.6000	1.0000	Regular	94.000	0	0.00	0.00	0.0000	0.0000	60.0		
2: 0.9D + 1.0Dg + 1.6Wo	0.9000	1.6000	1.0000	Regular	94.000	0	0.00	0.00	0.0000	0.0000	60.0		
4: 1.2D + 1.0Dg + 1.0E	1.2000	1.0000	1.0000	Earthquake	0.000	0	0.00	0.00	0.0000	0.0000	60.0		
5: 0.9D + 1.0Dg + 1.0E	0.9000	1.0000	1.0000	Earthquake	0.000	0	0.00	0.00	0.0000	0.0000	60.0		
6: Service 1.0D + 1.0Dg + 1.0 Wo	1.0000	1.0000	1.0000	Service	60.000	0	0.00	0.00	0.0000	0.0000	60.0		
1.2*DL	1.2000	1.0000	1.0000	Regular	0.000	0	0.00	0.00	0.0000	0.0000	60.0		
0.9DL	0.9000	1.0000	1.0000	Regular	0.000	0	0.00	0.00	0.0000	0.0000	60.0		

Equipment Load Case Information for "1: 1.2D + 1.0Dg + 1.6Wo":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
DNK-1	5` Dipole	60.00	35.46	0.00	3.95	0.00							140.22	0.00	60.00
MT-DNK1	3` Stand-Off	60.00	35.46	0.00	2.72	0.00							96.46	0.00	60.00
DNK2-GPS68	GPS	60.00	35.46	0.00	1.00	120.00							35.46	0.00	12.00
MT-DNK2	3` Stand-Off	60.00	35.46	0.00	2.72	120.00							96.46	0.00	60.00
DNK3-GPS69	GPS	60.00	35.46	0.00	1.00	240.00							35.46	0.00	12.00
MT-DNK3	3` Stand-Off	60.00	35.46	0.00	2.72	240.00							96.46	0.00	60.00
DNK4-DOT56	10` Dipole	60.00	35.46	0.00	9.17	240.00							325.08	0.00	55.20
MT-DNK4	3` Stand-Off	60.00	35.46	0.00	2.72	240.00							96.46	0.00	60.00
DNK5-NEU16	8` Omni	80.00	36.75	0.00	2.00	240.00							73.49	0.00	6.00
MT-DNK5	6` Stand-Off	80.00	36.75	0.00	10.60	240.00							389.50	0.00	168.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	39.58	0.00	1.32	120.00							52.09	0.00	12.00
MT-DNK9	3` Stand-Off	120.00	39.58	0.00	2.72	120.00							107.66	0.00	60.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	39.58	0.00	1.32	120.00							52.09	0.00	12.00
DNK7-NEU17	12` Omni	113.34	39.13	0.00	4.00	0.00							156.52	0.00	66.00
MT-DNK7	3` Stand-Off	113.34	39.13	0.00	2.72	0.00							106.43	0.00	60.00
Sprint-A	12` T-Arm	113.34	39.13	0.00	13.60	0.00							532.17	0.00	558.00
Sprint-B	12` T-Arm	113.34	39.13	0.00	13.60	120.00							532.17	0.00	558.00
Sprint-C	12` T-Arm	113.34	39.13	0.00	13.60	240.00							532.17	0.00	558.00
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	39.13	0.00	8.26	0.00							323.21	0.00	108.00
Sprint-2	ALU RRH	113.34	39.13	0.00	6.90	0.00							269.87	0.00	72.00
Sprint-3	ALU RRH	113.34	39.13	0.00	6.90	0.00							269.87	0.00	72.00

Sprint-4	RFS APXVSPP18-C w/ ice	113.34	39.13	0.00	8.26	120.00	323.21	0.00	108.00
Sprint-5	ALU RRH	113.34	39.13	0.00	6.90	120.00	269.87	0.00	72.00
Sprint-6	ALU RRH	113.34	39.13	0.00	6.90	120.00	269.87	0.00	72.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	39.13	0.00	8.26	240.00	323.21	0.00	108.00
Sprint-8	ALU RRH	113.34	39.13	0.00	6.90	240.00	269.87	0.00	72.00
Sprint-9	ALU RRH	113.34	39.13	0.00	6.90	240.00	269.87	0.00	72.00
Sprint-10	DT465B-2XR-V2	113.34	39.13	0.00	9.65	0.00	377.47	0.00	106.08
Sprint-11	DT465B-2XR-V2	113.34	39.13	0.00	9.65	120.00	377.47	0.00	106.08
Sprint-12	DT465B-2XR-V2	113.34	39.13	0.00	9.65	240.00	377.47	0.00	106.08
Sprint-13	800 MHz RRH Unit	113.34	39.13	0.00	6.90	0.00	269.87	0.00	72.00
Sprint-14	800 MHz RRH Unit	113.34	39.13	0.00	6.90	120.00	269.87	0.00	72.00
Sprint-15	800 MHz RRH Unit	113.34	39.13	0.00	6.90	240.00	269.87	0.00	72.00
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	39.13	0.00	4.72	0.00	184.68	0.00	79.36
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	39.13	0.00	4.72	120.00	184.68	0.00	79.36
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	39.13	0.00	4.72	240.00	184.68	0.00	79.36
Verizon-A	Boom Gate	126.66	40.02	0.00	13.60	0.00	544.21	0.00	565.20
Verizon-B	Boom Gate	126.66	40.02	0.00	13.60	120.00	544.21	0.00	565.20
Verizon-C	Boom Gate	126.66	40.02	0.00	13.60	240.00	544.21	0.00	565.20
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	0.00	158.73	0.00	12.00
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	0.00	158.73	0.00	12.00
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	120.00	158.73	0.00	12.00
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	120.00	158.73	0.00	12.00
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	240.00	158.73	0.00	12.00
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	240.00	158.73	0.00	12.00
Verizon-7	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	0.00	386.55	0.00	151.56
Verizon-8	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	0.00	386.55	0.00	151.56
Verizon-9	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	120.00	386.55	0.00	151.56
Verizon-10	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	120.00	386.55	0.00	151.56
Verizon-11	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	240.00	386.55	0.00	151.56
Verizon-12	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	240.00	386.55	0.00	151.56
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	40.02	0.00	3.78	0.00	151.42	0.00	139.20
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	40.02	0.00	3.78	120.00	151.42	0.00	139.20
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	40.02	0.00	3.78	240.00	151.42	0.00	139.20
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	40.02	0.00	5.60	0.00	224.08	0.00	54.00
NEU-18	12` Omni	126.66	40.02	0.00	4.00	0.00	160.06	0.00	66.00
DNK15-CSP21	RFS PD1142 w/ ice	133.34	40.44	0.00	1.32	120.00	53.22	0.00	12.00
MT-DNK15	3` Stand-Off	133.34	40.44	0.00	2.72	120.00	109.99	0.00	60.00
DNK-12	5` Dipole	133.34	40.44	0.00	3.95	240.00	159.89	0.00	60.00
MT-DNK12	3` Stand-Off	133.34	40.44	0.00	2.72	240.00	109.99	0.00	60.00
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	40.44	0.00	6.53	0.00	264.20	0.00	132.02
T-Mobile-2	AIR32 B66/B2A	133.34	40.44	0.00	5.84	0.00	236.34	0.00	158.64
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	40.44	0.00	22.38	0.00	904.89	0.00	180.00
T-Mobile-4	Ericsson AIR B2A/B4P	133.34	40.44	0.00	6.53	120.00	264.20	0.00	132.02
T-Mobile-5	AIR32 B66/B2A	133.34	40.44	0.00	5.84	120.00	236.34	0.00	158.64
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	40.44	0.00	22.38	120.00	904.89	0.00	180.00
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	40.44	0.00	6.53	240.00	264.20	0.00	132.02
T-Mobile-8	AIR32 B66/B2A	133.34	40.44	0.00	5.84	240.00	236.34	0.00	158.64
T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	40.44	0.00	22.38	240.00	904.89	0.00	180.00
T-Mobile-10	Twin TMA Unit - Generic	133.34	40.44	0.00	1.12	0.00	45.46	0.00	30.00
T-Mobile-11	Twin TMA Unit - Generic	133.34	40.44	0.00	1.12	120.00	45.46	0.00	30.00
T-Mobile-12	Twin TMA Unit - Generic	133.34	40.44	0.00	1.12	240.00	45.46	0.00	30.00
T-Mobile-13	RRHU-11 RRH Unit	133.34	40.44	0.00	2.99	0.00	121.07	0.00	60.00
T-Mobile-14	RRHU-11 RRH Unit	133.34	40.44	0.00	2.99	120.00	121.07	0.00	60.00
T-Mobile-15	RRHU-11 RRH Unit	133.34	40.44	0.00	2.99	240.00	121.07	0.00	60.00
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	40.44	0.00	1.26	0.00	51.09	0.00	72.00
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	40.44	0.00	1.26	120.00	51.09	0.00	72.00
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	40.44	0.00	1.26	240.00	51.09	0.00	72.00
T-Mobile-19	Diplexer Unit - Generic	133.34	40.44	0.00	0.72	0.00	29.31	0.00	30.00
T-Mobile-20	Diplexer Unit - Generic	133.34	40.44	0.00	0.72	120.00	29.31	0.00	30.00
T-Mobile-21	Diplexer Unit - Generic	133.34	40.44	0.00	0.72	240.00	29.31	0.00	30.00
ATT-A	12` T-Arm	150.00	41.44	0.00	13.60	0.00	563.55	0.00	558.00
ATT-B	12` T-Arm	150.00	41.44	0.00	13.60	120.00	563.55	0.00	558.00
ATT-C	12` T-Arm	150.00	41.44	0.00	13.60	240.00	563.55	0.00	558.00
ATT-A1	Powerwave 7770	150.00	41.44	0.00	5.88	0.00	243.65	0.00	42.00
ATT-A2	Powerwave 7770	150.00	41.44	0.00	5.88	0.00	243.65	0.00	42.00
ATT-A3	RRHU-11 RRH Unit	150.00	41.44	0.00	2.99	0.00	124.06	0.00	60.00
ATT-A4	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	0.00	53.37	0.00	16.92
ATT-A5	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	0.00	53.37	0.00	16.92
ATT-A6	Raycap Surge Suppressor	150.00	41.44	0.00	1.79	0.00	74.04	0.00	32.40

ATT-A7	OPA-65-LCUU-H6 Panel	150.00	41.44	0.00	10.12	0.00												419.44	0.00	76.80
ATT-A8	RRUS-32 RRH Unit	150.00	41.44	0.00	3.88	0.00												160.74	0.00	96.00
ATT-B1	RRHU-11 RRH Unit	150.00	41.44	0.00	2.99	120.00												124.06	0.00	60.00
ATT-B2	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	120.00												53.37	0.00	16.92
ATT-B3	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	120.00												53.37	0.00	16.92
ATT-B4	OPA-65-LCUU-H6 Panel	150.00	41.44	0.00	10.12	120.00												419.44	0.00	76.80
ATT-B5	RRUS-32 RRH Unit	150.00	41.44	0.00	3.88	120.00												160.74	0.00	96.00
ATT-C1	RRHU-11 RRH Unit	150.00	41.44	0.00	2.99	240.00												124.06	0.00	60.00
ATT-C2	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	240.00												53.37	0.00	16.92
ATT-C3	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	240.00												53.37	0.00	16.92
ATT-C4	OPA-65-LCUU-H6 Panel	150.00	41.44	0.00	10.12	240.00												419.44	0.00	76.80
ATT-C5	RRUS-32 RRH Unit	150.00	41.44	0.00	3.88	240.00												160.74	0.00	96.00
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	42.00	0.00	5.06	0.00												212.41	0.00	40.80
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	42.00	0.00	5.06	120.00												212.41	0.00	40.80
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	42.00	0.00	5.06	240.00												212.41	0.00	40.80
CSP-73	TMA	160.00	42.00	0.00	1.29	240.00												54.10	0.00	18.00
DNK21-SPD9	8` Dish with Radome	160.00	42.00	0.00	51.32	0.00	0.86330			1860.78								1860.78	0.00	672.00
DNK20-UNKNOWN	4`x1` Panel	160.00	42.00	0.00	6.53	240.00												274.26	0.00	36.00
DNK19-STAM63	4`x1` Panel	160.00	42.00	0.00	6.53	120.00												274.26	0.00	36.00
159-A	3` Stand-Off	160.00	42.00	0.00	2.72	0.00												114.24	0.00	60.00
159-B	3` Stand-Off	160.00	42.00	0.00	2.72	120.00												114.24	0.00	60.00
160	3` Stand-Off	160.00	42.00	0.00	2.72	240.00												114.24	0.00	60.00
DNK22-TOG-6	DB586-Y	165.00	42.27	0.00	1.01	0.00												42.88	0.00	9.90
DNK23-STAM64	4`x1` Panel	165.00	42.27	0.00	6.53	0.00												276.03	0.00	36.00
DNK23-STAM65	TMA	165.00	42.27	0.00	1.29	0.00												54.45	0.00	18.00
GRN-1 (DNK25)	4` Dish	170.00	42.54	0.00	13.10	50.00	1.66410	0.08980	-0.06910	927.29	50.04							927.29	-50.04	144.00
DNK26aCSP-67	Dipole	175.00	42.80	0.00	9.17	0.00												392.30	0.00	55.20
DNK26bNEU-20	4` Dipole	175.00	42.80	0.00	3.70	0.00												158.21	0.00	48.00
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	42.80	0.00	5.06	240.00												216.44	0.00	40.80
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	42.80	0.00	2.27	120.00												97.29	0.00	22.20
DNK27C-CSP74	TMA	175.00	42.80	0.00	1.29	120.00												55.12	0.00	18.00
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	42.80	0.00	2.27	120.00												97.29	0.00	22.20
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	42.80	0.00	5.06	240.00												216.44	0.00	40.80
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	42.80	0.00	0.54	0.00												22.99	0.00	7.50
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	42.80	0.00	1.64	240.00												70.32	0.00	12.00
Top-A	6` Stand-Off	180.00	43.05	0.00	10.60	0.00												456.33	0.00	168.00
Top-B	6` Stand-Off	180.00	43.05	0.00	10.60	120.00												456.33	0.00	168.00
Top-C1	6` Stand-Off	180.00	43.05	0.00	10.60	260.00												456.33	0.00	168.00
Top-C2	6` Stand-Off	180.00	43.05	0.00	10.60	220.00												456.33	0.00	168.00
ATT-B7	Powerwave 7770	150.00	41.44	0.00	5.88	120.00												243.65	0.00	42.00
ATT-B8	Powerwave 7770	150.00	41.44	0.00	5.88	120.00												243.65	0.00	42.00
ATT-C7	Powerwave 7770	150.00	41.44	0.00	5.88	240.00												243.65	0.00	42.00
ATT-C8	Powerwave 7770	150.00	41.44	0.00	5.88	240.00												243.65	0.00	42.00
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	40.02	0.00	3.13	0.00												125.05	0.00	139.20
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	40.02	0.00	3.13	120.00												125.05	0.00	139.20
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	40.02	0.00	3.13	240.00												125.05	0.00	139.20
Verizon-28	RRH B5B/BB13 (RFV01U-D2A)	126.66	40.02	0.00	3.13	0.00												125.05	0.00	118.20
Verizon-29	RRH B5B/BB13 (RFV01U-D2A)	126.66	40.02	0.00	3.13	120.00												125.05	0.00	118.20
Verizon-30	RRH B5B/BB13 (RFV01U-D2A)	126.66	40.02	0.00	3.13	240.00												125.05	0.00	118.20
Verizon-31	CBC78T-DS-43-2X	126.66	40.02	0.00	0.83	0.00												33.29	0.00	18.78
Verizon-32	CBC78T-DS-43-2X	126.66	40.02	0.00	0.83	120.00												33.29	0.00	18.78
Verizon-33	CBC78T-DS-43-2X	126.66	40.02	0.00	0.83	240.00												33.29	0.00	18.78

EIA Section Load Case Information for "1: 1.2D + 1.0Dg + 1.6Wo":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	42.54	0.00	20.58	21.02	12.12	163.7	0.25	1.00	1.00	0.58	2.43	32.7	3374	40.00	2.00	0.00	0.60	0.00	3403	6777	6708
B	160.00	140.00	150.00	41.44	0.00	22.52	27.30	15.20	191.0	0.26	1.00	1.00	0.55	2.41	37.7	3760	60.00	2.00	0.00	0.60	0.00	4973	8732	7161
C	140.00	120.00	130.00	40.23	0.00	25.73	29.16	15.99	218.3	0.25	1.00	1.00	0.55	2.43	41.7	4084	80.00	2.00	0.00	0.60	0.00	6437	10521	7967
D	120.00	100.00	110.00	38.90	0.00	30.37	36.61	19.30	245.5	0.27	1.00	1.00	0.52	2.37	49.7	4581	80.00	2.00	0.00	0.60	0.00	6224	10805	8794
E	100.00	80.00	90.00	37.47	0.00	37.01	40.26	20.96	272.8	0.28	1.00	1.00	0.50	2.34	58.0	5086	80.00	2.00	0.00	0.60	0.00	5995	11081	11980
F	80.00	60.00	70.00	36.06	0.00	37.32	43.90	22.14	300.0	0.27	1.00	1.00	0.50	2.38	59.5	5095	80.00	2.00	0.00	0.60	0.00	5769	10864	12598

G	60.00	40.00	50.00	35.08	0.00	42.28	50.37	25.59	327.3	0.28	1.00	1.00	0.50	2.34	67.9	5575	80.00	2.00	0.00	0.60	0.00	5612	11187	14075
H	40.00	20.00	30.00	35.73	0.00	48.05	50.83	25.68	354.6	0.28	1.00	1.00	0.49	2.35	73.7	6200	80.00	2.00	0.00	0.60	0.00	5716	11916	14983
I	20.00	0.00	10.00	43.45	0.00	59.30	58.17	29.86	381.9	0.31	1.00	1.00	0.51	2.28	89.2	8816	72.00	2.00	0.00	0.60	0.00	6256	15073	15101

Equipment Load Case Information for "2: 0.9D + 1.0Dg + 1.6Wo":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
DNK-1	5` Dipole	60.00	35.46	0.00	3.95	0.00							140.22	0.00	45.00
MT-DNK1	3` Stand-Off	60.00	35.46	0.00	2.72	0.00							96.46	0.00	45.00
DNK2-GPS68	GPS	60.00	35.46	0.00	1.00	120.00							35.46	0.00	9.00
MT-DNK2	3` Stand-Off	60.00	35.46	0.00	2.72	120.00							96.46	0.00	45.00
DNK3-GPS69	GPS	60.00	35.46	0.00	1.00	240.00							35.46	0.00	9.00
MT-DNK3	3` Stand-Off	60.00	35.46	0.00	2.72	240.00							96.46	0.00	45.00
DNK4-DOT56	10` Dipole	60.00	35.46	0.00	9.17	240.00							325.08	0.00	41.40
MT-DNK4	3` Stand-Off	60.00	35.46	0.00	2.72	240.00							96.46	0.00	45.00
DNK5-NEU16	8` Omni	80.00	36.75	0.00	2.00	240.00							73.49	0.00	4.50
MT-DNK5	6` Stand-Off	80.00	36.75	0.00	10.60	240.00							389.50	0.00	126.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	39.58	0.00	1.32	120.00							52.09	0.00	9.00
MT-DNK9	3` Stand-Off	120.00	39.58	0.00	2.72	120.00							107.66	0.00	45.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	39.58	0.00	1.32	120.00							52.09	0.00	9.00
DNK7-NEU17	12` Omni	113.34	39.13	0.00	4.00	0.00							156.52	0.00	49.50
MT-DNK7	3` Stand-Off	113.34	39.13	0.00	2.72	0.00							106.43	0.00	45.00
Sprint-A	12` T-Arm	113.34	39.13	0.00	13.60	0.00							532.17	0.00	418.50
Sprint-B	12` T-Arm	113.34	39.13	0.00	13.60	120.00							532.17	0.00	418.50
Sprint-C	12` T-Arm	113.34	39.13	0.00	13.60	240.00							532.17	0.00	418.50
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	39.13	0.00	8.26	0.00							323.21	0.00	81.00
Sprint-2	ALU RRH	113.34	39.13	0.00	6.90	0.00							269.87	0.00	54.00
Sprint-3	ALU RRH	113.34	39.13	0.00	6.90	0.00							269.87	0.00	54.00
Sprint-4	RFS APXVSPP18-C w/ ice	113.34	39.13	0.00	8.26	120.00							323.21	0.00	81.00
Sprint-5	ALU RRH	113.34	39.13	0.00	6.90	120.00							269.87	0.00	54.00
Sprint-6	ALU RRH	113.34	39.13	0.00	6.90	120.00							269.87	0.00	54.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	39.13	0.00	8.26	240.00							323.21	0.00	81.00
Sprint-8	ALU RRH	113.34	39.13	0.00	6.90	240.00							269.87	0.00	54.00
Sprint-9	ALU RRH	113.34	39.13	0.00	6.90	240.00							269.87	0.00	54.00
Sprint-10	DT465B-2XR-V2	113.34	39.13	0.00	9.65	0.00							377.47	0.00	79.56
Sprint-11	DT465B-2XR-V2	113.34	39.13	0.00	9.65	120.00							377.47	0.00	79.56
Sprint-12	DT465B-2XR-V2	113.34	39.13	0.00	9.65	240.00							377.47	0.00	79.56
Sprint-13	800 MHz RRH Unit	113.34	39.13	0.00	6.90	0.00							269.87	0.00	54.00
Sprint-14	800 MHz RRH Unit	113.34	39.13	0.00	6.90	120.00							269.87	0.00	54.00
Sprint-15	800 MHz RRH Unit	113.34	39.13	0.00	6.90	240.00							269.87	0.00	54.00
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	39.13	0.00	4.72	0.00							184.68	0.00	59.52
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	39.13	0.00	4.72	120.00							184.68	0.00	59.52
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	39.13	0.00	4.72	240.00							184.68	0.00	59.52
Verizon-A	Boom Gate	126.66	40.02	0.00	13.60	0.00							544.21	0.00	423.90
Verizon-B	Boom Gate	126.66	40.02	0.00	13.60	120.00							544.21	0.00	423.90
Verizon-C	Boom Gate	126.66	40.02	0.00	13.60	240.00							544.21	0.00	423.90
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	0.00							158.73	0.00	9.00
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	0.00							158.73	0.00	9.00
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	120.00							158.73	0.00	9.00
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	120.00							158.73	0.00	9.00
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	240.00							158.73	0.00	9.00
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	40.02	0.00	3.97	240.00							158.73	0.00	9.00
Verizon-7	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	0.00							386.55	0.00	113.67
Verizon-8	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	0.00							386.55	0.00	113.67
Verizon-9	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	120.00							386.55	0.00	113.67
Verizon-10	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	120.00							386.55	0.00	113.67
Verizon-11	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	240.00							386.55	0.00	113.67
Verizon-12	JAHH-65B-R3B Panel	126.66	40.02	0.00	9.66	240.00							386.55	0.00	113.67
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	40.02	0.00	3.78	0.00							151.42	0.00	104.40
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	40.02	0.00	3.78	120.00							151.42	0.00	104.40
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	40.02	0.00	3.78	240.00							151.42	0.00	104.40
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	40.02	0.00	5.60	0.00							224.08	0.00	40.50
NEU-18	12` Omni	126.66	40.02	0.00	4.00	0.00							160.06	0.00	49.50
DNK15-CSP21	RFS PD1142 w/ ice	133.34	40.44	0.00	1.32	120.00							53.22	0.00	9.00
MT-DNK15	3` Stand-Off	133.34	40.44	0.00	2.72	120.00							109.99	0.00	45.00

DNK-12	5` Dipole	133.34	40.44	0.00	3.95	240.00						159.89	0.00	45.00
MT-DNK12	3` Stand-Off	133.34	40.44	0.00	2.72	240.00						109.99	0.00	45.00
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	40.44	0.00	6.53	0.00						264.20	0.00	99.02
T-Mobile-2	AIR32 B66/B2A	133.34	40.44	0.00	5.84	0.00						236.34	0.00	118.98
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	40.44	0.00	22.38	0.00						904.89	0.00	135.00
T-Mobile-4	Ericsson AIR B2A/B4P	133.34	40.44	0.00	6.53	120.00						264.20	0.00	99.02
T-Mobile-5	AIR32 B66/B2A	133.34	40.44	0.00	5.84	120.00						236.34	0.00	118.98
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	40.44	0.00	22.38	120.00						904.89	0.00	135.00
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	40.44	0.00	6.53	240.00						264.20	0.00	99.02
T-Mobile-8	AIR32 B66/B2A	133.34	40.44	0.00	5.84	240.00						236.34	0.00	118.98
T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	40.44	0.00	22.38	240.00						904.89	0.00	135.00
T-Mobile-10	Twin TMA Unit - Generic	133.34	40.44	0.00	1.12	0.00						45.46	0.00	22.50
T-Mobile-11	Twin TMA Unit - Generic	133.34	40.44	0.00	1.12	120.00						45.46	0.00	22.50
T-Mobile-12	Twin TMA Unit - Generic	133.34	40.44	0.00	1.12	240.00						45.46	0.00	22.50
T-Mobile-13	RRHU-11 RRH Unit	133.34	40.44	0.00	2.99	0.00						121.07	0.00	45.00
T-Mobile-14	RRHU-11 RRH Unit	133.34	40.44	0.00	2.99	120.00						121.07	0.00	45.00
T-Mobile-15	RRHU-11 RRH Unit	133.34	40.44	0.00	2.99	240.00						121.07	0.00	45.00
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	40.44	0.00	1.26	0.00						51.09	0.00	54.00
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	40.44	0.00	1.26	120.00						51.09	0.00	54.00
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	40.44	0.00	1.26	240.00						51.09	0.00	54.00
T-Mobile-19	Diplexer Unit - Generic	133.34	40.44	0.00	0.72	0.00						29.31	0.00	22.50
T-Mobile-20	Diplexer Unit - Generic	133.34	40.44	0.00	0.72	120.00						29.31	0.00	22.50
T-Mobile-21	Diplexer Unit - Generic	133.34	40.44	0.00	0.72	240.00						29.31	0.00	22.50
ATT-A	12` T-Arm	150.00	41.44	0.00	13.60	0.00						563.55	0.00	418.50
ATT-B	12` T-Arm	150.00	41.44	0.00	13.60	120.00						563.55	0.00	418.50
ATT-C	12` T-Arm	150.00	41.44	0.00	13.60	240.00						563.55	0.00	418.50
ATT-A1	Powerwave 7770	150.00	41.44	0.00	5.88	0.00						243.65	0.00	31.50
ATT-A2	Powerwave 7770	150.00	41.44	0.00	5.88	0.00						243.65	0.00	31.50
ATT-A3	RRHU-11 RRH Unit	150.00	41.44	0.00	2.99	0.00						124.06	0.00	45.00
ATT-A4	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	0.00						53.37	0.00	12.69
ATT-A5	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	0.00						53.37	0.00	12.69
ATT-A6	Raycap Surge Suppressor	150.00	41.44	0.00	1.79	0.00						74.04	0.00	24.30
ATT-A7	OPA-65-LCUU-H6 Panel	150.00	41.44	0.00	10.12	0.00						419.44	0.00	57.60
ATT-A8	RRUS-32 RRH Unit	150.00	41.44	0.00	3.88	0.00						160.74	0.00	72.00
ATT-B1	RRHU-11 RRH Unit	150.00	41.44	0.00	2.99	120.00						124.06	0.00	45.00
ATT-B2	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	120.00						53.37	0.00	12.69
ATT-B3	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	120.00						53.37	0.00	12.69
ATT-B4	OPA-65-LCUU-H6 Panel	150.00	41.44	0.00	10.12	120.00						419.44	0.00	57.60
ATT-B5	RRUS-32 RRH Unit	150.00	41.44	0.00	3.88	120.00						160.74	0.00	72.00
ATT-C1	RRHU-11 RRH Unit	150.00	41.44	0.00	2.99	240.00						124.06	0.00	45.00
ATT-C2	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	240.00						53.37	0.00	12.69
ATT-C3	TMA Unit (LGP24101)	150.00	41.44	0.00	1.29	240.00						53.37	0.00	12.69
ATT-C4	OPA-65-LCUU-H6 Panel	150.00	41.44	0.00	10.12	240.00						419.44	0.00	57.60
ATT-C5	RRUS-32 RRH Unit	150.00	41.44	0.00	3.88	240.00						160.74	0.00	72.00
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	42.00	0.00	5.06	0.00						212.41	0.00	30.60
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	42.00	0.00	5.06	120.00						212.41	0.00	30.60
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	42.00	0.00	5.06	240.00						212.41	0.00	30.60
CSP-73	TMA	160.00	42.00	0.00	1.29	240.00						54.10	0.00	13.50
DNK21-SPD9	8` Dish with Radome	160.00	42.00	0.00	51.32	0.00	0.86330		1860.78			1860.78	0.00	504.00
DNK20-UNKNOWN	4`x1` Panel	160.00	42.00	0.00	6.53	240.00						274.26	0.00	27.00
DNK19-STAM63	4`x1` Panel	160.00	42.00	0.00	6.53	120.00						274.26	0.00	27.00
159-A	3` Stand-Off	160.00	42.00	0.00	2.72	0.00						114.24	0.00	45.00
159-B	3` Stand-Off	160.00	42.00	0.00	2.72	120.00						114.24	0.00	45.00
160	3` Stand-Off	160.00	42.00	0.00	2.72	240.00						114.24	0.00	45.00
DNK22-TOG-6	DB586-Y	165.00	42.27	0.00	1.01	0.00						42.88	0.00	7.42
DNK23-STAM64	4`x1` Panel	165.00	42.27	0.00	6.53	0.00						276.03	0.00	27.00
DNK23-STAM65	TMA	165.00	42.27	0.00	1.29	0.00						54.45	0.00	13.50
GRN-1 (DNK25)	4` Dish	170.00	42.54	0.00	13.10	50.00	1.66410	0.08980	-0.06910	927.29	50.04	927.29	-50.04	108.00
DNK26aCSP-67	Dipole	175.00	42.80	0.00	9.17	0.00						392.30	0.00	41.40
DNK26bNEU-20	4` Dipole	175.00	42.80	0.00	3.70	0.00						158.21	0.00	36.00
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	42.80	0.00	5.06	240.00						216.44	0.00	30.60
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	42.80	0.00	2.27	120.00						97.29	0.00	16.65
DNK27C-CSP74	TMA	175.00	42.80	0.00	1.29	120.00						55.12	0.00	13.50
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	42.80	0.00	2.27	120.00						97.29	0.00	16.65
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	42.80	0.00	5.06	240.00						216.44	0.00	30.60
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	42.80	0.00	0.54	0.00						22.99	0.00	5.63
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	42.80	0.00	1.64	240.00						70.32	0.00	9.00
Top-A	6` Stand-Off	180.00	43.05	0.00	10.60	0.00						456.33	0.00	126.00
Top-B	6` Stand-Off	180.00	43.05	0.00	10.60	120.00						456.33	0.00	126.00

Top-C1	6` Stand-Off	180.00	43.05	0.00	10.60	260.00	456.33	0.00	126.00
Top-C2	6` Stand-Off	180.00	43.05	0.00	10.60	220.00	456.33	0.00	126.00
ATT-B7	Powerwave 7770	150.00	41.44	0.00	5.88	120.00	243.65	0.00	31.50
ATT-B8	Powerwave 7770	150.00	41.44	0.00	5.88	120.00	243.65	0.00	31.50
ATT-C7	Powerwave 7770	150.00	41.44	0.00	5.88	240.00	243.65	0.00	31.50
ATT-C8	Powerwave 7770	150.00	41.44	0.00	5.88	240.00	243.65	0.00	31.50
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	40.02	0.00	3.13	0.00	125.05	0.00	104.40
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	40.02	0.00	3.13	120.00	125.05	0.00	104.40
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	40.02	0.00	3.13	240.00	125.05	0.00	104.40
Verizon-28	RRH B5B/BB13 (RFV01U-D2A)	126.66	40.02	0.00	3.13	0.00	125.05	0.00	88.65
Verizon-29	RRH B5B/BB13 (RFV01U-D2A)	126.66	40.02	0.00	3.13	120.00	125.05	0.00	88.65
Verizon-30	RRH B5B/BB13 (RFV01U-D2A)	126.66	40.02	0.00	3.13	240.00	125.05	0.00	88.65
Verizon-31	CBC78T-DS-43-2X	126.66	40.02	0.00	0.83	0.00	33.29	0.00	14.09
Verizon-32	CBC78T-DS-43-2X	126.66	40.02	0.00	0.83	120.00	33.29	0.00	14.09
Verizon-33	CBC78T-DS-43-2X	126.66	40.02	0.00	0.83	240.00	33.29	0.00	14.09

EIA Section Load Case Information for "2: 0.9D + 1.0Dg + 1.6Wo":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	42.54	0.00	20.58	21.02	12.12	163.7	0.25	1.00	1.00	0.58	2.43	32.7	3374	40.00	2.00	0.00	0.60	0.00	3403	6777	5031
B	160.00	140.00	150.00	41.44	0.00	22.52	27.30	15.20	191.0	0.26	1.00	1.00	0.55	2.41	37.7	3760	60.00	2.00	0.00	0.60	0.00	4973	8732	5371
C	140.00	120.00	130.00	40.23	0.00	25.73	29.16	15.99	218.3	0.25	1.00	1.00	0.55	2.43	41.7	4084	80.00	2.00	0.00	0.60	0.00	6437	10521	5975
D	120.00	100.00	110.00	38.90	0.00	30.37	36.61	19.30	245.5	0.27	1.00	1.00	0.52	2.37	49.7	4581	80.00	2.00	0.00	0.60	0.00	6224	10805	6596
E	100.00	80.00	90.00	37.47	0.00	37.01	40.26	20.96	272.8	0.28	1.00	1.00	0.50	2.34	58.0	5086	80.00	2.00	0.00	0.60	0.00	5995	11081	8985
F	80.00	60.00	70.00	36.06	0.00	37.32	43.90	22.14	300.0	0.27	1.00	1.00	0.50	2.38	59.5	5095	80.00	2.00	0.00	0.60	0.00	5769	10864	9449
G	60.00	40.00	50.00	35.08	0.00	42.28	50.37	25.59	327.3	0.28	1.00	1.00	0.50	2.34	67.9	5575	80.00	2.00	0.00	0.60	0.00	5612	11187	10556
H	40.00	20.00	30.00	35.73	0.00	48.05	50.83	25.68	354.6	0.28	1.00	1.00	0.49	2.35	73.7	6200	80.00	2.00	0.00	0.60	0.00	5716	11916	11237
I	20.00	0.00	10.00	43.45	0.00	59.30	58.17	29.86	381.9	0.31	1.00	1.00	0.51	2.28	89.2	8816	72.00	2.00	0.00	0.60	0.00	6256	15073	11326

Equipment Load Case Information for "4: 1.2D + 1.0Dg + 1.0E":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Long. Moment MM (ft-lbs)	Trans. Load (lbs)	Vert. Load (lbs)
DNK-1	5` Dipole	60.00	0.00	0.00	3.95	0.00						0.00	0.00	60.00
MT-DNK1	3` Stand-Off	60.00	0.00	0.00	2.72	0.00						0.00	0.00	60.00
DNK2-GPS68	GPS	60.00	0.00	0.00	1.00	120.00						0.00	0.00	12.00
MT-DNK2	3` Stand-Off	60.00	0.00	0.00	2.72	120.00						0.00	0.00	60.00
DNK3-GPS69	GPS	60.00	0.00	0.00	1.00	240.00						0.00	0.00	12.00
MT-DNK3	3` Stand-Off	60.00	0.00	0.00	2.72	240.00						0.00	0.00	60.00
DNK4-DOT56	10` Dipole	60.00	0.00	0.00	9.17	240.00						0.00	0.00	55.20
MT-DNK4	3` Stand-Off	60.00	0.00	0.00	2.72	240.00						0.00	0.00	60.00
DNK5-NEU16	8` Omni	80.00	0.00	0.00	2.00	240.00						0.00	0.00	6.00
MT-DNK5	6` Stand-Off	80.00	0.00	0.00	10.60	240.00						0.00	0.00	168.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00						0.00	0.00	12.00
MT-DNK9	3` Stand-Off	120.00	0.00	0.00	2.72	120.00						0.00	0.00	60.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00						0.00	0.00	12.00
DNK7-NEU17	12` Omni	113.34	0.00	0.00	4.00	0.00						0.00	0.00	66.00
MT-DNK7	3` Stand-Off	113.34	0.00	0.00	2.72	0.00						0.00	0.00	60.00
Sprint-A	12` T-Arm	113.34	0.00	0.00	13.60	0.00						0.00	0.00	558.00
Sprint-B	12` T-Arm	113.34	0.00	0.00	13.60	120.00						0.00	0.00	558.00
Sprint-C	12` T-Arm	113.34	0.00	0.00	13.60	240.00						0.00	0.00	558.00
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	0.00						0.00	0.00	108.00
Sprint-2	ALU RRH	113.34	0.00	0.00	6.90	0.00						0.00	0.00	72.00
Sprint-3	ALU RRH	113.34	0.00	0.00	6.90	0.00						0.00	0.00	72.00
Sprint-4	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	120.00						0.00	0.00	108.00
Sprint-5	ALU RRH	113.34	0.00	0.00	6.90	120.00						0.00	0.00	72.00
Sprint-6	ALU RRH	113.34	0.00	0.00	6.90	120.00						0.00	0.00	72.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	240.00						0.00	0.00	108.00
Sprint-8	ALU RRH	113.34	0.00	0.00	6.90	240.00						0.00	0.00	72.00

Sprint-9	ALU RRH	113.34	0.00	0.00	6.90	240.00	0.00	0.00	72.00
Sprint-10	DT465B-2XR-V2	113.34	0.00	0.00	9.65	0.00	0.00	0.00	106.08
Sprint-11	DT465B-2XR-V2	113.34	0.00	0.00	9.65	120.00	0.00	0.00	106.08
Sprint-12	DT465B-2XR-V2	113.34	0.00	0.00	9.65	240.00	0.00	0.00	106.08
Sprint-13	800 MHz RRH Unit	113.34	0.00	0.00	6.90	0.00	0.00	0.00	72.00
Sprint-14	800 MHz RRH Unit	113.34	0.00	0.00	6.90	120.00	0.00	0.00	72.00
Sprint-15	800 MHz RRH Unit	113.34	0.00	0.00	6.90	240.00	0.00	0.00	72.00
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	0.00	0.00	0.00	79.36
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	120.00	0.00	0.00	79.36
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	240.00	0.00	0.00	79.36
Verizon-A	Boom Gate	126.66	0.00	0.00	13.60	0.00	0.00	0.00	565.20
Verizon-B	Boom Gate	126.66	0.00	0.00	13.60	120.00	0.00	0.00	565.20
Verizon-C	Boom Gate	126.66	0.00	0.00	13.60	240.00	0.00	0.00	565.20
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00	0.00	0.00	12.00
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00	0.00	0.00	12.00
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00	0.00	0.00	12.00
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00	0.00	0.00	12.00
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00	0.00	0.00	12.00
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00	0.00	0.00	12.00
Verizon-7	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00	0.00	0.00	151.56
Verizon-8	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00	0.00	0.00	151.56
Verizon-9	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00	0.00	0.00	151.56
Verizon-10	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00	0.00	0.00	151.56
Verizon-11	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00	0.00	0.00	151.56
Verizon-12	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00	0.00	0.00	151.56
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	0.00	0.00	0.00	139.20
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	120.00	0.00	0.00	139.20
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	240.00	0.00	0.00	139.20
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	0.00	0.00	5.60	0.00	0.00	0.00	54.00
NEU-18	12` Omni	126.66	0.00	0.00	4.00	0.00	0.00	0.00	66.00
DNK15-CSP21	RFS PD1142 w/ ice	133.34	0.00	0.00	1.32	120.00	0.00	0.00	12.00
MT-DNK15	3` Stand-Off	133.34	0.00	0.00	2.72	120.00	0.00	0.00	60.00
DNK-12	5` Dipole	133.34	0.00	0.00	3.95	240.00	0.00	0.00	60.00
MT-DNK12	3` Stand-Off	133.34	0.00	0.00	2.72	240.00	0.00	0.00	60.00
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	0.00	0.00	0.00	132.02
T-Mobile-2	AIR32 B66/B2A	133.34	0.00	0.00	5.84	0.00	0.00	0.00	158.64
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	0.00	0.00	0.00	180.00
T-Mobile-4	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	120.00	0.00	0.00	132.02
T-Mobile-5	AIR32 B66/B2A	133.34	0.00	0.00	5.84	120.00	0.00	0.00	158.64
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	120.00	0.00	0.00	180.00
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	240.00	0.00	0.00	132.02
T-Mobile-8	AIR32 B66/B2A	133.34	0.00	0.00	5.84	240.00	0.00	0.00	158.64
T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	240.00	0.00	0.00	180.00
T-Mobile-10	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	0.00	0.00	0.00	30.00
T-Mobile-11	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	120.00	0.00	0.00	30.00
T-Mobile-12	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	240.00	0.00	0.00	30.00
T-Mobile-13	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	0.00	0.00	0.00	60.00
T-Mobile-14	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	120.00	0.00	0.00	60.00
T-Mobile-15	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	240.00	0.00	0.00	60.00
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	0.00	0.00	0.00	72.00
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	120.00	0.00	0.00	72.00
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	240.00	0.00	0.00	72.00
T-Mobile-19	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	0.00	0.00	0.00	30.00
T-Mobile-20	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	120.00	0.00	0.00	30.00
T-Mobile-21	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	240.00	0.00	0.00	30.00
ATT-A	12` T-Arm	150.00	0.00	0.00	13.60	0.00	0.00	0.00	558.00
ATT-B	12` T-Arm	150.00	0.00	0.00	13.60	120.00	0.00	0.00	558.00
ATT-C	12` T-Arm	150.00	0.00	0.00	13.60	240.00	0.00	0.00	558.00
ATT-A1	Powerwave 7770	150.00	0.00	0.00	5.88	0.00	0.00	0.00	42.00
ATT-A2	Powerwave 7770	150.00	0.00	0.00	5.88	0.00	0.00	0.00	42.00
ATT-A3	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	0.00	0.00	0.00	60.00
ATT-A4	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00	0.00	0.00	16.92
ATT-A5	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00	0.00	0.00	16.92
ATT-A6	Raycap Surge Suppressor	150.00	0.00	0.00	1.79	0.00	0.00	0.00	32.40
ATT-A7	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	0.00	0.00	0.00	76.80
ATT-A8	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	0.00	0.00	0.00	96.00
ATT-B1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	120.00	0.00	0.00	60.00
ATT-B2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00	0.00	0.00	16.92
ATT-B3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00	0.00	0.00	16.92

ATT-B4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	120.00						0.00	0.00	76.80
ATT-B5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	120.00						0.00	0.00	96.00
ATT-C1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	240.00						0.00	0.00	60.00
ATT-C2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00						0.00	0.00	16.92
ATT-C3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00						0.00	0.00	16.92
ATT-C4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	240.00						0.00	0.00	76.80
ATT-C5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	240.00						0.00	0.00	96.00
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	0.00						0.00	0.00	40.80
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	120.00						0.00	0.00	40.80
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	240.00						0.00	0.00	40.80
CSP-73	TMA	160.00	0.00	0.00	1.29	240.00						0.00	0.00	18.00
DNK21-SPD9	8' Dish with Radome	160.00	0.00	0.00	51.32	0.00	0.86330					0.00	0.00	672.00
DNK20-UNKNOWN	4'x1' Panel	160.00	0.00	0.00	6.53	240.00						0.00	0.00	36.00
DNK19-STAM63	4'x1' Panel	160.00	0.00	0.00	6.53	120.00						0.00	0.00	36.00
159-A	3' Stand-Off	160.00	0.00	0.00	2.72	0.00						0.00	0.00	60.00
159-B	3' Stand-Off	160.00	0.00	0.00	2.72	120.00						0.00	0.00	60.00
160	3' Stand-Off	160.00	0.00	0.00	2.72	240.00						0.00	0.00	60.00
DNK22-TOG-6	DB586-Y	165.00	0.00	0.00	1.01	0.00						0.00	0.00	9.90
DNK23-STAM64	4'x1' Panel	165.00	0.00	0.00	6.53	0.00						0.00	0.00	36.00
DNK23-STAM65	TMA	165.00	0.00	0.00	1.29	0.00						0.00	0.00	18.00
GRN-1 (DNK25)	4' Dish	170.00	0.00	0.00	13.10	50.00	1.66410	0.08980	-0.06910			0.00	0.00	144.00
DNK26aCSP-67	Dipole	175.00	0.00	0.00	9.17	0.00						0.00	0.00	55.20
DNK26bNEU-20	4' Dipole	175.00	0.00	0.00	3.70	0.00						0.00	0.00	48.00
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00						0.00	0.00	40.80
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00						0.00	0.00	22.20
DNK27C-CSP74	TMA	175.00	0.00	0.00	1.29	120.00						0.00	0.00	18.00
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00						0.00	0.00	22.20
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00						0.00	0.00	40.80
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	0.00	0.00	0.54	0.00						0.00	0.00	7.50
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	0.00	0.00	1.64	240.00						0.00	0.00	12.00
Top-A	6' Stand-Off	180.00	0.00	0.00	10.60	0.00						0.00	0.00	168.00
Top-B	6' Stand-Off	180.00	0.00	0.00	10.60	120.00						0.00	0.00	168.00
Top-C1	6' Stand-Off	180.00	0.00	0.00	10.60	260.00						0.00	0.00	168.00
Top-C2	6' Stand-Off	180.00	0.00	0.00	10.60	220.00						0.00	0.00	168.00
ATT-B7	Powerwave 7770	150.00	0.00	0.00	5.88	120.00						0.00	0.00	42.00
ATT-B8	Powerwave 7770	150.00	0.00	0.00	5.88	120.00						0.00	0.00	42.00
ATT-C7	Powerwave 7770	150.00	0.00	0.00	5.88	240.00						0.00	0.00	42.00
ATT-C8	Powerwave 7770	150.00	0.00	0.00	5.88	240.00						0.00	0.00	42.00
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	0.00						0.00	0.00	139.20
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	120.00						0.00	0.00	139.20
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	240.00						0.00	0.00	139.20
Verizon-28	RRH B5B/B13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	0.00						0.00	0.00	118.20
Verizon-29	RRH B5B/B13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	120.00						0.00	0.00	118.20
Verizon-30	RRH B5B/B13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	240.00						0.00	0.00	118.20
Verizon-31	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	0.00						0.00	0.00	18.78
Verizon-32	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	120.00						0.00	0.00	18.78
Verizon-33	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	240.00						0.00	0.00	18.78

EIA Section Load Case Information for "4: 1.2D + 1.0Dg + 1.0E":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads) Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	0.00	0.00	20.58	21.02	12.32	163.7	0.25	1.00	1.00	0.59	2.43	32.9	0	24.00	2.00	0.00	1.20	0.00	0	0	6708
B	160.00	140.00	150.00	0.00	0.00	22.52	27.30	16.04	191.0	0.26	1.00	1.00	0.59	2.41	38.6	0	36.00	2.00	0.00	1.20	0.00	0	0	7161
C	140.00	120.00	130.00	0.00	0.00	25.73	29.16	17.07	218.3	0.25	1.00	1.00	0.59	2.43	42.8	0	48.00	2.00	0.00	1.20	0.00	0	0	7967
D	120.00	100.00	110.00	0.00	0.00	30.37	36.61	21.63	245.5	0.27	1.00	1.00	0.59	2.37	52.0	0	48.00	2.00	0.00	1.20	0.00	0	0	8794
E	100.00	80.00	90.00	0.00	0.00	37.01	40.26	23.91	272.8	0.28	1.00	1.00	0.59	2.34	60.9	0	48.00	2.00	0.00	1.20	0.00	0	0	11980
F	80.00	60.00	70.00	0.00	0.00	37.32	43.90	25.92	300.0	0.27	1.00	1.00	0.59	2.38	63.2	0	48.00	2.00	0.00	1.20	0.00	0	0	12598
G	60.00	40.00	50.00	0.00	0.00	42.28	50.37	29.91	327.3	0.28	1.00	1.00	0.59	2.34	72.2	0	48.00	2.00	0.00	1.20	0.00	0	0	14075
H	40.00	20.00	30.00	0.00	0.00	48.05	50.83	30.12	354.6	0.28	1.00	1.00	0.59	2.35	78.2	0	48.00	2.00	0.00	1.20	0.00	0	0	14983
I	20.00	0.00	10.00	0.00	0.00	59.30	58.17	34.98	381.9	0.31	1.00	1.00	0.60	2.28	94.3	0	43.20	2.00	0.00	1.20	0.00	0	0	15101

Equipment Load Case Information for "5: 0.9D + 1.0Dg + 1.0E":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
DNK-1	5` Dipole	60.00	0.00	0.00	3.95	0.00							0.00	0.00	45.00
MT-DNK1	3` Stand-Off	60.00	0.00	0.00	2.72	0.00							0.00	0.00	45.00
DNK2-GPS68	GPS	60.00	0.00	0.00	1.00	120.00							0.00	0.00	9.00
MT-DNK2	3` Stand-Off	60.00	0.00	0.00	2.72	120.00							0.00	0.00	45.00
DNK3-GPS69	GPS	60.00	0.00	0.00	1.00	240.00							0.00	0.00	9.00
MT-DNK3	3` Stand-Off	60.00	0.00	0.00	2.72	240.00							0.00	0.00	45.00
DNK4-DOT56	10` Dipole	60.00	0.00	0.00	9.17	240.00							0.00	0.00	41.40
MT-DNK4	3` Stand-Off	60.00	0.00	0.00	2.72	240.00							0.00	0.00	45.00
DNK5-NEU16	8` Omni	80.00	0.00	0.00	2.00	240.00							0.00	0.00	4.50
MT-DNK5	6` Stand-Off	80.00	0.00	0.00	10.60	240.00							0.00	0.00	126.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00							0.00	0.00	9.00
MT-DNK9	3` Stand-Off	120.00	0.00	0.00	2.72	120.00							0.00	0.00	45.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00							0.00	0.00	9.00
DNK7-NEU17	12` Omni	113.34	0.00	0.00	4.00	0.00							0.00	0.00	49.50
MT-DNK7	3` Stand-Off	113.34	0.00	0.00	2.72	0.00							0.00	0.00	45.00
Sprint-A	12` T-Arm	113.34	0.00	0.00	13.60	0.00							0.00	0.00	418.50
Sprint-B	12` T-Arm	113.34	0.00	0.00	13.60	120.00							0.00	0.00	418.50
Sprint-C	12` T-Arm	113.34	0.00	0.00	13.60	240.00							0.00	0.00	418.50
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	0.00							0.00	0.00	81.00
Sprint-2	ALU RRH	113.34	0.00	0.00	6.90	0.00							0.00	0.00	54.00
Sprint-3	ALU RRH	113.34	0.00	0.00	6.90	0.00							0.00	0.00	54.00
Sprint-4	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	120.00							0.00	0.00	81.00
Sprint-5	ALU RRH	113.34	0.00	0.00	6.90	120.00							0.00	0.00	54.00
Sprint-6	ALU RRH	113.34	0.00	0.00	6.90	120.00							0.00	0.00	54.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	240.00							0.00	0.00	81.00
Sprint-8	ALU RRH	113.34	0.00	0.00	6.90	240.00							0.00	0.00	54.00
Sprint-9	ALU RRH	113.34	0.00	0.00	6.90	240.00							0.00	0.00	54.00
Sprint-10	DT465B-2XR-V2	113.34	0.00	0.00	9.65	0.00							0.00	0.00	79.56
Sprint-11	DT465B-2XR-V2	113.34	0.00	0.00	9.65	120.00							0.00	0.00	79.56
Sprint-12	DT465B-2XR-V2	113.34	0.00	0.00	9.65	240.00							0.00	0.00	79.56
Sprint-13	800 MHz RRH Unit	113.34	0.00	0.00	6.90	0.00							0.00	0.00	54.00
Sprint-14	800 MHz RRH Unit	113.34	0.00	0.00	6.90	120.00							0.00	0.00	54.00
Sprint-15	800 MHz RRH Unit	113.34	0.00	0.00	6.90	240.00							0.00	0.00	54.00
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	0.00							0.00	0.00	59.52
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	120.00							0.00	0.00	59.52
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	240.00							0.00	0.00	59.52
Verizon-A	Boom Gate	126.66	0.00	0.00	13.60	0.00							0.00	0.00	423.90
Verizon-B	Boom Gate	126.66	0.00	0.00	13.60	120.00							0.00	0.00	423.90
Verizon-C	Boom Gate	126.66	0.00	0.00	13.60	240.00							0.00	0.00	423.90
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00							0.00	0.00	9.00
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00							0.00	0.00	9.00
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00							0.00	0.00	9.00
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00							0.00	0.00	9.00
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00							0.00	0.00	9.00
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00							0.00	0.00	9.00
Verizon-7	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00							0.00	0.00	113.67
Verizon-8	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00							0.00	0.00	113.67
Verizon-9	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00							0.00	0.00	113.67
Verizon-10	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00							0.00	0.00	113.67
Verizon-11	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00							0.00	0.00	113.67
Verizon-12	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00							0.00	0.00	113.67
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	0.00							0.00	0.00	104.40
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	120.00							0.00	0.00	104.40
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	240.00							0.00	0.00	104.40
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	0.00	0.00	5.60	0.00							0.00	0.00	40.50
NEU-18	12` Omni	126.66	0.00	0.00	4.00	0.00							0.00	0.00	49.50
DNK15-CSP21	RFS PD1142 w/ ice	133.34	0.00	0.00	1.32	120.00							0.00	0.00	9.00
MT-DNK15	3` Stand-Off	133.34	0.00	0.00	2.72	120.00							0.00	0.00	45.00
DNK-12	5` Dipole	133.34	0.00	0.00	3.95	240.00							0.00	0.00	45.00
MT-DNK12	3` Stand-Off	133.34	0.00	0.00	2.72	240.00							0.00	0.00	45.00
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	0.00							0.00	0.00	99.02
T-Mobile-2	AIR32 B66/B2A	133.34	0.00	0.00	5.84	0.00							0.00	0.00	118.98
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	0.00							0.00	0.00	135.00

T-Mobile-4	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	120.00			0.00	0.00	99.02
T-Mobile-5	AIR32 B66/B2A	133.34	0.00	0.00	5.84	120.00			0.00	0.00	118.98
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	120.00			0.00	0.00	135.00
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	240.00			0.00	0.00	99.02
T-Mobile-8	AIR32 B66/B2A	133.34	0.00	0.00	5.84	240.00			0.00	0.00	118.98
T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	240.00			0.00	0.00	135.00
T-Mobile-10	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	0.00			0.00	0.00	22.50
T-Mobile-11	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	120.00			0.00	0.00	22.50
T-Mobile-12	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	240.00			0.00	0.00	22.50
T-Mobile-13	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	0.00			0.00	0.00	45.00
T-Mobile-14	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	120.00			0.00	0.00	45.00
T-Mobile-15	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	240.00			0.00	0.00	45.00
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	0.00			0.00	0.00	54.00
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	120.00			0.00	0.00	54.00
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	240.00			0.00	0.00	54.00
T-Mobile-19	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	0.00			0.00	0.00	22.50
T-Mobile-20	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	120.00			0.00	0.00	22.50
T-Mobile-21	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	240.00			0.00	0.00	22.50
ATT-A	12` T-Arm	150.00	0.00	0.00	13.60	0.00			0.00	0.00	418.50
ATT-B	12` T-Arm	150.00	0.00	0.00	13.60	120.00			0.00	0.00	418.50
ATT-C	12` T-Arm	150.00	0.00	0.00	13.60	240.00			0.00	0.00	418.50
ATT-A1	Powerwave 7770	150.00	0.00	0.00	5.88	0.00			0.00	0.00	31.50
ATT-A2	Powerwave 7770	150.00	0.00	0.00	5.88	0.00			0.00	0.00	31.50
ATT-A3	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	0.00			0.00	0.00	45.00
ATT-A4	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00			0.00	0.00	12.69
ATT-A5	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00			0.00	0.00	12.69
ATT-A6	Raycap Surge Suppressor	150.00	0.00	0.00	1.79	0.00			0.00	0.00	24.30
ATT-A7	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	0.00			0.00	0.00	57.60
ATT-A8	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	0.00			0.00	0.00	72.00
ATT-B1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	120.00			0.00	0.00	45.00
ATT-B2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00			0.00	0.00	12.69
ATT-B3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00			0.00	0.00	12.69
ATT-B4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	120.00			0.00	0.00	57.60
ATT-B5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	120.00			0.00	0.00	72.00
ATT-C1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	240.00			0.00	0.00	45.00
ATT-C2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00			0.00	0.00	12.69
ATT-C3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00			0.00	0.00	12.69
ATT-C4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	240.00			0.00	0.00	57.60
ATT-C5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	240.00			0.00	0.00	72.00
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	0.00			0.00	0.00	30.60
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	120.00			0.00	0.00	30.60
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	240.00			0.00	0.00	30.60
CSP-73	TMA	160.00	0.00	0.00	1.29	240.00			0.00	0.00	13.50
DNK21-SPD9	8` Dish with Radome	160.00	0.00	0.00	51.32	0.00	0.86330		0.00	0.00	504.00
DNK20-UNKNOWN	4`x1` Panel	160.00	0.00	0.00	6.53	240.00			0.00	0.00	27.00
DNK19-STAM63	4`x1` Panel	160.00	0.00	0.00	6.53	120.00			0.00	0.00	27.00
159-A	3` Stand-Off	160.00	0.00	0.00	2.72	0.00			0.00	0.00	45.00
159-B	3` Stand-Off	160.00	0.00	0.00	2.72	120.00			0.00	0.00	45.00
160	3` Stand-Off	160.00	0.00	0.00	2.72	240.00			0.00	0.00	45.00
DNK22-TOG-6	DB586-Y	165.00	0.00	0.00	1.01	0.00			0.00	0.00	7.42
DNK23-STAM64	4`x1` Panel	165.00	0.00	0.00	6.53	0.00			0.00	0.00	27.00
DNK23-STAM65	TMA	165.00	0.00	0.00	1.29	0.00			0.00	0.00	13.50
GRN-1 (DNK25)	4` Dish	170.00	0.00	0.00	13.10	50.00	1.66410 0.08980 -0.06910		0.00	0.00	108.00
DNK26aCSP-67	Dipole	175.00	0.00	0.00	9.17	0.00			0.00	0.00	41.40
DNK26bNEU-20	4` Dipole	175.00	0.00	0.00	3.70	0.00			0.00	0.00	36.00
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00			0.00	0.00	30.60
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00			0.00	0.00	16.65
DNK27C-CSP74	TMA	175.00	0.00	0.00	1.29	120.00			0.00	0.00	13.50
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00			0.00	0.00	16.65
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00			0.00	0.00	30.60
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	0.00	0.00	0.54	0.00			0.00	0.00	5.63
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	0.00	0.00	1.64	240.00			0.00	0.00	9.00
Top-A	6` Stand-Off	180.00	0.00	0.00	10.60	0.00			0.00	0.00	126.00
Top-B	6` Stand-Off	180.00	0.00	0.00	10.60	120.00			0.00	0.00	126.00
Top-C1	6` Stand-Off	180.00	0.00	0.00	10.60	260.00			0.00	0.00	126.00
Top-C2	6` Stand-Off	180.00	0.00	0.00	10.60	220.00			0.00	0.00	126.00
ATT-B7	Powerwave 7770	150.00	0.00	0.00	5.88	120.00			0.00	0.00	31.50
ATT-B8	Powerwave 7770	150.00	0.00	0.00	5.88	120.00			0.00	0.00	31.50
ATT-C7	Powerwave 7770	150.00	0.00	0.00	5.88	240.00			0.00	0.00	31.50

ATT-C8	Powerwave 7770	150.00	0.00	0.00	5.88	240.00			0.00	0.00 31.50
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	0.00			0.00	0.00 104.40
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	120.00			0.00	0.00 104.40
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	240.00			0.00	0.00 104.40
Verizon-28	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	0.00			0.00	0.00 88.65
Verizon-29	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	120.00			0.00	0.00 88.65
Verizon-30	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	240.00			0.00	0.00 88.65
Verizon-31	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	0.00			0.00	0.00 14.09
Verizon-32	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	120.00			0.00	0.00 14.09
Verizon-33	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	240.00			0.00	0.00 14.09

EIA Section Load Case Information for "5: 0.9D + 1.0Dg + 1.0E":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	0.00	0.00	20.58	21.02	12.32	163.7	0.25	1.00	1.00	0.59	2.43	32.9	0	24.00	2.00	0.00	1.20	0.00	0	0	5031
B	160.00	140.00	150.00	0.00	0.00	22.52	27.30	16.04	191.0	0.26	1.00	1.00	0.59	2.41	38.6	0	36.00	2.00	0.00	1.20	0.00	0	0	5371
C	140.00	120.00	130.00	0.00	0.00	25.73	29.16	17.07	218.3	0.25	1.00	1.00	0.59	2.43	42.8	0	48.00	2.00	0.00	1.20	0.00	0	0	5975
D	120.00	100.00	110.00	0.00	0.00	30.37	36.61	21.63	245.5	0.27	1.00	1.00	0.59	2.37	52.0	0	48.00	2.00	0.00	1.20	0.00	0	0	6596
E	100.00	80.00	90.00	0.00	0.00	37.01	40.26	23.91	272.8	0.28	1.00	1.00	0.59	2.34	60.9	0	48.00	2.00	0.00	1.20	0.00	0	0	8985
F	80.00	60.00	70.00	0.00	0.00	37.32	43.90	25.92	300.0	0.27	1.00	1.00	0.59	2.38	63.2	0	48.00	2.00	0.00	1.20	0.00	0	0	9449
G	60.00	40.00	50.00	0.00	0.00	42.28	50.37	29.91	327.3	0.28	1.00	1.00	0.59	2.34	72.2	0	48.00	2.00	0.00	1.20	0.00	0	0	10556
H	40.00	20.00	30.00	0.00	0.00	48.05	50.83	30.12	354.6	0.28	1.00	1.00	0.59	2.35	78.2	0	48.00	2.00	0.00	1.20	0.00	0	0	11237
I	20.00	0.00	10.00	0.00	0.00	59.30	58.17	34.98	381.9	0.31	1.00	1.00	0.60	2.28	94.3	0	43.20	2.00	0.00	1.20	0.00	0	0	11326

Equipment Load Case Information for "6: Service 1.0D + 1.0Dg + 1.0 Wo":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
DNK-1	5` Dipole	60.00	7.85	0.00	3.95	0.00							31.05	0.00	50.00
MT-DNK1	3` Stand-Off	60.00	7.85	0.00	2.72	0.00							21.36	0.00	50.00
DNK2-GPS68	GPS	60.00	7.85	0.00	1.00	120.00							7.85	0.00	10.00
MT-DNK2	3` Stand-Off	60.00	7.85	0.00	2.72	120.00							21.36	0.00	50.00
DNK3-GPS69	GPS	60.00	7.85	0.00	1.00	240.00							7.85	0.00	10.00
MT-DNK3	3` Stand-Off	60.00	7.85	0.00	2.72	240.00							21.36	0.00	50.00
DNK4-DOT56	10` Dipole	60.00	7.85	0.00	9.17	240.00							71.98	0.00	46.00
MT-DNK4	3` Stand-Off	60.00	7.85	0.00	2.72	240.00							21.36	0.00	50.00
DNK5-NEU16	8` Omni	80.00	8.14	0.00	2.00	240.00							16.27	0.00	5.00
MT-DNK5	6` Stand-Off	80.00	8.14	0.00	10.60	240.00							86.24	0.00	140.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	8.76	0.00	1.32	120.00							11.53	0.00	10.00
MT-DNK9	3` Stand-Off	120.00	8.76	0.00	2.72	120.00							23.84	0.00	50.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	8.76	0.00	1.32	120.00							11.53	0.00	10.00
DNK7-NEU17	12` Omni	113.34	8.66	0.00	4.00	0.00							34.66	0.00	55.00
MT-DNK7	3` Stand-Off	113.34	8.66	0.00	2.72	0.00							23.57	0.00	50.00
Sprint-A	12` T-Arm	113.34	8.66	0.00	13.60	0.00							117.84	0.00	465.00
Sprint-B	12` T-Arm	113.34	8.66	0.00	13.60	120.00							117.84	0.00	465.00
Sprint-C	12` T-Arm	113.34	8.66	0.00	13.60	240.00							117.84	0.00	465.00
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	8.66	0.00	8.26	0.00							71.57	0.00	90.00
Sprint-2	ALU RRH	113.34	8.66	0.00	6.90	0.00							59.76	0.00	60.00
Sprint-3	ALU RRH	113.34	8.66	0.00	6.90	0.00							59.76	0.00	60.00
Sprint-4	RFS APXVSPP18-C w/ ice	113.34	8.66	0.00	8.26	120.00							71.57	0.00	90.00
Sprint-5	ALU RRH	113.34	8.66	0.00	6.90	120.00							59.76	0.00	60.00
Sprint-6	ALU RRH	113.34	8.66	0.00	6.90	120.00							59.76	0.00	60.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	8.66	0.00	8.26	240.00							71.57	0.00	90.00
Sprint-8	ALU RRH	113.34	8.66	0.00	6.90	240.00							59.76	0.00	60.00
Sprint-9	ALU RRH	113.34	8.66	0.00	6.90	240.00							59.76	0.00	60.00
Sprint-10	DT465B-2XR-V2	113.34	8.66	0.00	9.65	0.00							83.58	0.00	88.40
Sprint-11	DT465B-2XR-V2	113.34	8.66	0.00	9.65	120.00							83.58	0.00	88.40
Sprint-12	DT465B-2XR-V2	113.34	8.66	0.00	9.65	240.00							83.58	0.00	88.40
Sprint-13	800 MHz RRH Unit	113.34	8.66	0.00	6.90	0.00							59.76	0.00	60.00

Sprint-14	800 MHz RRH Unit	113.34	8.66	0.00	6.90	120.00	59.76	0.00	60.00	
Sprint-15	800 MHz RRH Unit	113.34	8.66	0.00	6.90	240.00	59.76	0.00	60.00	
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	8.66	0.00	4.72	0.00	40.89	0.00	66.13	
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	8.66	0.00	4.72	120.00	40.89	0.00	66.13	
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	8.66	0.00	4.72	240.00	40.89	0.00	66.13	
Verizon-A	Boom Gate	126.66	8.86	0.00	13.60	0.00	120.50	0.00	471.00	
Verizon-B	Boom Gate	126.66	8.86	0.00	13.60	120.00	120.50	0.00	471.00	
Verizon-C	Boom Gate	126.66	8.86	0.00	13.60	240.00	120.50	0.00	471.00	
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	8.86	0.00	3.97	0.00	35.15	0.00	10.00	
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	8.86	0.00	3.97	0.00	35.15	0.00	10.00	
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	8.86	0.00	3.97	120.00	35.15	0.00	10.00	
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	8.86	0.00	3.97	120.00	35.15	0.00	10.00	
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	8.86	0.00	3.97	240.00	35.15	0.00	10.00	
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	8.86	0.00	3.97	240.00	35.15	0.00	10.00	
Verizon-7	JAHH-65B-R3B Panel	126.66	8.86	0.00	9.66	0.00	85.59	0.00	126.30	
Verizon-8	JAHH-65B-R3B Panel	126.66	8.86	0.00	9.66	0.00	85.59	0.00	126.30	
Verizon-9	JAHH-65B-R3B Panel	126.66	8.86	0.00	9.66	120.00	85.59	0.00	126.30	
Verizon-10	JAHH-65B-R3B Panel	126.66	8.86	0.00	9.66	120.00	85.59	0.00	126.30	
Verizon-11	JAHH-65B-R3B Panel	126.66	8.86	0.00	9.66	240.00	85.59	0.00	126.30	
Verizon-12	JAHH-65B-R3B Panel	126.66	8.86	0.00	9.66	240.00	85.59	0.00	126.30	
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	8.86	0.00	3.78	0.00	33.53	0.00	116.00	
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	8.86	0.00	3.78	120.00	33.53	0.00	116.00	
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	8.86	0.00	3.78	240.00	33.53	0.00	116.00	
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	8.86	0.00	5.60	0.00	49.62	0.00	45.00	
NEU-18	12` Omni	126.66	8.86	0.00	4.00	0.00	35.44	0.00	55.00	
DNK15-CSP21	RFS PD1142 w/ ice	133.34	8.95	0.00	1.32	120.00	11.78	0.00	10.00	
MT-DNK15	3` Stand-Off	133.34	8.95	0.00	2.72	120.00	24.36	0.00	50.00	
DNK-12	5` Dipole	133.34	8.95	0.00	3.95	240.00	35.40	0.00	50.00	
MT-DNK12	3` Stand-Off	133.34	8.95	0.00	2.72	240.00	24.36	0.00	50.00	
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	8.95	0.00	6.53	0.00	58.50	0.00	110.02	
T-Mobile-2	AIR32 B66/B2A	133.34	8.95	0.00	5.84	0.00	52.33	0.00	132.20	
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	8.95	0.00	22.38	0.00	200.37	0.00	150.00	
T-Mobile-4	Ericsson AIR B2A/B4P	133.34	8.95	0.00	6.53	120.00	58.50	0.00	110.02	
T-Mobile-5	AIR32 B66/B2A	133.34	8.95	0.00	5.84	120.00	52.33	0.00	132.20	
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	8.95	0.00	22.38	120.00	200.37	0.00	150.00	
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	8.95	0.00	6.53	240.00	58.50	0.00	110.02	
T-Mobile-8	AIR32 B66/B2A	133.34	8.95	0.00	5.84	240.00	52.33	0.00	132.20	
T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	8.95	0.00	22.38	240.00	200.37	0.00	150.00	
T-Mobile-10	Twin TMA Unit - Generic	133.34	8.95	0.00	1.12	0.00	10.07	0.00	25.00	
T-Mobile-11	Twin TMA Unit - Generic	133.34	8.95	0.00	1.12	120.00	10.07	0.00	25.00	
T-Mobile-12	Twin TMA Unit - Generic	133.34	8.95	0.00	1.12	240.00	10.07	0.00	25.00	
T-Mobile-13	RRHU-11 RRH Unit	133.34	8.95	0.00	2.99	0.00	26.81	0.00	50.00	
T-Mobile-14	RRHU-11 RRH Unit	133.34	8.95	0.00	2.99	120.00	26.81	0.00	50.00	
T-Mobile-15	RRHU-11 RRH Unit	133.34	8.95	0.00	2.99	240.00	26.81	0.00	50.00	
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	8.95	0.00	1.26	0.00	11.31	0.00	60.00	
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	8.95	0.00	1.26	120.00	11.31	0.00	60.00	
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	8.95	0.00	1.26	240.00	11.31	0.00	60.00	
T-Mobile-19	Diplexer Unit - Generic	133.34	8.95	0.00	0.72	0.00	6.49	0.00	25.00	
T-Mobile-20	Diplexer Unit - Generic	133.34	8.95	0.00	0.72	120.00	6.49	0.00	25.00	
T-Mobile-21	Diplexer Unit - Generic	133.34	8.95	0.00	0.72	240.00	6.49	0.00	25.00	
ATT-A	12` T-Arm	150.00	9.18	0.00	13.60	0.00	124.78	0.00	465.00	
ATT-B	12` T-Arm	150.00	9.18	0.00	13.60	120.00	124.78	0.00	465.00	
ATT-C	12` T-Arm	150.00	9.18	0.00	13.60	240.00	124.78	0.00	465.00	
ATT-A1	Powerwave 7770	150.00	9.18	0.00	5.88	0.00	53.95	0.00	35.00	
ATT-A2	Powerwave 7770	150.00	9.18	0.00	5.88	0.00	53.95	0.00	35.00	
ATT-A3	RRHU-11 RRH Unit	150.00	9.18	0.00	2.99	0.00	27.47	0.00	50.00	
ATT-A4	TMA Unit (LGP24101)	150.00	9.18	0.00	1.29	0.00	11.82	0.00	14.10	
ATT-A5	TMA Unit (LGP24101)	150.00	9.18	0.00	1.29	0.00	11.82	0.00	14.10	
ATT-A6	Raycap Surge Suppressor	150.00	9.18	0.00	1.79	0.00	16.40	0.00	27.00	
ATT-A7	OPA-65-LCUU-H6 Panel	150.00	9.18	0.00	10.12	0.00	92.87	0.00	64.00	
ATT-A8	RRUS-32 RRH Unit	150.00	9.18	0.00	3.88	0.00	35.59	0.00	80.00	
ATT-B1	RRHU-11 RRH Unit	150.00	9.18	0.00	2.99	120.00	27.47	0.00	50.00	
ATT-B2	TMA Unit (LGP24101)	150.00	9.18	0.00	1.29	120.00	11.82	0.00	14.10	
ATT-B3	TMA Unit (LGP24101)	150.00	9.18	0.00	1.29	120.00	11.82	0.00	14.10	
ATT-B4	OPA-65-LCUU-H6 Panel	150.00	9.18	0.00	10.12	120.00	92.87	0.00	64.00	
ATT-B5	RRUS-32 RRH Unit	150.00	9.18	0.00	3.88	120.00	35.59	0.00	80.00	
ATT-C1	RRHU-11 RRH Unit	150.00	9.18	0.00	2.99	240.00	27.47	0.00	50.00	
ATT-C2	TMA Unit (LGP24101)	150.00	9.18	0.00	1.29	240.00	11.82	0.00	14.10	
ATT-C3	TMA Unit (LGP24101)	150.00	9.18	0.00	1.29	240.00	11.82	0.00	14.10	

ATT-C4	OPA-65-LCUU-H6 Panel	150.00	9.18	0.00	10.12	240.00										92.87	0.00	64.00
ATT-C5	RRUS-32 RRH Unit	150.00	9.18	0.00	3.88	240.00										35.59	0.00	80.00
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	9.30	0.00	5.06	0.00										47.03	0.00	34.00
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	9.30	0.00	5.06	120.00										47.03	0.00	34.00
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	9.30	0.00	5.06	240.00										47.03	0.00	34.00
CSP-73	TMA	160.00	9.30	0.00	1.29	240.00										11.98	0.00	15.00
DNK21-SPD9	8` Dish with Radome	160.00	9.30	0.00	51.32	0.00	0.86330			412.03						412.03	0.00	560.00
DNK20-UNKNOWN	4`x1` Panel	160.00	9.30	0.00	6.53	240.00										60.73	0.00	30.00
DNK19-STAM63	4`x1` Panel	160.00	9.30	0.00	6.53	120.00										60.73	0.00	30.00
159-A	3` Stand-Off	160.00	9.30	0.00	2.72	0.00										25.30	0.00	50.00
159-B	3` Stand-Off	160.00	9.30	0.00	2.72	120.00										25.30	0.00	50.00
160	3` Stand-Off	160.00	9.30	0.00	2.72	240.00										25.30	0.00	50.00
DNK22-TOG-6	DB586-Y	165.00	9.36	0.00	1.01	0.00										9.49	0.00	8.25
DNK23-STAM64	4`x1` Panel	165.00	9.36	0.00	6.53	0.00										61.12	0.00	30.00
DNK23-STAM65	TMA	165.00	9.36	0.00	1.29	0.00										12.06	0.00	15.00
GRN-1 (DNK25)	4` Dish	170.00	9.42	0.00	13.10	50.00	1.66410	0.08980	-0.06910	205.33	11.08					205.33	-11.08	120.00
DNK26aCSP-67	Dipole	175.00	9.48	0.00	9.17	0.00										86.87	0.00	46.00
DNK26bNEU-20	4` Dipole	175.00	9.48	0.00	3.70	0.00										35.03	0.00	40.00
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	9.48	0.00	5.06	240.00										47.93	0.00	34.00
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	9.48	0.00	2.27	120.00										21.54	0.00	18.50
DNK27C-CSP74	TMA	175.00	9.48	0.00	1.29	120.00										12.21	0.00	15.00
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	9.48	0.00	2.27	120.00										21.54	0.00	18.50
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	9.48	0.00	5.06	240.00										47.93	0.00	34.00
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	9.48	0.00	0.54	0.00										5.09	0.00	6.25
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	9.48	0.00	1.64	240.00										15.57	0.00	10.00
Top-A	6` Stand-Off	180.00	9.53	0.00	10.60	0.00										101.04	0.00	140.00
Top-B	6` Stand-Off	180.00	9.53	0.00	10.60	120.00										101.04	0.00	140.00
Top-C1	6` Stand-Off	180.00	9.53	0.00	10.60	260.00										101.04	0.00	140.00
Top-C2	6` Stand-Off	180.00	9.53	0.00	10.60	220.00										101.04	0.00	140.00
ATT-B7	Powerwave 7770	150.00	9.18	0.00	5.88	120.00										53.95	0.00	35.00
ATT-B8	Powerwave 7770	150.00	9.18	0.00	5.88	120.00										53.95	0.00	35.00
ATT-C7	Powerwave 7770	150.00	9.18	0.00	5.88	240.00										53.95	0.00	35.00
ATT-C8	Powerwave 7770	150.00	9.18	0.00	5.88	240.00										53.95	0.00	35.00
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	8.86	0.00	3.13	0.00										27.69	0.00	116.00
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	8.86	0.00	3.13	120.00										27.69	0.00	116.00
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	8.86	0.00	3.13	240.00										27.69	0.00	116.00
Verizon-28	RRH B5B/B13 (RFV01U-D2A)	126.66	8.86	0.00	3.13	0.00										27.69	0.00	98.50
Verizon-29	RRH B5B/B13 (RFV01U-D2A)	126.66	8.86	0.00	3.13	120.00										27.69	0.00	98.50
Verizon-30	RRH B5B/B13 (RFV01U-D2A)	126.66	8.86	0.00	3.13	240.00										27.69	0.00	98.50
Verizon-31	CBC78T-DS-43-2X	126.66	8.86	0.00	0.83	0.00										7.37	0.00	15.65
Verizon-32	CBC78T-DS-43-2X	126.66	8.86	0.00	0.83	120.00										7.37	0.00	15.65
Verizon-33	CBC78T-DS-43-2X	126.66	8.86	0.00	0.83	240.00										7.37	0.00	15.65

EIA Section Load Case Information for "6: Service 1.0D + 1.0Dg + 1.0 Wo":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	9.42	0.00	20.58	21.02	12.32	163.7	0.25	1.00	1.00	0.59	2.43	32.9	751	40.00	2.00	0.00	0.60	0.00	753	1505	5590
B	160.00	140.00	150.00	9.18	0.00	22.52	27.30	16.04	191.0	0.26	1.00	1.00	0.59	2.41	38.6	851	60.00	2.00	0.00	0.60	0.00	1101	1952	5968
C	140.00	120.00	130.00	8.91	0.00	25.73	29.16	17.07	218.3	0.25	1.00	1.00	0.59	2.43	42.8	928	80.00	2.00	0.00	0.60	0.00	1425	2353	6639
D	120.00	100.00	110.00	8.61	0.00	30.37	36.61	21.63	245.5	0.27	1.00	1.00	0.59	2.37	52.0	1062	80.00	2.00	0.00	0.60	0.00	1378	2440	7329
E	100.00	80.00	90.00	8.30	0.00	37.01	40.26	23.62	272.8	0.28	1.00	1.00	0.58	2.34	60.6	1178	80.00	2.00	0.00	0.60	0.00	1327	2505	9983
F	80.00	60.00	70.00	7.98	0.00	37.32	43.90	25.41	300.0	0.27	1.00	1.00	0.58	2.38	62.7	1190	80.00	2.00	0.00	0.60	0.00	1277	2468	10499
G	60.00	40.00	50.00	7.77	0.00	42.28	50.37	28.56	327.3	0.28	1.00	1.00	0.55	2.34	70.8	1289	80.00	2.00	0.00	0.60	0.00	1243	2531	11729
H	40.00	20.00	30.00	7.91	0.00	48.05	50.83	28.70	354.6	0.28	1.00	1.00	0.55	2.35	76.7	1429	80.00	2.00	0.00	0.60	0.00	1266	2695	12486
I	20.00	0.00	10.00	9.62	0.00	59.30	58.17	30.73	381.9	0.31	1.00	1.00	0.51	2.28	90.0	1971	72.00	2.00	0.00	0.60	0.00	1385	3356	12584

Equipment Load Case Information for "1.2*DL":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)

DNK-1	5` Dipole	60.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	60.00
MT-DNK1	3` Stand-Off	60.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00	60.00
DNK2-GPS68	GPS	60.00	0.00	0.00	1.00	120.00	0.00	0.00	0.00	12.00
MT-DNK2	3` Stand-Off	60.00	0.00	0.00	2.72	120.00	0.00	0.00	0.00	60.00
DNK3-GPS69	GPS	60.00	0.00	0.00	1.00	240.00	0.00	0.00	0.00	12.00
MT-DNK3	3` Stand-Off	60.00	0.00	0.00	2.72	240.00	0.00	0.00	0.00	60.00
DNK4-DOT56	10` Dipole	60.00	0.00	0.00	9.17	240.00	0.00	0.00	0.00	55.20
MT-DNK4	3` Stand-Off	60.00	0.00	0.00	2.72	240.00	0.00	0.00	0.00	60.00
DNK5-NEU16	8` Omni	80.00	0.00	0.00	2.00	240.00	0.00	0.00	0.00	6.00
MT-DNK5	6` Stand-Off	80.00	0.00	0.00	10.60	240.00	0.00	0.00	0.00	168.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00	0.00	0.00	0.00	12.00
MT-DNK9	3` Stand-Off	120.00	0.00	0.00	2.72	120.00	0.00	0.00	0.00	60.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00	0.00	0.00	0.00	12.00
DNK7-NEU17	12` Omni	113.34	0.00	0.00	4.00	0.00	0.00	0.00	0.00	66.00
MT-DNK7	3` Stand-Off	113.34	0.00	0.00	2.72	0.00	0.00	0.00	0.00	60.00
Sprint-A	12` T-Arm	113.34	0.00	0.00	13.60	0.00	0.00	0.00	0.00	558.00
Sprint-B	12` T-Arm	113.34	0.00	0.00	13.60	120.00	0.00	0.00	0.00	558.00
Sprint-C	12` T-Arm	113.34	0.00	0.00	13.60	240.00	0.00	0.00	0.00	558.00
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	0.00	0.00	0.00	0.00	108.00
Sprint-2	ALU RRH	113.34	0.00	0.00	6.90	0.00	0.00	0.00	0.00	72.00
Sprint-3	ALU RRH	113.34	0.00	0.00	6.90	0.00	0.00	0.00	0.00	72.00
Sprint-4	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	120.00	0.00	0.00	0.00	108.00
Sprint-5	ALU RRH	113.34	0.00	0.00	6.90	120.00	0.00	0.00	0.00	72.00
Sprint-6	ALU RRH	113.34	0.00	0.00	6.90	120.00	0.00	0.00	0.00	72.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	240.00	0.00	0.00	0.00	108.00
Sprint-8	ALU RRH	113.34	0.00	0.00	6.90	240.00	0.00	0.00	0.00	72.00
Sprint-9	ALU RRH	113.34	0.00	0.00	6.90	240.00	0.00	0.00	0.00	72.00
Sprint-10	DT465B-2XR-V2	113.34	0.00	0.00	9.65	0.00	0.00	0.00	0.00	106.08
Sprint-11	DT465B-2XR-V2	113.34	0.00	0.00	9.65	120.00	0.00	0.00	0.00	106.08
Sprint-12	DT465B-2XR-V2	113.34	0.00	0.00	9.65	240.00	0.00	0.00	0.00	106.08
Sprint-13	800 MHz RRH Unit	113.34	0.00	0.00	6.90	0.00	0.00	0.00	0.00	72.00
Sprint-14	800 MHz RRH Unit	113.34	0.00	0.00	6.90	120.00	0.00	0.00	0.00	72.00
Sprint-15	800 MHz RRH Unit	113.34	0.00	0.00	6.90	240.00	0.00	0.00	0.00	72.00
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	0.00	0.00	0.00	0.00	79.36
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	120.00	0.00	0.00	0.00	79.36
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	240.00	0.00	0.00	0.00	79.36
Verizon-A	Boom Gate	126.66	0.00	0.00	13.60	0.00	0.00	0.00	0.00	565.20
Verizon-B	Boom Gate	126.66	0.00	0.00	13.60	120.00	0.00	0.00	0.00	565.20
Verizon-C	Boom Gate	126.66	0.00	0.00	13.60	240.00	0.00	0.00	0.00	565.20
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00	0.00	0.00	0.00	12.00
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00	0.00	0.00	0.00	12.00
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00	0.00	0.00	0.00	12.00
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00	0.00	0.00	0.00	12.00
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00	0.00	0.00	0.00	12.00
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00	0.00	0.00	0.00	12.00
Verizon-7	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00	0.00	0.00	0.00	151.56
Verizon-8	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00	0.00	0.00	0.00	151.56
Verizon-9	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00	0.00	0.00	0.00	151.56
Verizon-10	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00	0.00	0.00	0.00	151.56
Verizon-11	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00	0.00	0.00	0.00	151.56
Verizon-12	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00	0.00	0.00	0.00	151.56
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	0.00	0.00	0.00	0.00	139.20
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	120.00	0.00	0.00	0.00	139.20
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	240.00	0.00	0.00	0.00	139.20
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	0.00	0.00	5.60	0.00	0.00	0.00	0.00	54.00
NEU-18	12` Omni	126.66	0.00	0.00	4.00	0.00	0.00	0.00	0.00	66.00
DNK15-CSP21	RFS PD1142 w/ ice	133.34	0.00	0.00	1.32	120.00	0.00	0.00	0.00	12.00
MT-DNK15	3` Stand-Off	133.34	0.00	0.00	2.72	120.00	0.00	0.00	0.00	60.00
DNK-12	5` Dipole	133.34	0.00	0.00	3.95	240.00	0.00	0.00	0.00	60.00
MT-DNK12	3` Stand-Off	133.34	0.00	0.00	2.72	240.00	0.00	0.00	0.00	60.00
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	0.00	0.00	0.00	0.00	132.02
T-Mobile-2	AIR32 B66/B2A	133.34	0.00	0.00	5.84	0.00	0.00	0.00	0.00	158.64
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	0.00	0.00	0.00	0.00	180.00
T-Mobile-4	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	120.00	0.00	0.00	0.00	132.02
T-Mobile-5	AIR32 B66/B2A	133.34	0.00	0.00	5.84	120.00	0.00	0.00	0.00	158.64
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	120.00	0.00	0.00	0.00	180.00
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	240.00	0.00	0.00	0.00	132.02
T-Mobile-8	AIR32 B66/B2A	133.34	0.00	0.00	5.84	240.00	0.00	0.00	0.00	158.64

T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	240.00			0.00	0.00	180.00	
T-Mobile-10	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	0.00			0.00	0.00	30.00	
T-Mobile-11	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	120.00			0.00	0.00	30.00	
T-Mobile-12	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	240.00			0.00	0.00	30.00	
T-Mobile-13	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	0.00			0.00	0.00	60.00	
T-Mobile-14	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	120.00			0.00	0.00	60.00	
T-Mobile-15	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	240.00			0.00	0.00	60.00	
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	0.00			0.00	0.00	72.00	
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	120.00			0.00	0.00	72.00	
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	240.00			0.00	0.00	72.00	
T-Mobile-19	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	0.00			0.00	0.00	30.00	
T-Mobile-20	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	120.00			0.00	0.00	30.00	
T-Mobile-21	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	240.00			0.00	0.00	30.00	
ATT-A	12` T-Arm	150.00	0.00	0.00	13.60	0.00			0.00	0.00	558.00	
ATT-B	12` T-Arm	150.00	0.00	0.00	13.60	120.00			0.00	0.00	558.00	
ATT-C	12` T-Arm	150.00	0.00	0.00	13.60	240.00			0.00	0.00	558.00	
ATT-A1	Powerwave 7770	150.00	0.00	0.00	5.88	0.00			0.00	0.00	42.00	
ATT-A2	Powerwave 7770	150.00	0.00	0.00	5.88	0.00			0.00	0.00	42.00	
ATT-A3	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	0.00			0.00	0.00	60.00	
ATT-A4	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00			0.00	0.00	16.92	
ATT-A5	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00			0.00	0.00	16.92	
ATT-A6	Raycap Surge Suppressor	150.00	0.00	0.00	1.79	0.00			0.00	0.00	32.40	
ATT-A7	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	0.00			0.00	0.00	76.80	
ATT-A8	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	0.00			0.00	0.00	96.00	
ATT-B1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	120.00			0.00	0.00	60.00	
ATT-B2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00			0.00	0.00	16.92	
ATT-B3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00			0.00	0.00	16.92	
ATT-B4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	120.00			0.00	0.00	76.80	
ATT-B5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	120.00			0.00	0.00	96.00	
ATT-C1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	240.00			0.00	0.00	60.00	
ATT-C2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00			0.00	0.00	16.92	
ATT-C3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00			0.00	0.00	16.92	
ATT-C4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	240.00			0.00	0.00	76.80	
ATT-C5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	240.00			0.00	0.00	96.00	
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	0.00			0.00	0.00	40.80	
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	120.00			0.00	0.00	40.80	
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	240.00			0.00	0.00	40.80	
CSP-73	TMA	160.00	0.00	0.00	1.29	240.00			0.00	0.00	18.00	
DNK21-SPD9	8` Dish with Radome	160.00	0.00	0.00	51.32	0.00	0.86330		0.00	0.00	672.00	
DNK20-UNKNOWN	4`x1` Panel	160.00	0.00	0.00	6.53	240.00			0.00	0.00	36.00	
DNK19-STAM63	4`x1` Panel	160.00	0.00	0.00	6.53	120.00			0.00	0.00	36.00	
159-A	3` Stand-Off	160.00	0.00	0.00	2.72	0.00			0.00	0.00	60.00	
159-B	3` Stand-Off	160.00	0.00	0.00	2.72	120.00			0.00	0.00	60.00	
160	3` Stand-Off	160.00	0.00	0.00	2.72	240.00			0.00	0.00	60.00	
DNK22-TOG-6	DB586-Y	165.00	0.00	0.00	1.01	0.00			0.00	0.00	9.90	
DNK23-STAM64	4`x1` Panel	165.00	0.00	0.00	6.53	0.00			0.00	0.00	36.00	
DNK23-STAM65	TMA	165.00	0.00	0.00	1.29	0.00			0.00	0.00	18.00	
GRN-1 (DNK25)	4` Dish	170.00	0.00	0.00	13.10	50.00	1.66410	0.08980 -0.06910	0.00	0.00	144.00	
DNK26aCSP-67	Dipole	175.00	0.00	0.00	9.17	0.00			0.00	0.00	55.20	
DNK26bNEU-20	4` Dipole	175.00	0.00	0.00	3.70	0.00			0.00	0.00	48.00	
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00			0.00	0.00	40.80	
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00			0.00	0.00	22.20	
DNK27C-CSP74	TMA	175.00	0.00	0.00	1.29	120.00			0.00	0.00	18.00	
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00			0.00	0.00	22.20	
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00			0.00	0.00	40.80	
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	0.00	0.00	0.54	0.00			0.00	0.00	7.50	
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	0.00	0.00	1.64	240.00			0.00	0.00	12.00	
Top-A	6` Stand-Off	180.00	0.00	0.00	10.60	0.00			0.00	0.00	168.00	
Top-B	6` Stand-Off	180.00	0.00	0.00	10.60	120.00			0.00	0.00	168.00	
Top-C1	6` Stand-Off	180.00	0.00	0.00	10.60	260.00			0.00	0.00	168.00	
Top-C2	6` Stand-Off	180.00	0.00	0.00	10.60	220.00			0.00	0.00	168.00	
ATT-B7	Powerwave 7770	150.00	0.00	0.00	5.88	120.00			0.00	0.00	42.00	
ATT-B8	Powerwave 7770	150.00	0.00	0.00	5.88	120.00			0.00	0.00	42.00	
ATT-C7	Powerwave 7770	150.00	0.00	0.00	5.88	240.00			0.00	0.00	42.00	
ATT-C8	Powerwave 7770	150.00	0.00	0.00	5.88	240.00			0.00	0.00	42.00	
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	0.00			0.00	0.00	139.20	
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	120.00			0.00	0.00	139.20	
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	240.00			0.00	0.00	139.20	
Verizon-28	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	0.00			0.00	0.00	118.20	

Verizon-29	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	120.00																	0.00	0.00	118.20
Verizon-30	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	240.00																	0.00	0.00	118.20
Verizon-31	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	0.00																	0.00	0.00	18.78
Verizon-32	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	120.00																	0.00	0.00	18.78
Verizon-33	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	240.00																	0.00	0.00	18.78

EIA Section Load Case Information for "1.2*DL":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads)
Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	0.00	0.00	20.58	21.02	12.32	163.7	0.25	1.00	1.00	0.59	2.43	32.9	0	24.00	2.00	0.00	1.20	0.00	0	0	6708
B	160.00	140.00	150.00	0.00	0.00	22.52	27.30	16.04	191.0	0.26	1.00	1.00	0.59	2.41	38.6	0	36.00	2.00	0.00	1.20	0.00	0	0	7161
C	140.00	120.00	130.00	0.00	0.00	25.73	29.16	17.07	218.3	0.25	1.00	1.00	0.59	2.43	42.8	0	48.00	2.00	0.00	1.20	0.00	0	0	7967
D	120.00	100.00	110.00	0.00	0.00	30.37	36.61	21.63	245.5	0.27	1.00	1.00	0.59	2.37	52.0	0	48.00	2.00	0.00	1.20	0.00	0	0	8794
E	100.00	80.00	90.00	0.00	0.00	37.01	40.26	23.91	272.8	0.28	1.00	1.00	0.59	2.34	60.9	0	48.00	2.00	0.00	1.20	0.00	0	0	11980
F	80.00	60.00	70.00	0.00	0.00	37.32	43.90	25.92	300.0	0.27	1.00	1.00	0.59	2.38	63.2	0	48.00	2.00	0.00	1.20	0.00	0	0	12598
G	60.00	40.00	50.00	0.00	0.00	42.28	50.37	29.91	327.3	0.28	1.00	1.00	0.59	2.34	72.2	0	48.00	2.00	0.00	1.20	0.00	0	0	14075
H	40.00	20.00	30.00	0.00	0.00	48.05	50.83	30.12	354.6	0.28	1.00	1.00	0.59	2.35	78.2	0	48.00	2.00	0.00	1.20	0.00	0	0	14983
I	20.00	0.00	10.00	0.00	0.00	59.30	58.17	34.98	381.9	0.31	1.00	1.00	0.60	2.28	94.3	0	43.20	2.00	0.00	1.20	0.00	0	0	15101

Equipment Load Case Information for "0.9DL":

Equipment Label	Equipment Property Set	Elevation Above Ground (ft)	qzGh (psf)	Ice Thick. (in)	Total Wind Area (ft^2)	Wind Incidence Angle (deg)	222-G CA	222-G CS	222-G CM	Antenna Axial Load FAM (lbs)	Antenna Side Load FSM (lbs)	Antenna Moment MM (ft-lbs)	Long. Load (lbs)	Trans. Load (lbs)	Vert. Load (lbs)
DNK-1	5` Dipole	60.00	0.00	0.00	3.95	0.00							0.00	0.00	45.00
MT-DNK1	3` Stand-Off	60.00	0.00	0.00	2.72	0.00							0.00	0.00	45.00
DNK2-GPS68	GPS	60.00	0.00	0.00	1.00	120.00							0.00	0.00	9.00
MT-DNK2	3` Stand-Off	60.00	0.00	0.00	2.72	120.00							0.00	0.00	45.00
DNK3-GPS69	GPS	60.00	0.00	0.00	1.00	240.00							0.00	0.00	9.00
MT-DNK3	3` Stand-Off	60.00	0.00	0.00	2.72	240.00							0.00	0.00	45.00
DNK4-DOT56	10` Dipole	60.00	0.00	0.00	9.17	240.00							0.00	0.00	41.40
MT-DNK4	3` Stand-Off	60.00	0.00	0.00	2.72	240.00							0.00	0.00	45.00
DNK5-NEU16	8` Omni	80.00	0.00	0.00	2.00	240.00							0.00	0.00	4.50
MT-DNK5	6` Stand-Off	80.00	0.00	0.00	10.60	240.00							0.00	0.00	126.00
DNK9-DEP54	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00							0.00	0.00	9.00
MT-DNK9	3` Stand-Off	120.00	0.00	0.00	2.72	120.00							0.00	0.00	45.00
DNK8-CSP66	RFS PD1142 w/ ice	120.00	0.00	0.00	1.32	120.00							0.00	0.00	9.00
DNK7-NEU17	12` Omni	113.34	0.00	0.00	4.00	0.00							0.00	0.00	49.50
MT-DNK7	3` Stand-Off	113.34	0.00	0.00	2.72	0.00							0.00	0.00	45.00
Sprint-A	12` T-Arm	113.34	0.00	0.00	13.60	0.00							0.00	0.00	418.50
Sprint-B	12` T-Arm	113.34	0.00	0.00	13.60	120.00							0.00	0.00	418.50
Sprint-C	12` T-Arm	113.34	0.00	0.00	13.60	240.00							0.00	0.00	418.50
Sprint-1	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	0.00							0.00	0.00	81.00
Sprint-2	ALU RRH	113.34	0.00	0.00	6.90	0.00							0.00	0.00	54.00
Sprint-3	ALU RRH	113.34	0.00	0.00	6.90	0.00							0.00	0.00	54.00
Sprint-4	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	120.00							0.00	0.00	81.00
Sprint-5	ALU RRH	113.34	0.00	0.00	6.90	120.00							0.00	0.00	54.00
Sprint-6	ALU RRH	113.34	0.00	0.00	6.90	120.00							0.00	0.00	54.00
Sprint-7	RFS APXVSPP18-C w/ ice	113.34	0.00	0.00	8.26	240.00							0.00	0.00	81.00
Sprint-8	ALU RRH	113.34	0.00	0.00	6.90	240.00							0.00	0.00	54.00
Sprint-9	ALU RRH	113.34	0.00	0.00	6.90	240.00							0.00	0.00	54.00
Sprint-10	DT465B-2XR-V2	113.34	0.00	0.00	9.65	0.00							0.00	0.00	79.56
Sprint-11	DT465B-2XR-V2	113.34	0.00	0.00	9.65	120.00							0.00	0.00	79.56
Sprint-12	DT465B-2XR-V2	113.34	0.00	0.00	9.65	240.00							0.00	0.00	79.56
Sprint-13	800 MHz RRH Unit	113.34	0.00	0.00	6.90	0.00							0.00	0.00	54.00
Sprint-14	800 MHz RRH Unit	113.34	0.00	0.00	6.90	120.00							0.00	0.00	54.00
Sprint-15	800 MHz RRH Unit	113.34	0.00	0.00	6.90	240.00							0.00	0.00	54.00
Sprint-16	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	0.00							0.00	0.00	59.52
Sprint-17	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	120.00							0.00	0.00	59.52
Sprint-18	TD-RRH 8x20-25 RRH Unit	113.34	0.00	0.00	4.72	240.00							0.00	0.00	59.52

Verizon-A	Boom Gate	126.66	0.00	0.00	13.60	0.00	0.00	0.00	0.00	0.00	423.90
Verizon-B	Boom Gate	126.66	0.00	0.00	13.60	120.00	0.00	0.00	0.00	0.00	423.90
Verizon-C	Boom Gate	126.66	0.00	0.00	13.60	240.00	0.00	0.00	0.00	0.00	423.90
Verizon-1	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00	0.00	0.00	0.00	0.00	9.00
Verizon-2	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	0.00	0.00	0.00	0.00	0.00	9.00
Verizon-3	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00	0.00	0.00	0.00	0.00	9.00
Verizon-4	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	120.00	0.00	0.00	0.00	0.00	9.00
Verizon-5	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00	0.00	0.00	0.00	0.00	9.00
Verizon-6	Decibel DB844H80-XY w/ ice	126.66	0.00	0.00	3.97	240.00	0.00	0.00	0.00	0.00	9.00
Verizon-7	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00	0.00	0.00	0.00	0.00	113.67
Verizon-8	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	0.00	0.00	0.00	0.00	0.00	113.67
Verizon-9	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00	0.00	0.00	0.00	0.00	113.67
Verizon-10	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	120.00	0.00	0.00	0.00	0.00	113.67
Verizon-11	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00	0.00	0.00	0.00	0.00	113.67
Verizon-12	JAHH-65B-R3B Panel	126.66	0.00	0.00	9.66	240.00	0.00	0.00	0.00	0.00	113.67
Verizon-D	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	0.00	0.00	0.00	0.00	0.00	104.40
Verizon-E	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	120.00	0.00	0.00	0.00	0.00	104.40
Verizon-F	BSAMNT-SBS-2-2 Mount for JAHH Antenna	126.66	0.00	0.00	3.78	240.00	0.00	0.00	0.00	0.00	104.40
Verizon-22	Raycap DB-T1-6Z-8AB-0Z Dist. Box	126.66	0.00	0.00	5.60	0.00	0.00	0.00	0.00	0.00	40.50
NEU-18	12` Omni	126.66	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	49.50
DNK15-CSP21	RFS PD1142 w/ ice	133.34	0.00	0.00	1.32	120.00	0.00	0.00	0.00	0.00	9.00
MT-DNK15	3` Stand-Off	133.34	0.00	0.00	2.72	120.00	0.00	0.00	0.00	0.00	45.00
DNK-12	5` Dipole	133.34	0.00	0.00	3.95	240.00	0.00	0.00	0.00	0.00	45.00
MT-DNK12	3` Stand-Off	133.34	0.00	0.00	2.72	240.00	0.00	0.00	0.00	0.00	45.00
T-Mobile-1	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	0.00	0.00	0.00	0.00	0.00	99.02
T-Mobile-2	AIR32 B66/B2A	133.34	0.00	0.00	5.84	0.00	0.00	0.00	0.00	0.00	118.98
T-Mobile-3	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	0.00	0.00	0.00	0.00	0.00	135.00
T-Mobile-4	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	120.00	0.00	0.00	0.00	0.00	99.02
T-Mobile-5	AIR32 B66/B2A	133.34	0.00	0.00	5.84	120.00	0.00	0.00	0.00	0.00	118.98
T-Mobile-6	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	120.00	0.00	0.00	0.00	0.00	135.00
T-Mobile-7	Ericsson AIR B2A/B4P	133.34	0.00	0.00	6.53	240.00	0.00	0.00	0.00	0.00	99.02
T-Mobile-8	AIR32 B66/B2A	133.34	0.00	0.00	5.84	240.00	0.00	0.00	0.00	0.00	118.98
T-Mobile-9	APXVAA24_43-U-A20 (RFS)	133.34	0.00	0.00	22.38	240.00	0.00	0.00	0.00	0.00	135.00
T-Mobile-10	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	22.50
T-Mobile-11	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	120.00	0.00	0.00	0.00	0.00	22.50
T-Mobile-12	Twin TMA Unit - Generic	133.34	0.00	0.00	1.12	240.00	0.00	0.00	0.00	0.00	22.50
T-Mobile-13	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	0.00	0.00	0.00	0.00	0.00	45.00
T-Mobile-14	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	120.00	0.00	0.00	0.00	0.00	45.00
T-Mobile-15	RRHU-11 RRH Unit	133.34	0.00	0.00	2.99	240.00	0.00	0.00	0.00	0.00	45.00
T-Mobile-16	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	0.00	0.00	0.00	0.00	0.00	54.00
T-Mobile-17	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	120.00	0.00	0.00	0.00	0.00	54.00
T-Mobile-18	Ericsson 4478 (B71) RRH Unit	133.34	0.00	0.00	1.26	240.00	0.00	0.00	0.00	0.00	54.00
T-Mobile-19	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	22.50
T-Mobile-20	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	120.00	0.00	0.00	0.00	0.00	22.50
T-Mobile-21	Diplexer Unit - Generic	133.34	0.00	0.00	0.72	240.00	0.00	0.00	0.00	0.00	22.50
ATT-A	12` T-Arm	150.00	0.00	0.00	13.60	0.00	0.00	0.00	0.00	0.00	418.50
ATT-B	12` T-Arm	150.00	0.00	0.00	13.60	120.00	0.00	0.00	0.00	0.00	418.50
ATT-C	12` T-Arm	150.00	0.00	0.00	13.60	240.00	0.00	0.00	0.00	0.00	418.50
ATT-A1	Powerwave 7770	150.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00	0.00	31.50
ATT-A2	Powerwave 7770	150.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00	0.00	31.50
ATT-A3	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00	0.00	45.00
ATT-A4	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.00	12.69
ATT-A5	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.00	12.69
ATT-A6	Raycap Surge Suppressor	150.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00	0.00	24.30
ATT-A7	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	0.00	0.00	0.00	0.00	0.00	57.60
ATT-A8	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	0.00	0.00	0.00	0.00	0.00	72.00
ATT-B1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	120.00	0.00	0.00	0.00	0.00	45.00
ATT-B2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00	0.00	0.00	0.00	0.00	12.69
ATT-B3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	120.00	0.00	0.00	0.00	0.00	12.69
ATT-B4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	120.00	0.00	0.00	0.00	0.00	57.60
ATT-B5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	120.00	0.00	0.00	0.00	0.00	72.00
ATT-C1	RRHU-11 RRH Unit	150.00	0.00	0.00	2.99	240.00	0.00	0.00	0.00	0.00	45.00
ATT-C2	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00	0.00	0.00	0.00	0.00	12.69
ATT-C3	TMA Unit (LGP24101)	150.00	0.00	0.00	1.29	240.00	0.00	0.00	0.00	0.00	12.69
ATT-C4	OPA-65-LCUU-H6 Panel	150.00	0.00	0.00	10.12	240.00	0.00	0.00	0.00	0.00	57.60
ATT-C5	RRUS-32 RRH Unit	150.00	0.00	0.00	3.88	240.00	0.00	0.00	0.00	0.00	72.00
CSP-70	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	0.00	0.00	0.00	0.00	0.00	30.60
CSP-71	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	120.00	0.00	0.00	0.00	0.00	30.60
CSP-72	Sinclair SC479-HF1LDF w/ ice	160.00	0.00	0.00	5.06	240.00	0.00	0.00	0.00	0.00	30.60

CSP-73	TMA	160.00	0.00	0.00	1.29	240.00				0.00	0.00	13.50
DNK21-SPD9	8` Dish with Radome	160.00	0.00	0.00	51.32	0.00	0.86330			0.00	0.00	504.00
DNK20-UNKNOWN	4`x1` Panel	160.00	0.00	0.00	6.53	240.00				0.00	0.00	27.00
DNK19-STAM63	4`x1` Panel	160.00	0.00	0.00	6.53	120.00				0.00	0.00	27.00
159-A	3` Stand-Off	160.00	0.00	0.00	2.72	0.00				0.00	0.00	45.00
159-B	3` Stand-Off	160.00	0.00	0.00	2.72	120.00				0.00	0.00	45.00
160	3` Stand-Off	160.00	0.00	0.00	2.72	240.00				0.00	0.00	45.00
DNK22-TOG-6	DB586-Y	165.00	0.00	0.00	1.01	0.00				0.00	0.00	7.42
DNK23-STAM64	4`x1` Panel	165.00	0.00	0.00	6.53	0.00				0.00	0.00	27.00
DNK23-STAM65	TMA	165.00	0.00	0.00	1.29	0.00				0.00	0.00	13.50
GRN-1 (DNK25)	4` Dish	170.00	0.00	0.00	13.10	50.00	1.66410	0.08980	-0.06910	0.00	0.00	108.00
DNK26aCSP-67	Dipole	175.00	0.00	0.00	9.17	0.00				0.00	0.00	41.40
DNK26bNEU-20	4` Dipole	175.00	0.00	0.00	3.70	0.00				0.00	0.00	36.00
DNK27A-CSP4	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00				0.00	0.00	30.60
DNK27B-CSP2	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00				0.00	0.00	16.65
DNK27C-CSP74	TMA	175.00	0.00	0.00	1.29	120.00				0.00	0.00	13.50
DNK28A-CSP1	Scala OGT9-806 w/ ice	175.00	0.00	0.00	2.27	120.00				0.00	0.00	16.65
DNK28B-CSP3	Sinclair SC479-HF1LDF w/ ice	175.00	0.00	0.00	5.06	240.00				0.00	0.00	30.60
DNK28C-TOG5	Andrew DB-583 w/ ice	175.00	0.00	0.00	0.54	0.00				0.00	0.00	5.63
DNK28D-NEU55	Decibel PD-420 2 bay - Dipole	175.00	0.00	0.00	1.64	240.00				0.00	0.00	9.00
Top-A	6` Stand-Off	180.00	0.00	0.00	10.60	0.00				0.00	0.00	126.00
Top-B	6` Stand-Off	180.00	0.00	0.00	10.60	120.00				0.00	0.00	126.00
Top-C1	6` Stand-Off	180.00	0.00	0.00	10.60	260.00				0.00	0.00	126.00
Top-C2	6` Stand-Off	180.00	0.00	0.00	10.60	220.00				0.00	0.00	126.00
ATT-B7	Powerwave 7770	150.00	0.00	0.00	5.88	120.00				0.00	0.00	31.50
ATT-B8	Powerwave 7770	150.00	0.00	0.00	5.88	120.00				0.00	0.00	31.50
ATT-C7	Powerwave 7770	150.00	0.00	0.00	5.88	240.00				0.00	0.00	31.50
ATT-C8	Powerwave 7770	150.00	0.00	0.00	5.88	240.00				0.00	0.00	31.50
Verizon-25	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	0.00				0.00	0.00	104.40
Verizon-26	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	120.00				0.00	0.00	104.40
Verizon-27	RRH B2/B66A (RFV01U-D1A)	126.66	0.00	0.00	3.13	240.00				0.00	0.00	104.40
Verizon-28	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	0.00				0.00	0.00	88.65
Verizon-29	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	120.00				0.00	0.00	88.65
Verizon-30	RRH B5B/BB13 (RFV01U-D2A)	126.66	0.00	0.00	3.13	240.00				0.00	0.00	88.65
Verizon-31	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	0.00				0.00	0.00	14.09
Verizon-32	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	120.00				0.00	0.00	14.09
Verizon-33	CBC78T-DS-43-2X	126.66	0.00	0.00	0.83	240.00				0.00	0.00	14.09

EIA Section Load Case Information for "0.9DL":

Note: qzGh (adjusted wind pressure) includes: Velocity Pressure Coefficient (Kz), Topographic Factor (Kzt), Gust Effect Factor (Gh), Wind Direction Probability Factor (Kd), Wind Importance Factor (Table 2-3), Wind Load Factor (from Loads/EIA Loads) Face RR is the minimum round reduction factor for all round angles and appurtenances in the section

Section Label	Z of Top (ft)	Z of Bottom (ft)	Ave. Elev. Above Gnd. (ft)	qzGh (psf)	Ice Thick. (in)	Face AF (ft^2)	Face AR (ft^2)	Face RR*AR (ft^2)	Face AG (ft^2)	Face e	Face DF	Face DR	Face RR	Face CF	Face AE (ft^2)	Face WF (lbs)	NotF AAF (ft^2)	NotF CAF	NotF AAR (ft^2)	NotF CAR	NotF AAR*CAR (ft^2)	NotF WA (lbs)	Total Wind (lbs)	Total Weight (lbs)
A	180.00	160.00	170.00	0.00	0.00	20.58	21.02	12.32	163.7	0.25	1.00	1.00	0.59	2.43	32.9	0	24.00	2.00	0.00	1.20	0.00	0	0	5031
B	160.00	140.00	150.00	0.00	0.00	22.52	27.30	16.04	191.0	0.26	1.00	1.00	0.59	2.41	38.6	0	36.00	2.00	0.00	1.20	0.00	0	0	5371
C	140.00	120.00	130.00	0.00	0.00	25.73	29.16	17.07	218.3	0.25	1.00	1.00	0.59	2.43	42.8	0	48.00	2.00	0.00	1.20	0.00	0	0	5975
D	120.00	100.00	110.00	0.00	0.00	30.37	36.61	21.63	245.5	0.27	1.00	1.00	0.59	2.37	52.0	0	48.00	2.00	0.00	1.20	0.00	0	0	6596
E	100.00	80.00	90.00	0.00	0.00	37.01	40.26	23.91	272.8	0.28	1.00	1.00	0.59	2.34	60.9	0	48.00	2.00	0.00	1.20	0.00	0	0	8985
F	80.00	60.00	70.00	0.00	0.00	37.32	43.90	25.92	300.0	0.27	1.00	1.00	0.59	2.38	63.2	0	48.00	2.00	0.00	1.20	0.00	0	0	9449
G	60.00	40.00	50.00	0.00	0.00	42.28	50.37	29.91	327.3	0.28	1.00	1.00	0.59	2.34	72.2	0	48.00	2.00	0.00	1.20	0.00	0	0	10556
H	40.00	20.00	30.00	0.00	0.00	48.05	50.83	30.12	354.6	0.28	1.00	1.00	0.59	2.35	78.2	0	48.00	2.00	0.00	1.20	0.00	0	0	11237
I	20.00	0.00	10.00	0.00	0.00	59.30	58.17	34.98	381.9	0.31	1.00	1.00	0.60	2.28	94.3	0	43.20	2.00	0.00	1.20	0.00	0	0	11326

*** Analysis Results:

Maximum element usage is 97.93% for Angle "SNB-LH2P" in load case "1: 1.2D + 1.0Dg + 1.6Wo"

Angle Forces For All Load Cases:

Positive for tension - negative for compression

Group Label	Angle Label	Max. Usage For All LC %	Max. Tens. For All LC (kips)	Max. Comp. For All LC (kips)	LC 1 (kips)	LC 2 (kips)	LC 3 (kips)	LC 4 (kips)	LC 5 (kips)	LC 6 (kips)	LC 7 (kips)
Rohn-D1	Rohn-DA1P	11.17	0.865	-0.006	0.865	0.865	0.141	0.144	0.189	-0.006	-0.003
Rohn-D1	Rohn-DA11	1.37	0.107	0.000	0.105	0.107	0.011	0.012	0.025	0.001	0.003
Rohn-D1	Rohn-DA12	25.67	0.000	-1.400	-1.400	-1.393	-0.213	-0.209	-0.314	-0.009	-0.005
Rohn-D1	Rohn-DA2P	12.61	0.977	-0.001	0.977	0.976	0.168	0.169	0.217	-0.001	0.001
Rohn-D1	Rohn-DA21	15.15	0.000	-0.826	-0.826	-0.821	-0.165	-0.163	-0.183	-0.003	-0.000
Rohn-D1	Rohn-DA22	4.70	0.364	-0.011	0.360	0.364	0.031	0.035	0.074	-0.011	-0.006
Rohn-D1	Rohn-DA3P	10.44	0.809	-0.019	0.806	0.809	0.155	0.161	0.168	-0.019	-0.013
Rohn-D1	Rohn-DA31	1.22	0.095	-0.007	0.092	0.095	0.009	0.012	0.017	-0.007	-0.004
Rohn-D1	Rohn-DA32	33.28	0.000	-1.706	-1.706	-1.698	-0.254	-0.249	-0.383	-0.011	-0.006
Rohn-D1	Rohn-DA4P	17.93	1.390	-0.013	1.389	1.390	0.200	0.205	0.300	-0.013	-0.008
Rohn-D1	Rohn-DA41	28.69	0.000	-1.471	-1.471	-1.463	-0.229	-0.225	-0.331	-0.011	-0.006
Rohn-D1	Rohn-DA42	8.91	0.690	-0.013	0.686	0.690	0.040	0.045	0.145	-0.013	-0.008
Rohn-D1	Rohn-DA5P	18.70	1.449	-0.024	1.445	1.449	0.191	0.198	0.307	-0.024	-0.016
Rohn-D1	Rohn-DA51	4.03	0.312	-0.009	0.308	0.312	0.001	0.005	0.064	-0.009	-0.005
Rohn-D1	Rohn-DA52	32.95	0.001	-1.590	-1.590	-1.584	-0.246	-0.244	-0.351	-0.000	0.001
Rohn-D1	Rohn-DA6P	20.85	1.616	-0.024	1.612	1.616	0.213	0.221	0.343	-0.024	-0.016
Rohn-D1	Rohn-DA61	39.87	0.000	-1.924	-1.924	-1.917	-0.241	-0.238	-0.427	-0.003	-0.001
Rohn-D1	Rohn-DA62	0.20	0.015	-0.006	0.003	0.006	0.012	0.015	-0.002	-0.006	-0.003
Rohn-D1	Rohn-DA7P	20.34	1.576	-0.044	1.568	1.576	0.203	0.216	0.321	-0.044	-0.031
Rohn-D1	Rohn-DA71	39.32	0.000	-1.788	-1.788	-1.780	-0.257	-0.253	-0.398	-0.005	-0.002
Rohn-D1	Rohn-DA72	0.41	0.029	-0.018	0.023	0.029	0.007	0.013	-0.005	-0.018	-0.012
Rohn-D1	Rohn-DA8P	23.73	1.839	-0.041	1.832	1.839	0.197	0.209	0.382	-0.041	-0.029
Rohn-D1	Rohn-DA81	2.20	0.171	-0.023	0.164	0.171	-0.010	-0.003	0.023	-0.023	-0.016
Rohn-D1	Rohn-DA82	37.00	0.000	-1.682	-1.682	-1.675	-0.268	-0.265	-0.374	-0.004	-0.001
Rohn-D2	Rohn-DB1P	35.39	3.104	-0.054	3.096	3.104	0.299	0.314	0.654	-0.054	-0.039
Rohn-D2	Rohn-DB11	1.45	0.127	-0.030	0.118	0.127	-0.028	-0.019	0.008	-0.030	-0.021
Rohn-D2	Rohn-DB12	42.36	0.000	-2.745	-2.745	-2.735	-0.364	-0.360	-0.609	-0.004	-0.001
Rohn-D2	Rohn-DB2P	31.98	2.805	-0.056	2.796	2.805	0.302	0.318	0.587	-0.056	-0.040
Rohn-D2	Rohn-DB21	48.51	0.000	-3.143	-3.143	-3.133	-0.364	-0.360	-0.699	-0.006	-0.003
Rohn-D2	Rohn-DB22	4.32	0.000	-0.280	-0.280	-0.272	-0.021	-0.012	-0.077	-0.026	-0.017
Rohn-D2	Rohn-DB3P	30.12	2.642	-0.035	2.638	2.642	0.297	0.307	0.564	-0.035	-0.025
Rohn-D2	Rohn-DB31	9.50	0.833	-0.024	0.827	0.833	0.017	0.024	0.170	-0.024	-0.016
Rohn-D2	Rohn-DB32	48.83	0.004	-2.988	-2.988	-2.979	-0.376	-0.374	-0.660	0.003	0.004
Rohn-D2	Rohn-DB4P	26.01	2.281	-0.038	2.276	2.281	0.298	0.308	0.482	-0.038	-0.027
Rohn-D2	Rohn-DB41	54.33	0.003	-3.325	-3.325	-3.316	-0.373	-0.371	-0.735	0.002	0.003
Rohn-D2	Rohn-DB42	5.32	0.466	-0.021	0.461	0.466	0.023	0.030	0.091	-0.021	-0.014
Rohn-D2	Rohn-DB5P	46.53	4.081	-0.068	4.072	4.081	0.350	0.368	0.863	-0.068	-0.049
Rohn-D2	Rohn-DB51	9.91	0.869	-0.057	0.855	0.869	-0.016	0.000	0.156	-0.057	-0.041
Rohn-D2	Rohn-DB52	78.91	0.000	-4.566	-4.566	-4.543	-0.504	-0.491	-1.037	-0.041	-0.029
Rohn-D2	Rohn-DB6P	42.74	3.749	-0.069	3.740	3.749	0.352	0.370	0.788	-0.069	-0.050
Rohn-D2	Rohn-DB61	84.67	0.000	-4.899	-4.899	-4.876	-0.502	-0.489	-1.111	-0.042	-0.030
Rohn-D2	Rohn-DB62	5.90	0.517	-0.055	0.503	0.517	-0.010	0.005	0.079	-0.055	-0.040
Rohn-D2	Rohn-DB7P	52.01	4.561	-0.070	4.553	4.561	0.379	0.397	0.969	-0.070	-0.051
Rohn-D2	Rohn-DB71	3.89	0.000	-0.213	-0.213	-0.195	-0.081	-0.063	-0.086	-0.063	-0.046
Rohn-D2	Rohn-DB72	73.88	0.000	-4.046	-4.046	-4.021	-0.488	-0.473	-0.928	-0.052	-0.037
Rohn-D2	Rohn-DB8P	48.45	4.249	-0.070	4.240	4.249	0.382	0.400	0.899	-0.070	-0.051
Rohn-D2	Rohn-DB81	79.75	0.000	-4.368	-4.368	-4.343	-0.486	-0.470	-0.999	-0.052	-0.037
Rohn-D2	Rohn-DB82	9.99	0.000	-0.547	-0.547	-0.529	-0.077	-0.060	-0.160	-0.062	-0.045
Rohn-D3	Rohn-DC1P	46.08	4.510	-0.124	4.488	4.510	0.337	0.369	0.922	-0.124	-0.091
Rohn-D3	Rohn-DC11	10.01	0.980	-0.114	0.951	0.980	-0.064	-0.034	0.142	-0.114	-0.083
Rohn-D3	Rohn-DC12	59.29	0.000	-5.346	-5.346	-5.305	-0.624	-0.595	-1.250	-0.106	-0.077
Rohn-D3	Rohn-DC2P	42.65	4.174	-0.124	4.153	4.174	0.340	0.372	0.847	-0.124	-0.091
Rohn-D3	Rohn-DC21	62.60	0.000	-5.645	-5.645	-5.603	-0.620	-0.591	-1.317	-0.106	-0.078
Rohn-D3	Rohn-DC22	6.29	0.616	-0.113	0.587	0.616	-0.061	-0.031	0.061	-0.113	-0.083
Rohn-D3	Rohn-DC3P	57.60	5.637	-0.017	5.637	5.630	0.482	0.487	1.244	-0.017	-0.011
Rohn-D3	Rohn-DC31	12.86	1.259	-0.011	1.257	1.259	0.009	0.012	0.272	-0.011	-0.008
Rohn-D3	Rohn-DC32	77.42	0.000	-6.556	-6.556	-6.540	-0.528	-0.526	-1.455	-0.001	0.000

Rohn-D3	Rohn-DC4P	54.73	5.357	-0.017	5.357	5.349	0.486	0.490	1.181	-0.017	-0.012
Rohn-D3	Rohn-DC41	79.74	0.000	-6.752	-6.752	-6.736	-0.522	-0.520	-1.499	-0.002	-0.000
Rohn-D3	Rohn-DC42	10.30	1.008	-0.011	1.006	1.008	0.015	0.019	0.217	-0.011	-0.007
R-D3-MOD	Rohn-DC5P	63.22	7.860	-0.246	7.814	7.860	0.354	0.416	1.588	-0.246	-0.183
R-D3-MOD	Rohn-DC51	4.15	0.516	-0.236	0.456	0.516	-0.205	-0.144	-0.046	-0.236	-0.175
R-D3-MOD	Rohn-DC52	82.27	0.000	-8.529	-8.529	-8.452	-0.866	-0.806	-2.031	-0.229	-0.170
R-D3-MOD	Rohn-DC6P	61.72	7.673	-0.247	7.628	7.673	0.360	0.422	1.546	-0.247	-0.183
R-D3-MOD	Rohn-DC61	85.12	0.000	-8.826	-8.826	-8.748	-0.865	-0.804	-2.098	-0.230	-0.171
R-D3-MOD	Rohn-DC62	2.37	0.294	-0.234	0.235	0.294	-0.196	-0.136	-0.093	-0.234	-0.174
Rohn-D4	Rohn-DD1P	53.74	6.682	-0.233	6.636	6.682	0.255	0.314	1.335	-0.233	-0.173
Rohn-D4	Rohn-DD11	9.72	1.209	-0.225	1.153	1.209	-0.161	-0.103	0.119	-0.225	-0.167
Rohn-D4	Rohn-DD12	80.80	0.000	-7.899	-7.899	-7.828	-0.766	-0.710	-1.883	-0.212	-0.157
Rohn-D4	Rohn-DD2P	51.44	6.396	-0.235	6.349	6.396	0.256	0.316	1.270	-0.235	-0.174
Rohn-D4	Rohn-DD21	84.74	0.000	-8.285	-8.285	-8.213	-0.768	-0.711	-1.970	-0.214	-0.159
Rohn-D4	Rohn-DD22	6.59	0.819	-0.222	0.765	0.819	-0.156	-0.099	0.035	-0.222	-0.164
R-D4-MOD	Rohn-DD3P	77.26	9.606	-0.055	9.606	9.601	0.549	0.562	2.110	-0.055	-0.041
R-D4-MOD	Rohn-DD31	3.21	0.399	-0.078	0.386	0.399	-0.078	-0.065	0.054	-0.047	-0.035
R-D4-MOD	Rohn-DD32	77.31	0.000	-9.613	-9.613	-9.585	-0.611	-0.600	-2.156	-0.036	-0.026
R-D4-MOD	Rohn-DD4P	74.31	9.240	-0.057	9.240	9.236	0.548	0.562	2.028	-0.057	-0.042
R-D4-MOD	Rohn-DD41	79.91	0.000	-9.936	-9.936	-9.908	-0.609	-0.598	-2.227	-0.036	-0.026
R-D4-MOD	Rohn-DD42	0.60	0.055	-0.074	0.042	0.055	-0.074	-0.062	-0.021	-0.045	-0.033
R-D4-MOD	Rohn-DD5P	66.67	8.289	-0.311	8.225	8.289	0.184	0.262	1.643	-0.311	-0.232
R-D4-MOD	Rohn-DD51	7.10	0.883	-0.303	0.808	0.883	-0.219	-0.142	-0.010	-0.303	-0.226
R-D4-MOD	Rohn-DD52	76.32	0.000	-9.490	-9.490	-9.399	-0.877	-0.801	-2.285	-0.294	-0.219
R-D4-MOD	Rohn-DD6P	64.15	7.976	-0.312	7.912	7.976	0.186	0.264	1.574	-0.312	-0.232
R-D4-MOD	Rohn-DD61	79.01	0.000	-9.823	-9.823	-9.732	-0.875	-0.799	-2.359	-0.294	-0.219
R-D4-MOD	Rohn-DD62	4.43	0.550	-0.303	0.475	0.550	-0.218	-0.141	-0.085	-0.303	-0.226
Rohn-D5	Rohn-DE1P	53.10	6.602	-0.248	6.549	6.602	0.104	0.166	1.314	-0.248	-0.185
Rohn-D5	Rohn-DE11	6.22	0.774	-0.239	0.714	0.774	-0.197	-0.136	0.012	-0.239	-0.178
Rohn-D5	Rohn-DE12	60.50	0.000	-7.522	-7.522	-7.451	-0.630	-0.570	-1.821	-0.234	-0.174
Rohn-D5	Rohn-DE2P	50.48	6.276	-0.247	6.223	6.276	0.106	0.168	1.243	-0.247	-0.184
Rohn-D5	Rohn-DE21	62.92	0.000	-7.823	-7.823	-7.752	-0.626	-0.566	-1.885	-0.231	-0.172
Rohn-D5	Rohn-DE22	3.70	0.460	-0.243	0.400	0.460	-0.200	-0.138	-0.061	-0.243	-0.181
Rohn-D5	Rohn-DE3P	65.97	8.203	-0.108	8.188	8.203	0.367	0.394	1.766	-0.108	-0.081
Rohn-D5	Rohn-DE31	5.52	0.000	-0.686	-0.686	-0.657	-0.165	-0.139	-0.220	-0.101	-0.075
Rohn-D5	Rohn-DE32	59.36	0.000	-7.380	-7.380	-7.344	-0.514	-0.488	-1.703	-0.101	-0.075
Rohn-D5	Rohn-DE4P	63.76	7.927	-0.105	7.913	7.927	0.372	0.398	1.707	-0.105	-0.078
Rohn-D5	Rohn-DE41	62.06	0.000	-7.716	-7.716	-7.681	-0.509	-0.483	-1.774	-0.096	-0.071
Rohn-D5	Rohn-DE42	7.93	0.000	-0.986	-0.986	-0.956	-0.171	-0.143	-0.291	-0.108	-0.081
Rohn-D5	Rohn-DE5P	69.10	8.592	-0.297	8.529	8.592	0.226	0.300	1.724	-0.297	-0.222
Rohn-D5	Rohn-DE51	3.33	0.414	-0.287	0.343	0.414	-0.266	-0.194	-0.098	-0.287	-0.215
Rohn-D5	Rohn-DE52	75.25	0.000	-9.356	-9.356	-9.268	-0.840	-0.764	-2.264	-0.294	-0.220
Rohn-D5	Rohn-DE6P	66.31	8.245	-0.292	8.183	8.245	0.230	0.304	1.650	-0.292	-0.218
Rohn-D5	Rohn-DE61	76.24	0.000	-9.479	-9.479	-9.393	-0.830	-0.756	-2.287	-0.288	-0.215
Rohn-D5	Rohn-DE62	2.40	0.047	-0.299	-0.027	0.047	-0.277	-0.202	-0.188	-0.299	-0.223
Rohn-D6	Rohn-DF1P	81.58	10.143	-0.264	10.092	10.143	0.315	0.381	2.113	-0.264	-0.198
Rohn-D6	Rohn-DF11	2.09	0.000	-0.260	-0.249	-0.184	-0.260	-0.196	-0.222	-0.250	-0.187
Rohn-D6	Rohn-DF12	85.79	0.000	-10.667	-10.667	-10.588	-0.842	-0.775	-2.541	-0.263	-0.197
Rohn-D6	Rohn-DF2P	80.75	10.040	-0.257	9.991	10.040	0.327	0.390	2.095	-0.257	-0.192
Rohn-D6	Rohn-DF21	85.46	0.000	-10.626	-10.626	-10.550	-0.825	-0.761	-2.525	-0.252	-0.189
Rohn-D6	Rohn-DF22	2.17	0.000	-0.270	-0.181	-0.112	-0.270	-0.203	-0.218	-0.268	-0.201
Rohn-D6	Rohn-DF3P	79.23	9.851	-0.258	9.798	9.851	0.323	0.387	2.035	-0.258	-0.193
Rohn-D6	Rohn-DF31	6.91	0.859	-0.244	0.799	0.859	-0.204	-0.142	0.023	-0.244	-0.183
Rohn-D6	Rohn-DF32	91.97	0.000	-11.434	-11.434	-11.359	-0.885	-0.820	-2.696	-0.255	-0.191
Rohn-D6	Rohn-DF4P	79.37	9.869	-0.249	9.818	9.869	0.338	0.400	2.045	-0.249	-0.186
Rohn-D6	Rohn-DF41	90.85	0.000	-11.296	-11.296	-11.223	-0.872	-0.809	-2.662	-0.248	-0.186
Rohn-D6	Rohn-DF42	6.15	0.765	-0.260	0.700	0.765	-0.215	-0.150	-0.009	-0.260	-0.195
Rohn-D6	Rohn-DG1P	69.55	8.647	-0.243	8.596	8.647	0.210	0.271	1.798	-0.243	-0.182
Rohn-D6	Rohn-DG11	1.90	0.237	-0.230	0.179	0.237	-0.212	-0.154	-0.112	-0.230	-0.172
Rohn-D6	Rohn-DG12	80.10	0.000	-9.959	-9.959	-9.891	-0.721	-0.661	-2.377	-0.238	-0.179
Rohn-D6	Rohn-DG2P	70.75	8.796	-0.236	8.746	8.796	0.223	0.282	1.836	-0.236	-0.177
Rohn-D6	Rohn-DG21	77.16	0.000	-9.594	-9.594	-9.527	-0.706	-0.648	-2.291	-0.232	-0.174
Rohn-D6	Rohn-DG22	4.65	0.578	-0.244	0.516	0.578	-0.218	-0.157	-0.045	-0.244	-0.183
Rohn-D6	Rohn-DG3P	76.45	9.506	-0.218	9.457	9.506	0.303	0.357	1.988	-0.218	-0.163
Rohn-D6	Rohn-DG31	1.68	0.150	-0.208	0.097	0.150	-0.206	-0.153	-0.115	-0.208	-0.156
Rohn-D6	Rohn-DG32	85.77	0.000	-10.665	-10.665	-10.606	-0.747	-0.693	-2.499	-0.213	-0.159
Rohn-D6	Rohn-DG4P	79.13	9.838	-0.212	9.792	9.838	0.316	0.369	2.065	-0.212	-0.159
Rohn-D6	Rohn-DG41	83.64	0.000	-10.400	-10.400	-10.342	-0.737	-0.684	-2.439	-0.209	-0.157
Rohn-D6	Rohn-DG42	3.12	0.388	-0.218	0.332	0.388	-0.208	-0.153	-0.069	-0.218	-0.163

Rohn-D7	Rohn-DH1P	73.38	9.123	-0.240	9.068	9.123	0.200	0.260	1.915	-0.240	-0.180
Rohn-D7	Rohn-DH11	2.33	0.000	-0.290	-0.290	-0.231	-0.236	-0.178	-0.219	-0.232	-0.174
Rohn-D7	Rohn-DH12	80.02	0.000	-9.950	-9.950	-9.887	-0.681	-0.622	-2.375	-0.235	-0.176
Rohn-D7	Rohn-DH2P	75.46	9.382	-0.237	9.328	9.382	0.210	0.269	1.975	-0.237	-0.177
Rohn-D7	Rohn-DH21	77.78	0.000	-9.671	-9.671	-9.609	-0.671	-0.613	-2.312	-0.231	-0.174
Rohn-D7	Rohn-DH22	1.92	0.018	-0.239	-0.043	0.018	-0.236	-0.177	-0.169	-0.239	-0.179
R-D7-MOD	Rohn-DH3P	67.72	10.525	-0.264	10.462	10.525	0.268	0.334	2.192	-0.264	-0.198
R-D7-MOD	Rohn-DH31	2.19	0.340	-0.258	0.273	0.340	-0.254	-0.189	-0.113	-0.258	-0.194
R-D7-MOD	Rohn-DH32	77.10	0.000	-11.983	-11.983	-11.919	-0.805	-0.741	-2.818	-0.259	-0.194
R-D7-MOD	Rohn-DH4P	69.41	10.788	-0.261	10.725	10.788	0.278	0.343	2.252	-0.261	-0.196
R-D7-MOD	Rohn-DH41	75.45	0.000	-11.726	-11.726	-11.662	-0.797	-0.733	-2.760	-0.257	-0.193
R-D7-MOD	Rohn-DH42	3.70	0.576	-0.263	0.507	0.576	-0.252	-0.186	-0.064	-0.263	-0.197
Rohn-D7	Rohn-DI1P	61.58	7.656	-0.184	7.609	7.656	0.149	0.195	1.620	-0.184	-0.137
Rohn-D7	Rohn-DI11	7.78	0.968	-0.179	0.923	0.968	-0.150	-0.105	0.091	-0.179	-0.134
Rohn-D7	Rohn-DI12	76.55	0.000	-9.518	-9.518	-9.474	-0.551	-0.506	-2.246	-0.179	-0.134
Rohn-D7	Rohn-DI2P	63.56	7.903	-0.182	7.856	7.903	0.157	0.203	1.676	-0.182	-0.136
Rohn-D7	Rohn-DI21	74.58	0.000	-9.273	-9.273	-9.229	-0.543	-0.499	-2.191	-0.178	-0.133
Rohn-D7	Rohn-DI22	9.65	1.199	-0.182	1.153	1.199	-0.147	-0.101	0.141	-0.182	-0.137
Rohn-D7	Rohn-DI3P	60.27	7.494	-0.175	7.449	7.494	0.135	0.178	1.575	-0.175	-0.131
Rohn-D7	Rohn-DI31	9.09	1.130	-0.171	1.085	1.130	-0.104	-0.061	0.116	-0.171	-0.129
Rohn-D7	Rohn-DI32	75.83	0.000	-9.428	-9.428	-9.390	-0.558	-0.516	-2.198	-0.172	-0.130
Rohn-D7	Rohn-DI4P	62.03	7.713	-0.174	7.668	7.713	0.141	0.184	1.624	-0.174	-0.131
Rohn-D7	Rohn-DI41	74.07	0.000	-9.210	-9.210	-9.172	-0.551	-0.509	-2.149	-0.171	-0.129
Rohn-D7	Rohn-DI42	10.76	1.337	-0.173	1.292	1.337	-0.100	-0.057	0.161	-0.173	-0.130
Rohn-L1	Rohn-LA1P	1.30	0.000	-1.353	-1.353	-1.264	-0.523	-0.437	-0.517	-0.350	-0.265
Rohn-L1	Rohn-LA11	0.34	0.136	-0.354	0.050	0.136	-0.270	-0.183	-0.208	-0.354	-0.267
Rohn-L1	Rohn-LA12	0.49	0.188	-0.512	0.064	0.188	-0.422	-0.297	-0.303	-0.512	-0.386
Rohn-L1	Rohn-LA2P	3.82	0.000	-3.970	-3.970	-3.815	-1.167	-1.021	-1.244	-0.589	-0.444
Rohn-L1	Rohn-LA21	1.05	1.333	-0.629	1.182	1.333	-0.334	-0.179	-0.127	-0.629	-0.473
Rohn-L1	Rohn-LA22	0.86	1.099	-0.802	0.904	1.099	-0.514	-0.316	-0.297	-0.802	-0.603
Rohn-L1	Rohn-LA3P	7.12	0.000	-7.406	-7.406	-7.200	-1.817	-1.627	-2.111	-0.762	-0.573
Rohn-L1	Rohn-LA31	2.14	2.721	-0.969	2.489	2.721	-0.438	-0.198	-0.049	-0.969	-0.729
Rohn-L1	Rohn-LA32	2.01	2.558	-0.995	2.320	2.558	-0.470	-0.223	-0.102	-0.995	-0.748
Rohn-L1	Rohn-LA4P	10.72	0.000	-11.147	-11.147	-10.881	-2.517	-2.274	-3.070	-0.972	-0.731
Rohn-L1	Rohn-LA41	3.25	4.134	-1.157	3.859	4.134	-0.387	-0.101	0.139	-1.157	-0.870
Rohn-L1	Rohn-LA42	3.32	4.232	-1.188	3.950	4.232	-0.416	-0.122	0.140	-1.188	-0.893
Rohn-L2	Rohn-LB1P	12.77	0.000	-16.958	-16.958	-16.374	-4.342	-3.792	-5.114	-2.196	-1.649
Rohn-L2	Rohn-LB11	3.96	6.135	-1.709	5.728	6.135	-0.635	-0.211	0.213	-1.709	-1.284
Rohn-L2	Rohn-LB12	4.02	6.226	-1.669	5.830	6.226	-0.595	-0.182	0.260	-1.669	-1.254
Rohn-L2	Rohn-LB2P	16.82	0.000	-22.335	-22.335	-21.692	-5.192	-4.593	-6.421	-2.384	-1.790
Rohn-L2	Rohn-LB21	5.50	8.515	-1.955	8.053	8.515	-0.550	-0.065	0.578	-1.955	-1.468
Rohn-L2	Rohn-LB22	5.60	8.669	-1.920	8.216	8.669	-0.514	-0.038	0.635	-1.920	-1.441
Rohn-L2	Rohn-LB3P	22.60	0.000	-30.005	-30.005	-29.072	-7.024	-6.150	-8.797	-3.478	-2.610
Rohn-L2	Rohn-LB31	7.10	10.998	-3.062	10.267	10.998	-1.288	-0.527	0.386	-3.062	-2.298
Rohn-L2	Rohn-LB32	7.21	11.163	-3.031	10.441	11.163	-1.257	-0.504	0.443	-3.031	-2.275
Rohn-L2	Rohn-LB4P	28.98	0.000	-38.467	-38.467	-37.467	-8.040	-7.117	-10.792	-3.670	-2.754
Rohn-L2	Rohn-LB41	9.67	14.963	-3.284	14.187	14.963	-1.098	-0.282	1.119	-3.284	-2.465
Rohn-L2	Rohn-LB42	9.78	15.143	-3.255	14.375	15.143	-1.068	-0.260	1.179	-3.255	-2.443
Rohn-L3	Rohn-LC1P	31.47	0.000	-47.359	-47.359	-46.232	-9.349	-8.319	-13.027	-4.095	-3.073
Rohn-L3	Rohn-LC11	10.13	18.866	-3.736	17.988	18.866	-1.107	-0.180	1.685	-3.736	-2.805
Rohn-L3	Rohn-LC12	10.25	19.091	-3.708	18.220	19.091	-1.078	-0.158	1.753	-3.708	-2.783
Rohn-L3	Rohn-LC2P	39.88	0.000	-59.938	-59.938	-58.521	-11.482	-10.185	-16.470	-5.149	-3.863
Rohn-L3	Rohn-LC21	12.74	23.738	-4.888	22.584	23.738	-1.720	-0.506	1.997	-4.888	-3.667
Rohn-L3	Rohn-LC22	12.87	23.972	-4.908	22.813	23.972	-1.740	-0.520	2.034	-4.908	-3.683
Rohn-L3	Rohn-LC3P	50.76	0.000	-76.389	-76.389	-74.570	-14.115	-12.448	-21.032	-6.625	-4.971
Rohn-L3	Rohn-LC31	16.21	30.196	-6.269	28.715	30.196	-2.523	-0.965	2.509	-6.269	-4.705
Rohn-L3	Rohn-LC32	16.31	30.377	-6.293	28.890	30.377	-2.548	-0.984	2.533	-6.293	-4.722
Rohn-L4	Rohn-LD1P	58.01	0.000	-92.158	-92.158	-90.153	-15.861	-14.035	-24.916	-7.246	-5.437
Rohn-L4	Rohn-LD11	20.53	37.238	-7.000	35.590	37.238	-2.691	-0.952	3.587	-7.000	-5.253
Rohn-L4	Rohn-LD12	20.68	37.500	-6.944	35.866	37.500	-2.636	-0.911	3.683	-6.944	-5.210
Rohn-L4	Rohn-LD2P	69.68	0.000	-110.610	-110.610	-108.151	-18.658	-16.411	-30.052	-8.922	-6.693
Rohn-L4	Rohn-LD21	24.51	44.450	-8.577	42.424	44.450	-3.708	-1.575	4.139	-8.577	-6.435
Rohn-L4	Rohn-LD22	24.69	44.773	-8.525	42.760	44.773	-3.655	-1.535	4.246	-8.525	-6.396
Rohn-L4	Rohn-LD3P	80.43	0.000	-127.778	-127.778	-125.272	-19.739	-17.472	-33.912	-8.992	-6.746
Rohn-L4	Rohn-LD31	29.18	52.925	-8.674	50.890	52.925	-3.299	-1.143	5.965	-8.674	-6.508
Rohn-L4	Rohn-LD32	29.36	53.238	-8.623	51.216	53.238	-3.248	-1.105	6.069	-8.623	-6.470
Rohn-L5	Rohn-LE1P	63.81	0.000	-143.260	-143.260	-140.528	-21.413	-18.941	-37.858	-9.809	-7.359
Rohn-L5	Rohn-LE11	23.15	59.594	-9.515	57.360	59.594	-3.711	-1.347	6.892	-9.515	-7.139
Rohn-L5	Rohn-LE12	23.28	59.921	-9.461	57.701	59.921	-3.657	-1.306	7.002	-9.461	-7.098

Rohn-L5	Rohn-LE2P	70.31	0.000	-157.722	-157.722	-154.827	-22.749	-20.135	-41.430	-10.369	-7.779
Rohn-L5	Rohn-LE21	25.69	66.118	-10.094	63.751	66.118	-3.902	-1.393	7.966	-10.094	-7.573
Rohn-L5	Rohn-LE22	25.81	66.423	-10.032	64.071	66.423	-3.841	-1.347	8.077	-10.032	-7.526
Rohn-L5	Rohn-LE3P	76.59	0.000	-171.968	-171.968	-168.983	-23.839	-21.154	-44.775	-10.648	-7.988
Rohn-L5	Rohn-LE31	28.29	72.814	-10.387	70.383	72.814	-3.790	-1.209	9.265	-10.387	-7.793
Rohn-L5	Rohn-LE32	28.45	73.233	-10.313	70.821	73.233	-3.715	-1.153	9.411	-10.313	-7.737
Rohn-L6	Rohn-LF1P	78.92	0.000	-192.389	-192.389	-189.126	-25.957	-23.020	-49.961	-11.645	-8.736
Rohn-L6	Rohn-LF11	27.08	81.772	-11.401	79.102	81.772	-4.243	-1.410	10.602	-11.401	-8.553
Rohn-L6	Rohn-LF12	27.17	82.054	-11.478	79.365	82.054	-4.320	-1.467	10.616	-11.478	-8.611
Rohn-L6	Rohn-LF2P	75.37	0.000	-215.736	-215.736	-212.293	-27.860	-24.768	-55.550	-12.260	-9.197
Rohn-L6	Rohn-LF21	30.68	92.635	-12.033	89.820	92.635	-4.232	-1.241	12.611	-12.033	-9.028
Rohn-L6	Rohn-LF22	30.78	92.945	-12.084	90.118	92.945	-4.282	-1.279	12.649	-12.084	-9.065
Rohn-L7	Rohn-LG1P	83.72	0.000	-238.739	-238.739	-234.921	-30.437	-26.991	-61.559	-13.669	-10.254
Rohn-L7	Rohn-LG11	28.86	102.339	-13.413	99.190	102.339	-5.027	-1.692	13.872	-13.413	-10.062
Rohn-L7	Rohn-LG12	28.94	102.638	-13.553	99.455	102.638	-5.168	-1.797	13.847	-13.553	-10.167
Rohn-L7	Rohn-LG2P	91.06	0.000	-259.690	-259.690	-255.680	-32.185	-28.563	-66.679	-14.369	-10.779
Rohn-L7	Rohn-LG21	31.57	111.958	-14.128	108.639	111.958	-5.219	-1.705	15.554	-14.128	-10.599
Rohn-L7	Rohn-LG22	31.63	112.169	-14.251	108.819	112.169	-5.343	-1.798	15.521	-14.251	-10.691
Rohn-L7	Rohn-LH1P	83.71	0.000	-281.089	-281.089	-276.728	-34.534	-30.571	-72.309	-15.731	-11.800
Rohn-L7	Rohn-LH11	34.09	120.900	-15.503	117.243	120.900	-6.100	-2.243	16.650	-15.503	-11.630
Rohn-L7	Rohn-LH12	34.17	121.174	-15.613	117.489	121.174	-6.211	-2.326	16.639	-15.613	-11.712
Rohn-L7	Rohn-LH2P	89.90	0.000	-301.893	-301.893	-297.352	-36.190	-32.054	-77.402	-16.425	-12.321
Rohn-L7	Rohn-LH21	36.78	130.406	-16.209	126.575	130.406	-6.325	-2.292	18.318	-16.209	-12.159
Rohn-L7	Rohn-LH22	36.86	130.693	-16.311	126.837	130.693	-6.427	-2.368	18.315	-16.311	-12.235
Rohn-L8	Rohn-LI1P	81.91	0.000	-322.224	-322.224	-317.278	-38.660	-34.117	-82.946	-18.054	-13.543
Rohn-L8	Rohn-LI11	31.21	138.491	-17.846	134.250	138.491	-7.542	-3.099	19.043	-17.846	-13.387
Rohn-L8	Rohn-LI12	31.28	138.797	-17.942	134.533	138.797	-7.638	-3.172	19.048	-17.942	-13.459
Rohn-L8	Rohn-LI2P	78.71	0.000	-338.880	-338.880	-333.724	-40.147	-35.390	-87.210	-18.905	-14.181
Rohn-L8	Rohn-LI21	32.84	145.713	-18.705	141.255	145.713	-8.084	-3.426	20.103	-18.705	-14.031
Rohn-L8	Rohn-LI22	32.91	146.031	-18.797	141.551	146.031	-8.176	-3.495	20.113	-18.797	-14.100
Rohn-H1	Rohn-H1P	1.22	0.000	-0.099	-0.099	-0.089	-0.025	-0.015	-0.033	-0.023	-0.013
Rohn-H1	Rohn-H11	1.11	0.224	-0.026	0.213	0.224	-0.004	0.007	0.034	-0.026	-0.015
Rohn-H1	Rohn-H12	2.54	0.000	-0.206	-0.206	-0.195	-0.048	-0.037	-0.059	-0.027	-0.016
Rohn-H1	Rohn-H2P	1.89	0.000	-0.110	-0.110	-0.102	-0.016	-0.008	-0.033	-0.019	-0.011
Rohn-H1	Rohn-H21	0.53	0.107	-0.023	0.100	0.107	-0.023	-0.015	0.015	-0.017	-0.009
Rohn-H1	Rohn-H22	0.31	0.045	-0.018	0.037	0.045	-0.010	-0.002	-0.001	-0.018	-0.010
SNB-D1	SNB-DA1P	3.36	0.418	0.000	0.418	0.412	0.078	0.072	0.101	0.016	0.010
SNB-D1	SNB-DA11	0.72	0.014	-0.090	-0.086	-0.090	0.014	0.011	-0.016	0.007	0.003
SNB-D1	SNB-DA12	1.70	0.014	-0.212	-0.207	-0.212	-0.055	-0.060	-0.038	0.014	0.009
SNB-D1	SNB-DA2P	1.76	0.218	0.000	0.218	0.214	0.068	0.064	0.053	0.010	0.005
SNB-D1	SNB-DA21	0.70	0.011	-0.088	-0.084	-0.088	-0.054	-0.059	-0.013	0.011	0.007
SNB-D1	SNB-DA22	0.19	0.023	-0.012	-0.006	-0.012	0.023	0.017	0.007	0.016	0.010
SNB-D1	SNB-DA3P	5.17	0.643	0.000	0.643	0.635	0.136	0.129	0.151	0.017	0.010
SNB-D1	SNB-DA31	0.89	0.111	0.000	0.111	0.107	0.026	0.022	0.027	0.006	0.002
SNB-D1	SNB-DA32	6.78	0.004	-0.843	-0.842	-0.843	-0.140	-0.143	-0.186	0.004	0.001
SNB-D1	SNB-DA4P	6.28	0.781	0.000	0.781	0.774	0.137	0.131	0.180	0.014	0.008
SNB-D1	SNB-DA41	6.40	0.006	-0.796	-0.794	-0.796	-0.138	-0.142	-0.174	0.006	0.002
SNB-D1	SNB-DA42	0.65	0.023	-0.081	-0.076	-0.081	0.023	0.019	-0.014	0.007	0.003
SNB-D1	SNB-DA5P	8.28	1.029	0.000	1.029	1.017	0.216	0.206	0.245	0.031	0.021
SNB-D1	SNB-DA51	0.96	0.009	-0.119	-0.115	-0.119	0.002	-0.003	-0.021	0.009	0.005
SNB-D1	SNB-DA52	7.71	0.000	-0.959	-0.959	-0.958	-0.183	-0.184	-0.215	-0.003	-0.004
SNB-D1	SNB-DA6P	8.31	1.034	0.000	1.034	1.021	0.216	0.206	0.247	0.032	0.022
SNB-D1	SNB-DA61	9.01	0.001	-1.121	-1.121	-1.120	-0.184	-0.186	-0.249	0.001	-0.002
SNB-D1	SNB-DA62	0.35	0.044	-0.000	0.044	0.041	0.003	-0.000	0.011	0.004	0.001
SNB-D1	SNB-DA7P	11.96	1.487	0.000	1.487	1.478	0.227	0.220	0.338	0.017	0.010
SNB-D1	SNB-DA71	1.63	0.203	-0.004	0.203	0.201	0.029	0.028	0.042	-0.002	-0.004
SNB-D1	SNB-DA72	11.81	0.000	-1.468	-1.468	-1.459	-0.265	-0.259	-0.345	-0.030	-0.025
SNB-D1	SNB-DA8P	11.04	1.373	0.000	1.373	1.363	0.226	0.219	0.315	0.019	0.013
SNB-D1	SNB-DA81	10.10	0.000	-1.256	-1.256	-1.247	-0.256	-0.251	-0.296	-0.027	-0.022
SNB-D1	SNB-DA82	0.84	0.104	-0.009	0.104	0.104	0.021	0.021	0.016	-0.009	-0.009
SNB-D2	SNB-DB1P	18.45	2.158	0.000	2.158	2.143	0.310	0.301	0.495	0.030	0.021
SNB-D2	SNB-DB11	0.79	0.092	0.000	0.092	0.085	0.040	0.034	0.031	0.019	0.013
SNB-D2	SNB-DB12	17.66	0.000	-2.195	-2.195	-2.190	-0.305	-0.305	-0.490	-0.005	-0.005
SNB-D2	SNB-DB2P	18.39	2.150	0.000	2.150	2.135	0.312	0.302	0.495	0.033	0.023
SNB-D2	SNB-DB21	17.69	0.000	-2.199	-2.199	-2.194	-0.303	-0.304	-0.490	-0.003	-0.004
SNB-D2	SNB-DB22	0.85	0.099	0.000	0.099	0.094	0.037	0.032	0.030	0.015	0.010
SNB-D2	SNB-DB3P	24.08	2.816	0.000	2.816	2.796	0.375	0.361	0.650	0.045	0.031
SNB-D2	SNB-DB31	0.32	0.038	-0.027	-0.016	-0.027	0.036	0.025	0.018	0.038	0.026
SNB-D2	SNB-DB32	21.71	0.021	-2.699	-2.699	-2.699	-0.309	-0.315	-0.587	0.021	0.014

SNB-D2	SNB-DB4P	24.13	2.822	0.000	2.822	2.802	0.377	0.362	0.653	0.046	0.033
SNB-D2	SNB-DB41	21.56	0.022	-2.680	-2.680	-2.680	-0.307	-0.314	-0.582	0.022	0.014
SNB-D2	SNB-DB42	0.45	0.035	-0.056	-0.045	-0.056	0.034	0.023	0.010	0.035	0.024
SNB-D2	SNB-DB5P	28.09	3.284	0.000	3.284	3.265	0.398	0.385	0.751	0.040	0.028
SNB-D2	SNB-DB51	0.50	0.039	-0.062	-0.051	-0.062	0.029	0.018	0.011	0.039	0.027
SNB-D2	SNB-DB52	24.97	0.031	-3.105	-3.103	-3.105	-0.316	-0.325	-0.670	0.031	0.022
SNB-D2	SNB-DB6P	28.18	3.295	0.000	3.295	3.275	0.399	0.386	0.754	0.041	0.029
SNB-D2	SNB-DB61	24.93	0.031	-3.100	-3.098	-3.100	-0.316	-0.325	-0.669	0.031	0.022
SNB-D2	SNB-DB62	0.65	0.038	-0.081	-0.070	-0.081	0.028	0.017	0.007	0.038	0.027
SNB-D2	SNB-DB7P	27.88	3.260	0.000	3.260	3.244	0.361	0.352	0.737	0.025	0.017
SNB-D2	SNB-DB71	2.96	0.347	0.000	0.347	0.337	0.068	0.059	0.093	0.028	0.020
SNB-D2	SNB-DB72	28.50	0.025	-3.544	-3.544	-3.543	-0.350	-0.357	-0.771	0.025	0.017
SNB-D2	SNB-DB8P	27.94	3.267	0.000	3.267	3.252	0.361	0.352	0.739	0.025	0.018
SNB-D2	SNB-DB81	28.43	0.025	-3.535	-3.535	-3.534	-0.351	-0.358	-0.769	0.025	0.017
SNB-D2	SNB-DB82	2.79	0.326	0.000	0.326	0.317	0.068	0.059	0.089	0.029	0.020
SNB-D3	SNB-DC1P	35.12	4.367	-0.066	4.362	4.367	0.341	0.355	0.928	-0.066	-0.050
SNB-D3	SNB-DC11	4.81	0.598	-0.061	0.586	0.598	0.034	0.048	0.092	-0.061	-0.047
SNB-D3	SNB-DC12	42.22	0.000	-5.249	-5.249	-5.222	-0.569	-0.553	-1.206	-0.065	-0.050
SNB-D3	SNB-DC2P	35.10	4.364	-0.066	4.359	4.364	0.340	0.355	0.928	-0.066	-0.051
SNB-D3	SNB-DC21	42.25	0.000	-5.253	-5.253	-5.225	-0.570	-0.554	-1.207	-0.066	-0.050
SNB-D3	SNB-DC22	4.83	0.600	-0.060	0.588	0.600	0.035	0.049	0.093	-0.060	-0.046
SNB-D3	SNB-DC3P	50.45	6.273	0.000	6.273	6.211	0.701	0.652	1.505	0.183	0.135
SNB-D3	SNB-DC31	5.63	0.178	-0.700	-0.655	-0.700	0.092	0.045	-0.038	0.178	0.132
SNB-D3	SNB-DC32	41.20	0.181	-5.122	-5.087	-5.122	-0.251	-0.297	-1.018	0.181	0.134
SNB-D3	SNB-DC4P	50.41	6.268	0.000	6.268	6.207	0.701	0.652	1.504	0.182	0.135
SNB-D3	SNB-DC41	41.00	0.183	-5.098	-5.062	-5.098	-0.249	-0.296	-1.011	0.183	0.135
SNB-D3	SNB-DC42	5.82	0.177	-0.724	-0.679	-0.724	0.090	0.044	-0.044	0.177	0.131
SNB-D3	SNB-DC5P	42.46	5.280	0.000	5.280	5.266	0.376	0.373	1.174	0.003	0.001
SNB-D3	SNB-DC51	9.42	1.171	0.000	1.171	1.165	0.134	0.130	0.264	0.010	0.006
SNB-D3	SNB-DC52	50.87	0.003	-6.324	-6.324	-6.313	-0.490	-0.491	-1.399	0.003	0.001
SNB-D3	SNB-DC6P	42.64	5.302	0.000	5.302	5.289	0.378	0.374	1.180	0.005	0.002
SNB-D3	SNB-DC61	50.70	0.005	-6.304	-6.304	-6.293	-0.488	-0.490	-1.393	0.005	0.003
SNB-D3	SNB-DC62	9.04	1.124	0.000	1.124	1.118	0.131	0.127	0.252	0.007	0.004
SNB-D3	SNB-DD1P	57.73	7.177	-0.026	7.177	7.168	0.458	0.462	1.582	-0.026	-0.021
SNB-D3	SNB-DD11	14.10	1.753	-0.022	1.753	1.752	0.145	0.150	0.376	-0.022	-0.017
SNB-D3	SNB-DD12	72.32	0.000	-8.992	-8.992	-8.966	-0.682	-0.674	-2.017	-0.032	-0.025
SNB-D3	SNB-DD2P	57.58	7.160	-0.025	7.160	7.150	0.459	0.463	1.579	-0.025	-0.020
SNB-D3	SNB-DD21	72.35	0.000	-8.996	-8.996	-8.969	-0.682	-0.673	-2.018	-0.031	-0.024
SNB-D3	SNB-DD22	14.23	1.769	-0.024	1.769	1.769	0.144	0.149	0.379	-0.024	-0.019
SNB-D3	SNB-DD3P	71.52	8.892	0.000	8.892	8.795	0.916	0.835	2.174	0.312	0.233
SNB-D3	SNB-DD31	8.34	0.308	-1.036	-0.961	-1.036	0.181	0.102	-0.030	0.308	0.230
SNB-D3	SNB-DD32	57.04	0.310	-7.092	-7.026	-7.092	-0.165	-0.243	-1.365	0.310	0.231
SNB-D3	SNB-DD4P	71.50	8.890	0.000	8.890	8.793	0.917	0.835	2.174	0.313	0.233
SNB-D3	SNB-DD41	56.86	0.310	-7.070	-7.005	-7.070	-0.165	-0.243	-1.361	0.310	0.231
SNB-D3	SNB-DD42	8.54	0.308	-1.062	-0.987	-1.062	0.180	0.102	-0.035	0.308	0.229
SNB-D3	SNB-DD5P	64.76	8.052	0.000	8.052	8.033	0.513	0.509	1.799	0.007	0.005
SNB-D3	SNB-DD51	10.24	1.273	0.000	1.273	1.268	0.134	0.131	0.283	0.010	0.007
SNB-D3	SNB-DD52	75.40	0.008	-9.375	-9.375	-9.359	-0.623	-0.625	-2.072	0.008	0.005
SNB-D3	SNB-DD6P	64.91	8.071	0.000	8.071	8.053	0.513	0.509	1.803	0.007	0.004
SNB-D3	SNB-DD61	75.48	0.006	-9.385	-9.385	-9.369	-0.626	-0.627	-2.075	0.006	0.004
SNB-D3	SNB-DD62	10.13	1.260	0.000	1.260	1.254	0.137	0.133	0.281	0.013	0.009
SNB-D4	SNB-DE1P	59.58	10.665	0.000	10.665	10.631	0.739	0.721	2.417	0.060	0.044
SNB-D4	SNB-DE11	11.28	2.019	0.000	2.019	1.999	0.232	0.216	0.486	0.062	0.046
SNB-D4	SNB-DE12	70.13	0.063	-12.554	-12.554	-12.548	-0.785	-0.800	-2.752	0.063	0.047
SNB-D4	SNB-DE2P	59.51	10.653	0.000	10.653	10.620	0.736	0.719	2.413	0.058	0.043
SNB-D4	SNB-DE21	70.00	0.059	-12.531	-12.531	-12.523	-0.789	-0.803	-2.750	0.059	0.044
SNB-D4	SNB-DE22	11.19	2.004	0.000	2.004	1.982	0.239	0.220	0.486	0.068	0.051
SNB-D4	SNB-DE3P	64.80	11.601	0.000	11.601	11.493	1.070	0.980	2.805	0.346	0.258
SNB-D4	SNB-DE31	3.96	0.342	-0.708	-0.625	-0.708	0.255	0.168	0.064	0.342	0.255
SNB-D4	SNB-DE32	56.36	0.355	-10.089	-10.017	-10.089	-0.282	-0.371	-2.006	0.355	0.265
SNB-D4	SNB-DE4P	64.97	11.631	0.000	11.631	11.524	1.067	0.978	2.810	0.342	0.255
SNB-D4	SNB-DE41	56.39	0.349	-10.095	-10.024	-10.095	-0.289	-0.376	-2.012	0.349	0.260
SNB-D4	SNB-DE42	4.12	0.352	-0.738	-0.651	-0.738	0.265	0.175	0.064	0.352	0.263
SNB-D4	SNB-DE5P	46.26	8.281	-0.077	8.275	8.281	0.397	0.415	1.806	-0.077	-0.058
SNB-D4	SNB-DE51	13.80	2.470	-0.076	2.457	2.470	0.127	0.146	0.498	-0.076	-0.058
SNB-D4	SNB-DE52	61.59	0.000	-11.024	-11.024	-10.990	-0.741	-0.724	-2.490	-0.064	-0.048
SNB-D4	SNB-DE6P	46.17	8.266	-0.083	8.258	8.266	0.390	0.410	1.799	-0.083	-0.062
SNB-D4	SNB-DE61	62.00	0.000	-11.099	-11.099	-11.063	-0.749	-0.731	-2.511	-0.071	-0.054
SNB-D4	SNB-DE62	14.28	2.557	-0.063	2.547	2.557	0.142	0.157	0.526	-0.063	-0.048

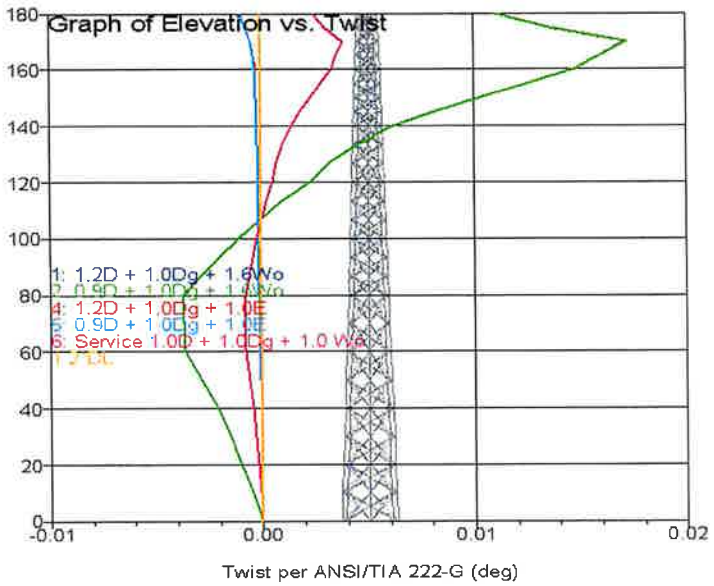
SNB-D5	SNB-DF1P	62.25	11.144	0.000	11.144	11.080	0.830	0.780	2.636	0.195	0.145
SNB-D5	SNB-DF11	7.46	1.336	0.000	1.336	1.288	0.288	0.239	0.391	0.192	0.143
SNB-D5	SNB-DF12	67.37	0.207	-12.059	-12.022	-12.059	-0.525	-0.577	-2.541	0.207	0.155
SNB-D5	SNB-DF2P	62.83	11.247	0.000	11.247	11.185	0.824	0.775	2.654	0.187	0.140
SNB-D5	SNB-DF21	67.36	0.199	-12.058	-12.023	-12.058	-0.533	-0.583	-2.546	0.199	0.149
SNB-D5	SNB-DF22	6.88	1.232	0.000	1.232	1.180	0.303	0.250	0.378	0.208	0.155
SNB-D5	SNB-DF3P	62.41	11.173	0.000	11.173	11.101	0.839	0.783	2.653	0.220	0.165
SNB-D5	SNB-DF31	7.02	1.256	0.000	1.256	1.204	0.272	0.218	0.392	0.214	0.160
SNB-D5	SNB-DF32	66.84	0.230	-11.966	-11.924	-11.966	-0.448	-0.505	-2.500	0.230	0.172
SNB-D5	SNB-DF4P	62.39	11.169	0.000	11.169	11.100	0.831	0.777	2.648	0.212	0.159
SNB-D5	SNB-DF41	67.44	0.224	-12.073	-12.033	-12.073	-0.455	-0.511	-2.528	0.224	0.168
SNB-D5	SNB-DF42	7.66	1.371	0.000	1.371	1.315	0.287	0.230	0.426	0.228	0.171
SNB-D6	SNB-DG1P	71.61	12.820	0.000	12.820	12.775	0.816	0.780	2.986	0.139	0.104
SNB-D6	SNB-DG11	11.96	2.141	0.000	2.141	2.105	0.291	0.256	0.536	0.139	0.104
SNB-D6	SNB-DG12	82.28	0.146	-14.728	-14.703	-14.728	-0.683	-0.719	-3.179	0.146	0.109
SNB-D6	SNB-DG2P	71.97	12.884	0.000	12.884	12.840	0.811	0.776	2.997	0.134	0.100
SNB-D6	SNB-DG21	82.12	0.144	-14.701	-14.676	-14.701	-0.685	-0.721	-3.174	0.144	0.107
SNB-D6	SNB-DG22	11.46	2.051	0.000	2.051	2.013	0.298	0.261	0.521	0.147	0.110
S-D6-MOD	SNB-DG3P	57.68	12.906	0.000	12.906	12.850	0.840	0.797	3.020	0.172	0.129
S-D6-MOD	SNB-DG31	7.43	1.662	0.000	1.662	1.620	0.256	0.213	0.458	0.173	0.130
S-D6-MOD	SNB-DG32	63.59	0.179	-14.230	-14.198	-14.230	-0.574	-0.618	-3.049	0.179	0.134
S-D6-MOD	SNB-DG4P	57.78	12.929	0.000	12.929	12.873	0.838	0.795	3.024	0.170	0.127
S-D6-MOD	SNB-DG41	63.79	0.178	-14.273	-14.241	-14.273	-0.575	-0.619	-3.059	0.178	0.133
S-D6-MOD	SNB-DG42	7.53	1.685	0.000	1.685	1.642	0.260	0.216	0.466	0.176	0.132
SNB-D6	SNB-DH1P	73.71	13.195	0.000	13.195	13.152	0.790	0.750	3.097	0.160	0.120
SNB-D6	SNB-DH11	15.76	2.822	0.000	2.822	2.781	0.342	0.302	0.699	0.163	0.122
SNB-D6	SNB-DH12	88.18	0.164	-15.785	-15.747	-15.785	-0.647	-0.688	-3.401	0.164	0.123
SNB-D6	SNB-DH2P	73.74	13.200	0.000	13.200	13.157	0.789	0.749	3.097	0.158	0.118
SNB-D6	SNB-DH21	88.14	0.165	-15.778	-15.739	-15.778	-0.646	-0.687	-3.399	0.165	0.124
SNB-D6	SNB-DH22	15.71	2.812	0.000	2.812	2.771	0.344	0.302	0.698	0.164	0.123
S-D6-MOD	SNB-DH3P	56.97	12.747	0.000	12.747	12.696	0.771	0.726	3.001	0.181	0.136
S-D6-MOD	SNB-DH31	8.95	2.003	0.000	2.003	1.959	0.281	0.235	0.536	0.185	0.139
S-D6-MOD	SNB-DH32	64.45	0.187	-14.422	-14.380	-14.422	-0.501	-0.547	-3.085	0.187	0.140
S-D6-MOD	SNB-DH4P	57.00	12.754	0.000	12.754	12.703	0.771	0.726	3.002	0.181	0.136
S-D6-MOD	SNB-DH41	64.45	0.187	-14.422	-14.380	-14.422	-0.500	-0.546	-3.085	0.187	0.141
S-D6-MOD	SNB-DH42	8.93	1.998	0.000	1.998	1.955	0.281	0.235	0.535	0.184	0.138
S-D7-MOD	SNB-DI1P	73.39	16.422	0.000	16.422	16.403	0.793	0.767	3.792	0.114	0.086
S-D7-MOD	SNB-DI11	5.82	1.303	0.000	1.303	1.273	0.209	0.180	0.344	0.120	0.091
S-D7-MOD	SNB-DI12	78.84	0.119	-17.641	-17.606	-17.641	-0.652	-0.681	-3.852	0.119	0.090
S-D7-MOD	SNB-DI2P	73.42	16.430	0.000	16.430	16.410	0.794	0.767	3.793	0.114	0.086
S-D7-MOD	SNB-DI21	78.81	0.121	-17.635	-17.599	-17.635	-0.650	-0.679	-3.850	0.121	0.092
S-D7-MOD	SNB-DI22	5.78	1.293	0.000	1.293	1.263	0.207	0.179	0.341	0.117	0.089
S-D7-MOD	SNB-DI3P	76.52	17.122	0.000	17.122	17.090	0.831	0.794	3.956	0.145	0.108
S-D7-MOD	SNB-DI31	13.07	2.925	0.000	2.925	2.889	0.313	0.275	0.714	0.151	0.112
S-D7-MOD	SNB-DI32	88.55	0.150	-19.813	-19.770	-19.813	-0.699	-0.738	-4.309	0.150	0.112
S-D7-MOD	SNB-DI4P	76.56	17.132	0.000	17.132	17.099	0.832	0.795	3.959	0.146	0.109
S-D7-MOD	SNB-DI41	88.52	0.152	-19.808	-19.763	-19.808	-0.697	-0.736	-4.306	0.152	0.113
S-D7-MOD	SNB-DI42	13.01	2.912	0.000	2.912	2.876	0.311	0.273	0.710	0.148	0.110
SNB-L1	SNB-LA1P	0.74	0.000	-0.855	-0.855	-0.754	-0.487	-0.385	-0.429	-0.394	-0.292
SNB-L1	SNB-LA11	0.33	0.000	-0.388	-0.237	-0.138	-0.343	-0.243	-0.288	-0.388	-0.288
SNB-L1	SNB-LA12	0.34	0.000	-0.397	-0.204	-0.103	-0.349	-0.247	-0.287	-0.397	-0.295
SNB-L1	SNB-LA2P	2.00	0.000	-2.316	-2.316	-2.163	-0.958	-0.808	-0.868	-0.583	-0.434
SNB-L1	SNB-LA21	0.48	0.542	-0.557	0.401	0.542	-0.368	-0.225	-0.252	-0.557	-0.415
SNB-L1	SNB-LA22	0.50	0.541	-0.578	0.395	0.541	-0.385	-0.237	-0.266	-0.578	-0.430
SNB-L1	SNB-LA3P	4.47	0.000	-5.184	-5.184	-4.970	-1.659	-1.453	-1.641	-0.807	-0.602
SNB-L1	SNB-LA31	1.25	1.702	-0.733	1.522	1.702	-0.306	-0.120	-0.112	-0.733	-0.547
SNB-L1	SNB-LA32	1.26	1.711	-0.751	1.526	1.711	-0.321	-0.131	-0.122	-0.751	-0.560
SNB-L1	SNB-LA4P	7.62	0.000	-8.835	-8.835	-8.558	-2.422	-2.162	-2.581	-1.021	-0.763
SNB-L1	SNB-LA41	2.24	3.044	-0.875	2.832	3.044	-0.181	0.040	0.091	-0.875	-0.654
SNB-L1	SNB-LA42	2.32	3.156	-0.881	2.943	3.156	-0.184	0.038	0.112	-0.881	-0.658
SNB-L2	SNB-LB1P	7.77	0.000	-14.238	-14.238	-13.781	-3.798	-3.369	-4.192	-1.693	-1.268
SNB-L2	SNB-LB11	2.56	5.143	-1.472	4.788	5.143	-0.420	-0.051	0.157	-1.472	-1.101
SNB-L2	SNB-LB12	2.60	5.234	-1.467	4.880	5.234	-0.414	-0.047	0.181	-1.467	-1.098
SNB-L2	SNB-LB2P	11.48	0.000	-21.028	-21.028	-20.484	-4.906	-4.406	-5.868	-1.974	-1.477
SNB-L2	SNB-LB21	4.09	8.228	-1.696	7.825	8.228	-0.229	0.196	0.692	-1.696	-1.269
SNB-L2	SNB-LB22	4.14	8.339	-1.685	7.939	8.339	-0.218	0.204	0.724	-1.685	-1.261
SNB-L2	SNB-LB3P	15.74	0.000	-28.824	-28.824	-28.202	-6.018	-5.456	-7.744	-2.212	-1.657
SNB-L2	SNB-LB31	5.87	11.814	-1.905	11.369	11.814	-0.002	0.474	1.349	-1.905	-1.426
SNB-L2	SNB-LB32	5.95	11.962	-1.891	11.520	11.962	0.012	0.484	1.392	-1.891	-1.415

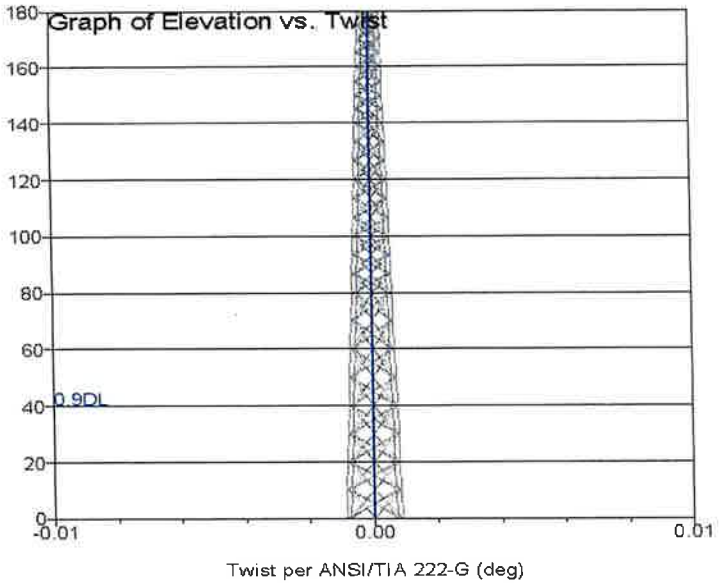
SNB-L2	SNB-LB4P	20.13	0.000	-36.863	-36.863	-36.169	-7.069	-6.453	-9.657	-2.424	-1.816
SNB-L2	SNB-LB41	7.74	15.575	-2.109	15.089	15.575	0.215	0.741	2.048	-2.109	-1.580
SNB-L2	SNB-LB42	7.83	15.760	-2.094	15.277	15.760	0.230	0.752	2.100	-2.094	-1.568
SNB-L2	SNB-LC1P	28.17	0.000	-47.958	-47.958	-47.087	-8.700	-7.930	-12.493	-3.032	-2.272
SNB-L2	SNB-LC11	10.15	20.427	-2.718	19.801	20.427	0.119	0.796	2.720	-2.718	-2.037
SNB-L2	SNB-LC12	10.25	20.625	-2.704	20.002	20.625	0.132	0.806	2.773	-2.704	-2.026
SNB-L2	SNB-LC2P	37.55	0.000	-63.874	-63.874	-62.809	-10.716	-9.785	-16.415	-3.660	-2.742
SNB-L2	SNB-LC21	13.67	27.512	-3.340	26.747	27.512	0.189	1.021	3.881	-3.340	-2.502
SNB-L2	SNB-LC22	13.79	27.739	-3.326	26.978	27.739	0.203	1.032	3.941	-3.326	-2.491
SNB-L2	SNB-LC3P	45.68	0.000	-77.774	-77.774	-76.665	-11.834	-10.887	-19.536	-3.720	-2.788
SNB-L2	SNB-LC31	17.03	34.263	-3.408	33.498	34.263	0.648	1.495	5.337	-3.408	-2.554
SNB-L2	SNB-LC32	17.17	34.546	-3.390	33.785	34.546	0.666	1.508	5.412	-3.390	-2.540
SNB-L3	SNB-LD1P	57.07	0.000	-95.848	-95.848	-94.480	-13.960	-12.790	-24.091	-4.601	-3.448
SNB-L3	SNB-LD11	22.80	42.247	-4.286	41.281	42.247	0.393	1.458	6.525	-4.286	-3.213
SNB-L3	SNB-LD12	22.96	42.560	-4.264	41.600	42.560	0.416	1.475	6.610	-4.264	-3.196
SNB-L3	SNB-LD2P	70.38	0.000	-118.136	-118.136	-116.538	-16.242	-14.882	-29.503	-5.342	-4.003
SNB-L3	SNB-LD21	28.31	52.473	-5.015	51.347	52.473	0.435	1.681	8.317	-5.015	-3.758
SNB-L3	SNB-LD22	28.49	52.794	-4.991	51.674	52.794	0.460	1.700	8.405	-4.991	-3.740
SNB-L3	SNB-LD3P	81.20	0.000	-136.379	-136.379	-134.755	-17.371	-16.019	-33.532	-5.305	-3.976
SNB-L3	SNB-LD31	33.26	61.634	-4.979	60.535	61.634	1.056	2.290	10.383	-4.979	-3.732
SNB-L3	SNB-LD32	33.44	61.971	-4.957	60.878	61.971	1.078	2.307	10.473	-4.957	-3.716
SNB-L4	SNB-LE1P	49.84	0.000	-160.650	-160.650	-158.692	-20.043	-18.398	-39.636	-6.462	-4.844
SNB-L4	SNB-LE11	20.85	72.272	-6.134	70.906	72.272	0.657	2.179	11.982	-6.134	-4.598
SNB-L4	SNB-LE12	20.96	72.652	-6.120	71.290	72.652	0.672	2.190	12.076	-6.120	-4.587
SNB-L4	SNB-LE2P	58.36	0.000	-188.038	-188.038	-185.845	-22.546	-20.710	-46.198	-7.211	-5.405
SNB-L4	SNB-LE21	24.52	85.003	-6.881	83.473	85.003	0.788	2.496	14.326	-6.881	-5.158
SNB-L4	SNB-LE22	24.63	85.400	-6.880	83.871	85.400	0.789	2.496	14.415	-6.880	-5.157
SNB-L4	SNB-LE3P	64.62	0.000	-208.298	-208.298	-206.079	-23.731	-21.898	-50.699	-7.192	-5.391
SNB-L4	SNB-LE31	27.44	95.135	-6.872	93.625	95.135	1.399	3.102	16.595	-6.872	-5.152
SNB-L4	SNB-LE32	27.54	95.480	-6.889	93.965	95.480	1.381	3.089	16.661	-6.889	-5.165
SNB-L4	SNB-LF1P	80.41	0.000	-236.539	-236.539	-233.828	-27.113	-24.824	-58.135	-9.001	-6.748
SNB-L4	SNB-LF11	30.86	106.996	-8.690	105.050	106.996	0.367	2.524	18.043	-8.690	-6.515
SNB-L4	SNB-LF12	30.97	107.361	-8.734	105.404	107.361	0.322	2.491	18.095	-8.734	-6.548
SNB-L4	SNB-LF2P	90.97	0.000	-267.602	-267.602	-264.698	-29.501	-27.056	-65.450	-9.614	-7.208
SNB-L4	SNB-LF21	35.11	121.718	-9.308	119.638	121.718	0.636	2.946	20.926	-9.308	-6.979
SNB-L4	SNB-LF22	35.22	122.084	-9.382	119.986	122.084	0.563	2.891	20.958	-9.382	-7.034
SNB-L5	SNB-LG1P	79.52	0.000	-300.956	-300.956	-297.581	-32.967	-30.083	-73.982	-11.361	-8.518
SNB-L5	SNB-LG11	32.83	136.169	-11.066	133.666	136.169	-0.263	2.486	22.997	-11.066	-8.297
SNB-L5	SNB-LG12	32.92	136.537	-11.160	134.011	136.537	-0.357	2.415	23.016	-11.160	-8.368
SNB-L5	SNB-LG2P	88.67	0.000	-335.569	-335.569	-331.990	-35.509	-32.449	-82.156	-12.063	-9.045
SNB-L5	SNB-LG21	36.77	152.509	-11.775	149.844	152.509	-0.051	2.873	26.191	-11.775	-8.829
SNB-L5	SNB-LG22	36.88	152.936	-11.880	150.245	152.936	-0.156	2.794	26.216	-11.880	-8.908
SNB-L5	SNB-LH1P	97.83	0.000	-370.233	-370.233	-366.130	-39.175	-35.608	-91.172	-14.084	-10.560
SNB-L5	SNB-LH11	40.34	167.299	-13.807	164.135	167.299	-1.260	2.172	28.164	-13.807	-10.353
SNB-L5	SNB-LH12	40.45	167.738	-13.916	164.547	167.738	-1.370	2.090	28.188	-13.916	-10.435
SNB-L5	SNB-LH2P	97.93	0.000	-403.818	-403.818	-399.522	-41.525	-37.774	-99.146	-14.816	-11.110
SNB-L5	SNB-LH21	44.15	183.104	-14.548	179.759	183.104	-1.193	2.424	31.224	-14.548	-10.909
SNB-L5	SNB-LH22	44.26	183.554	-14.658	180.182	183.554	-1.303	2.341	31.249	-14.658	-10.991
SNB-L6	SNB-LI1P	89.43	0.000	-440.372	-440.372	-435.536	-45.224	-40.930	-108.678	-16.994	-12.744
SNB-L6	SNB-LI11	38.08	190.637	-16.738	194.744	198.637	-2.623	1.541	33.255	-16.738	-12.552
SNB-L6	SNB-LI12	38.17	199.102	-16.845	195.183	199.102	-2.730	1.461	33.285	-16.845	-12.633
SNB-L6	SNB-LI2P	93.12	0.000	-478.792	-478.792	-473.749	-47.663	-43.153	-117.819	-17.856	-13.389
SNB-L6	SNB-LI21	41.54	216.687	-17.611	212.568	216.687	-2.708	1.677	36.735	-17.611	-13.206
SNB-L6	SNB-LI22	41.63	217.171	-17.715	213.027	217.171	-2.812	1.599	36.772	-17.715	-13.283
Connect	Connect AP	0.00	0.035	-0.479	-0.463	-0.479	-0.080	-0.099	-0.088	0.035	0.017
Connect	Connect A1	0.00	0.099	0.000	0.099	0.082	0.077	0.060	0.033	0.030	0.012
Connect	Connect A2	0.00	0.190	0.000	0.190	0.169	0.088	0.067	0.060	0.041	0.021
Connect	Connect AaP	0.00	0.520	0.000	0.520	0.510	0.050	0.040	0.124	0.020	0.010
Connect	Connect Aa1	0.00	0.012	-0.110	-0.103	-0.110	-0.003	-0.011	-0.019	0.012	0.004
Connect	Connect Aa2	0.00	0.003	-0.415	-0.410	-0.415	-0.017	-0.022	-0.092	0.003	-0.003
Connect	Connect AbP	0.00	0.167	0.000	0.167	0.150	0.078	0.061	0.063	0.049	0.031
Connect	Connect Ab1	0.00	0.023	-0.376	-0.366	-0.376	-0.002	-0.013	-0.070	0.023	0.013
Connect	Connect Ab2	0.00	0.035	-0.006	0.035	0.026	0.003	-0.006	0.014	0.016	0.007
Connect	Connect AcP	0.00	0.496	0.000	0.496	0.478	0.077	0.059	0.138	0.052	0.034
Connect	Connect Ac1	0.00	0.075	0.000	0.075	0.063	0.027	0.014	0.032	0.031	0.018
Connect	Connect Ac2	0.00	0.028	-0.243	-0.232	-0.243	0.015	0.002	-0.038	0.028	0.016
Connect	Connect BP	0.00	1.079	0.000	1.079	1.048	0.102	0.070	0.280	0.081	0.049
Connect	Connect B1	0.00	0.438	0.000	0.438	0.404	0.129	0.096	0.143	0.089	0.055
Connect	Connect B2	0.00	0.565	0.000	0.565	0.530	0.136	0.102	0.173	0.091	0.057

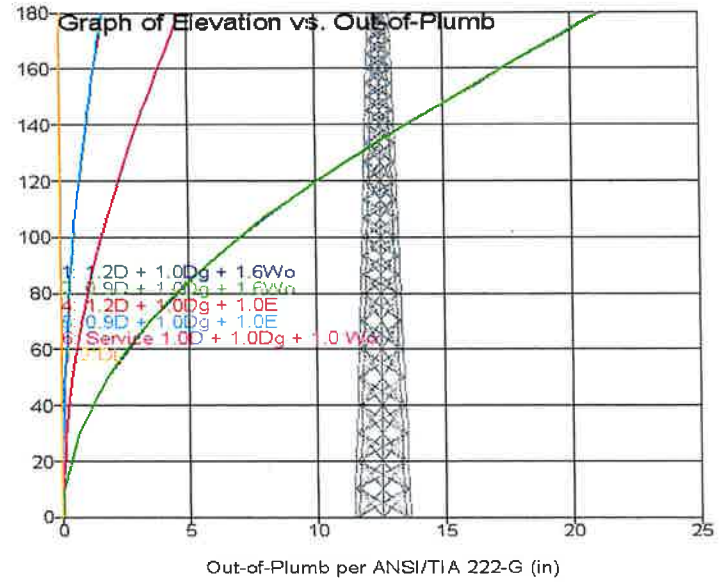
Connect Connect BaP	0.00	0.799	0.000	0.799	0.781	0.089	0.072	0.202	0.047	0.030
Connect Connect Ba1	0.00	0.059	-0.316	-0.297	-0.316	0.039	0.019	-0.033	0.059	0.039
Connect Connect Ba2	0.00	0.061	-0.364	-0.345	-0.364	0.038	0.018	-0.043	0.061	0.040
Connect Connect BbP	0.00	0.810	0.000	0.810	0.787	0.114	0.092	0.217	0.068	0.046
Connect Connect Bb1	0.00	0.085	-0.295	-0.269	-0.295	0.063	0.037	-0.011	0.085	0.059
Connect Connect Bb2	0.00	0.087	-0.286	-0.260	-0.286	0.066	0.039	-0.007	0.087	0.061
Connect Connect BcP	0.00	0.440	0.000	0.440	0.397	0.159	0.116	0.188	0.154	0.110
Connect Connect Bc1	0.00	0.165	-0.029	0.016	-0.029	0.162	0.116	0.102	0.165	0.119
Connect Connect Bc2	0.00	0.166	-0.033	0.013	-0.033	0.163	0.117	0.102	0.166	0.120
Connect Connect CP	0.00	0.636	0.000	0.636	0.568	0.275	0.206	0.293	0.253	0.185
Connect Connect C1	0.00	0.253	0.000	0.083	0.015	0.243	0.174	0.171	0.253	0.184
Connect Connect C2	0.00	0.254	0.000	0.114	0.046	0.245	0.176	0.178	0.254	0.185
Connect Connect CaP	0.01	1.555	0.000	1.555	1.514	0.192	0.153	0.426	0.137	0.099
Connect Connect Ca1	0.00	0.138	-0.663	-0.626	-0.663	0.109	0.070	-0.056	0.138	0.099
Connect Connect Ca2	0.00	0.135	-0.697	-0.661	-0.697	0.105	0.067	-0.065	0.135	0.097
Connect Connect CbP	0.00	0.614	0.000	0.614	0.534	0.257	0.176	0.317	0.304	0.224
Connect Connect Cb1	0.00	0.333	0.000	0.260	0.179	0.333	0.252	0.245	0.306	0.225
Connect Connect Cb2	0.00	0.329	0.000	0.225	0.145	0.329	0.249	0.235	0.304	0.223
Connect Connect DP	0.01	3.440	0.000	3.440	3.259	0.896	0.720	1.180	0.681	0.505
Connect Connect D1	0.00	0.672	-1.097	-0.928	-1.097	0.559	0.386	0.204	0.672	0.498
Connect Connect D2	0.00	0.673	-1.013	-0.843	-1.013	0.562	0.389	0.223	0.673	0.499
Connect Connect DaP	0.00	0.340	0.000	0.209	0.122	0.310	0.222	0.249	0.340	0.251
Connect Connect Da1	0.00	0.495	0.000	0.495	0.404	0.360	0.271	0.320	0.343	0.254
Connect Connect Da2	0.00	0.437	0.000	0.437	0.346	0.361	0.271	0.309	0.346	0.255
Connect Connect DbP	0.01	2.193	0.000	2.193	2.057	0.607	0.474	0.804	0.516	0.384
Connect Connect Db1	0.00	0.517	-0.478	-0.348	-0.478	0.471	0.339	0.238	0.517	0.384
Connect Connect Db2	0.00	0.521	-0.464	-0.333	-0.464	0.476	0.342	0.244	0.521	0.388
Connect Connect EP	0.02	5.296	0.000	5.296	5.081	1.187	0.977	1.682	0.820	0.611
Connect Connect E1	0.01	0.820	-1.681	-1.476	-1.681	0.637	0.428	0.182	0.820	0.611
Connect Connect E2	0.01	0.826	-1.688	-1.481	-1.688	0.642	0.432	0.184	0.826	0.615
Connect Connect EaP	0.00	0.495	-0.942	-0.818	-0.942	0.358	0.231	0.124	0.495	0.368
Connect Connect Ea1	0.00	1.137	0.000	1.137	1.007	0.570	0.441	0.559	0.501	0.373
Connect Connect Ea2	0.00	1.119	0.000	1.119	0.988	0.576	0.446	0.559	0.508	0.378
Connect Connect EbP	0.01	0.590	-1.735	-1.589	-1.735	0.399	0.249	0.011	0.590	0.440
Connect Connect Eb1	0.01	1.569	0.000	1.569	1.416	0.689	0.537	0.713	0.595	0.443
Connect Connect Eb2	0.01	1.743	0.000	1.743	1.588	0.697	0.544	0.755	0.601	0.448
Connect Connect FP	0.00	0.858	0.000	0.710	0.508	0.858	0.652	0.659	0.819	0.612
Connect Connect F1	0.00	0.815	0.000	0.793	0.585	0.795	0.589	0.689	0.815	0.610
Connect Connect F2	0.00	0.817	0.000	0.520	0.312	0.794	0.587	0.631	0.817	0.611
Connect Connect FaP	0.00	0.670	0.000	0.429	0.258	0.613	0.444	0.524	0.670	0.502
Connect Connect Fa1	0.00	0.698	0.000	0.603	0.435	0.698	0.530	0.542	0.672	0.503
Connect Connect Fa2	0.00	0.893	0.000	0.893	0.725	0.701	0.533	0.605	0.671	0.502
Connect Connect GP	0.02	4.349	0.000	4.349	4.174	0.973	0.795	1.405	0.712	0.534
Connect Connect G1	0.01	0.712	-1.362	-1.183	-1.362	0.582	0.403	0.197	0.712	0.533
Connect Connect G2	0.01	0.704	-1.636	-1.459	-1.636	0.572	0.395	0.132	0.704	0.528
Connect Connect GaP	0.00	0.583	-0.703	-0.553	-0.703	0.469	0.323	0.261	0.583	0.437
Connect Connect Ga1	0.00	1.024	0.000	1.024	0.879	0.642	0.495	0.581	0.586	0.439
Connect Connect Ga2	0.00	1.178	0.000	1.178	1.034	0.638	0.492	0.611	0.581	0.435
Connect Connect HP	0.01	2.239	0.000	2.239	2.078	0.810	0.642	0.910	0.674	0.506
Connect Connect H1	0.00	0.674	-0.450	-0.278	-0.450	0.605	0.437	0.382	0.674	0.506
Connect Connect H2	0.00	0.671	-0.496	-0.325	-0.496	0.602	0.434	0.370	0.671	0.503
Connect Connect HaP	0.01	0.654	-2.222	-2.055	-2.222	0.462	0.298	-0.030	0.654	0.490
Connect Connect Ha1	0.01	1.958	0.000	1.958	1.796	0.752	0.588	0.830	0.656	0.492
Connect Connect Ha2	0.01	1.965	0.000	1.965	1.804	0.749	0.586	0.830	0.653	0.490
Connect Connect IP	0.03	6.988	0.000	6.988	6.825	1.012	0.840	1.979	0.688	0.515
Connect Connect I1	0.01	0.689	-2.805	-2.628	-2.805	0.526	0.353	-0.137	0.689	0.516
Connect Connect I2	0.01	0.687	-2.814	-2.639	-2.814	0.524	0.351	-0.141	0.687	0.515
Connect Connect IaP	0.01	2.023	0.000	2.023	1.920	0.438	0.336	0.726	0.407	0.306
Connect Connect Ia1	0.00	0.410	-0.558	-0.457	-0.558	0.394	0.292	0.145	0.410	0.307
Connect Connect Ia2	0.00	0.408	-0.561	-0.460	-0.561	0.392	0.291	0.144	0.408	0.306
SNB-H1 SNB-H1aP	0.36	0.000	-0.467	-0.466	-0.467	-0.086	-0.088	-0.108	-0.009	-0.011
SNB-H1 SNB-H1bP	0.08	0.000	-0.108	-0.106	-0.108	-0.000	-0.003	-0.036	-0.009	-0.011
SNB-H1 SNB-H1cP	0.16	0.211	-0.009	0.211	0.207	0.048	0.045	0.039	-0.006	-0.009
SNB-H1 SNB-H1dP	0.16	0.212	-0.009	0.212	0.208	0.048	0.045	0.039	-0.006	-0.009
SNB-H1 SNB-H1eP	0.01	0.020	-0.008	0.020	0.017	0.006	0.003	-0.006	-0.005	-0.008
SNB-H1 SNB-H1fP	0.26	0.000	-0.343	-0.341	-0.343	-0.080	-0.083	-0.078	-0.005	-0.008
SNB-H1 SNB-H2aP	0.06	0.086	0.000	0.086	0.076	0.018	0.008	0.034	0.025	0.015
SNB-H1 SNB-H2bP	0.33	0.434	0.000	0.434	0.423	0.068	0.057	0.106	0.025	0.015
SNB-H1 SNB-H2cP	0.22	0.298	0.000	0.298	0.287	0.040	0.030	0.079	0.025	0.015

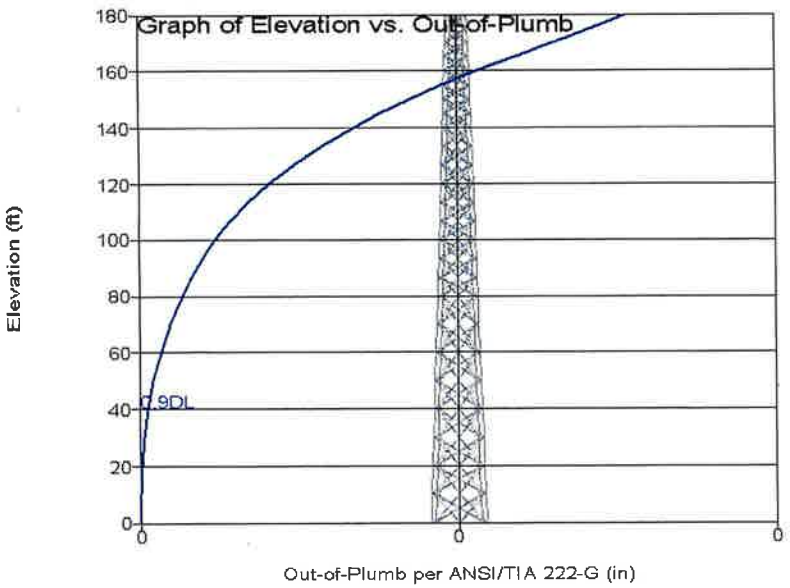
SNB-H1	SNB-H2dP	0.22	0.299	0.000	0.299	0.288	0.040	0.030	0.079	0.025	0.015
SNB-H1	SNB-H2eP	0.43	0.570	0.000	0.570	0.559	0.073	0.062	0.137	0.026	0.016
SNB-H1	SNB-H2fP	0.17	0.222	0.000	0.222	0.212	0.023	0.013	0.064	0.026	0.016
SNB-H1	SNB-H3aP	0.19	0.255	0.000	0.255	0.211	0.206	0.162	0.165	0.175	0.130
SNB-H1	SNB-H3bP	0.54	0.725	0.000	0.725	0.679	0.239	0.194	0.267	0.175	0.130
SNB-H1	SNB-H3cP	0.32	0.167	-0.393	-0.351	-0.393	0.075	0.032	0.026	0.167	0.124
SNB-H1	SNB-H3dP	0.32	0.167	-0.394	-0.351	-0.394	0.075	0.032	0.026	0.167	0.124
SNB-H1	SNB-H3eP	0.55	0.732	0.000	0.732	0.686	0.240	0.195	0.269	0.175	0.130
SNB-H1	SNB-H3fP	0.20	0.263	0.000	0.263	0.218	0.207	0.162	0.167	0.175	0.130
SNB-H1	SNB-H4aP	0.97	1.289	0.000	1.289	1.189	0.508	0.410	0.523	0.386	0.288
SNB-H1	SNB-H4bP	1.47	1.962	0.000	1.962	1.861	0.538	0.440	0.672	0.386	0.288
SNB-H1	SNB-H4cP	2.13	0.375	-2.550	-2.462	-2.550	0.091	-0.003	-0.316	0.375	0.280
SNB-H1	SNB-H4dP	2.13	0.375	-2.550	-2.461	-2.550	0.091	-0.003	-0.316	0.375	0.280
SNB-H1	SNB-H4eP	1.50	1.989	0.000	1.989	1.887	0.539	0.441	0.678	0.386	0.288
SNB-H1	SNB-H4fP	0.99	1.316	0.000	1.316	1.216	0.509	0.411	0.529	0.386	0.288
SNB-H2	SNB-H5aP	0.95	1.906	0.000	1.906	1.807	0.547	0.450	0.662	0.381	0.285
SNB-H2	SNB-H5bP	1.29	2.593	0.000	2.593	2.493	0.573	0.476	0.815	0.381	0.285
SNB-H2	SNB-H5cP	1.91	0.373	-3.539	-3.452	-3.539	0.016	-0.078	-0.529	0.373	0.279
SNB-H2	SNB-H5dP	1.91	0.373	-3.539	-3.452	-3.539	0.016	-0.078	-0.529	0.373	0.279
SNB-H2	SNB-H5eP	1.29	2.592	0.000	2.592	2.492	0.573	0.476	0.815	0.381	0.285
SNB-H2	SNB-H5fP	0.95	1.904	0.000	1.904	1.806	0.547	0.450	0.661	0.381	0.285
SNB-H2	SNB-H6aP	0.86	1.722	0.000	1.722	1.612	0.570	0.462	0.647	0.433	0.325
SNB-H2	SNB-H6bP	1.21	2.430	0.000	2.430	2.319	0.600	0.491	0.806	0.433	0.325
SNB-H2	SNB-H6cP	1.74	0.426	-3.128	-3.023	-3.128	0.122	0.015	-0.382	0.426	0.319
SNB-H2	SNB-H6dP	1.74	0.426	-3.128	-3.024	-3.128	0.122	0.015	-0.382	0.426	0.319
SNB-H2	SNB-H6eP	1.14	2.292	0.000	2.292	2.182	0.598	0.489	0.776	0.433	0.325
SNB-H2	SNB-H6fP	0.79	1.584	0.000	1.584	1.476	0.569	0.460	0.617	0.433	0.325
SNB-H2	SNB-H7aP	0.90	1.814	0.000	1.814	1.785	0.274	0.244	0.474	0.121	0.091
SNB-H2	SNB-H7bP	1.34	2.704	0.000	2.704	2.674	0.303	0.273	0.675	0.121	0.091
SNB-H2	SNB-H7cP	2.51	0.117	-4.390	-4.360	-4.390	-0.218	-0.247	-0.847	0.117	0.088
SNB-H2	SNB-H7dP	2.51	0.117	-4.391	-4.361	-4.391	-0.218	-0.247	-0.847	0.117	0.088
SNB-H2	SNB-H7eP	1.28	2.574	0.000	2.574	2.545	0.302	0.272	0.647	0.122	0.091
SNB-H2	SNB-H7fP	0.84	1.684	0.000	1.684	1.656	0.273	0.243	0.445	0.122	0.091
SNB-H2	SNB-H8aP	1.11	2.239	0.000	2.239	2.202	0.339	0.301	0.595	0.155	0.116
SNB-H2	SNB-H8bP	1.56	3.149	0.000	3.149	3.111	0.360	0.321	0.800	0.155	0.116
SNB-H2	SNB-H8cP	3.13	0.152	-5.290	-5.250	-5.290	-0.239	-0.278	-1.021	0.152	0.114
SNB-H2	SNB-H8dP	3.13	0.152	-5.290	-5.250	-5.290	-0.239	-0.278	-1.021	0.152	0.114
SNB-H2	SNB-H8eP	1.55	3.111	0.000	3.111	3.073	0.361	0.322	0.793	0.156	0.117
SNB-H2	SNB-H8fP	1.09	2.201	0.000	2.201	2.164	0.341	0.302	0.587	0.156	0.117
SNB-H2	SNB-H9aP	1.33	2.683	0.000	2.683	2.649	0.346	0.310	0.684	0.138	0.102
SNB-H2	SNB-H9bP	1.81	3.645	0.000	3.645	3.610	0.359	0.323	0.902	0.138	0.102
SNB-H2	SNB-H9cP	3.85	0.135	-6.280	-6.244	-6.280	-0.296	-0.331	-1.262	0.135	0.100
SNB-H2	SNB-H9dP	3.85	0.135	-6.280	-6.244	-6.280	-0.296	-0.331	-1.262	0.135	0.100
SNB-H2	SNB-H9eP	1.81	3.637	0.000	3.637	3.602	0.360	0.324	0.901	0.139	0.103
SNB-H2	SNB-H9fP	1.33	2.675	0.000	2.675	2.640	0.347	0.311	0.683	0.139	0.103
WLAC-1	SNB-WL-A1P	0.52	0.000	-0.130	-0.130	-0.130	-0.027	-0.027	-0.024	-0.000	-0.000
WLAC-1	SNB-WL-A2P	0.53	0.000	-0.132	-0.132	-0.132	-0.027	-0.027	-0.024	-0.000	-0.000
WLAC-1	SNB-WL-A3P	0.85	0.258	-0.000	0.258	0.258	0.054	0.054	0.046	-0.000	-0.000
WLAC-1	SNB-WL-B1P	0.56	0.000	-0.119	-0.119	-0.119	-0.016	-0.016	-0.023	0.000	0.000
WLAC-1	SNB-WL-B2P	0.56	0.000	-0.120	-0.120	-0.120	-0.016	-0.016	-0.023	0.000	0.000
WLAC-1	SNB-WL-B3P	0.81	0.245	0.000	0.245	0.245	0.032	0.032	0.048	0.000	0.000
WLAC-1	SNB-WL-C1P	0.91	0.001	-0.157	-0.157	-0.157	-0.010	-0.010	-0.033	0.001	0.001
WLAC-1	SNB-WL-C2P	0.91	0.001	-0.157	-0.157	-0.157	-0.010	-0.010	-0.033	0.001	0.001
WLAC-1	SNB-WL-C3P	1.04	0.318	0.000	0.318	0.317	0.022	0.022	0.068	0.001	0.001
WLAC-1	SNB-WL-D1P	1.64	0.002	-0.220	-0.220	-0.220	-0.008	-0.008	-0.047	0.002	0.001
WLAC-1	SNB-WL-D2P	1.64	0.002	-0.221	-0.220	-0.221	-0.008	-0.008	-0.047	0.002	0.001
WLAC-1	SNB-WL-D3P	1.46	0.443	0.000	0.443	0.442	0.021	0.020	0.098	0.001	0.001
WLAC-2	SNB-WL-E1P	0.97	0.002	-0.224	-0.224	-0.224	-0.006	-0.007	-0.048	0.002	0.001
WLAC-2	SNB-WL-E2P	0.97	0.002	-0.224	-0.224	-0.224	-0.006	-0.007	-0.048	0.002	0.001
WLAC-2	SNB-WL-E3P	0.96	0.452	0.000	0.452	0.451	0.018	0.018	0.101	0.002	0.001
WLAC-2	SNB-WL-F1P	1.25	0.002	-0.233	-0.233	-0.233	-0.008	-0.008	-0.051	0.002	0.001
WLAC-2	SNB-WL-F2P	1.25	0.002	-0.232	-0.232	-0.232	-0.008	-0.008	-0.051	0.002	0.001
WLAC-2	SNB-WL-F3P	0.99	0.466	0.000	0.466	0.465	0.020	0.020	0.105	0.002	0.001
WLAC-2	SNB-WL-G1P	2.00	0.000	-0.293	-0.293	-0.293	-0.009	-0.009	-0.066	0.000	0.000
WLAC-2	SNB-WL-G2P	2.00	0.000	-0.293	-0.293	-0.293	-0.009	-0.009	-0.066	0.000	0.000
WLAC-2	SNB-WL-G3P	1.24	0.585	0.000	0.585	0.584	0.019	0.019	0.133	0.000	0.000
WLAC-2	SNB-WL-H1P	2.51	0.000	-0.298	-0.298	-0.298	-0.006	-0.006	-0.067	0.000	0.000
WLAC-2	SNB-WL-H2P	2.51	0.000	-0.298	-0.298	-0.298	-0.006	-0.006	-0.067	0.000	0.000
WLAC-2	SNB-WL-H3P	1.26	0.595	0.000	0.595	0.594	0.013	0.013	0.135	0.000	0.000

WLAC-2	SNB-WL-I1P	3.19	0.000	-0.313	-0.313	-0.313	-0.004	-0.004	-0.071	0.000	0.000
WLAC-2	SNB-WL-I2P	3.19	0.000	-0.313	-0.313	-0.313	-0.004	-0.004	-0.071	0.000	0.000
WLAC-2	SNB-WL-I3P	1.32	0.625	0.000	0.625	0.625	0.008	0.008	0.142	0.000	0.000




Graph of Elevation vs. Twist
Elevation (ft)
180
160
140
120
100
80
60
40
20
0
0.9DL
-0.01
0.00
0.01
Twist per ANSI/TIA 222-G (deg)


Graph of Elevation vs. Out-of-Plumb
Elevation (ft)
180
160
140
120
100
80
60
40
20
0
1: 1.2D + 1.0Dg + 1.6Wo
4: 1.2D + 1.0Dg + 1.0E
5: 0.9D + 1.0Dg + 1.0E
6: Service 1.0D + 1.0Dg + 1.0 Wo
0
5
10
15
20
25
Out-of-Plumb per ANSI/TIA 222-G (in)



Twist and Out-of-Plumb for "1: 1.2D + 1.0Dg + 1.6Wo":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.05	0.06
20.00	-0.00	0.11	0.33
30.00	-0.00	0.16	0.63
40.00	-0.00	0.25	1.18
50.00	-0.00	0.30	1.78
60.00	-0.00	0.37	2.59
70.00	-0.00	0.42	3.45
80.00	-0.00	0.50	4.53
86.66	-0.00	0.55	5.29
93.34	-0.00	0.59	6.12
100.00	-0.00	0.63	7.02
106.66	-0.00	0.68	7.95
113.34	0.00	0.74	8.99
120.00	0.00	0.77	10.07
126.66	0.00	0.81	11.20
133.34	0.00	0.84	12.39
140.00	0.01	0.86	13.57
145.00	0.01	0.88	14.50
150.00	0.01	0.90	15.45
155.00	0.01	0.89	16.38
160.00	0.01	0.91	17.33
165.00	0.02	0.90	18.28
170.00	0.02	0.91	19.23
175.00	0.01	0.91	20.19
180.00	0.01	0.91	21.14

Twist and Out-of-Plumb for "2: 0.9D + 1.0Dg + 1.6Wo":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.05	0.06
20.00	-0.00	0.11	0.33
30.00	-0.00	0.16	0.63
40.00	-0.00	0.25	1.18
50.00	-0.00	0.30	1.78
60.00	-0.00	0.37	2.59
70.00	-0.00	0.42	3.44
80.00	-0.00	0.50	4.52
86.66	-0.00	0.55	5.29
93.34	-0.00	0.59	6.11
100.00	-0.00	0.63	7.01
106.66	-0.00	0.68	7.93
113.34	0.00	0.74	8.98
120.00	0.00	0.77	10.05
126.66	0.00	0.81	11.18
133.34	0.00	0.84	12.36
140.00	0.01	0.85	13.55
145.00	0.01	0.88	14.47
150.00	0.01	0.90	15.42
155.00	0.01	0.89	16.35
160.00	0.01	0.91	17.30
165.00	0.02	0.90	18.24
170.00	0.02	0.91	19.20
175.00	0.01	0.91	20.15
180.00	0.01	0.91	21.09

Twist and Out-of-Plumb for "4: 1.2D + 1.0Dg + 1.0E":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.00	0.00
20.00	-0.00	0.01	0.02
30.00	-0.00	0.01	0.04
40.00	-0.00	0.02	0.08
50.00	-0.00	0.02	0.12
60.00	-0.00	0.03	0.17
70.00	-0.00	0.03	0.23
80.00	-0.00	0.04	0.31
86.66	-0.00	0.04	0.37
93.34	-0.00	0.04	0.43
100.00	-0.00	0.05	0.49
106.66	-0.00	0.05	0.56
113.34	-0.00	0.06	0.64
120.00	-0.00	0.06	0.73
126.66	-0.00	0.07	0.82
133.34	-0.00	0.07	0.92
140.00	-0.00	0.07	1.01
145.00	-0.00	0.07	1.09
150.00	-0.00	0.08	1.17
155.00	-0.00	0.08	1.25
160.00	-0.00	0.08	1.34
165.00	-0.00	0.08	1.42
170.00	-0.00	0.08	1.51
175.00	-0.00	0.08	1.59
180.00	-0.00	0.08	1.67

Twist and Out-of-Plumb for "5: 0.9D + 1.0Dg + 1.0E":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.00	0.00
20.00	-0.00	0.01	0.02
30.00	-0.00	0.01	0.04
40.00	-0.00	0.02	0.08
50.00	-0.00	0.02	0.12
60.00	-0.00	0.03	0.17
70.00	-0.00	0.03	0.23
80.00	-0.00	0.04	0.31
86.66	-0.00	0.04	0.36
93.34	-0.00	0.04	0.43
100.00	-0.00	0.05	0.49
106.66	-0.00	0.05	0.56
113.34	-0.00	0.06	0.64
120.00	-0.00	0.06	0.73
126.66	-0.00	0.06	0.82
133.34	-0.00	0.07	0.91
140.00	-0.00	0.07	1.01
145.00	-0.00	0.07	1.09
150.00	-0.00	0.08	1.17
155.00	-0.00	0.08	1.25
160.00	-0.00	0.08	1.33
165.00	-0.00	0.08	1.41
170.00	-0.00	0.08	1.50
175.00	-0.00	0.08	1.58
180.00	-0.00	0.08	1.67

Twist and Out-of-Plumb for "6: Service 1.0D + 1.0Dg + 1.0 Wo":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.01	0.01
20.00	-0.00	0.03	0.07
30.00	-0.00	0.04	0.14
40.00	-0.00	0.06	0.26
50.00	-0.00	0.07	0.40
60.00	-0.00	0.08	0.58
70.00	-0.00	0.09	0.77
80.00	-0.00	0.11	1.01
86.66	-0.00	0.12	1.18
93.34	-0.00	0.13	1.37
100.00	-0.00	0.14	1.57
106.66	-0.00	0.15	1.77
113.34	0.00	0.16	2.01
120.00	0.00	0.17	2.25
126.66	0.00	0.18	2.50
133.34	0.00	0.19	2.76
140.00	0.00	0.19	3.03
145.00	0.00	0.20	3.24
150.00	0.00	0.20	3.45
155.00	0.00	0.20	3.66
160.00	0.00	0.20	3.87
165.00	0.00	0.20	4.08
170.00	0.00	0.20	4.29
175.00	0.00	0.20	4.51
180.00	0.00	0.20	4.72

Twist and Out-of-Plumb for "1.2*DL":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.00	0.00
20.00	-0.00	-0.00	0.00
30.00	-0.00	0.00	0.00
40.00	-0.00	-0.00	0.00
50.00	-0.00	0.00	0.00
60.00	-0.00	-0.00	0.00
70.00	0.00	0.00	0.00
80.00	0.00	-0.00	0.00
86.66	0.00	0.00	0.00
93.34	0.00	0.00	0.00
100.00	0.00	0.00	0.00
106.66	0.00	0.00	0.00
113.34	0.00	0.00	0.00
120.00	0.00	0.00	0.01
126.66	0.00	0.00	0.01
133.34	0.00	0.00	0.01
140.00	0.00	0.00	0.01
145.00	0.00	0.00	0.01
150.00	0.00	0.00	0.01
155.00	0.00	0.00	0.01
160.00	0.00	0.00	0.01
165.00	0.00	0.00	0.02
170.00	0.00	0.00	0.02
175.00	0.00	0.00	0.02
180.00	-0.00	0.00	0.02

Twist and Out-of-Plumb for "0.9DL":

Elevation (ft)	Twist (deg)	Sway (deg)	Out of Plumb (in)
0.00	0.00	0.00	0.00
10.00	-0.00	0.00	0.00
20.00	-0.00	-0.00	0.00
30.00	-0.00	0.00	0.00
40.00	-0.00	-0.00	0.00
50.00	-0.00	0.00	0.00
60.00	-0.00	-0.00	0.00
70.00	0.00	0.00	0.00
80.00	0.00	-0.00	0.00
86.66	0.00	0.00	0.00
93.34	0.00	0.00	0.00
100.00	0.00	0.00	0.00
106.66	0.00	0.00	0.00
113.34	0.00	0.00	0.00
120.00	0.00	0.00	0.00
126.66	0.00	0.00	0.00
133.34	0.00	0.00	0.01
140.00	0.00	0.00	0.01
145.00	0.00	0.00	0.01
150.00	0.00	0.00	0.01
155.00	0.00	0.00	0.01
160.00	0.00	0.00	0.01
165.00	0.00	0.00	0.01
170.00	0.00	0.00	0.01
175.00	0.00	0.00	0.01
180.00	-0.00	0.00	0.02

*** Analysis Results for Load Case No. 1 "1: 1.2D + 1.0Dg + 1.6Wo" - Number of iterations in SAPS 13

Equilibrium Joint Positions and Rotations for Load Case "1: 1.2D + 1.0Dg + 1.6Wo":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	1.76	-0.0008174	-0.08818	0.0062	0.9062	0.0112	6.093	-0.0008174	179.9
RohnBP	1.443	-1.386e-005	-0.0967	-0.0012	0.9042	0.0110	6.564	-1.386e-005	159.9
RohnCP	1.131	-0.0002756	-0.1012	-0.0007	0.8713	0.0073	7.04	-0.0002756	139.9
RohnDP	0.8392	-0.0003763	-0.1003	-0.0002	0.7904	0.0048	7.534	-0.0003763	119.9
RohnEP	0.5845	-0.000523	-0.08979	-0.0005	0.6511	0.0032	8.066	-0.000523	99.91
RohnFP	0.378	-0.0006876	-0.07781	-0.0004	0.5158	0.0021	8.646	-0.0006876	79.92
RohnGP	0.2163	-0.0006235	-0.06252	0.0006	0.3919	0.0015	9.271	-0.0006235	59.94
RohnHP	0.09923	-0.0004123	-0.04494	0.0010	0.2685	0.0009	9.94	-0.0004123	39.96
RohnIP	0.02797	-0.0002049	-0.02207	0.0006	0.1219	0.0003	10.66	-0.0002049	19.98
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	1.761	-0.001686	-0.05231	0.0020	0.9012	-0.0000	4.094	-0.001686	179.9
SNB-BP	1.444	-0.001284	-0.06158	0.0009	0.8974	-0.0000	4.565	-0.001284	159.9
SNB-CP	1.131	-0.0009115	-0.06863	0.0009	0.8642	0.0000	5.039	-0.0009115	139.9
SNB-DP	0.8394	-0.0006028	-0.07095	0.0008	0.7790	-0.0000	5.534	-0.0006028	119.9
SNB-EP	0.5847	-0.0003821	-0.06524	0.0006	0.6358	-0.0000	6.066	-0.0003821	99.93
SNB-FP	0.3781	-0.0002342	-0.06031	0.0004	0.5149	0.0000	6.646	-0.0002342	79.94
SNB-GP	0.2164	-0.0001288	-0.04975	0.0002	0.3726	0.0000	7.271	-0.0001288	59.95
SNB-HP	0.09925	-5.514e-005	-0.03684	0.0002	0.2588	0.0000	7.94	-5.514e-005	39.96
SNB-IP	0.02797	-1.448e-005	-0.01864	0.0001	0.1176	0.0000	8.656	-1.448e-005	19.98
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	1.762	-0.002143	0.01387	0.0009	0.9091	0.0044	-0.4044	-3.755	180
RohnA2	1.761	-0.002054	0.01402	0.0007	0.9081	0.0178	-0.4059	3.75	180
RohnB1	1.446	-0.001979	0.02214	0.0060	0.9108	0.0000	-1.115	-4.437	160
RohnB2	1.443	-0.00193	0.02235	-0.0015	0.9089	0.0222	-1.117	4.433	160
RohnC1	1.132	-0.0009304	0.02883	-0.0016	0.8655	-0.0089	-1.823	-5.118	140
RohnC2	1.131	-0.001544	0.02901	0.0061	0.8620	0.0234	-1.824	5.116	140
RohnD1	0.8393	-0.000197	0.03284	-0.0021	0.7863	-0.0132	-2.508	-5.798	120
RohnD2	0.8388	-0.001298	0.033	0.0053	0.7838	0.0228	-2.509	5.797	120
RohnE1	0.5848	-0.0001561	0.0321	-0.0002	0.6503	-0.0131	-3.156	-6.479	100
RohnE2	0.585	-0.0004637	0.03221	0.0027	0.6479	0.0195	-3.155	6.478	100
RohnF1	0.3771	0.0005297	0.02953	0.0107	0.5383	-0.0128	-3.757	-7.16	80.03
RohnF2	0.3782	-0.0004219	0.0296	-0.0093	0.5372	0.0170	-3.756	7.16	80.03
RohnG1	0.2157	0.0003675	0.02468	0.0032	0.3982	-0.0097	-4.312	-7.841	60.02
RohnG2	0.2168	-8.469e-006	0.02472	-0.0029	0.3984	0.0126	-4.311	7.842	60.02
RohnH1	0.09855	0.0004185	0.01822	0.0031	0.2748	-0.0072	-4.822	-8.522	40.02
RohnH2	0.09918	-0.0001655	0.01826	-0.0033	0.2756	0.0089	-4.821	8.522	40.02
RohnI1	0.02765	0.000187	0.009073	0.0057	0.1350	-0.0041	-5.287	-9.206	20.01
RohnI2	0.02798	-2.594e-005	0.009091	-0.0061	0.1357	0.0046	-5.287	9.206	20.01
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	1.761	-0.001692	0.0031	-0.0043	0.9130	-0.0018	0.5947	-2.022	180
SNB-A2	1.761	-0.001685	0.003181	0.0063	0.9124	0.0020	0.5947	2.019	180
SNB-B1	1.444	-0.001293	0.01166	-0.0008	0.9064	-0.0021	-0.1162	-2.704	160
SNB-B2	1.444	-0.00128	0.01176	0.0031	0.9066	0.0023	-0.1162	2.702	160
SNB-C1	1.132	-0.0009054	0.01915	-0.0013	0.8741	-0.0030	-0.8222	-3.385	140
SNB-C2	1.132	-0.0009254	0.01926	0.0033	0.8742	0.0030	-0.8222	3.384	140
SNB-D1	0.8398	-0.0005201	0.02404	-0.0038	0.7948	-0.0050	-1.508	-4.067	120
SNB-D2	0.8398	-0.0006885	0.02415	0.0053	0.7947	0.0051	-1.508	4.065	120
SNB-E1	0.585	-0.000291	0.02451	-0.0020	0.6459	-0.0041	-2.156	-4.747	100
SNB-E2	0.585	-0.0004731	0.02459	0.0030	0.6458	0.0040	-2.156	4.746	100
SNB-F1	0.3783	-0.0001459	0.02431	0.0026	0.5417	-0.0039	-2.756	-5.428	80.02
SNB-F2	0.3783	-0.0003284	0.02437	-0.0019	0.5417	0.0038	-2.756	5.428	80.02
SNB-G1	0.2163	1.655e-005	0.0209	0.0006	0.4029	-0.0047	-3.311	-6.11	60.02
SNB-G2	0.2164	-0.0002802	0.02095	-0.0001	0.4029	0.0046	-3.311	6.11	60.02
SNB-H1	0.09902	0.0001436	0.0159	-0.0046	0.2766	-0.0046	-3.821	-6.79	40.02
SNB-H2	0.09903	-0.0002544	0.01594	0.0049	0.2766	0.0045	-3.821	6.79	40.02
SNB-I1	0.02755	0.0002465	0.008161	0.0014	0.1410	-0.0042	-4.286	-7.472	20.01
SNB-I2	0.02755	-0.0002749	0.00818	-0.0012	0.1410	0.0042	-4.286	7.472	20.01
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	1.681	-0.0003848	-0.09059	0.0014	0.9106	0.0111	6.211	-0.0003848	174.9
RohnAbS	1.602	-0.0003518	-0.09285	0.0027	0.9090	0.0111	6.329	-0.0003518	169.9
RohnAcS	1.523	7.629e-005	-0.09489	0.0021	0.9065	0.0111	6.447	7.629e-005	164.9
RohnBaS	1.365	-2.473e-005	-0.09833	-0.0003	0.9028	0.0101	6.683	-2.473e-005	154.9
RohnBbS	1.286	-0.0001092	-0.09969	-0.0010	0.8963	0.0091	6.801	-0.0001092	149.9
RohnBcS	1.208	-0.0001835	-0.1006	-0.0010	0.8895	0.0082	6.92	-0.0001835	144.9
RohnCaS	1.031	-0.0003015	-0.1017	-0.0001	0.8464	0.0064	7.202	-0.0003015	133.2
RohnCbS	0.9335	-0.0003332	-0.1015	-0.0004	0.8263	0.0056	7.367	-0.0003332	126.6
RohnDaS	0.7494	-0.0003921	-0.09795	-0.0004	0.7482	0.0043	7.706	-0.0003921	113.2
RohnDbS	0.6645	-0.0004614	-0.09441	-0.0007	0.7099	0.0038	7.884	-0.0004614	106.6
RohnEaS	0.5118	-0.000593	-0.08649	-0.0010	0.6038	0.0028	8.255	-0.000593	93.25
RohnEbS	0.4427	-0.0007022	-0.08249	-0.0003	0.5795	0.0025	8.449	-0.0007022	86.58
RohnFaS	0.2934	-0.000778	-0.07088	0.0002	0.4651	0.0018	8.955	-0.000778	69.93
RohnGaS	0.1544	-0.0005827	-0.0543	0.0005	0.3350	0.0012	9.602	-0.0005827	49.95
RohnHaS	0.05973	-0.0002961	-0.0341	0.0005	0.2047	0.0006	10.3	-0.0002961	29.97
RohnIaS	0.01067	-9.419e-005	-0.01145	0.0007	0.0858	0.0002	11.04	-9.419e-005	9.989
SNB-AaS	1.682	-0.001542	-0.05477	0.0005	0.9121	-0.0000	4.212	-0.001542	174.9
SNB-AbS	1.602	-0.001542	-0.05717	0.0012	0.9082	-0.0000	4.329	-0.001542	169.9
SNB-AcS	1.523	-0.00134	-0.05945	0.0017	0.9086	-0.0000	4.447	-0.00134	164.9
SNB-BaS	1.365	-0.001183	-0.06366	0.0012	0.9050	0.0000	4.683	-0.001183	154.9
SNB-BbS	1.286	-0.001094	-0.06556	0.0010	0.8956	0.0000	4.801	-0.001094	149.9
SNB-BcS	1.208	-0.0009975	-0.06721	0.0011	0.8920	0.0000	4.92	-0.0009975	144.9
SNB-CaS	1.031	-0.000801	-0.07003	0.0009	0.8478	0.0000	5.201	-0.000801	133.3
SNB-CbS	0.9338	-0.0006961	-0.07079	0.0008	0.8293	0.0000	5.367	-0.0006961	126.6
SNB-DaS	0.7496	-0.000514	-0.07002	0.0007	0.7508	-0.0000	5.706	-0.000514	113.3
SNB-DbS	0.6647	-0.0004464	-0.06806	0.0005	0.7139	-0.0000	5.884	-0.0004464	106.6
SNB-EaS	0.512	-0.0003199	-0.06425	0.0004	0.6087	0.0000	6.255	-0.0003199	93.28
SNB-EbS	0.4428	-0.0002812	-0.06256	0.0004	0.5797	0.0000	6.449	-0.0002812	86.6
SNB-FaS	0.2934	-0.00018	-0.05565	0.0003	0.4709	0.0000	6.955	-0.00018	69.94
SNB-GaS	0.1544	-9.034e-005	-0.04388	0.0002	0.3429	0.0000	7.602	-9.034e-005	49.96
SNB-HaS	0.05974	-2.884e-005	-0.02833	0.0001	0.2089	0.0000	8.294	-2.884e-005	29.97
SNB-IaS	0.01067	-1.725e-006	-0.009856	0.0000	0.0874	0.0000	9.032	-1.725e-006	9.99
SNB-WL-A1S	1.761	-0.001696	-0.02479	-0.0011	0.9068	-0.0039	2.344	-1.012	180
SNB-WL-A2S	1.761	-0.001688	0.00298	0.0008	0.9127	0.0001	0.5947	-0.001688	180
SNB-WL-A3S	1.761	-0.001677	-0.02474	0.0042	0.9068	0.0039	2.344	1.009	180
SNB-WL-B1S	1.444	-0.001296	-0.02522	0.0031	0.8965	-0.0040	2.224	-1.353	160
SNB-WL-B2S	1.444	-0.001286	0.01151	0.0012	0.9065	0.0001	-0.1162	-0.001286	160
SNB-WL-B3S	1.444	-0.001271	-0.02517	-0.0012	0.8965	0.0041	2.224	1.35	160
SNB-WL-C1S	1.132	-0.000933	-0.02524	0.0068	0.8570	-0.0038	2.109	-1.693	140
SNB-WL-C2S	1.132	-0.0009154	0.01878	0.0010	0.8741	0.0000	-0.8221	-0.0009154	140
SNB-WL-C3S	1.132	-0.0008936	-0.02518	-0.0049	0.8570	0.0039	2.109	1.691	140
SNB-WL-D1S	0.8397	-0.0006361	-0.02456	0.0079	0.7706	-0.0039	2.013	-2.034	120
SNB-WL-D2S	0.84	-0.0006042	0.0231	0.0008	0.7948	0.0000	-1.507	-0.0006042	120
SNB-WL-D3S	0.8397	-0.00057	-0.02451	-0.0063	0.7706	0.0039	2.013	2.032	120
SNB-WL-E1S	0.5849	-0.0004074	-0.02115	0.0094	0.6234	-0.0029	1.955	-2.374	99.98
SNB-WL-E2S	0.5852	-0.000382	0.02387	0.0005	0.6459	0.0000	-2.155	-0.000382	100
SNB-WL-E3S	0.5849	-0.0003568	-0.0211	-0.0083	0.6234	0.0029	1.955	2.373	99.98
SNB-WL-F1S	0.3782	-0.0002675	-0.0197	0.0088	0.5156	-0.0020	1.945	-2.714	79.98
SNB-WL-F2S	0.3785	-0.0002371	0.02326	0.0004	0.5417	-0.0000	-2.756	-0.0002371	80.02
SNB-WL-F3S	0.3782	-0.0002078	-0.01967	-0.0081	0.5156	0.0020	1.945	2.714	79.98
SNB-WL-G1S	0.2164	-0.0001746	-0.01739	0.0035	0.3824	-0.0015	1.98	-3.055	59.98
SNB-WL-G2S	0.2166	-0.0001318	0.01866	0.0002	0.4029	-0.0000	-3.311	-0.0001318	60.02
SNB-WL-G3S	0.2164	-9.029e-005	-0.01736	-0.0030	0.3824	0.0015	1.98	3.055	59.98
SNB-WL-H1S	0.09922	-0.0001037	-0.01447	0.0056	0.2543	-0.0014	2.059	-3.395	39.99
SNB-WL-H2S	0.09937	-5.539e-005	0.01212	0.0002	0.2766	-0.0000	-3.821	-5.539e-005	40.01
SNB-WL-H3S	0.09922	-8.275e-006	-0.01445	-0.0052	0.2543	0.0014	2.059	3.395	39.99
SNB-WL-I1S	0.02788	-6.967e-005	-0.01079	0.0073	0.1178	-0.0016	2.185	-3.736	19.99
SNB-WL-I2S	0.02799	-1.417e-005	0.003249	0.0001	0.1410	-0.0000	-4.286	-1.417e-005	20
SNB-WL-I3S	0.02788	4.07e-005	-0.01078	-0.0072	0.1178	0.0016	2.185	3.736	19.99
RohnAa1	1.683	-0.002209	0.01605	-0.0016	0.9022	0.0037	-0.5821	-3.925	175
RohnAa2	1.681	-0.002018	0.01621	-0.0003	0.9119	0.0190	-0.5838	3.921	175
RohnAb1	1.604	-0.002341	0.01816	0.0030	0.9118	0.0021	-0.7593	-4.096	170
RohnAb2	1.601	-0.002131	0.01836	-0.0018	0.9143	0.0202	-0.762	4.092	170
RohnAc1	1.524	-0.001973	0.02021	0.0019	0.9084	0.0013	-0.9378	-4.266	165
RohnAc2	1.522	-0.002171	0.02041	0.0027	0.9037	0.0208	-0.94	4.262	165
RohnBa1	1.366	-0.001531	0.02404	-0.0007	0.8984	-0.0020	-1.293	-4.607	155
RohnBa2	1.364	-0.002005	0.02424	0.0065	0.8935	0.0222	-1.295	4.604	155
RohnBb1	1.288	-0.001995	0.02578	0.0025	0.8976	-0.0048	-1.469	-4.778	150
RohnBb2	1.287	-0.00118	0.02598	0.0026	0.8940	0.0231	-1.471	4.775	150

RohnBc1	1.209	-0.001129	0.02743	0.0102	0.9040	-0.0080	-1.647	-4.948 145
RohnBc2	1.208	-0.001692	0.02762	-0.0050	0.8999	0.0243	-1.648	4.945 145
RohnCa1	1.032	-0.00115	0.03053	0.0013	0.8496	-0.0108	-2.053	-5.345 133.4
RohnCa2	1.032	-0.0009345	0.0307	0.0025	0.8468	0.0237	-2.054	5.343 133.4
RohnCb1	0.934	-0.0006412	0.03192	0.0071	0.8346	-0.0128	-2.283	-5.572 126.7
RohnCb2	0.9334	-0.001121	0.03208	-0.0041	0.8333	0.0241	-2.283	5.57 126.7
RohnDa1	0.7496	-0.0004217	0.03318	0.0066	0.7619	-0.0141	-2.729	-6.025 113.4
RohnDa2	0.7494	-0.0007376	0.03333	-0.0035	0.7591	0.0226	-2.729	6.024 113.4
RohnDb1	0.6629	0.0006647	0.03298	0.0011	0.7074	-0.0136	-2.947	-6.251 106.7
RohnDb2	0.6629	-0.001545	0.03311	0.0015	0.7055	0.0211	-2.947	6.251 106.7
RohnEa1	0.5105	0.0006174	0.03164	0.0075	0.6182	-0.0133	-3.361	-6.705 93.37
RohnEa2	0.511	-0.0009935	0.03174	-0.0053	0.6164	0.0190	-3.361	6.705 93.37
RohnEb1	0.4413	0.0007236	0.03078	-0.0042	0.5686	-0.0123	-3.562	-6.933 86.69
RohnEb2	0.442	-0.000868	0.03087	0.0067	0.5656	0.0172	-3.561	6.932 86.69
RohnFa1	0.2881	0.00255	0.02754	-0.0032	0.4580	-0.0107	-4.043	-7.499 70.03
RohnFa2	0.289	-0.002343	0.0276	0.0040	0.4578	0.0142	-4.042	7.499 70.03
RohnGa1	0.1491	0.002565	0.02178	-0.0003	0.3341	-0.0083	-4.575	-8.18 50.02
RohnGa2	0.1499	-0.002272	0.02183	-0.0001	0.3356	0.0107	-4.574	8.18 50.02
RohnHa1	0.05375	0.002887	0.01398	-0.0018	0.2009	-0.0054	-5.064	-8.861 30.01
RohnHa2	0.05421	-0.002682	0.01401	0.0016	0.2018	0.0065	-5.064	8.862 30.01
RohnIa1	0.006279	0.002036	0.004752	-0.0009	0.0840	-0.0026	-5.506	-9.546 10
RohnIa2	0.006441	-0.001953	0.004762	0.0003	0.0852	0.0029	-5.506	9.546 10
SNB-Aa1	1.682	-0.001594	0.005301	0.0029	0.9074	-0.0020	0.4168	-2.193 175
SNB-Aa2	1.682	-0.001608	0.005385	-0.0003	0.9082	0.0022	0.4169	2.189 175
SNB-Ab1	1.603	-0.001468	0.007468	0.0015	0.9112	-0.0022	0.2391	-2.363 170
SNB-Ab2	1.603	-0.001479	0.007566	0.0009	0.9112	0.0024	0.239	2.36 170
SNB-Ac1	1.523	-0.001326	0.009601	0.0017	0.9068	-0.0021	0.06107	-2.534 165
SNB-Ac2	1.523	-0.00147	0.009699	0.0004	0.9060	0.0023	0.06112	2.531 165
SNB-Ba1	1.365	-0.001099	0.0137	0.0028	0.9040	-0.0027	-0.2937	-2.874 155
SNB-Ba2	1.365	-0.001289	0.01381	-0.0007	0.9039	0.0028	-0.2937	2.872 155
SNB-Bb1	1.287	-0.0009953	0.01564	0.0019	0.8986	-0.0029	-0.4706	-3.045 150
SNB-Bb2	1.287	-0.001199	0.01575	0.0003	0.8986	0.0031	-0.4706	3.042 150
SNB-Bc1	1.209	-0.0008271	0.01747	0.0012	0.8875	-0.0030	-0.6471	-3.215 145
SNB-Bc2	1.209	-0.001182	0.01758	0.0009	0.8875	0.0031	-0.6471	3.213 145
SNB-Ca1	1.031	-0.0002847	0.02114	0.0066	0.8576	-0.0043	-1.054	-3.612 133.4
SNB-Ca2	1.031	-0.001332	0.02125	-0.0048	0.8575	0.0044	-1.054	3.61 133.4
SNB-Cb1	0.933	-0.000119	0.02279	-0.0013	0.8177	-0.0043	-1.283	-3.839 126.7
SNB-Cb2	0.933	-0.001289	0.0229	0.0031	0.8178	0.0043	-1.283	3.838 126.7
SNB-Da1	0.7486	0.0001678	0.02478	0.0112	0.7670	-0.0059	-1.73	-4.292 113.4
SNB-Da2	0.7486	-0.001216	0.02488	-0.0099	0.7669	0.0060	-1.73	4.291 113.4
SNB-Db1	0.6627	0.0007688	0.02493	-0.0041	0.6998	-0.0045	-1.947	-4.519 106.7
SNB-Db2	0.6627	-0.001663	0.02502	0.0053	0.6998	0.0045	-1.947	4.518 106.7
SNB-Ea1	0.511	0.0002826	0.02483	0.0069	0.6191	-0.0045	-2.36	-4.973 93.36
SNB-Ea2	0.5111	-0.0009336	0.02491	-0.0059	0.6192	0.0045	-2.36	4.973 93.36
SNB-Eb1	0.4418	0.0004217	0.02475	-0.0042	0.5644	-0.0034	-2.561	-5.201 86.68
SNB-Eb2	0.4418	-0.0009682	0.02482	0.0049	0.5644	0.0033	-2.561	5.2 86.68
SNB-Fa1	0.288	0.002618	0.02301	0.0010	0.4589	-0.0039	-3.043	-5.766 70.02
SNB-Fa2	0.288	-0.002956	0.02307	-0.0004	0.4589	0.0038	-3.043	5.766 70.02
SNB-Ga1	0.1494	0.002383	0.01875	0.0026	0.3333	-0.0046	-3.575	-6.448 50.02
SNB-Ga2	0.1494	-0.002554	0.0188	-0.0021	0.3334	0.0045	-3.575	6.448 50.02
SNB-Ha1	0.05429	0.00257	0.01237	0.0025	0.2017	-0.0043	-4.063	-7.129 30.01
SNB-Ha2	0.0543	-0.002632	0.0124	-0.0022	0.2017	0.0043	-4.063	7.129 30.01
SNB-Ia1	0.005833	0.002293	0.004365	-0.0002	0.0822	-0.0025	-4.505	-7.811 10
SNB-Ia2	0.005837	-0.002302	0.004375	0.0003	0.0822	0.0025	-4.505	7.811 10

Joint Support Reactions for Load Case "1: 1.2D + 1.0Dg + 1.6Wo":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-28.86	0.0	0.10	0.0	347.98	0.0	0.0	349.17	0.0	-0.05	0.0	-5.4	0.0	-0.01	0.0	0.0
SNB-JP	-49.71	0.0	0.00	0.0	500.22	0.0	0.0	502.69	0.0	0.00	0.0	-13.1	0.0	0.00	0.0	0.0
RohnJ1	-9.19	0.0	-9.74	0.0	-144.29	0.0	0.0	144.91	0.0	1.86	0.0	-1.4	0.0	0.00	0.0	0.0
RohnJ2	-9.38	0.0	9.66	0.0	-144.59	0.0	0.0	145.22	0.0	-1.81	0.0	-1.5	0.0	-0.01	0.0	0.0
SNB-J1	-16.94	0.0	-18.22	0.0	-222.16	0.0	0.0	223.55	0.0	5.30	0.0	-2.6	0.0	-0.04	0.0	0.0
SNB-J2	-16.96	0.0	18.25	0.0	-222.63	0.0	0.0	224.02	0.0	-5.31	0.0	-2.6	0.0	0.04	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "1: 1.2D + 1.0Dg + 1.6Wo":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.6446	0.0000	-0.3543	-0.6446	-0.0000	0.3543	1.7604	-0.0008	-0.0882
RohnBP	3.0289	0.0000	-1.2721	-3.0288	-0.0000	1.2721	1.4434	-0.0000	-0.0967
RohnCP	0.6543	0.0000	-0.5121	-0.6543	0.0000	0.5121	1.1309	-0.0003	-0.1012
RohnDP	0.7898	0.0000	-0.6208	-0.7898	0.0000	0.6208	0.8392	-0.0004	-0.1003
RohnEP	0.8106	0.0000	-0.7694	-0.8106	0.0000	0.7694	0.5845	-0.0005	-0.0898
RohnFP	0.9277	0.0000	-1.0436	-0.9277	-0.0000	1.0436	0.3780	-0.0007	-0.0778
RohnGP	1.2867	0.0000	-1.3901	-1.2867	-0.0000	1.3901	0.2163	-0.0006	-0.0625
RohnHP	1.1001	0.0000	-1.3837	-1.1001	-0.0000	1.3837	0.0992	-0.0004	-0.0449
RohnIP	1.4048	0.0000	-1.5524	-1.4048	-0.0000	1.5524	0.0280	-0.0002	-0.0221
RohnJP	0.8374	0.0000	-0.8390	28.0213	-0.0984	-347.1394	0.0000	0.0000	0.0000
SNB-AP	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.7608	-0.0017	-0.0523
SNB-BP	0.4529	0.0000	-0.4033	-0.4529	0.0000	0.4033	1.4437	-0.0013	-0.0616
SNB-CP	0.6543	0.0000	-0.5121	-0.6543	0.0000	0.5121	1.1312	-0.0009	-0.0686
SNB-DP	0.7898	0.0000	-0.6208	-0.7898	0.0000	0.6208	0.8394	-0.0006	-0.0710
SNB-EP	0.8106	0.0000	-0.7694	-0.8106	0.0000	0.7694	0.5847	-0.0004	-0.0652
SNB-FP	0.9277	0.0000	-1.0436	-0.9277	0.0000	1.0436	0.3781	-0.0002	-0.0603
SNB-GP	1.0500	0.0000	-1.2701	-1.0500	0.0000	1.2701	0.2164	-0.0001	-0.0498
SNB-HP	1.1001	0.0000	-1.3837	-1.1001	0.0000	1.3837	0.0993	-0.0001	-0.0368
SNB-IP	1.4048	0.0000	-1.5524	-1.4048	0.0000	1.5524	0.0280	-0.0000	-0.0186
SNB-JP	0.8374	0.0000	-0.8390	48.8689	-0.0017	-499.3854	0.0000	0.0000	0.0000
RohnA1	0.6446	0.0000	-0.3543	-0.6446	-0.0000	0.3543	1.7621	-0.0021	0.0139
RohnA2	1.1009	0.0000	-0.5223	-1.1009	-0.0000	0.5223	1.7606	-0.0021	0.0140
RohnB1	1.0538	0.0000	-0.5401	-1.0538	-0.0000	0.5401	1.4455	-0.0020	0.0221
RohnB2	0.7194	0.0000	-0.4621	-0.7194	-0.0000	0.4621	1.4432	-0.0019	0.0224
RohnC1	0.6543	0.0000	-0.5121	-0.6543	0.0000	0.5121	1.1319	-0.0009	0.0288
RohnC2	0.6543	0.0000	-0.5121	-0.6543	-0.0000	0.5121	1.1308	-0.0015	0.0290
RohnD1	1.0017	0.0000	-0.7048	-1.0017	0.0000	0.7048	0.8393	-0.0002	0.0328
RohnD2	0.7898	0.0000	-0.6208	-0.7898	-0.0000	0.6208	0.8388	-0.0013	0.0330
RohnE1	0.8106	0.0000	-0.7694	-0.8106	0.0000	0.7694	0.5848	-0.0002	0.0321
RohnE2	0.8106	0.0000	-0.7694	-0.8106	-0.0000	0.7694	0.5850	-0.0005	0.0322
RohnF1	0.9277	0.0000	-1.0436	-0.9277	-0.0000	1.0436	0.3771	0.0005	0.0295
RohnF2	1.3907	0.0000	-1.2176	-1.3907	-0.0000	1.2176	0.3782	-0.0004	0.0296
RohnG1	1.1820	0.0000	-1.3421	-1.1820	-0.0000	1.3421	0.2157	0.0004	0.0247
RohnG2	1.6035	0.0000	-1.4573	-1.6035	-0.0000	1.4573	0.2168	-0.0000	0.0247
RohnH1	1.1001	0.0000	-1.3837	-1.1001	-0.0000	1.3837	0.0985	0.0004	0.0182
RohnH2	1.1001	0.0000	-1.3837	-1.1001	-0.0000	1.3837	0.0992	-0.0002	0.0183
RohnI1	1.4048	0.0000	-1.5524	-1.4048	-0.0000	1.5524	0.0277	0.0002	0.0091
RohnI2	1.4048	0.0000	-1.5524	-1.4048	0.0000	1.5524	0.0280	-0.0000	0.0091
RohnJ1	0.8374	0.0000	-0.8390	8.3545	9.7391	145.1284	0.0000	0.0000	0.0000
RohnJ2	0.8374	0.0000	-0.8390	8.5404	-9.6575	145.4297	0.0000	0.0000	0.0000
SNB-A1	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.7612	-0.0017	0.0031
SNB-A2	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.7612	-0.0017	0.0032
SNB-B1	0.4529	0.0000	-0.4033	-0.4529	-0.0000	0.4033	1.4443	-0.0013	0.0117
SNB-B2	0.4529	0.0000	-0.4033	-0.4529	0.0000	0.4033	1.4443	-0.0013	0.0118
SNB-C1	0.6543	0.0000	-0.5121	-0.6543	-0.0000	0.5121	1.1318	-0.0009	0.0191
SNB-C2	0.6543	0.0000	-0.5121	-0.6543	0.0000	0.5121	1.1318	-0.0009	0.0193
SNB-D1	0.7898	0.0000	-0.6208	-0.7898	-0.0000	0.6208	0.8398	-0.0005	0.0240
SNB-D2	0.7898	0.0000	-0.6208	-0.7898	0.0000	0.6208	0.8398	-0.0007	0.0242
SNB-E1	0.8106	0.0000	-0.7694	-0.8106	-0.0000	0.7694	0.5850	-0.0003	0.0245
SNB-E2	0.8106	0.0000	-0.7694	-0.8106	0.0000	0.7694	0.5850	-0.0005	0.0246
SNB-F1	0.9277	0.0000	-1.0436	-0.9277	-0.0000	1.0436	0.3783	-0.0001	0.0243
SNB-F2	0.9277	0.0000	-1.0436	-0.9277	0.0000	1.0436	0.3783	-0.0003	0.0244
SNB-G1	1.0500	0.0000	-1.2701	-1.0500	-0.0000	1.2701	0.2163	0.0000	0.0209
SNB-G2	1.0500	0.0000	-1.2701	-1.0500	0.0000	1.2701	0.2164	-0.0003	0.0210
SNB-H1	1.1001	0.0000	-1.3837	-1.1001	-0.0000	1.3837	0.0990	0.0001	0.0159
SNB-H2	1.1001	0.0000	-1.3837	-1.1001	0.0000	1.3837	0.0990	-0.0003	0.0159
SNB-I1	1.4048	0.0000	-1.5524	-1.4048	-0.0000	1.5524	0.0275	0.0002	0.0082
SNB-I2	1.4048	0.0000	-1.5524	-1.4048	0.0000	1.5524	0.0276	-0.0003	0.0082
SNB-J1	0.8374	0.0000	-0.8390	16.1032	18.2168	223.0017	0.0000	0.0000	0.0000
SNB-J2	0.8374	0.0000	-0.8390	16.1215	-18.2483	223.4730	0.0000	0.0000	0.0000
RohnAaS	0.6035	0.0000	-0.2490	-0.6035	0.0000	0.2490	1.6812	-0.0004	-0.0906
RohnAbS	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.6017	-0.0004	-0.0928
RohnAcS	0.5616	0.0000	-0.2502	-0.5616	0.0000	0.2502	1.5225	0.0001	-0.0949

RohnBaS	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.3646	-0.0000	-0.0983
RohnBbS	2.2005	0.0000	-1.1580	-2.2005	0.0000	1.1580	1.2859	-0.0001	-0.0997
RohnBcS	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.2081	-0.0002	-0.1006
RohnCaS	2.0420	0.0000	-0.9577	-2.0420	0.0000	0.9577	1.0311	-0.0003	-0.1017
RohnCbS	2.8434	0.0000	-1.7228	-2.8434	0.0000	1.7228	0.9335	-0.0003	-0.1015
RohnDaS	2.8903	0.0000	-1.5191	-2.8903	0.0000	1.5191	0.7494	-0.0004	-0.0979
RohnDbS	0.4002	0.0000	-0.3257	-0.4002	0.0000	0.3257	0.6645	-0.0005	-0.0944
RohnEaS	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.5118	-0.0006	-0.0865
RohnEbS	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.4427	-0.0007	-0.0825
RohnFaS	0.5173	0.0000	-0.5999	-0.5173	-0.0000	0.5999	0.2934	-0.0008	-0.0709
RohnGaS	0.5327	0.0000	-0.6702	-0.5327	-0.0000	0.6702	0.1544	-0.0006	-0.0543
RohnHaS	0.5674	0.0000	-0.7135	-0.5674	-0.0000	0.7135	0.0597	-0.0003	-0.0341
RohnIaS	0.8374	0.0000	-0.8390	-0.8374	-0.0000	0.8390	0.0107	-0.0001	-0.0115
SNB-AaS	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.6815	-0.0015	-0.0548
SNB-AbS	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.6020	-0.0015	-0.0572
SNB-AcS	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.5229	-0.0013	-0.0595
SNB-BaS	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.3649	-0.0012	-0.0637
SNB-BbS	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.2862	-0.0011	-0.0656
SNB-BcS	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.2083	-0.0010	-0.0672
SNB-CaS	0.3897	0.0000	-0.2951	-0.3896	-0.0000	0.2951	1.0314	-0.0008	-0.0700
SNB-CbS	0.3897	0.0000	-0.2951	-0.3896	-0.0000	0.2951	0.9338	-0.0007	-0.0708
SNB-DaS	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.7496	-0.0005	-0.0700
SNB-DbS	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.6647	-0.0004	-0.0681
SNB-EaS	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.5120	-0.0003	-0.0642
SNB-EbS	0.4104	0.0000	-0.4437	-0.4104	0.0000	0.4437	0.4428	-0.0003	-0.0626
SNB-FaS	0.5173	0.0000	-0.5999	-0.5173	-0.0000	0.5999	0.2934	-0.0002	-0.0557
SNB-GaS	0.5327	0.0000	-0.6702	-0.5327	-0.0000	0.6702	0.1544	-0.0001	-0.0439
SNB-HaS	0.5674	0.0000	-0.7135	-0.5674	-0.0000	0.7135	0.0597	-0.0000	-0.0283
SNB-IaS	0.8374	0.0000	-0.8390	-0.8374	-0.0000	0.8390	0.0107	-0.0000	-0.0099
SNB-WL-A1S	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.7610	-0.0017	-0.0248
SNB-WL-A2S	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.7612	-0.0017	0.0030
SNB-WL-A3S	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.7610	-0.0017	-0.0247
SNB-WL-B1S	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.4440	-0.0013	-0.0252
SNB-WL-B2S	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.4443	-0.0013	0.0115
SNB-WL-B3S	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.4440	-0.0013	-0.0252
SNB-WL-C1S	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.1315	-0.0009	-0.0252
SNB-WL-C2S	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.1319	-0.0009	0.0188
SNB-WL-C3S	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.1315	-0.0009	-0.0252
SNB-WL-D1S	0.3897	0.0000	-0.2951	-0.3896	0.0000	0.2951	0.8397	-0.0006	-0.0246
SNB-WL-D2S	0.3897	0.0000	-0.2951	-0.3896	-0.0000	0.2951	0.8400	-0.0006	0.0231
SNB-WL-D3S	0.3897	0.0000	-0.2951	-0.3896	-0.0000	0.2951	0.8397	-0.0006	-0.0245
SNB-WL-E1S	0.4002	0.0000	-0.3257	-0.4002	0.0000	0.3257	0.5849	-0.0004	-0.0211
SNB-WL-E2S	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.5852	-0.0004	0.0239
SNB-WL-E3S	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.5849	-0.0004	-0.0211
SNB-WL-F1S	0.4104	0.0000	-0.4437	-0.4104	0.0000	0.4437	0.3782	-0.0003	-0.0197
SNB-WL-F2S	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.3785	-0.0002	0.0233
SNB-WL-F3S	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.3782	-0.0002	-0.0197
SNB-WL-G1S	0.5173	0.0000	-0.5999	-0.5173	0.0000	0.5999	0.2164	-0.0002	-0.0174
SNB-WL-G2S	0.5173	0.0000	-0.5999	-0.5173	-0.0000	0.5999	0.2166	-0.0001	0.0187
SNB-WL-G3S	0.5173	0.0000	-0.5999	-0.5173	-0.0000	0.5999	0.2164	-0.0001	-0.0174
SNB-WL-H1S	0.5327	0.0000	-0.6702	-0.5327	0.0000	0.6702	0.0992	-0.0001	-0.0145
SNB-WL-H2S	0.5327	0.0000	-0.6702	-0.5327	-0.0000	0.6702	0.0994	-0.0001	0.0121
SNB-WL-H3S	0.5327	0.0000	-0.6702	-0.5327	-0.0000	0.6702	0.0992	-0.0000	-0.0144
SNB-WL-I1S	0.5674	0.0000	-0.7135	-0.5674	0.0000	0.7135	0.0279	-0.0001	-0.0108
SNB-WL-I2S	0.5674	0.0000	-0.7135	-0.5674	-0.0000	0.7135	0.0280	-0.0000	0.0032
SNB-WL-I3S	0.5674	0.0000	-0.7135	-0.5674	-0.0000	0.7135	0.0279	0.0000	-0.0108
RohnAa1	0.4989	0.0000	-0.2745	-0.4989	0.0000	0.2745	1.6829	-0.0022	0.0161
RohnAa2	0.7887	0.0000	-0.3021	-0.7887	-0.0000	0.3021	1.6812	-0.0020	0.0162
RohnAb1	1.1155	-0.0500	-0.3303	-1.1155	0.0500	0.3303	1.6042	-0.0023	0.0182
RohnAb2	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.6015	-0.0021	0.0184
RohnAc1	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.5242	-0.0020	0.0202
RohnAc2	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.5220	-0.0022	0.0204
RohnBa1	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.3660	-0.0015	0.0240
RohnBa2	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.3640	-0.0020	0.0242
RohnBb1	2.1265	0.0000	-1.1256	-2.1265	0.0000	1.1256	1.2884	-0.0020	0.0258
RohnBb2	2.1265	0.0000	-1.1256	-2.1265	-0.0000	1.1256	1.2867	-0.0012	0.0260
RohnBc1	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.2091	-0.0011	0.0274
RohnBc2	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.2077	-0.0017	0.0276
RohnCa1	2.2052	0.0000	-1.0297	-2.2052	0.0000	1.0297	1.0325	-0.0011	0.0305

RohnCa2	2.3119	0.0000	-1.0777	-2.3119	-0.0000	1.0777	1.0317	-0.0009	0.0307
RohnCb1	2.4592	0.0000	-1.6028	-2.4592	0.0000	1.6028	0.9340	-0.0006	0.0319
RohnCb2	2.4592	0.0000	-1.6028	-2.4592	-0.0000	1.6028	0.9334	-0.0011	0.0321
RohnDa1	2.6273	0.0000	-1.3931	-2.6273	0.0000	1.3931	0.7496	-0.0004	0.0332
RohnDa2	2.6273	0.0000	-1.3931	-2.6273	-0.0000	1.3931	0.7494	-0.0007	0.0333
RohnDb1	0.4002	0.0000	-0.3257	-0.4002	0.0000	0.3257	0.6629	0.0007	0.0330
RohnDb2	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.6629	-0.0015	0.0331
RohnEa1	0.4104	0.0000	-0.4437	-0.4104	0.0000	0.4437	0.5105	0.0006	0.0316
RohnEa2	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.5110	-0.0010	0.0317
RohnEb1	0.4104	0.0000	-0.4437	-0.4104	0.0000	0.4437	0.4413	0.0007	0.0308
RohnEb2	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.4420	-0.0009	0.0309
RohnFa1	0.5173	0.0000	-0.5999	-0.5173	0.0000	0.5999	0.2881	0.0026	0.0275
RohnFa2	0.5173	0.0000	-0.5999	-0.5173	-0.0000	0.5999	0.2890	-0.0023	0.0276
RohnGa1	0.5327	0.0000	-0.6702	-0.5327	0.0000	0.6702	0.1491	0.0026	0.0218
RohnGa2	0.5327	0.0000	-0.6702	-0.5327	-0.0000	0.6702	0.1499	-0.0023	0.0218
RohnHa1	0.5674	0.0000	-0.7135	-0.5674	-0.0000	0.7135	0.0537	0.0029	0.0140
RohnHa2	0.5674	0.0000	-0.7135	-0.5674	-0.0000	0.7135	0.0542	-0.0027	0.0140
RohnIa1	0.8374	0.0000	-0.8390	-0.8374	-0.0000	0.8390	0.0063	0.0020	0.0048
RohnIa2	0.8374	0.0000	-0.8390	-0.8374	-0.0000	0.8390	0.0064	-0.0020	0.0048
SNB-Aa1	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.6818	-0.0016	0.0053
SNB-Aa2	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.6819	-0.0016	0.0054
SNB-Ab1	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.6026	-0.0015	0.0075
SNB-Ab2	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.6025	-0.0015	0.0076
SNB-Ac1	0.1882	0.0000	-0.1863	-0.1882	-0.0000	0.1863	1.5231	-0.0013	0.0096
SNB-Ac2	0.1882	0.0000	-0.1863	-0.1882	0.0000	0.1863	1.5231	-0.0015	0.0097
SNB-Ba1	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.3652	-0.0011	0.0137
SNB-Ba2	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.3652	-0.0013	0.0138
SNB-Bb1	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.2866	-0.0010	0.0156
SNB-Bb2	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.2866	-0.0012	0.0158
SNB-Bc1	0.2646	0.0000	-0.2170	-0.2646	-0.0000	0.2170	1.2085	-0.0008	0.0175
SNB-Bc2	0.2646	0.0000	-0.2170	-0.2646	0.0000	0.2170	1.2085	-0.0012	0.0176
SNB-Ca1	0.3897	0.0000	-0.2951	-0.3896	-0.0000	0.2951	1.0309	-0.0003	0.0211
SNB-Ca2	0.3897	0.0000	-0.2951	-0.3896	0.0000	0.2951	1.0310	-0.0013	0.0213
SNB-Cb1	0.3897	0.0000	-0.2951	-0.3896	-0.0000	0.2951	0.9330	-0.0001	0.0228
SNB-Cb2	0.3897	0.0000	-0.2951	-0.3896	0.0000	0.2951	0.9330	-0.0013	0.0229
SNB-Da1	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.7486	0.0002	0.0248
SNB-Da2	0.4002	0.0000	-0.3257	-0.4002	0.0000	0.3257	0.7486	-0.0012	0.0249
SNB-Db1	0.4002	0.0000	-0.3257	-0.4002	-0.0000	0.3257	0.6627	0.0008	0.0249
SNB-Db2	0.4002	0.0000	-0.3257	-0.4002	0.0000	0.3257	0.6627	-0.0017	0.0250
SNB-Ea1	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.5110	0.0003	0.0248
SNB-Ea2	0.4104	0.0000	-0.4437	-0.4104	0.0000	0.4437	0.5111	-0.0009	0.0249
SNB-Eb1	0.4104	0.0000	-0.4437	-0.4104	0.0000	0.4437	0.4418	0.0004	0.0247
SNB-Eb2	0.4104	0.0000	-0.4437	-0.4104	-0.0000	0.4437	0.4418	-0.0010	0.0248
SNB-Fa1	0.5173	0.0000	-0.5999	-0.5173	-0.0000	0.5999	0.2880	0.0026	0.0230
SNB-Fa2	0.5173	0.0000	-0.5999	-0.5173	0.0000	0.5999	0.2880	-0.0030	0.0231
SNB-Ga1	0.5327	0.0000	-0.6702	-0.5327	-0.0000	0.6702	0.1494	0.0024	0.0188
SNB-Ga2	0.5327	0.0000	-0.6702	-0.5327	0.0000	0.6702	0.1494	-0.0026	0.0188
SNB-Ha1	0.5674	0.0000	-0.7135	-0.5674	0.0000	0.7135	0.0543	0.0026	0.0124
SNB-Ha2	0.5674	0.0000	-0.7135	-0.5674	0.0000	0.7135	0.0543	-0.0026	0.0124
SNB-Ia1	0.8374	0.0000	-0.8390	-0.8374	0.0000	0.8390	0.0058	0.0023	0.0044
SNB-Ia2	0.8374	0.0000	-0.8390	-0.8374	-0.0000	0.8390	0.0058	-0.0023	0.0044

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	0.01	1.04	4.68	26.06	-17.77	5.42	-2.62
Rohn-LA11	2.04	-1.59	2.69	11.25	38.00	1.93	8.13
Rohn-LA12	-2.16	1.18	2.88	6.55	-16.77	1.55	-2.78
Rohn-LA2P	0.01	-26.06	17.77	-32.80	25.97	-11.76	8.74
Rohn-LA21	2.04	-11.25	-38.00	-35.12	-88.05	-9.27	-25.19
Rohn-LA22	-2.16	-6.55	16.77	1.15	3.92	-1.08	4.14
Rohn-LA3P	0.01	32.79	-25.97	35.72	-13.14	13.69	-7.82
Rohn-LA31	2.04	35.12	88.05	40.70	105.53	15.15	38.69
Rohn-LA32	-2.16	-1.15	-3.92	-24.20	50.89	-5.07	9.39
Rohn-LA4P	0.01	-35.72	13.15	-18.78	24.82	-10.89	7.59
Rohn-LA41	2.04	-40.70	-105.53	-61.82	-118.06	-20.49	-44.68

Rohn-LA42	-2.16	24.20	-50.89	46.17	-78.04	14.06	-25.76
Rohn-LB1P	3.01	18.10	-14.09	10.94	-2.36	5.81	-3.29
Rohn-LB11	8.55	60.13	124.64	115.06	226.51	35.01	70.17
Rohn-LB12	-2.44	-42.90	83.82	-109.28	210.95	-30.41	58.91
Rohn-LB2P	3.01	-10.94	2.36	-4.24	56.55	-3.04	11.78
Rohn-LB21	8.54	-115.06	-226.51	-141.95	-220.45	-51.36	-89.31
Rohn-LB22	-2.43	109.28	-210.96	141.26	-214.68	50.07	-85.05
Rohn-LB3P	3.01	4.24	-56.55	4.08	-0.39	1.66	-11.38
Rohn-LB31	8.55	141.95	220.45	77.72	166.58	43.90	77.34
Rohn-LB32	-2.44	-141.27	214.68	-77.79	165.13	-43.77	75.89
Rohn-LB4P	3.01	-4.08	0.39	-6.32	151.53	-2.08	30.37
Rohn-LB41	8.54	-77.72	-166.58	19.93	152.72	-11.54	-2.77
Rohn-LB42	-2.43	77.79	-165.13	-14.86	149.51	12.57	-3.12
Rohn-LC1P	3.01	6.32	-151.53	1.82	86.90	1.22	-9.70
Rohn-LC11	8.53	-19.94	-152.72	-47.45	-1.49	-10.11	-23.13
Rohn-LC12	-2.42	14.86	-149.51	49.63	-5.04	9.67	-23.18
Rohn-LC2P	3.01	-1.82	-86.90	1.23	104.61	-0.09	2.65
Rohn-LC21	8.54	47.45	1.49	-8.48	143.83	5.83	21.73
Rohn-LC22	-2.43	-49.63	5.04	13.40	134.09	-5.42	20.81
Rohn-LC3P	3.01	-1.24	-104.61	-3.16	238.01	-0.66	20.03
Rohn-LC31	8.54	8.48	-143.83	96.98	317.52	15.82	26.05
Rohn-LC32	-2.44	-13.41	-134.09	-104.02	339.10	-17.61	30.75
Rohn-LD1P	3.01	3.16	-238.01	6.65	396.80	1.47	23.84
Rohn-LD11	8.50	-96.98	-317.53	-227.37	49.08	-48.65	-40.26
Rohn-LD12	-2.39	104.01	-339.10	235.19	31.78	50.88	-46.09
Rohn-LD2P	3.01	-6.65	-396.80	-2.02	177.20	-1.30	-32.88
Rohn-LD21	8.61	227.36	-49.08	310.52	765.95	80.43	107.19
Rohn-LD22	-2.50	-235.19	-31.78	-310.74	771.84	-81.63	110.66
Rohn-LD3P	3.01	2.02	-177.20	-0.56	705.21	0.22	79.31
Rohn-LD31	8.44	-310.50	-765.96	-291.18	92.55	-90.23	-100.99
Rohn-LD32	-2.33	310.72	-771.85	292.86	94.35	90.52	-101.60
Rohn-LE1P	3.01	0.55	-705.21	11.80	272.39	1.85	-64.99
Rohn-LE11	8.58	291.18	-92.55	132.71	568.46	63.58	71.38
Rohn-LE12	-2.47	-292.86	-94.34	-128.02	554.91	-63.13	69.08
Rohn-LE2P	3.01	-11.80	-272.39	-25.61	227.34	-5.60	-6.74
Rohn-LE21	8.53	-132.70	-568.47	108.77	453.82	-3.58	-17.14
Rohn-LE22	-2.42	128.01	-554.92	-120.96	491.73	1.05	-9.45
Rohn-LE3P	3.02	25.60	-227.34	26.35	1087.65	7.80	129.21
Rohn-LE31	8.47	-108.76	-453.82	-416.13	170.28	-78.72	-42.52
Rohn-LE32	-2.36	120.95	-491.73	451.05	93.98	85.78	-59.65
Rohn-LF1P	3.00	-26.35	-1087.64	-37.74	90.16	-6.41	-99.77
Rohn-LF11	8.74	416.13	-170.27	740.70	1694.61	115.55	152.25
Rohn-LF12	-2.63	-451.05	-93.96	-762.16	1753.16	-121.18	165.72
Rohn-LF2P	3.03	37.74	-90.16	28.06	1610.28	6.58	152.06
Rohn-LF21	8.21	-740.63	-1694.65	-889.20	-304.86	-162.78	-199.70
Rohn-LF22	-2.09	762.07	-1753.21	921.08	-374.27	168.11	-212.48
Rohn-LG1P	3.00	-28.07	-1610.28	-24.84	-84.36	-5.29	-169.51
Rohn-LG11	8.89	889.18	304.87	984.65	2024.10	187.16	232.62
Rohn-LG12	-2.79	-921.07	374.29	-996.39	2057.39	-191.52	242.87
Rohn-LG2P	3.02	24.84	84.36	12.42	1866.05	3.73	195.11
Rohn-LG21	8.19	-984.56	-2024.15	-1074.80	-436.99	-205.68	-245.81
Rohn-LG22	-2.08	996.29	-2057.44	1079.50	-447.25	207.32	-250.16
Rohn-LH1P	3.01	-12.42	-1866.05	0.33	-158.90	-1.21	-202.59
Rohn-LH11	8.87	1074.79	437.01	1207.75	2416.41	227.96	284.97
Rohn-LH12	-2.77	-1079.50	447.27	-1210.48	2423.87	-228.70	286.74
Rohn-LH2P	3.01	-0.33	158.90	-1.91	2378.15	-0.22	253.84
Rohn-LH21	7.86	-1207.62	-2416.48	-1408.41	-648.22	-261.26	-306.06
Rohn-LH22	-1.75	1210.33	-2423.95	1412.97	-652.65	261.98	-307.25
Rohn-LI1P	3.01	1.91	-2378.15	-8.28	-189.44	-0.64	-256.85
Rohn-LI11	8.75	1408.40	648.24	1811.72	3738.65	321.61	438.14
Rohn-LI12	-2.64	-1412.96	652.67	-1799.04	3717.64	-320.80	436.48
Rohn-LI2P	3.01	8.27	189.44	53.01	5397.35	6.13	558.91
Rohn-LI21	7.47	-1811.54	-3738.74	-1861.55	1363.52	-366.84	-237.22
Rohn-LI22	-1.37	1798.85	-3717.73	1811.84	1457.98	360.61	-225.69
Rohn-H1P	0.20	2.22	0.09	3.07	-1.06	0.70	-0.13
Rohn-H11	-0.06	0.07	-1.04	0.00	1.20	0.01	0.02
Rohn-H12	0.38	-3.10	1.03	-3.29	-0.06	-0.85	0.13
Rohn-H2P	-0.52	6.62	-1.92	6.92	-3.48	1.53	-0.61
Rohn-H21	-0.11	1.18	-3.21	0.07	-0.08	0.14	-0.37

Rohn-H22	0.15	-6.69	0.49	-6.16	-1.11	-1.45	-0.07
SNB-LA1P	-0.03	4.04	66.28	14.54	-9.89	3.71	11.27
SNB-LA11	0.28	66.99	-23.22	16.49	16.21	16.68	-1.40
SNB-LA12	-0.28	-71.19	-35.93	-24.99	-6.89	-19.22	-8.56
SNB-LA2P	-0.03	-14.54	9.89	-19.71	36.80	-6.85	9.33
SNB-LA21	0.28	-16.49	-16.21	-6.37	-43.28	-4.57	-11.89
SNB-LA22	-0.28	24.99	6.89	16.85	-14.09	8.36	-1.44
SNB-LA3P	-0.03	19.71	-36.80	16.20	-39.27	7.18	-15.20
SNB-LA31	0.28	6.37	43.28	4.95	74.59	2.26	23.55
SNB-LA32	-0.28	-16.85	14.09	-13.63	50.64	-6.09	12.94
SNB-LA4P	-0.03	-16.20	39.27	-10.43	117.66	-5.32	31.36
SNB-LA41	0.28	-4.95	-74.59	12.48	-71.73	1.51	-29.24
SNB-LA42	-0.28	13.63	-50.64	-5.29	-54.87	1.67	-21.08
SNB-LB1P	-0.06	9.59	180.97	4.66	46.57	2.85	45.48
SNB-LB11	3.27	113.35	61.20	49.76	101.76	32.60	32.57
SNB-LB12	-3.06	-118.94	47.77	-52.99	94.71	-34.36	28.47
SNB-LB2P	-0.06	-4.66	-46.57	-2.68	120.02	-1.47	14.68
SNB-LB21	3.26	-49.76	-101.76	-33.47	-5.90	-16.63	-21.51
SNB-LB22	-3.05	52.99	-94.71	35.71	-1.57	17.73	-19.24
SNB-LB3P	-0.06	2.68	-120.02	2.22	-57.11	0.98	-35.40
SNB-LB31	3.27	33.47	5.90	45.45	200.25	15.77	41.20
SNB-LB32	-3.05	-35.71	1.57	-45.70	197.62	-16.27	39.80
SNB-LB4P	-0.06	-2.22	57.11	-0.19	545.10	-0.48	120.37
SNB-LB41	3.26	-45.45	-200.25	-0.96	34.90	-9.27	-33.04
SNB-LB42	-3.05	45.70	-197.62	3.72	36.52	9.88	-32.19
SNB-LC1P	0.03	0.19	-31.90	0.31	185.04	0.07	22.98
SNB-LC11	8.24	180.78	-41.25	76.48	176.62	38.59	20.31
SNB-LC12	-8.17	-182.79	-42.56	-76.33	176.37	-38.87	20.07
SNB-LC2P	0.03	-0.31	-185.04	0.97	58.09	0.10	-19.00
SNB-LC21	8.22	-76.48	-176.62	27.97	347.69	-7.25	25.59
SNB-LC22	-8.14	76.33	-176.37	-28.34	346.38	7.18	25.43
SNB-LC3P	0.03	-0.97	-58.09	-0.35	606.31	-0.20	82.29
SNB-LC31	8.23	-27.97	-347.69	4.54	-45.26	-3.51	-58.94
SNB-LC32	-8.15	28.34	-346.38	-0.23	-42.43	4.22	-58.32
SNB-LD1P	-0.02	0.45	115.39	2.98	698.77	0.51	122.22
SNB-LD11	10.64	327.39	-37.18	17.80	537.05	51.78	74.98
SNB-LD12	-10.47	-331.86	-40.46	-18.70	533.08	-52.58	73.89
SNB-LD2P	-0.02	-2.98	-698.77	-0.14	60.82	-0.47	-95.50
SNB-LD21	10.63	-17.79	-537.05	298.95	846.13	42.05	46.22
SNB-LD22	-10.46	18.70	-533.08	-296.17	847.92	-41.50	47.08
SNB-LD3P	-0.02	0.14	-60.82	-0.74	1551.11	-0.09	223.78
SNB-LD31	10.49	-298.94	-846.14	-341.15	265.07	-96.00	-87.15
SNB-LD32	-10.32	296.15	-847.93	343.42	266.96	95.92	-87.13
SNB-LE1P	-0.28	1.34	-334.16	9.80	1080.65	1.67	112.06
SNB-LE11	21.78	690.21	-224.35	226.79	1174.01	137.55	142.45
SNB-LE12	-21.39	-692.85	-227.57	-227.87	1162.13	-138.11	140.18
SNB-LE2P	-0.28	-9.80	-1080.65	-6.38	427.84	-2.42	-97.71
SNB-LE21	21.69	-226.77	-1174.01	352.20	1669.94	18.76	74.16
SNB-LE22	-21.29	227.85	-1162.13	-338.18	1685.23	-16.50	78.23
SNB-LE3P	-0.28	6.38	-427.84	4.65	2952.14	1.66	378.99
SNB-LE31	21.57	-352.17	-1669.94	-703.38	-486.04	-158.32	-323.37
SNB-LE32	-21.18	338.15	-1685.23	690.82	-498.74	154.34	-327.57
SNB-LF1P	-0.02	-4.53	-1710.58	-1.45	-183.05	-0.60	-189.36
SNB-LF11	37.89	1495.17	278.95	1550.36	3153.17	304.23	342.82
SNB-LF12	-37.87	-1483.78	290.74	-1535.87	3163.05	-301.64	344.99
SNB-LF2P	-0.02	1.45	183.05	3.12	3600.23	0.46	378.36
SNB-LF21	36.68	-1550.24	-3153.24	-1534.35	-1210.07	-308.11	-435.82
SNB-LF22	-36.67	1535.75	-3163.13	1523.55	-1219.77	305.58	-437.77
SNB-LG1P	0.27	-3.03	-2079.69	-0.19	135.90	-0.32	-194.39
SNB-LG11	62.32	2852.60	603.92	2705.61	5791.32	555.21	638.79
SNB-LG12	-62.68	-2841.86	613.54	-2691.72	5799.32	-552.75	640.55
SNB-LG2P	0.27	0.19	-135.90	2.03	6133.95	0.22	599.88
SNB-LG21	60.53	-2705.40	-5791.44	-2168.54	-1562.24	-486.83	-734.50
SNB-LG22	-60.89	2691.51	-5799.44	2166.71	-1565.43	485.26	-735.61
SNB-LH1P	0.08	-1.88	-3942.99	3.80	-224.33	0.19	-416.83
SNB-LH11	60.29	3725.83	814.54	3198.94	6398.60	691.66	720.43
SNB-LH12	-60.51	-3724.90	817.11	-3194.24	6396.76	-691.10	720.50
SNB-LH2P	0.08	-3.80	224.34	-1.82	7035.01	-0.56	726.16
SNB-LH21	57.57	-3198.66	-6398.77	-3114.68	-1874.14	-630.55	-826.24

SNB-LH22	-57.78	3193.96	-6396.92	3117.78	-1870.09	630.39	-825.65
SNB-LI1P	-0.02	1.91	-4604.11	7.89	-101.33	0.98	-470.62
SNB-LI11	20.26	5046.17	926.98	5282.81	9695.55	1031.67	1060.99
SNB-LI12	-20.44	-5049.38	922.84	-5277.98	9688.99	-1031.51	1059.92
SNB-LI2P	-0.02	-7.89	101.33	-1.67	13124.61	-0.96	1322.93
SNB-LI21	16.07	-5282.32	-9695.83	-5302.76	2554.68	-1057.21	-713.24
SNB-LI22	-16.24	5277.49	-9689.26	5310.49	2562.12	1057.50	-711.84
SNB-H1aP	-1.76	40.40	66.77	149.97	-0.46	94.22	32.82
SNB-H1bP	-1.76	-149.97	0.47	-30.16	34.88	-89.15	17.50
SNB-H1cP	-2.06	50.39	-35.68	137.72	-1.09	93.10	-18.20
SNB-H1dP	-2.06	-137.71	1.09	-44.49	35.17	-90.18	17.95
SNB-H1eP	6.22	42.65	-34.72	143.52	-2.27	92.15	-18.31
SNB-H1fP	6.22	-143.52	2.26	-40.74	-66.58	-91.20	-31.84
SNB-H2aP	-7.59	176.66	53.31	151.48	2.53	121.40	20.66
SNB-H2bP	-7.58	-151.48	-2.52	-15.84	20.09	-61.91	6.50
SNB-H2cP	0.63	111.27	-25.19	136.14	4.12	91.54	-7.79
SNB-H2dP	0.63	-136.14	-4.12	-111.90	24.78	-91.77	7.64
SNB-H2eP	6.74	12.85	-19.81	153.05	1.22	61.38	-6.88
SNB-H2fP	6.74	-153.05	-1.22	-176.44	-53.32	-121.91	-20.18
SNB-H3aP	-6.00	299.67	34.89	204.98	-3.85	149.11	9.17
SNB-H3bP	-6.00	-204.98	3.85	-10.85	11.28	-63.77	4.47
SNB-H3cP	0.03	169.08	-19.56	191.79	11.55	106.63	-2.37
SNB-H3dP	0.02	-191.79	-11.55	-168.56	19.44	-106.47	2.33
SNB-H3eP	5.92	10.52	-11.03	205.07	-3.83	63.70	-4.39
SNB-H3fP	5.92	-205.07	3.83	-299.81	-34.98	-149.18	-9.20
SNB-H4aP	-6.55	420.45	17.79	327.67	-14.87	183.99	0.72
SNB-H4bP	-6.55	-327.67	14.87	-98.95	3.51	-104.92	4.52
SNB-H4cP	-0.09	276.77	-9.59	314.81	34.29	145.50	6.07
SNB-H4dP	-0.11	-314.81	-34.29	-276.70	9.44	-145.48	-6.11
SNB-H4eP	6.62	99.27	-3.46	327.45	-15.05	104.95	-4.56
SNB-H4fP	6.63	-327.45	15.06	-420.51	-17.73	-183.95	-0.65
SNB-H5aP	-10.26	708.31	27.51	426.89	-24.07	239.16	0.73
SNB-H5bP	-10.25	-426.89	24.07	40.37	-0.52	-81.43	4.96
SNB-H5cP	-0.34	360.03	-18.83	405.06	56.82	161.19	8.00
SNB-H5dP	-0.36	-405.06	-56.82	-359.68	18.60	-161.11	-8.05
SNB-H5eP	10.57	-39.47	0.48	426.13	-24.13	81.46	-4.98
SNB-H5fP	10.58	-426.13	24.13	-708.95	-27.22	-239.13	-0.65
SNB-H6aP	-47.80	744.43	8.96	684.96	-23.46	263.32	-2.65
SNB-H6bP	-47.79	-684.96	23.43	-267.08	-9.45	-175.38	2.57
SNB-H6cP	-0.13	616.63	-14.56	580.29	47.56	220.50	6.08
SNB-H6dP	-0.15	-580.29	-47.56	-617.27	14.68	-220.62	-6.06
SNB-H6eP	47.92	267.89	9.70	684.77	-22.11	175.50	-2.30
SNB-H6fP	47.93	-684.77	22.13	-744.47	-9.22	-263.29	2.40
SNB-H7aP	-42.94	902.57	-8.27	1001.82	-30.24	311.69	-6.28
SNB-H7bP	-42.92	-1001.83	30.20	-724.90	-17.25	-282.61	2.10
SNB-H7cP	0.03	918.48	-11.94	913.28	55.20	299.81	7.08
SNB-H7dP	-0.01	-913.28	-55.20	-918.47	12.08	-299.81	-7.06
SNB-H7eP	42.91	725.04	17.48	1002.04	-29.06	282.67	-1.92
SNB-H7fP	42.93	-1002.04	29.10	-902.77	7.99	-311.76	6.09
SNB-H8aP	-11.90	1271.81	-14.03	1186.04	-32.68	361.95	-6.87
SNB-H8bP	-11.87	-1186.04	32.67	-869.51	-8.52	-302.70	3.55
SNB-H8cP	-0.07	1112.67	5.73	1174.29	65.02	336.80	10.42
SNB-H8dP	-0.12	-1174.29	-65.02	-1113.19	-5.80	-336.87	-10.43
SNB-H8eP	11.98	870.06	8.44	1185.89	-32.47	302.76	-3.55
SNB-H8fP	12.01	-1185.89	32.48	-1271.88	14.23	-361.94	6.89
SNB-H9aP	-29.02	1420.18	-19.12	1379.62	-38.41	374.70	-7.68
SNB-H9bP	-29.00	-1379.63	38.37	-1108.14	7.80	-332.94	6.16
SNB-H9cP	0.01	1353.46	26.51	1338.13	75.97	360.23	13.72
SNB-H9dP	-0.05	-1338.13	-75.97	-1353.50	-26.53	-360.24	-13.72
SNB-H9eP	29.04	1108.21	-7.82	1379.59	-38.34	332.94	-6.20
SNB-H9fP	29.06	-1379.58	38.39	-1420.29	19.22	-374.71	7.73

*** Analysis Results for Load Case No. 2 "2: 0.9D + 1.0Dg + 1.6Wo" - Number of iterations in SAPS 13

Equilibrium Joint Positions and Rotations for Load Case "2: 0.9D + 1.0Dg + 1.6Wo":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	1.757	-0.0008566	-0.08565	0.0063	0.9042	0.0112	6.09	-0.0008566	179.9
RohnBP	1.441	-4.944e-005	-0.0942	-0.0011	0.9022	0.0110	6.562	-4.944e-005	159.9
RohnCP	1.129	-0.0003082	-0.0988	-0.0006	0.8694	0.0073	7.038	-0.0003082	139.9
RohnDP	0.8377	-0.0004046	-0.09815	-0.0002	0.7889	0.0048	7.533	-0.0004046	119.9
RohnEP	0.5836	-0.0005454	-0.08804	-0.0005	0.6499	0.0032	8.065	-0.0005454	99.91
RohnFP	0.3774	-0.0007025	-0.0764	-0.0003	0.5153	0.0021	8.645	-0.0007025	79.92
RohnGP	0.216	-0.0006311	-0.06144	0.0006	0.3914	0.0015	9.271	-0.0006311	59.94
RohnHP	0.09911	-0.0004152	-0.0442	0.0010	0.2682	0.0009	9.94	-0.0004152	39.96
RohnIP	0.02794	-0.0002054	-0.02172	0.0006	0.1220	0.0003	10.66	-0.0002054	19.98
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	1.757	-0.001726	-0.05107	0.0020	0.9008	-0.0000	4.09	-0.001726	179.9
SNB-BP	1.441	-0.00132	-0.06035	0.0009	0.8964	-0.0000	4.562	-0.00132	159.9
SNB-CP	1.129	-0.0009444	-0.06745	0.0010	0.8635	0.0000	5.037	-0.0009444	139.9
SNB-DP	0.8379	-0.0006312	-0.06987	0.0008	0.7794	-0.0000	5.533	-0.0006312	119.9
SNB-EP	0.5837	-0.0004042	-0.06432	0.0006	0.6358	0.0000	6.065	-0.0004042	99.94
SNB-FP	0.3775	-0.0002485	-0.05953	0.0004	0.5159	0.0000	6.646	-0.0002485	79.94
SNB-GP	0.2161	-0.0001362	-0.04914	0.0003	0.3745	0.0000	7.271	-0.0001362	59.95
SNB-HP	0.09913	-5.785e-005	-0.03641	0.0002	0.2606	0.0000	7.94	-5.785e-005	39.96
SNB-IP	0.02794	-1.49e-005	-0.01843	0.0001	0.1192	0.0000	8.656	-1.49e-005	19.98
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	1.759	-0.002185	0.01615	0.0011	0.9069	0.0044	-0.408	-3.755	180
RohnA2	1.757	-0.002091	0.01631	0.0006	0.9059	0.0178	-0.4094	3.75	180
RohnB1	1.443	-0.002016	0.02436	0.0060	0.9086	0.0000	-1.118	-4.437	160
RohnB2	1.44	-0.001964	0.02457	-0.0016	0.9067	0.0222	-1.12	4.433	160
RohnC1	1.13	-0.0009647	0.0309	-0.0016	0.8635	-0.0089	-1.825	-5.118	140
RohnC2	1.129	-0.001575	0.03108	0.0061	0.8601	0.0234	-1.826	5.116	140
RohnD1	0.8379	-0.0002252	0.03469	-0.0020	0.7846	-0.0132	-2.51	-5.798	120
RohnD2	0.8374	-0.001327	0.03485	0.0052	0.7821	0.0227	-2.51	5.797	120
RohnE1	0.5838	-0.0001772	0.03361	-0.0001	0.6490	-0.0130	-3.157	-6.479	100
RohnE2	0.5841	-0.0004873	0.03373	0.0027	0.6466	0.0195	-3.156	6.478	100
RohnF1	0.3766	0.0005169	0.03075	0.0110	0.5371	-0.0128	-3.757	-7.16	80.03
RohnF2	0.3776	-0.0004388	0.03082	-0.0096	0.5361	0.0170	-3.756	7.16	80.03
RohnG1	0.2154	0.000361	0.0256	0.0033	0.3975	-0.0097	-4.312	-7.841	60.03
RohnG2	0.2165	-1.751e-005	0.02566	-0.0029	0.3977	0.0126	-4.311	7.842	60.03
RohnH1	0.09842	0.0004172	0.01885	0.0032	0.2744	-0.0071	-4.822	-8.522	40.02
RohnH2	0.09906	-0.0001701	0.01889	-0.0034	0.2751	0.0089	-4.821	8.522	40.02
RohnI1	0.02763	0.0001878	0.009378	0.0060	0.1346	-0.0040	-5.287	-9.206	20.01
RohnI2	0.02796	-2.775e-005	0.009398	-0.0063	0.1354	0.0046	-5.287	9.206	20.01
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	1.758	-0.001731	0.004211	-0.0028	0.9100	-0.0018	0.5911	-2.022	180
SNB-A2	1.758	-0.001724	0.004294	0.0048	0.9094	0.0020	0.5911	2.019	180
SNB-B1	1.441	-0.001328	0.01272	0.0002	0.9037	-0.0021	-0.119	-2.704	160
SNB-B2	1.441	-0.001315	0.01282	0.0021	0.9039	0.0023	-0.1191	2.702	160
SNB-C1	1.13	-0.0009366	0.02013	-0.0002	0.8716	-0.0029	-0.8243	-3.385	140
SNB-C2	1.13	-0.000959	0.02025	0.0022	0.8716	0.0030	-0.8243	3.383	140
SNB-D1	0.8384	-0.0005453	0.02493	-0.0020	0.7921	-0.0050	-1.509	-4.067	120
SNB-D2	0.8384	-0.0007196	0.02504	0.0035	0.7921	0.0050	-1.509	4.065	120
SNB-E1	0.584	-0.0003111	0.02525	-0.0009	0.6441	-0.0040	-2.156	-4.747	100
SNB-E2	0.584	-0.0004978	0.02534	0.0019	0.6440	0.0040	-2.156	4.746	100
SNB-F1	0.3777	-0.0001576	0.02494	0.0043	0.5398	-0.0038	-2.756	-5.428	80.02
SNB-F2	0.3777	-0.0003463	0.02501	-0.0035	0.5397	0.0038	-2.756	5.428	80.03
SNB-G1	0.216	9.501e-006	0.02139	0.0028	0.4010	-0.0047	-3.311	-6.11	60.02
SNB-G2	0.216	-0.0002888	0.02145	-0.0022	0.4010	0.0046	-3.311	6.11	60.02
SNB-H1	0.0989	0.0001415	0.01625	-0.0027	0.2751	-0.0045	-3.822	-6.79	40.02
SNB-H2	0.0989	-0.0002586	0.01629	0.0030	0.2751	0.0045	-3.822	6.79	40.02
SNB-I1	0.02752	0.0002466	0.008334	0.0029	0.1399	-0.0042	-4.286	-7.472	20.01
SNB-I2	0.02753	-0.0002762	0.008353	-0.0028	0.1399	0.0042	-4.286	7.472	20.01
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	1.678	-0.0004212	-0.08806	0.0014	0.9084	0.0111	6.208	-0.0004212	174.9
RohnAbS	1.598	-0.0003879	-0.09033	0.0027	0.9069	0.0111	6.325	-0.0003879	169.9
RohnAcS	1.52	4.014e-005	-0.09237	0.0021	0.9043	0.0111	6.444	4.014e-005	164.9
RohnBaS	1.362	-5.998e-005	-0.09585	-0.0002	0.9007	0.0101	6.68	-5.998e-005	154.9
RohnBbS	1.283	-0.0001437	-0.09724	-0.0010	0.8943	0.0091	6.798	-0.0001437	149.9
RohnBcS	1.206	-0.000217	-0.09824	-0.0010	0.8875	0.0082	6.918	-0.000217	144.9
RohnCaS	1.029	-0.0003326	-0.0994	-0.0001	0.8448	0.0064	7.2	-0.0003326	133.2
RohnCbS	0.9318	-0.0003628	-0.09926	-0.0004	0.8243	0.0056	7.365	-0.0003628	126.6
RohnDaS	0.7481	-0.0004189	-0.09592	-0.0004	0.7470	0.0043	7.705	-0.0004189	113.2
RohnDbS	0.6634	-0.000486	-0.09253	-0.0007	0.7082	0.0038	7.883	-0.000486	106.6
RohnEaS	0.511	-0.000613	-0.08485	-0.0010	0.6029	0.0028	8.254	-0.000613	93.26
RohnEbS	0.442	-0.0007196	-0.08097	-0.0003	0.5782	0.0025	8.448	-0.0007196	86.58
RohnFaS	0.2929	-0.0007884	-0.06964	0.0002	0.4642	0.0018	8.954	-0.0007884	69.93
RohnGaS	0.1541	-0.0005872	-0.05339	0.0005	0.3344	0.0012	9.602	-0.0005872	49.95
RohnHaS	0.05958	-0.0002974	-0.03355	0.0005	0.2044	0.0006	10.3	-0.0002974	29.97
RohnIaS	0.01059	-9.413e-005	-0.01128	0.0007	0.0857	0.0002	11.04	-9.413e-005	9.989
SNB-AaS	1.678	-0.00158	-0.05353	0.0005	0.9094	-0.0001	4.208	-0.00158	174.9
SNB-AbS	1.599	-0.001579	-0.05593	0.0012	0.9063	-0.0000	4.326	-0.001579	169.9
SNB-AcS	1.52	-0.001376	-0.05822	0.0017	0.9061	-0.0000	4.444	-0.001376	164.9
SNB-BaS	1.362	-0.001219	-0.06244	0.0012	0.9026	-0.0000	4.68	-0.001219	154.9
SNB-BbS	1.284	-0.001128	-0.06435	0.0010	0.8937	0.0000	4.798	-0.001128	149.9
SNB-BcS	1.206	-0.001031	-0.06601	0.0011	0.8896	0.0000	4.917	-0.001031	144.9
SNB-CaS	1.029	-0.0008325	-0.06888	0.0010	0.8460	0.0000	5.2	-0.0008325	133.3
SNB-CbS	0.932	-0.0007261	-0.06967	0.0009	0.8270	0.0000	5.365	-0.0007261	126.6
SNB-DaS	0.7483	-0.0005406	-0.06899	0.0007	0.7491	-0.0000	5.705	-0.0005406	113.3
SNB-DbS	0.6635	-0.0004708	-0.06708	0.0006	0.7120	-0.0000	5.883	-0.0004708	106.6
SNB-EaS	0.5111	-0.0003395	-0.06337	0.0004	0.6075	0.0000	6.254	-0.0003395	93.28
SNB-EbS	0.4421	-0.0002981	-0.06173	0.0004	0.5780	0.0000	6.448	-0.0002981	86.6
SNB-FaS	0.2929	-0.0001904	-0.05495	0.0003	0.4690	0.0000	6.954	-0.0001904	69.95
SNB-GaS	0.1542	-9.487e-005	-0.04335	0.0002	0.3412	0.0000	7.602	-9.487e-005	49.96
SNB-HaS	0.05958	-2.992e-005	-0.02801	0.0001	0.2077	0.0000	8.294	-2.992e-005	29.97
SNB-IaS	0.01059	-1.624e-006	-0.009751	0.0000	0.0869	0.0000	9.032	-1.624e-006	9.99
SNB-WL-A1S	1.757	-0.001736	-0.02357	-0.0003	0.9051	-0.0039	2.341	-1.012	180
SNB-WL-A2S	1.758	-0.001728	0.004135	0.0008	0.9097	0.0001	0.5912	-0.001728	180
SNB-WL-A3S	1.757	-0.001716	-0.02352	0.0035	0.9051	0.0039	2.341	1.009	180
SNB-WL-B1S	1.441	-0.001331	-0.02401	0.0036	0.8947	-0.0040	2.221	-1.353	160
SNB-WL-B2S	1.441	-0.001322	0.01263	0.0012	0.9038	0.0001	-0.119	-0.001322	160
SNB-WL-B3S	1.441	-0.001307	-0.02397	-0.0016	0.8947	0.0040	2.221	1.35	160
SNB-WL-C1S	1.129	-0.0009656	-0.02403	0.0073	0.8554	-0.0038	2.106	-1.693	140
SNB-WL-C2S	1.13	-0.0009478	0.01989	0.0010	0.8716	0.0000	-0.8242	-0.0009478	140
SNB-WL-C3S	1.129	-0.0009263	-0.02397	-0.0054	0.8554	0.0039	2.106	1.691	140
SNB-WL-D1S	0.8382	-0.0006643	-0.0233	0.0088	0.7695	-0.0039	2.012	-2.034	120
SNB-WL-D2S	0.8386	-0.0006325	0.02426	0.0008	0.7921	0.0000	-1.509	-0.0006325	120
SNB-WL-D3S	0.8382	-0.0005984	-0.02325	-0.0072	0.7695	0.0039	2.012	2.032	120
SNB-WL-E1S	0.5839	-0.0004296	-0.02013	0.0099	0.6225	-0.0029	1.954	-2.374	99.98
SNB-WL-E2S	0.5842	-0.0004044	0.0248	0.0005	0.6440	0.0000	-2.156	-0.0004044	100
SNB-WL-E3S	0.5839	-0.0003791	-0.02009	-0.0088	0.6225	0.0029	1.954	2.373	99.98
SNB-WL-F1S	0.3777	-0.0002821	-0.01862	0.0097	0.5151	-0.0020	1.945	-2.714	79.98
SNB-WL-F2S	0.3779	-0.000252	0.02427	0.0004	0.5397	-0.0000	-2.756	-0.000252	80.02
SNB-WL-F3S	0.3777	-0.0002224	-0.01858	-0.0089	0.5151	0.0020	1.945	2.714	79.98
SNB-WL-G1S	0.2161	-0.0001822	-0.01615	0.0046	0.3824	-0.0015	1.98	-3.055	59.98
SNB-WL-G2S	0.2163	-0.0001397	0.01984	0.0003	0.4010	-0.0000	-3.311	-0.0001397	60.02
SNB-WL-G3S	0.2161	-9.793e-005	-0.01612	-0.0041	0.3824	0.0015	1.98	3.055	59.98
SNB-WL-H1S	0.0991	-0.0001065	-0.01309	0.0065	0.2544	-0.0015	2.059	-3.395	39.99
SNB-WL-H2S	0.09925	-5.852e-005	0.01347	0.0002	0.2751	-0.0000	-3.821	-5.852e-005	40.01
SNB-WL-H3S	0.0991	-1.124e-005	-0.01307	-0.0061	0.2544	0.0015	2.059	3.395	39.99
SNB-WL-I1S	0.02786	-7.019e-005	-0.00927	0.0081	0.1181	-0.0016	2.185	-3.736	19.99
SNB-WL-I2S	0.02797	-1.482e-005	0.004777	0.0001	0.1399	-0.0000	-4.286	-1.482e-005	20
SNB-WL-I3S	0.02786	4.013e-005	-0.009259	-0.0080	0.1181	0.0016	2.185	3.736	19.99
RohnAa1	1.68	-0.002242	0.01833	-0.0016	0.9001	0.0037	-0.5854	-3.925	175
RohnAa2	1.678	-0.00206	0.01848	-0.0003	0.9097	0.0190	-0.5871	3.921	175
RohnAb1	1.601	-0.002379	0.02041	0.0030	0.9097	0.0022	-0.7625	-4.096	170
RohnAb2	1.598	-0.002167	0.02062	-0.0018	0.9122	0.0202	-0.7652	4.092	170
RohnAc1	1.521	-0.002001	0.02244	0.0019	0.9063	0.0013	-0.9407	-4.266	165
RohnAc2	1.519	-0.002215	0.02265	0.0027	0.9016	0.0208	-0.943	4.262	165
RohnBa1	1.363	-0.001558	0.02623	-0.0007	0.8964	-0.0020	-1.296	-4.607	155
RohnBa2	1.361	-0.002048	0.02643	0.0065	0.8915	0.0222	-1.298	4.603	155
RohnBb1	1.286	-0.002029	0.02794	0.0025	0.8956	-0.0048	-1.472	-4.778	150
RohnBb2	1.284	-0.001216	0.02814	0.0026	0.8919	0.0231	-1.473	4.775	150

RohnBc1	1.207	-0.001153	0.02954	0.0102	0.9020	-0.0079	-1.649	-4.948	145
RohnBc2	1.205	-0.001735	0.02974	-0.0050	0.8979	0.0243	-1.651	4.945	145
RohnCa1	1.031	-0.001164	0.03254	0.0015	0.8476	-0.0108	-2.055	-5.345	133.4
RohnCa2	1.03	-0.0009826	0.03272	0.0023	0.8449	0.0237	-2.056	5.343	133.4
RohnCb1	0.9323	-0.0006493	0.03386	0.0070	0.8329	-0.0128	-2.284	-5.572	126.7
RohnCb2	0.9317	-0.001173	0.03402	-0.0040	0.8316	0.0241	-2.285	5.57	126.7
RohnDa1	0.7483	-0.0004198	0.03493	0.0068	0.7601	-0.0141	-2.73	-6.025	113.4
RohnDa2	0.7482	-0.0007927	0.03508	-0.0037	0.7574	0.0226	-2.73	6.024	113.4
RohnDb1	0.6618	0.0006696	0.03461	0.0009	0.7061	-0.0136	-2.948	-6.251	106.7
RohnDb2	0.6618	-0.0016	0.03474	0.0017	0.7042	0.0211	-2.948	6.25	106.7
RohnEa1	0.5097	0.0006182	0.03305	0.0077	0.6170	-0.0133	-3.362	-6.705	93.37
RohnEa2	0.5102	-0.001034	0.03316	-0.0055	0.6152	0.0190	-3.361	6.705	93.37
RohnEb1	0.4406	0.0007201	0.0321	-0.0044	0.5677	-0.0123	-3.562	-6.933	86.69
RohnEb2	0.4413	-0.0008992	0.0322	0.0069	0.5647	0.0172	-3.562	6.932	86.69
RohnFa1	0.2877	0.002603	0.02861	-0.0032	0.4573	-0.0106	-4.043	-7.498	70.03
RohnFa2	0.2887	-0.002418	0.02868	0.0041	0.4570	0.0142	-4.042	7.499	70.03
RohnGa1	0.149	0.00262	0.02257	-0.0003	0.3335	-0.0083	-4.575	-8.18	50.02
RohnGa2	0.1498	-0.002337	0.02261	-0.0001	0.3351	0.0107	-4.574	8.18	50.02
RohnHa1	0.05373	0.002953	0.01445	-0.0018	0.2007	-0.0054	-5.064	-8.861	30.01
RohnHa2	0.0542	-0.002752	0.01448	0.0016	0.2015	0.0065	-5.064	8.861	30.01
RohnIa1	0.006317	0.002096	0.004905	-0.0009	0.0840	-0.0026	-5.506	-9.546	10
RohnIa2	0.00648	-0.002012	0.004916	0.0003	0.0852	0.0029	-5.506	9.546	10
SNB-Aa1	1.678	-0.001625	0.006401	0.0025	0.9055	-0.0020	0.4134	-2.193	175
SNB-Aa2	1.679	-0.001653	0.006486	0.0001	0.9063	0.0022	0.4135	2.189	175
SNB-Ab1	1.599	-0.001504	0.008556	0.0017	0.9090	-0.0022	0.2359	-2.363	170
SNB-Ab2	1.599	-0.001517	0.008655	0.0007	0.9090	0.0023	0.2358	2.36	170
SNB-Ac1	1.52	-0.001354	0.01067	0.0014	0.9048	-0.0021	0.05806	-2.534	165
SNB-Ac2	1.52	-0.001514	0.01077	0.0007	0.9041	0.0023	0.05812	2.531	165
SNB-Ba1	1.363	-0.001122	0.01474	0.0025	0.9021	-0.0026	-0.2963	-2.874	155
SNB-Ba2	1.363	-0.001335	0.01485	-0.0004	0.9020	0.0028	-0.2963	2.872	155
SNB-Bb1	1.284	-0.001027	0.01667	0.0020	0.8964	-0.0029	-0.4731	-3.045	150
SNB-Bb2	1.284	-0.001235	0.01678	0.0002	0.8965	0.0030	-0.4731	3.042	150
SNB-Bc1	1.206	-0.0008482	0.01847	0.0009	0.8857	-0.0030	-0.6494	-3.215	145
SNB-Bc2	1.206	-0.001228	0.01859	0.0012	0.8857	0.0031	-0.6494	3.213	145
SNB-Ca1	1.029	-0.0002982	0.0221	0.0066	0.8557	-0.0042	-1.056	-3.612	133.4
SNB-Ca2	1.029	-0.00138	0.02221	-0.0048	0.8556	0.0043	-1.056	3.61	133.4
SNB-Cb1	0.9314	-0.0001264	0.02371	-0.0018	0.8163	-0.0042	-1.285	-3.839	126.7
SNB-Cb2	0.9314	-0.001341	0.02382	0.0037	0.8164	0.0043	-1.285	3.838	126.7
SNB-Da1	0.7473	0.0001697	0.02562	0.0111	0.7655	-0.0059	-1.731	-4.292	113.4
SNB-Da2	0.7473	-0.001271	0.02572	-0.0097	0.7654	0.0059	-1.731	4.291	113.4
SNB-Db1	0.6616	0.0007747	0.02572	-0.0044	0.6986	-0.0044	-1.948	-4.519	106.7
SNB-Db2	0.6616	-0.001718	0.02581	0.0057	0.6987	0.0045	-1.948	4.518	106.7
SNB-Ea1	0.5102	0.0002847	0.02554	0.0069	0.6180	-0.0044	-2.361	-4.973	93.37
SNB-Ea2	0.5102	-0.0009757	0.02562	-0.0059	0.6180	0.0044	-2.361	4.973	93.37
SNB-Eb1	0.4411	0.0004192	0.02542	-0.0047	0.5637	-0.0033	-2.562	-5.201	86.69
SNB-Eb2	0.4411	-0.001001	0.02549	0.0054	0.5637	0.0033	-2.562	5.2	86.69
SNB-Fa1	0.2876	0.002671	0.02357	0.0001	0.4587	-0.0038	-3.043	-5.766	70.02
SNB-Fa2	0.2876	-0.003032	0.02363	0.0005	0.4587	0.0038	-3.043	5.766	70.02
SNB-Ga1	0.1493	0.002439	0.01917	0.0016	0.3334	-0.0045	-3.575	-6.448	50.02
SNB-Ga2	0.1493	-0.002619	0.01922	-0.0011	0.3334	0.0045	-3.575	6.448	50.02
SNB-Ha1	0.05428	0.002637	0.01263	0.0017	0.2019	-0.0043	-4.063	-7.129	30.01
SNB-Ha2	0.05428	-0.002702	0.01266	-0.0014	0.2019	0.0042	-4.063	7.129	30.01
SNB-Ia1	0.00587	0.002354	0.004451	-0.0005	0.0823	-0.0025	-4.505	-7.81	10
SNB-Ia2	0.005873	-0.002362	0.004461	0.0006	0.0823	0.0025	-4.505	7.81	10

Joint Support Reactions for Load Case "2: 0.9D + 1.0Dg + 1.6Wo":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-28.59	0.0	0.10	0.0	342.58	0.0	0.0	343.77	0.0	-0.05	0.0	-5.3	0.0	-0.01	0.0	0.0
SNB-JP	-49.56	0.0	0.00	0.0	495.02	0.0	0.0	497.50	0.0	0.00	0.0	-13.0	0.0	0.00	0.0	0.0
RohnJ1	-9.33	0.0	-9.96	0.0	-148.99	0.0	0.0	149.62	0.0	1.92	0.0	-1.4	0.0	0.00	0.0	0.0
RohnJ2	-9.51	0.0	9.88	0.0	-149.32	0.0	0.0	149.95	0.0	-1.87	0.0	-1.5	0.0	-0.01	0.0	0.0
SNB-J1	-17.01	0.0	-18.33	0.0	-226.45	0.0	0.0	227.83	0.0	5.40	0.0	-2.6	0.0	-0.04	0.0	0.0
SNB-J2	-17.03	0.0	18.36	0.0	-226.95	0.0	0.0	228.32	0.0	-5.40	0.0	-2.6	0.0	0.04	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "2: 0.9D + 1.0Dg + 1.6Wo":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.6446	0.0000	-0.2657	-0.6446	-0.0000	0.2657	1.7569	-0.0009	-0.0856
RohnBP	3.0288	0.0000	-0.9541	-3.0288	-0.0000	0.9541	1.4406	-0.0000	-0.0942
RohnCP	0.6543	0.0000	-0.3841	-0.6543	0.0000	0.3841	1.1288	-0.0003	-0.0988
RohnDP	0.7898	0.0000	-0.4656	-0.7898	0.0000	0.4656	0.8377	-0.0004	-0.0981
RohnEP	0.8106	0.0000	-0.5771	-0.8106	-0.0000	0.5771	0.5836	-0.0005	-0.0880
RohnFP	0.9277	0.0000	-0.7827	-0.9277	-0.0000	0.7827	0.3774	-0.0007	-0.0764
RohnGP	1.2867	0.0000	-1.0426	-1.2867	-0.0000	1.0426	0.2160	-0.0006	-0.0614
RohnHP	1.1001	0.0000	-1.0378	-1.1001	-0.0000	1.0378	0.0991	-0.0004	-0.0442
RohnIP	1.4048	0.0000	-1.1643	-1.4048	-0.0000	1.1643	0.0279	-0.0002	-0.0217
RohnJP	0.8374	0.0000	-0.6292	27.7526	-0.0983	-341.9525	0.0000	0.0000	0.0000
SNB-AP	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.7572	-0.0017	-0.0511
SNB-BP	0.4529	0.0000	-0.3025	-0.4529	0.0000	0.3025	1.4409	-0.0013	-0.0604
SNB-CP	0.6543	0.0000	-0.3841	-0.6543	0.0000	0.3841	1.1291	-0.0009	-0.0674
SNB-DP	0.7898	0.0000	-0.4656	-0.7898	0.0000	0.4656	0.8379	-0.0006	-0.0699
SNB-EP	0.8106	0.0000	-0.5771	-0.8106	0.0000	0.5771	0.5837	-0.0004	-0.0643
SNB-FP	0.9277	0.0000	-0.7827	-0.9277	0.0000	0.7827	0.3775	-0.0002	-0.0595
SNB-GP	1.0500	0.0000	-0.9526	-1.0500	0.0000	0.9526	0.2161	-0.0001	-0.0491
SNB-HP	1.1001	0.0000	-1.0378	-1.1001	0.0000	1.0378	0.0991	-0.0001	-0.0364
SNB-IP	1.4048	0.0000	-1.1643	-1.4048	0.0000	1.1643	0.0279	-0.0000	-0.0184
SNB-JP	0.8374	0.0000	-0.6292	48.7255	-0.0012	-494.3940	0.0000	0.0000	0.0000
RohnA1	0.6446	0.0000	-0.2657	-0.6446	-0.0000	0.2657	1.7585	-0.0022	0.0162
RohnA2	1.1009	0.0000	-0.3917	-1.1009	-0.0000	0.3917	1.7571	-0.0021	0.0163
RohnB1	1.0538	0.0000	-0.4051	-1.0538	-0.0000	0.4051	1.4427	-0.0020	0.0244
RohnB2	0.7194	0.0000	-0.3466	-0.7194	-0.0000	0.3466	1.4404	-0.0020	0.0246
RohnC1	0.6543	0.0000	-0.3841	-0.6543	0.0000	0.3841	1.1298	-0.0010	0.0309
RohnC2	0.6543	0.0000	-0.3841	-0.6543	-0.0000	0.3841	1.1287	-0.0016	0.0311
RohnD1	1.0017	0.0000	-0.5286	-1.0017	0.0000	0.5286	0.8379	-0.0002	0.0347
RohnD2	0.7898	0.0000	-0.4656	-0.7898	-0.0000	0.4656	0.8374	-0.0013	0.0349
RohnE1	0.8106	0.0000	-0.5771	-0.8106	0.0000	0.5771	0.5838	-0.0002	0.0336
RohnE2	0.8106	0.0000	-0.5771	-0.8106	-0.0000	0.5771	0.5841	-0.0005	0.0337
RohnF1	0.9277	0.0000	-0.7827	-0.9277	-0.0000	0.7827	0.3766	0.0005	0.0307
RohnF2	1.3907	0.0000	-0.9132	-1.3907	-0.0000	0.9132	0.3776	-0.0004	0.0308
RohnG1	1.1820	0.0000	-1.0066	-1.1820	0.0000	1.0066	0.2154	0.0004	0.0256
RohnG2	1.6035	0.0000	-1.0930	-1.6035	-0.0000	1.0930	0.2165	-0.0000	0.0257
RohnH1	1.1001	0.0000	-1.0378	-1.1001	0.0000	1.0378	0.0984	0.0004	0.0189
RohnH2	1.1001	0.0000	-1.0378	-1.1001	-0.0000	1.0378	0.0991	-0.0002	0.0189
RohnI1	1.4048	0.0000	-1.1643	-1.4048	-0.0000	1.1643	0.0276	0.0002	0.0094
RohnI2	1.4048	0.0000	-1.1643	-1.4048	-0.0000	1.1643	0.0280	-0.0000	0.0094
RohnJ1	0.8374	0.0000	-0.6292	8.4889	9.9648	149.6238	0.0000	0.0000	0.0000
RohnJ2	0.8374	0.0000	-0.6292	8.6753	-9.8834	149.9473	0.0000	0.0000	0.0000
SNB-A1	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.7576	-0.0017	0.0042
SNB-A2	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1398	1.7576	-0.0017	0.0043
SNB-B1	0.4529	0.0000	-0.3025	-0.4529	-0.0000	0.3025	1.4415	-0.0013	0.0127
SNB-B2	0.4529	0.0000	-0.3025	-0.4529	0.0000	0.3025	1.4414	-0.0013	0.0128
SNB-C1	0.6543	0.0000	-0.3841	-0.6543	-0.0000	0.3841	1.1297	-0.0009	0.0201
SNB-C2	0.6543	0.0000	-0.3841	-0.6543	0.0000	0.3841	1.1297	-0.0010	0.0202
SNB-D1	0.7898	0.0000	-0.4656	-0.7898	-0.0000	0.4656	0.8384	-0.0005	0.0249
SNB-D2	0.7898	0.0000	-0.4656	-0.7898	0.0000	0.4656	0.8384	-0.0007	0.0250
SNB-E1	0.8106	0.0000	-0.5771	-0.8106	-0.0000	0.5771	0.5840	-0.0003	0.0252
SNB-E2	0.8106	0.0000	-0.5771	-0.8106	0.0000	0.5771	0.5840	-0.0005	0.0253
SNB-F1	0.9277	0.0000	-0.7827	-0.9277	-0.0000	0.7827	0.3777	-0.0002	0.0249
SNB-F2	0.9277	0.0000	-0.7827	-0.9277	0.0000	0.7827	0.3777	-0.0003	0.0250
SNB-G1	1.0500	0.0000	-0.9526	-1.0500	-0.0000	0.9526	0.2160	0.0000	0.0214
SNB-G2	1.0500	0.0000	-0.9526	-1.0500	0.0000	0.9526	0.2160	-0.0003	0.0215
SNB-H1	1.1001	0.0000	-1.0378	-1.1001	-0.0000	1.0378	0.0989	0.0001	0.0163
SNB-H2	1.1001	0.0000	-1.0378	-1.1001	0.0000	1.0378	0.0989	-0.0003	0.0163
SNB-I1	1.4048	0.0000	-1.1643	-1.4048	-0.0000	1.1643	0.0275	0.0002	0.0083
SNB-I2	1.4048	0.0000	-1.1643	-1.4048	0.0000	1.1643	0.0275	-0.0003	0.0084
SNB-J1	0.8374	0.0000	-0.6292	16.1746	18.3277	227.0802	0.0000	0.0000	0.0000
SNB-J2	0.8374	0.0000	-0.6292	16.1929	-18.3595	227.5762	0.0000	0.0000	0.0000
RohnAaS	0.6035	0.0000	-0.1868	-0.6035	0.0000	0.1868	1.6778	-0.0004	-0.0881
RohnAbS	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.5985	-0.0004	-0.0903
RohnAcS	0.5616	0.0000	-0.1877	-0.5616	0.0000	0.1877	1.5196	0.0000	-0.0924

RohnBaS	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.3619	-0.0001	-0.0959
RohnBbS	2.2005	0.0000	-0.8685	-2.2005	0.0000	0.8685	1.2835	-0.0001	-0.0972
RohnBcS	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.2058	-0.0002	-0.0982
RohnCaS	2.0420	0.0000	-0.7183	-2.0420	0.0000	0.7183	1.0293	-0.0003	-0.0994
RohnCbS	2.8434	0.0000	-1.2921	-2.8434	0.0000	1.2921	0.9318	-0.0004	-0.0993
RohnDaS	2.8903	0.0000	-1.1394	-2.8903	0.0000	1.1394	0.7481	-0.0004	-0.0959
RohnDbS	0.4002	0.0000	-0.2443	-0.4002	0.0000	0.2443	0.6634	-0.0005	-0.0925
RohnEaS	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.5110	-0.0006	-0.0848
RohnEbS	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.4420	-0.0007	-0.0810
RohnFaS	0.5173	0.0000	-0.4499	-0.5173	-0.0000	0.4499	0.2929	-0.0008	-0.0696
RohnGaS	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.1541	-0.0006	-0.0534
RohnHaS	0.5674	0.0000	-0.5351	-0.5674	-0.0000	0.5351	0.0596	-0.0003	-0.0336
RohnIaS	0.8374	0.0000	-0.6292	-0.8374	-0.0000	0.6292	0.0106	-0.0001	-0.0113
SNB-AaS	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.6781	-0.0016	-0.0535
SNB-AbS	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.5988	-0.0016	-0.0559
SNB-AcS	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.5198	-0.0014	-0.0582
SNB-BaS	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.3622	-0.0012	-0.0624
SNB-BbS	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.2838	-0.0011	-0.0643
SNB-BcS	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.2060	-0.0010	-0.0660
SNB-CaS	0.3897	0.0000	-0.2213	-0.3896	-0.0000	0.2213	1.0295	-0.0008	-0.0689
SNB-CbS	0.3897	0.0000	-0.2213	-0.3896	-0.0000	0.2213	0.9320	-0.0007	-0.0697
SNB-DaS	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.7483	-0.0005	-0.0690
SNB-DbS	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.6635	-0.0005	-0.0671
SNB-EaS	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.5111	-0.0003	-0.0634
SNB-EbS	0.4104	0.0000	-0.3328	-0.4104	0.0000	0.3328	0.4421	-0.0003	-0.0617
SNB-FaS	0.5173	0.0000	-0.4499	-0.5173	-0.0000	0.4499	0.2929	-0.0002	-0.0550
SNB-GaS	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.1542	-0.0001	-0.0434
SNB-HaS	0.5674	0.0000	-0.5351	-0.5674	-0.0000	0.5351	0.0596	-0.0000	-0.0280
SNB-IaS	0.8374	0.0000	-0.6292	-0.8374	-0.0000	0.6292	0.0106	-0.0000	-0.0098
SNB-WL-A1S	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.7574	-0.0017	-0.0236
SNB-WL-A2S	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.7577	-0.0017	0.0041
SNB-WL-A3S	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.7574	-0.0017	-0.0235
SNB-WL-B1S	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.4412	-0.0013	-0.0240
SNB-WL-B2S	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.4415	-0.0013	0.0126
SNB-WL-B3S	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.4412	-0.0013	-0.0240
SNB-WL-C1S	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.1294	-0.0010	-0.0240
SNB-WL-C2S	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.1298	-0.0009	0.0199
SNB-WL-C3S	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.1294	-0.0009	-0.0240
SNB-WL-D1S	0.3897	0.0000	-0.2213	-0.3896	0.0000	0.2213	0.8382	-0.0007	-0.0233
SNB-WL-D2S	0.3897	0.0000	-0.2213	-0.3896	-0.0000	0.2213	0.8386	-0.0006	0.0243
SNB-WL-D3S	0.3897	0.0000	-0.2213	-0.3896	-0.0000	0.2213	0.8382	-0.0006	-0.0232
SNB-WL-E1S	0.4002	0.0000	-0.2443	-0.4002	0.0000	0.2443	0.5839	-0.0004	-0.0201
SNB-WL-E2S	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.5842	-0.0004	0.0248
SNB-WL-E3S	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.5839	-0.0004	-0.0201
SNB-WL-F1S	0.4104	0.0000	-0.3328	-0.4104	0.0000	0.3328	0.3777	-0.0003	-0.0186
SNB-WL-F2S	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.3779	-0.0003	0.0243
SNB-WL-F3S	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.3777	-0.0002	-0.0186
SNB-WL-G1S	0.5173	0.0000	-0.4499	-0.5173	0.0000	0.4499	0.2161	-0.0002	-0.0161
SNB-WL-G2S	0.5173	0.0000	-0.4499	-0.5173	-0.0000	0.4499	0.2163	-0.0001	0.0198
SNB-WL-G3S	0.5173	0.0000	-0.4499	-0.5173	-0.0000	0.4499	0.2161	-0.0001	-0.0161
SNB-WL-H1S	0.5327	0.0000	-0.5027	-0.5327	0.0000	0.5027	0.0991	-0.0001	-0.0131
SNB-WL-H2S	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.0992	-0.0001	0.0135
SNB-WL-H3S	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.0991	-0.0000	-0.0131
SNB-WL-I1S	0.5674	0.0000	-0.5351	-0.5674	0.0000	0.5351	0.0279	-0.0001	-0.0093
SNB-WL-I2S	0.5674	0.0000	-0.5351	-0.5674	-0.0000	0.5351	0.0280	-0.0000	0.0048
SNB-WL-I3S	0.5674	0.0000	-0.5351	-0.5674	-0.0000	0.5351	0.0279	0.0000	-0.0093
RohnAa1	0.4989	0.0000	-0.2059	-0.4989	0.0000	0.2059	1.6796	-0.0022	0.0183
RohnAa2	0.7887	0.0000	-0.2266	-0.7887	-0.0000	0.2266	1.6779	-0.0021	0.0185
RohnAb1	1.1155	-0.0500	-0.2477	-1.1155	0.0500	0.2477	1.6010	-0.0024	0.0204
RohnAb2	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.5983	-0.0022	0.0206
RohnAc1	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.5213	-0.0020	0.0224
RohnAc2	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.5190	-0.0022	0.0226
RohnBa1	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.3634	-0.0016	0.0262
RohnBa2	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.3614	-0.0020	0.0264
RohnBb1	2.1265	0.0000	-0.8442	-2.1265	0.0000	0.8442	1.2860	-0.0020	0.0279
RohnBb2	2.1265	0.0000	-0.8442	-2.1265	-0.0000	0.8442	1.2843	-0.0012	0.0281
RohnBc1	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.2068	-0.0012	0.0295
RohnBc2	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.2054	-0.0017	0.0297
RohnCa1	2.2052	0.0000	-0.7723	-2.2052	0.0000	0.7723	1.0306	-0.0012	0.0325

RohnCa2	2.3119	0.0000	-0.8083	-2.3119	-0.0000	0.8083	1.0298	-0.0010	0.0327
RohnCb1	2.4592	0.0000	-1.2021	-2.4592	0.0000	1.2021	0.9323	-0.0006	0.0339
RohnCb2	2.4592	0.0000	-1.2021	-2.4592	-0.0000	1.2021	0.9317	-0.0012	0.0340
RohnDa1	2.6273	0.0000	-1.0449	-2.6273	0.0000	1.0449	0.7483	-0.0004	0.0349
RohnDa2	2.6273	0.0000	-1.0449	-2.6273	-0.0000	1.0449	0.7482	-0.0008	0.0351
RohnDb1	0.4002	0.0000	-0.2443	-0.4002	0.0000	0.2443	0.6618	0.0007	0.0346
RohnDb2	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.6618	-0.0016	0.0347
RohnEa1	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.5097	0.0006	0.0331
RohnEa2	0.4104	0.0000	-0.3328	-0.4104	0.0000	0.3328	0.5102	-0.0010	0.0332
RohnEb1	0.4104	0.0000	-0.3328	-0.4104	0.0000	0.3328	0.4406	0.0007	0.0321
RohnEb2	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.4413	-0.0009	0.0322
RohnFa1	0.5173	0.0000	-0.4499	-0.5173	0.0000	0.4499	0.2877	0.0026	0.0286
RohnFa2	0.5173	0.0000	-0.4499	-0.5173	-0.0000	0.4499	0.2887	-0.0024	0.0287
RohnGa1	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.1490	0.0026	0.0226
RohnGa2	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.1498	-0.0023	0.0226
RohnHa1	0.5674	0.0000	-0.5351	-0.5674	0.0000	0.5351	0.0537	0.0030	0.0144
RohnHa2	0.5674	0.0000	-0.5351	-0.5674	-0.0000	0.5351	0.0542	-0.0028	0.0145
RohnIa1	0.8374	0.0000	-0.6292	-0.8374	0.0000	0.6292	0.0063	0.0021	0.0049
RohnIa2	0.8374	0.0000	-0.6292	-0.8374	-0.0000	0.6292	0.0065	-0.0020	0.0049
SNB-Aa1	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.6784	-0.0016	0.0064
SNB-Aa2	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.6785	-0.0017	0.0065
SNB-Ab1	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.5994	-0.0015	0.0086
SNB-Ab2	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.5993	-0.0015	0.0087
SNB-Ac1	0.1882	0.0000	-0.1397	-0.1882	-0.0000	0.1397	1.5201	-0.0014	0.0107
SNB-Ac2	0.1882	0.0000	-0.1397	-0.1882	0.0000	0.1397	1.5201	-0.0015	0.0108
SNB-Ba1	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.3625	-0.0011	0.0147
SNB-Ba2	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.3625	-0.0013	0.0148
SNB-Bb1	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.2842	-0.0010	0.0167
SNB-Bb2	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.2842	-0.0012	0.0168
SNB-Bc1	0.2646	0.0000	-0.1628	-0.2646	-0.0000	0.1628	1.2062	-0.0008	0.0185
SNB-Bc2	0.2646	0.0000	-0.1628	-0.2646	0.0000	0.1628	1.2062	-0.0012	0.0186
SNB-Ca1	0.3897	0.0000	-0.2213	-0.3896	-0.0000	0.2213	1.0291	-0.0003	0.0221
SNB-Ca2	0.3897	0.0000	-0.2213	-0.3896	0.0000	0.2213	1.0291	-0.0014	0.0222
SNB-Cb1	0.3897	0.0000	-0.2213	-0.3896	-0.0000	0.2213	0.9314	-0.0001	0.0237
SNB-Cb2	0.3897	0.0000	-0.2213	-0.3896	0.0000	0.2213	0.9314	-0.0013	0.0238
SNB-Da1	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.7473	0.0002	0.0256
SNB-Da2	0.4002	0.0000	-0.2443	-0.4002	0.0000	0.2443	0.7473	-0.0013	0.0257
SNB-Db1	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.6616	0.0008	0.0257
SNB-Db2	0.4002	0.0000	-0.2443	-0.4002	-0.0000	0.2443	0.6616	-0.0017	0.0258
SNB-Ea1	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.5102	0.0003	0.0255
SNB-Ea2	0.4104	0.0000	-0.3328	-0.4104	0.0000	0.3328	0.5102	-0.0010	0.0256
SNB-Eb1	0.4104	0.0000	-0.3328	-0.4104	0.0000	0.3328	0.4411	0.0004	0.0254
SNB-Eb2	0.4104	0.0000	-0.3328	-0.4104	-0.0000	0.3328	0.4411	-0.0010	0.0255
SNB-Fa1	0.5173	0.0000	-0.4499	-0.5173	-0.0000	0.4499	0.2876	0.0027	0.0236
SNB-Fa2	0.5173	0.0000	-0.4499	-0.5173	0.0000	0.4499	0.2876	-0.0030	0.0236
SNB-Ga1	0.5327	0.0000	-0.5027	-0.5327	-0.0000	0.5027	0.1493	0.0024	0.0192
SNB-Ga2	0.5327	0.0000	-0.5027	-0.5327	0.0000	0.5027	0.1493	-0.0026	0.0192
SNB-Ha1	0.5674	0.0000	-0.5351	-0.5674	0.0000	0.5351	0.0543	0.0026	0.0126
SNB-Ha2	0.5674	0.0000	-0.5351	-0.5674	0.0000	0.5351	0.0543	-0.0027	0.0127
SNB-Ia1	0.8374	0.0000	-0.6292	-0.8374	0.0000	0.6292	0.0059	0.0024	0.0045
SNB-Ia2	0.8374	0.0000	-0.6292	-0.8374	-0.0000	0.6292	0.0059	-0.0024	0.0045

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	0.01	1.03	4.70	26.18	-16.78	5.44	-2.41
Rohn-LA11	2.04	-1.56	2.67	12.14	37.60	2.12	8.05
Rohn-LA12	-2.16	1.13	2.85	5.75	-17.25	1.38	-2.88
Rohn-LA2P	0.01	-26.18	16.78	-32.80	24.59	-11.79	8.27
Rohn-LA21	2.04	-12.15	-37.59	-36.29	-87.35	-9.68	-24.97
Rohn-LA22	-2.16	-5.75	17.25	2.34	4.59	-0.68	4.36
Rohn-LA3P	0.01	32.80	-24.59	35.69	-11.36	13.69	-7.18
Rohn-LA31	2.04	36.29	87.35	42.21	104.60	15.69	38.36
Rohn-LA32	-2.16	-2.34	-4.59	-25.71	50.01	-5.61	9.08
Rohn-LA4P	0.01	-35.69	11.36	-18.74	22.27	-10.88	6.72
Rohn-LA41	2.04	-42.21	-104.60	-63.72	-116.68	-21.17	-44.22

Rohn-LA42	-2.16	25.72	-50.01	48.10	-76.71	14.75	-25.32
Rohn-LB1P	3.01	18.07	-11.50	10.89	0.71	5.79	-2.16
Rohn-LB11	8.54	62.05	123.25	117.31	224.08	35.84	69.41
Rohn-LB12	-2.43	-44.84	82.49	-111.56	208.57	-31.25	58.16
Rohn-LB2P	3.01	-10.90	-0.71	-4.23	52.89	-3.02	10.43
Rohn-LB21	8.53	-117.31	-224.08	-144.37	-218.26	-52.29	-88.39
Rohn-LB22	-2.42	111.56	-208.57	143.68	-212.51	51.00	-84.14
Rohn-LB3P	3.01	4.23	-52.89	4.07	3.06	1.66	-9.96
Rohn-LB31	8.54	144.37	218.25	80.45	164.20	44.93	76.42
Rohn-LB32	-2.43	-143.68	212.50	-80.54	162.75	-44.81	74.98
Rohn-LB4P	3.01	-4.07	-3.06	-6.32	147.60	-2.08	28.90
Rohn-LB41	8.53	-80.45	-164.20	17.07	154.09	-12.66	-2.02
Rohn-LB42	-2.42	80.54	-162.75	-12.01	150.88	13.69	-2.37
Rohn-LC1P	3.01	6.32	-147.59	1.80	87.62	1.22	-9.00
Rohn-LC11	8.52	-17.07	-154.09	-46.58	-2.36	-9.55	-23.47
Rohn-LC12	-2.41	12.01	-150.88	48.74	-5.88	9.11	-23.52
Rohn-LC2P	3.01	-1.80	-87.61	1.26	107.12	-0.08	2.92
Rohn-LC21	8.53	46.58	2.36	-5.85	142.09	6.09	21.60
Rohn-LC22	-2.42	-48.74	5.88	10.79	132.33	-5.68	20.67
Rohn-LC3P	3.01	-1.26	-107.12	-3.16	231.69	-0.66	18.70
Rohn-LC31	8.53	5.85	-142.09	91.84	319.28	14.65	26.58
Rohn-LC32	-2.42	-10.79	-132.32	-98.90	340.82	-16.45	31.27
Rohn-LD1P	3.01	3.16	-231.69	6.57	398.13	1.46	24.99
Rohn-LD11	8.49	-91.84	-319.28	-224.52	47.65	-47.45	-40.74
Rohn-LD12	-2.38	98.89	-340.82	232.29	30.41	49.67	-46.56
Rohn-LD2P	3.01	-6.57	-398.13	-2.00	182.33	-1.28	-32.31
Rohn-LD21	8.59	224.52	-47.65	314.39	760.84	80.59	106.64
Rohn-LD22	-2.48	-232.29	-30.40	-314.65	766.69	-81.78	110.09
Rohn-LD3P	3.01	2.00	-182.33	-0.58	693.83	0.21	76.83
Rohn-LD31	8.42	-314.37	-760.85	-298.47	97.27	-91.91	-99.51
Rohn-LD32	-2.31	314.63	-766.70	300.13	99.08	92.19	-100.12
Rohn-LE1P	3.01	0.58	-693.83	11.78	277.44	1.86	-62.53
Rohn-LE11	8.57	298.47	-97.27	137.25	564.13	65.35	70.02
Rohn-LE12	-2.46	-300.13	-99.07	-132.58	550.60	-64.90	67.72
Rohn-LE2P	3.01	-11.78	-277.44	-25.56	230.56	-5.59	-7.02
Rohn-LE21	8.52	-137.24	-564.13	111.54	450.50	-3.84	-16.99
Rohn-LE22	-2.41	132.57	-550.60	-123.76	488.33	1.32	-9.31
Rohn-LE3P	3.02	25.56	-230.56	26.22	1068.01	7.78	125.77
Rohn-LE31	8.46	-111.54	-450.50	-429.36	179.16	-81.12	-40.69
Rohn-LE32	-2.34	123.74	-488.34	464.28	103.05	88.19	-57.78
Rohn-LF1P	3.00	-26.22	-1068.01	-37.51	118.36	-6.37	-94.98
Rohn-LF11	8.73	429.36	-179.15	762.54	1675.77	119.05	149.48
Rohn-LF12	-2.63	-464.28	-103.03	-783.90	1734.10	-124.67	162.91
Rohn-LF2P	3.03	37.50	-118.36	27.90	1574.38	6.54	145.65
Rohn-LF21	8.19	-762.46	-1675.81	-913.92	-286.70	-167.43	-196.00
Rohn-LF22	-2.07	783.81	-1734.14	945.86	-355.88	172.75	-208.74
Rohn-LG1P	3.00	-27.90	-1574.38	-24.59	-49.22	-5.25	-162.40
Rohn-LG11	8.88	913.91	286.72	1011.26	2001.10	192.28	228.50
Rohn-LG12	-2.78	-945.85	355.90	-1022.87	2034.17	-196.63	238.71
Rohn-LG2P	3.02	24.59	49.23	12.31	1824.85	3.69	187.47
Rohn-LG21	8.17	-1011.17	-2001.15	-1103.53	-415.81	-211.20	-241.39
Rohn-LG22	-2.05	1022.77	-2034.22	1108.32	-425.93	212.84	-245.70
Rohn-LH1P	3.01	-12.32	-1824.85	0.45	-117.06	-1.19	-194.27
Rohn-LH11	8.87	1103.52	415.83	1239.73	2389.94	234.02	280.21
Rohn-LH12	-2.77	-1108.31	425.95	-1242.38	2397.29	-234.76	281.95
Rohn-LH2P	3.01	-0.46	117.06	-1.95	2324.09	-0.24	244.24
Rohn-LH21	7.83	-1239.60	-2390.01	-1447.21	-620.36	-268.32	-300.63
Rohn-LH22	-1.72	1242.24	-2397.37	1451.87	-624.69	269.05	-301.80
Rohn-LI1P	3.01	1.94	-2324.09	-8.08	-121.90	-0.61	-244.68
Rohn-LI11	8.75	1447.19	620.38	1865.41	3695.51	330.84	431.04
Rohn-LI12	-2.64	-1451.86	624.71	-1852.56	3674.35	-330.03	429.36
Rohn-LI2P	3.01	8.08	121.90	52.88	5324.52	6.10	544.85
Rohn-LI21	7.43	-1865.23	-3695.61	-1916.17	1402.86	-377.65	-228.98
Rohn-LI22	-1.33	1852.38	-3674.44	1866.46	1497.50	371.40	-217.41
Rohn-H1P	0.20	2.23	0.09	3.04	-1.06	0.70	-0.13
Rohn-H11	-0.06	0.09	-1.04	-0.02	1.20	0.01	0.02
Rohn-H12	0.38	-3.06	1.03	-3.30	-0.06	-0.85	0.13
Rohn-H2P	-0.52	6.64	-1.92	6.91	-3.48	1.53	-0.61
Rohn-H21	-0.11	1.19	-3.21	0.06	-0.08	0.14	-0.37

Rohn-H22	0.15	-6.69	0.48	-6.18	-1.10	-1.45	-0.07
SNB-LA1P	-0.03	4.06	47.60	14.54	-13.27	3.72	6.86
SNB-LA11	0.27	50.83	-13.88	13.53	17.92	12.86	0.81
SNB-LA12	-0.28	-54.96	-26.55	-21.96	-5.14	-15.37	-6.33
SNB-LA2P	-0.03	-14.54	13.27	-19.66	35.33	-6.84	9.71
SNB-LA21	0.27	-13.53	-17.92	-7.54	-42.44	-4.21	-12.06
SNB-LA22	-0.28	21.96	5.14	18.04	-13.29	7.99	-1.63
SNB-LA3P	-0.03	19.66	-35.33	16.19	-33.70	7.17	-13.80
SNB-LA31	0.27	7.54	42.44	9.56	71.64	3.42	22.80
SNB-LA32	-0.28	-18.04	13.29	-18.21	47.71	-7.24	12.19
SNB-LA4P	-0.03	-16.19	33.70	-10.43	101.17	-5.32	26.96
SNB-LA41	0.27	-9.56	-71.64	-1.23	-63.61	-2.16	-27.03
SNB-LA42	-0.28	18.21	-47.71	8.39	-46.78	5.32	-18.88
SNB-LB1P	-0.06	9.58	153.61	4.63	45.03	2.84	39.70
SNB-LB11	3.23	89.71	74.36	48.42	101.68	27.60	35.18
SNB-LB12	-3.03	-95.36	60.94	-51.68	94.64	-29.38	31.09
SNB-LB2P	-0.06	-4.63	-45.03	-2.68	112.04	-1.46	13.39
SNB-LB21	3.22	-48.42	-101.68	-39.54	-2.33	-17.58	-20.79
SNB-LB22	-3.02	51.68	-94.64	41.74	1.99	18.67	-18.52
SNB-LB3P	-0.06	2.68	-112.04	2.19	-40.47	0.97	-30.48
SNB-LB31	3.23	39.54	2.33	59.52	190.98	19.79	38.63
SNB-LB32	-3.03	-41.75	-1.99	-59.80	188.36	-20.29	37.24
SNB-LB4P	-0.06	-2.19	40.47	-0.19	499.26	-0.47	107.88
SNB-LB41	3.22	-59.52	-190.98	-39.08	56.96	-19.70	-26.78
SNB-LB42	-3.02	59.80	-188.36	41.82	58.57	20.31	-25.93
SNB-LC1P	0.03	0.19	-56.54	0.30	175.10	0.07	17.79
SNB-LC11	8.18	158.46	-28.60	68.07	180.58	33.98	22.80
SNB-LC12	-8.11	-160.45	-29.89	-67.92	180.33	-34.26	22.57
SNB-LC2P	0.03	-0.30	-175.10	0.96	75.70	0.10	-14.87
SNB-LC21	8.16	-68.07	-180.58	43.44	337.65	-3.68	23.49
SNB-LC22	-8.09	67.92	-180.33	-43.81	336.35	3.60	23.33
SNB-LC3P	0.03	-0.96	-75.70	-0.35	551.86	-0.20	71.47
SNB-LC31	8.16	-43.44	-337.65	-41.33	-18.76	-12.72	-53.46
SNB-LC32	-8.09	43.81	-336.35	45.59	-15.96	13.41	-52.85
SNB-LD1P	-0.03	0.45	52.98	2.93	678.99	0.51	109.88
SNB-LD11	10.68	272.21	-5.76	2.25	544.35	41.17	80.79
SNB-LD12	-10.53	-276.65	-9.01	-3.21	540.41	-41.98	79.71
SNB-LD2P	-0.03	-2.93	-678.98	-0.16	84.82	-0.46	-88.94
SNB-LD21	10.68	-2.24	-544.35	319.10	831.53	47.38	42.94
SNB-LD22	-10.53	3.20	-540.41	-316.38	833.30	-46.84	43.80
SNB-LD3P	-0.03	0.16	-84.82	-0.74	1488.45	-0.09	210.76
SNB-LD31	10.52	-319.08	-831.54	-391.12	294.00	-106.51	-80.62
SNB-LD32	-10.37	316.36	-833.31	393.36	295.91	106.44	-80.60
SNB-LE1P	-0.29	1.36	-422.39	9.73	1053.58	1.66	94.75
SNB-LE11	21.66	610.31	-178.89	204.74	1183.21	122.26	150.65
SNB-LE12	-21.28	-612.88	-182.10	-205.86	1171.39	-122.81	148.39
SNB-LE2P	-0.29	-9.73	-1053.57	-6.33	480.94	-2.40	-85.71
SNB-LE21	21.59	-204.73	-1183.22	398.36	1638.65	28.96	68.11
SNB-LE22	-21.21	205.85	-1171.39	-384.44	1653.84	-26.71	72.15
SNB-LE3P	-0.29	6.33	-480.94	4.60	2759.18	1.64	342.04
SNB-LE31	21.44	-398.33	-1638.66	-863.17	-391.41	-189.21	-304.48
SNB-LE32	-21.06	384.42	-1653.85	850.80	-403.93	185.27	-308.64
SNB-LF1P	-0.02	-4.47	-1754.14	-1.29	-125.50	-0.58	-187.96
SNB-LF11	37.82	1449.53	302.18	1595.47	3117.53	304.17	341.58
SNB-LF12	-37.80	-1438.19	313.85	-1580.95	3127.27	-301.59	343.72
SNB-LF2P	-0.02	1.29	125.50	3.06	3411.64	0.44	353.74
SNB-LF21	36.56	-1595.36	-3117.61	-1686.97	-1116.61	-327.86	-422.92
SNB-LF22	-36.55	1580.83	-3127.34	1676.41	-1126.10	325.35	-424.84
SNB-LG1P	0.27	-2.99	-2259.24	0.16	219.94	-0.28	-203.94
SNB-LG11	62.34	2683.98	694.74	2771.02	5737.04	544.90	642.44
SNB-LG12	-62.67	-2673.43	704.18	-2756.90	5744.80	-542.44	644.15
SNB-LG2P	0.27	-0.16	-219.94	1.90	5793.94	0.17	557.47
SNB-LG21	60.51	-2770.82	-5737.16	-2447.94	-1394.08	-521.26	-712.27
SNB-LG22	-60.84	2756.70	-5744.92	2446.40	-1396.99	519.70	-713.34
SNB-LH1P	0.09	-1.77	-4072.33	4.17	-130.26	0.24	-420.35
SNB-LH11	60.52	3595.34	881.04	3271.25	6339.78	685.84	721.19
SNB-LH12	-60.71	-3594.67	883.33	-3266.35	6337.66	-685.29	721.20
SNB-LH2P	0.09	-4.17	130.27	-1.98	6729.34	-0.62	686.17
SNB-LH21	57.77	-3270.98	-6339.95	-3362.52	-1723.28	-662.52	-805.29

SNB-LH22	-57.95	3266.08	-6337.83	3365.88	-1718.94	662.36	-804.64
SNB-LI1P	0.00	2.06	-4855.95	8.42	-42.46	1.05	-489.92
SNB-LI11	20.88	4804.76	1055.28	5323.17	9647.96	1011.59	1069.04
SNB-LI12	-21.01	-4808.25	1050.84	-5317.99	9641.07	-1011.42	1067.91
SNB-LI2P	-0.00	-8.42	42.46	-2.05	12995.33	-1.05	1304.09
SNB-LI21	16.77	-5322.69	-9648.23	-5395.56	2622.10	-1070.50	-701.74
SNB-LI22	-16.90	5317.51	-9641.34	5403.45	2629.73	1070.77	-700.29
SNB-H1aP	-1.76	29.58	66.76	113.70	-0.26	70.92	32.91
SNB-H1bP	-1.76	-113.70	0.26	-19.39	34.93	-65.87	17.42
SNB-H1cP	-2.06	39.61	-35.72	101.48	-1.63	69.83	-18.49
SNB-H1dP	-2.06	-101.47	1.63	-33.67	35.22	-66.89	18.24
SNB-H1eP	6.21	31.83	-34.77	107.27	-2.04	68.84	-18.22
SNB-H1fP	6.21	-107.27	2.04	-29.98	-66.57	-67.93	-31.94
SNB-H2aP	-7.55	151.34	53.28	113.51	2.64	97.99	20.69
SNB-H2bP	-7.55	-113.51	-2.64	8.72	20.25	-38.77	6.52
SNB-H2cP	0.64	86.21	-25.30	98.25	3.58	68.25	-8.04
SNB-H2dP	0.63	-98.25	-3.58	-86.92	24.90	-68.51	7.89
SNB-H2eP	6.70	-11.69	-19.97	115.08	1.34	38.25	-6.89
SNB-H2fP	6.70	-115.08	-1.34	-151.10	-53.28	-98.48	-20.21
SNB-H3aP	-5.99	258.97	34.74	153.64	-3.93	121.91	9.11
SNB-H3bP	-5.98	-153.64	3.93	29.18	11.76	-36.77	4.64
SNB-H3cP	0.03	128.63	-20.01	140.42	10.62	79.50	-2.78
SNB-H3dP	0.03	-140.42	-10.62	-128.12	19.89	-79.35	2.74
SNB-H3eP	5.91	-29.52	-11.51	153.74	-3.91	36.70	-4.56
SNB-H3fP	5.91	-153.74	3.91	-259.11	-34.83	-121.98	-9.13
SNB-H4aP	-6.55	352.98	17.57	245.38	-15.09	147.16	0.61
SNB-H4bP	-6.55	-245.38	15.09	-32.16	4.36	-68.26	4.78
SNB-H4cP	-0.09	209.06	-10.54	231.96	32.70	108.47	5.45
SNB-H4dP	-0.10	-231.96	-32.70	-209.02	10.38	-108.46	-5.49
SNB-H4eP	6.62	32.50	-4.31	245.17	-15.28	68.29	-4.82
SNB-H4fP	6.63	-245.17	15.28	-353.04	-17.50	-147.12	-0.54
SNB-H5aP	-10.26	621.17	26.99	320.62	-24.55	198.41	0.52
SNB-H5bP	-10.25	-320.62	24.56	126.17	0.73	-40.96	5.33
SNB-H5cP	-0.34	273.03	-19.90	298.25	54.96	120.35	7.39
SNB-H5dP	-0.35	-298.25	-54.96	-272.64	19.67	-120.27	-7.44
SNB-H5eP	10.57	-125.30	-0.77	319.86	-24.62	40.99	-5.35
SNB-H5fP	10.58	-319.86	24.62	-621.84	-26.71	-198.39	-0.44
SNB-H6aP	-47.71	607.81	8.71	521.15	-23.81	207.98	-2.77
SNB-H6bP	-47.70	-521.16	23.78	-131.09	-8.19	-120.16	2.87
SNB-H6cP	-0.13	479.18	-15.88	415.69	45.44	164.86	5.45
SNB-H6dP	-0.15	-415.69	-45.44	-479.73	15.99	-164.96	-5.43
SNB-H6eP	47.83	131.83	8.43	520.94	-22.46	120.25	-2.60
SNB-H6fP	47.84	-520.93	22.49	-607.88	-8.97	-207.95	2.50
SNB-H7aP	-42.87	690.00	-7.73	757.87	-29.86	236.97	-6.14
SNB-H7bP	-42.86	-757.87	29.83	-512.30	-16.67	-207.89	2.14
SNB-H7cP	0.03	703.50	-12.62	667.17	53.72	224.35	6.73
SNB-H7dP	-0.01	-667.17	-53.72	-703.45	12.76	-224.34	-6.70
SNB-H7eP	42.85	512.38	16.89	758.03	-28.70	207.93	-1.95
SNB-H7fP	42.87	-758.03	28.73	-690.18	7.44	-237.03	5.94
SNB-H8aP	-11.92	1000.85	-13.65	890.75	-32.44	278.56	-6.78
SNB-H8bP	-11.90	-890.75	32.43	-598.81	-8.00	-219.36	3.59
SNB-H8cP	-0.08	837.98	5.08	875.01	63.74	252.27	10.14
SNB-H8dP	-0.12	-875.01	-63.74	-838.49	-5.15	-252.35	-10.15
SNB-H8eP	12.01	599.34	7.92	890.58	-32.23	219.41	-3.59
SNB-H8fP	12.03	-890.58	32.24	-1000.91	13.84	-278.55	6.79
SNB-H9aP	-29.02	1098.32	-18.90	1039.56	-38.25	286.11	-7.63
SNB-H9bP	-29.00	-1039.56	38.22	-786.04	8.02	-244.32	6.18
SNB-H9cP	-0.00	1025.15	25.99	991.73	75.13	269.93	13.53
SNB-H9dP	-0.05	-991.73	-75.13	-1025.20	-26.01	-269.94	-13.54
SNB-H9eP	29.04	786.12	-8.05	1039.51	-38.19	244.32	-6.20
SNB-H9fP	29.06	-1039.51	38.23	-1098.41	18.99	-286.12	7.67

*** Analysis Results for Load Case No. 3 "4: 1.2D + 1.0Dg + 1.0E" - Number of iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "4: 1.2D + 1.0Dg + 1.0E":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	0.1395	9.999e-005	-0.01534	0.0000	0.0796	-0.0008	4.472	9.999e-005	180
RohnBP	0.1115	0.0001227	-0.01606	0.0000	0.0787	-0.0004	5.233	0.0001227	160
RohnCP	0.08464	0.0001146	-0.01586	-0.0000	0.0731	-0.0003	5.994	0.0001146	140
RohnDP	0.06077	9.869e-005	-0.01484	-0.0000	0.0622	-0.0002	6.756	9.869e-005	120
RohnEP	0.04112	7.468e-005	-0.0125	-0.0001	0.0486	-0.0001	7.522	7.468e-005	99.99
RohnFP	0.02594	4.385e-005	-0.01036	-0.0001	0.0357	-0.0001	8.294	4.385e-005	79.99
RohnGP	0.01443	1.717e-005	-0.008039	-0.0001	0.0270	-0.0001	9.069	1.717e-005	59.99
RohnHP	0.006382	2.553e-006	-0.005609	-0.0000	0.0177	-0.0000	9.847	2.553e-006	39.99
RohnIP	0.001676	-2.973e-006	-0.002694	-0.0000	0.0067	-0.0000	10.63	-2.973e-006	20
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	0.1395	0.0001679	-0.007763	-0.0000	0.0733	-0.0000	2.472	0.0001679	180
SNB-BP	0.1115	0.0001506	-0.008618	-0.0000	0.0739	-0.0000	3.233	0.0001506	160
SNB-CP	0.08465	0.0001365	-0.009051	-0.0001	0.0680	-0.0000	3.993	0.0001365	140
SNB-DP	0.06078	0.0001173	-0.008817	-0.0001	0.0542	-0.0000	4.756	0.0001173	120
SNB-EP	0.04113	9.182e-005	-0.007665	-0.0001	0.0430	-0.0000	5.522	9.182e-005	99.99
SNB-FP	0.02594	6.015e-005	-0.00683	-0.0001	0.0299	-0.0000	6.294	6.015e-005	79.99
SNB-GP	0.01443	3.151e-005	-0.005452	-0.0001	0.0167	-0.0000	7.069	3.151e-005	59.99
SNB-HP	0.006383	1.221e-005	-0.003919	-0.0000	0.0093	-0.0000	7.847	1.221e-005	40
SNB-IP	0.001676	2.297e-006	-0.001927	-0.0000	0.0008	-0.0000	8.63	2.297e-006	20
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.1394	0.0002078	-0.006378	-0.0007	0.0802	-0.0012	-2.027	-3.752	180
RohnA2	0.1395	0.0002061	-0.006402	0.0003	0.0806	-0.0004	-2.027	3.753	180
RohnB1	0.1115	0.0001693	-0.00572	-0.0000	0.0797	-0.0012	-2.449	-4.435	160
RohnB2	0.1115	0.0001581	-0.005721	-0.0001	0.0799	0.0004	-2.449	4.435	160
RohnC1	0.08457	0.0001775	-0.004993	-0.0002	0.0729	-0.0015	-2.87	-5.117	140
RohnC2	0.08461	0.0001184	-0.005001	0.0001	0.0729	0.0010	-2.87	5.117	140
RohnD1	0.06066	0.0001649	-0.00421	-0.0005	0.0628	-0.0015	-3.287	-5.798	120
RohnD2	0.06069	8.743e-005	-0.00422	0.0004	0.0628	0.0011	-3.287	5.798	120
RohnE1	0.04105	0.0001197	-0.00326	-0.0002	0.0487	-0.0012	-3.699	-6.479	100
RohnE2	0.04108	8.269e-005	-0.00328	0.0000	0.0487	0.0010	-3.699	6.479	100
RohnF1	0.02583	0.0001041	-0.002495	-0.0006	0.0395	-0.0011	-4.108	-7.16	80
RohnF2	0.02586	3.568e-005	-0.002525	0.0004	0.0396	0.0009	-4.108	7.16	80
RohnG1	0.01436	6.258e-005	-0.001828	-0.0002	0.0279	-0.0008	-4.513	-7.842	60
RohnG2	0.01439	1.558e-005	-0.001854	0.0001	0.0279	0.0007	-4.513	7.842	60
RohnH1	0.006314	4.315e-005	-0.001219	-0.0002	0.0186	-0.0005	-4.914	-8.523	40
RohnH2	0.00633	-9.542e-006	-0.001234	0.0001	0.0186	0.0005	-4.914	8.523	40
RohnI1	0.001625	2.444e-005	-0.0005804	-0.0005	0.0091	-0.0003	-5.313	-9.206	20
RohnI2	0.001633	-1.507e-005	-0.0005868	0.0005	0.0092	0.0003	-5.313	9.206	20
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	0.1395	0.0001674	-0.002869	-0.0059	0.0837	-0.0001	-1.027	-2.02	180
SNB-A2	0.1395	0.000169	-0.002873	0.0058	0.0836	0.0001	-1.027	2.021	180
SNB-B1	0.1115	0.0001501	-0.002249	-0.0038	0.0813	-0.0001	-1.449	-2.703	160
SNB-B2	0.1115	0.0001519	-0.002252	0.0037	0.0813	0.0001	-1.449	2.703	160
SNB-C1	0.08464	0.0001347	-0.001689	-0.0042	0.0757	-0.0002	-1.869	-3.384	140
SNB-C2	0.08464	0.0001389	-0.001695	0.0041	0.0757	0.0002	-1.869	3.385	140
SNB-D1	0.06075	0.0001146	-0.001239	-0.0069	0.0670	-0.0003	-2.287	-4.066	120
SNB-D2	0.06075	0.0001205	-0.001248	0.0068	0.0669	0.0003	-2.287	4.066	120
SNB-E1	0.0411	9.169e-005	-0.0009185	-0.0042	0.0506	-0.0003	-2.699	-4.747	100
SNB-E2	0.0411	9.243e-005	-0.000932	0.0041	0.0506	0.0003	-2.699	4.747	100
SNB-F1	0.02591	5.684e-005	-0.0006739	-0.0062	0.0428	-0.0002	-3.108	-5.428	80
SNB-F2	0.02591	6.377e-005	-0.0006894	0.0060	0.0428	0.0002	-3.108	5.428	80
SNB-G1	0.0144	3.964e-005	-0.0004759	-0.0081	0.0328	-0.0003	-3.513	-6.11	60
SNB-G2	0.0144	2.363e-005	-0.0004896	0.0080	0.0328	0.0003	-3.513	6.11	60
SNB-H1	0.00635	2.253e-005	-0.000307	-0.0075	0.0227	-0.0003	-3.914	-6.79	40
SNB-H2	0.00635	2.2e-006	-0.0003166	0.0074	0.0227	0.0003	-3.914	6.791	40
SNB-I1	0.001638	1.657e-005	-0.0001473	-0.0057	0.0122	-0.0002	-4.312	-7.472	20
SNB-I2	0.001638	-1.176e-005	-0.0001516	0.0057	0.0122	0.0002	-4.312	7.472	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	0.1325	0.0001007	-0.01558	0.0000	0.0806	-0.0007	4.662	0.0001007	175
RohnAbS	0.1254	0.0001073	-0.01578	0.0002	0.0801	-0.0006	4.852	0.0001073	170
RohnAcS	0.1185	0.0001233	-0.01594	0.0001	0.0800	-0.0005	5.042	0.0001233	165
RohnBaS	0.1047	0.0001237	-0.0161	0.0000	0.0784	-0.0004	5.423	0.0001237	155
RohnBbS	0.09784	0.0001207	-0.01611	-0.0000	0.0769	-0.0003	5.613	0.0001207	150
RohnBcS	0.09122	0.000118	-0.01601	-0.0000	0.0757	-0.0003	5.803	0.000118	145
RohnCaS	0.07641	0.0001098	-0.01566	-0.0000	0.0689	-0.0002	6.247	0.0001098	133.3
RohnCbS	0.06844	0.0001038	-0.01533	-0.0000	0.0677	-0.0002	6.502	0.0001038	126.6
RohnDaS	0.05384	9.338e-005	-0.01421	-0.0001	0.0570	-0.0002	7.011	9.338e-005	113.3
RohnDbS	0.04731	8.405e-005	-0.01339	-0.0001	0.0550	-0.0001	7.267	8.405e-005	106.6
RohnEaS	0.03581	6.432e-005	-0.01185	-0.0001	0.0438	-0.0001	7.779	6.432e-005	93.33
RohnEbS	0.0307	5.348e-005	-0.01113	-0.0001	0.0433	-0.0001	8.037	5.348e-005	86.65
RohnFaS	0.02017	2.666e-005	-0.009248	-0.0001	0.0333	-0.0001	8.682	2.666e-005	69.99
RohnGaS	0.01042	6.567e-006	-0.006861	-0.0000	0.0229	-0.0000	9.458	6.567e-006	49.99
RohnHaS	0.004064	-1.584e-006	-0.004186	-0.0000	0.0136	-0.0000	10.24	-1.584e-006	30
RohnIaS	0.0008892	-2.634e-006	-0.001371	0.0000	0.0051	-0.0000	11.03	-2.634e-006	9.999
SNB-AaS	0.1325	0.000163	-0.008013	-0.0001	0.0823	-0.0000	2.662	0.000163	175
SNB-AbS	0.1254	0.0001552	-0.008247	-0.0000	0.0793	-0.0000	2.852	0.0001552	170
SNB-AcS	0.1185	0.0001545	-0.008447	-0.0000	0.0814	-0.0000	3.042	0.0001545	165
SNB-BaS	0.1047	0.0001479	-0.008776	-0.0000	0.0798	-0.0000	3.422	0.0001479	155
SNB-BbS	0.09785	0.0001445	-0.008904	-0.0000	0.0763	-0.0000	3.612	0.0001445	150
SNB-BcS	0.09123	0.0001409	-0.008993	-0.0000	0.0772	-0.0000	3.802	0.0001409	145
SNB-CaS	0.07643	0.0001305	-0.009047	-0.0001	0.0698	-0.0000	4.246	0.0001305	133.3
SNB-CbS	0.06845	0.0001241	-0.008958	-0.0001	0.0696	-0.0000	4.501	0.0001241	126.7
SNB-DaS	0.05385	0.0001101	-0.008525	-0.0001	0.0589	-0.0000	5.011	0.0001101	113.3
SNB-DbS	0.04731	0.0001013	-0.008123	-0.0001	0.0561	-0.0000	5.267	0.0001013	106.7
SNB-EaS	0.03582	8.173e-005	-0.007441	-0.0001	0.0451	-0.0000	5.779	8.173e-005	93.33
SNB-EbS	0.0307	7.077e-005	-0.007154	-0.0001	0.0446	-0.0000	6.037	7.077e-005	86.65
SNB-FaS	0.02018	4.412e-005	-0.00618	-0.0001	0.0375	-0.0000	6.682	4.412e-005	69.99
SNB-GaS	0.01043	1.991e-005	-0.004719	-0.0001	0.0277	-0.0000	7.458	1.991e-005	50
SNB-HaS	0.004065	5.35e-006	-0.002953	-0.0000	0.0173	-0.0000	8.239	5.35e-006	30
SNB-IaS	0.0008892	-1.31e-007	-0.0009875	-0.0000	0.0066	-0.0000	9.022	-1.31e-007	9.999
SNB-WL-A1S	0.1395	0.0001661	-0.005489	-0.0029	0.0784	0.0000	0.7227	-1.01	180
SNB-WL-A2S	0.1395	0.0001682	-0.003042	-0.0001	0.0837	-0.0000	-1.027	0.0001682	180
SNB-WL-A3S	0.1395	0.0001701	-0.005491	0.0028	0.0784	-0.0000	0.7227	1.01	180
SNB-WL-B1S	0.1115	0.0001493	-0.00569	-0.0014	0.0768	-0.0000	0.8918	-1.351	160
SNB-WL-B2S	0.1115	0.000151	-0.002499	-0.0000	0.0813	-0.0000	-1.449	0.000151	160
SNB-WL-B3S	0.1115	0.0001525	-0.005692	0.0014	0.0768	-0.0000	0.8918	1.352	160
SNB-WL-C1S	0.08464	0.0001353	-0.005859	-0.0014	0.0706	-0.0000	1.062	-1.692	140
SNB-WL-C2S	0.08465	0.0001368	-0.002174	-0.0000	0.0757	-0.0000	-1.869	0.0001368	140
SNB-WL-C3S	0.08464	0.0001381	-0.005862	0.0013	0.0706	0.0000	1.062	1.692	140
SNB-WL-D1S	0.06076	0.0001159	-0.006127	-0.0029	0.0595	-0.0001	1.235	-2.033	120
SNB-WL-D2S	0.06077	0.0001176	-0.00233	-0.0001	0.0670	-0.0000	-2.287	0.0001176	120
SNB-WL-D3S	0.06076	0.000119	-0.006131	0.0028	0.0595	0.0001	1.235	2.033	120
SNB-WL-E1S	0.04111	9.092e-005	-0.005058	-0.0015	0.0457	-0.0001	1.411	-2.373	99.99
SNB-WL-E2S	0.04112	9.206e-005	-0.001684	-0.0001	0.0506	-0.0000	-2.699	9.206e-005	100
SNB-WL-E3S	0.04111	9.296e-005	-0.005064	0.0014	0.0457	0.0001	1.411	2.373	99.99
SNB-WL-F1S	0.02592	5.89e-005	-0.005276	-0.0027	0.0356	-0.0001	1.593	-2.714	79.99
SNB-WL-F2S	0.02593	6.03e-005	-0.002159	-0.0001	0.0428	-0.0000	-3.108	6.03e-005	80
SNB-WL-F3S	0.02592	6.15e-005	-0.005284	0.0025	0.0356	0.0001	1.593	2.714	79.99
SNB-WL-G1S	0.01442	3.018e-005	-0.005729	-0.0040	0.0246	-0.0001	1.778	-3.055	59.99
SNB-WL-G2S	0.01442	3.163e-005	-0.003201	-0.0001	0.0328	-0.0000	-3.513	3.163e-005	60
SNB-WL-G3S	0.01442	3.293e-005	-0.005736	0.0039	0.0246	0.0001	1.778	3.055	59.99
SNB-WL-H1S	0.006369	1.123e-005	-0.006062	-0.0034	0.0154	-0.0001	1.967	-3.395	39.99
SNB-WL-H2S	0.006371	1.236e-005	-0.004253	-0.0000	0.0227	-0.0000	-3.914	1.236e-005	40
SNB-WL-H3S	0.006369	1.338e-005	-0.006067	0.0033	0.0154	0.0001	1.967	3.395	39.99
SNB-WL-I1S	0.001661	1.668e-006	-0.006404	-0.0027	0.0062	-0.0001	2.159	-3.736	19.99
SNB-WL-I2S	0.001662	2.405e-006	-0.00548	-0.0000	0.0122	0.0000	-4.312	2.405e-006	19.99
SNB-WL-I3S	0.001661	3.085e-006	-0.006406	0.0026	0.0062	0.0001	2.159	3.736	19.99
RohnAa1	0.1324	0.0001618	-0.006217	-0.0002	0.0800	-0.0012	-2.133	-3.923	175
RohnAa2	0.1325	0.0002175	-0.006232	-0.0003	0.0806	-0.0002	-2.132	3.923	175
RohnAb1	0.1254	0.000172	-0.006054	-0.0001	0.0806	-0.0012	-2.238	-4.094	170
RohnAb2	0.1255	0.0001778	-0.006059	-0.0002	0.0808	0.0000	-2.238	4.094	170
RohnAc1	0.1184	0.0001518	-0.005884	-0.0000	0.0796	-0.0012	-2.344	-4.264	165
RohnAc2	0.1185	0.000188	-0.005887	-0.0001	0.0797	0.0002	-2.344	4.264	165
RohnBa1	0.1045	0.0001518	-0.005546	-0.0003	0.0781	-0.0013	-2.554	-4.605	155
RohnBa2	0.1046	0.0001698	-0.005549	0.0002	0.0781	0.0005	-2.554	4.606	155
RohnBb1	0.09784	0.0001399	-0.005381	-0.0001	0.0772	-0.0014	-2.66	-4.776	150
RohnBb2	0.09788	0.0001741	-0.005387	0.0000	0.0772	0.0007	-2.66	4.776	150

RohnBc1	0.09106	0.0001449	-0.005179	0.0003	0.0765	-0.0015	-2.765	-4.947	145
RohnBc2	0.0911	0.0001605	-0.005186	-0.0005	0.0765	0.0009	-2.765	4.947	145
RohnCa1	0.07621	0.0001067	-0.004759	-0.0007	0.0708	-0.0015	-3.009	-5.344	133.3
RohnCa2	0.07625	0.0001758	-0.00477	0.0005	0.0708	0.0011	-3.009	5.344	133.3
RohnCb1	0.06817	0.0001023	-0.0045	0.0006	0.0668	-0.0015	-3.148	-5.571	126.7
RohnCb2	0.0682	0.0001644	-0.00451	-0.0007	0.0668	0.0011	-3.148	5.572	126.7
RohnDa1	0.05351	6.428e-005	-0.003909	-0.0007	0.0598	-0.0014	-3.425	-6.025	113.3
RohnDa2	0.05354	0.0001739	-0.003922	0.0005	0.0598	0.0011	-3.425	6.025	113.3
RohnDb1	0.04688	8.018e-005	-0.003564	0.0004	0.0531	-0.0013	-3.563	-6.252	106.7
RohnDb2	0.04691	0.0001411	-0.00358	-0.0006	0.0532	0.0010	-3.563	6.252	106.7
RohnEa1	0.0355	7.586e-005	-0.002997	-0.0003	0.0459	-0.0012	-3.836	-6.706	93.34
RohnEa2	0.03553	0.0001063	-0.003021	0.0001	0.0459	0.0010	-3.836	6.706	93.34
RohnEb1	0.03045	8.773e-005	-0.002739	0.0003	0.0410	-0.0011	-3.973	-6.933	86.66
RohnEb2	0.03048	7.346e-005	-0.002765	-0.0005	0.0410	0.0009	-3.972	6.933	86.66
RohnFa1	0.0193	-1.761e-005	-0.002142	-0.0001	0.0324	-0.0009	-4.311	-7.501	70
RohnFa2	0.01933	0.0001241	-0.002169	-0.0001	0.0324	0.0007	-4.311	7.501	70
RohnGa1	0.009613	-4.073e-005	-0.00151	-0.0001	0.0230	-0.0006	-4.714	-8.182	50
RohnGa2	0.009631	9.377e-005	-0.00153	-0.0001	0.0230	0.0006	-4.714	8.182	50
RohnHa1	0.003177	-7.695e-005	-0.0008848	0.0000	0.0132	-0.0004	-5.115	-8.864	30
RohnHa2	0.003187	9.613e-005	-0.0008955	-0.0001	0.0133	0.0003	-5.115	8.864	30
RohnIa1	0.0001649	-9.868e-005	-0.000283	-0.0001	0.0047	-0.0001	-5.512	-9.548	10
RohnIa2	0.0001681	0.0001018	-0.0002862	0.0000	0.0048	0.0001	-5.512	9.548	10
SNB-Aa1	0.1324	0.000139	-0.00271	0.0015	0.0794	-0.0002	-1.133	-2.191	175
SNB-Aa2	0.1324	0.0001842	-0.002715	-0.0016	0.0795	0.0002	-1.133	2.191	175
SNB-Ab1	0.1254	0.0001565	-0.002553	-0.0006	0.0810	-0.0002	-1.238	-2.361	170
SNB-Ab2	0.1254	0.0001583	-0.002557	0.0005	0.0810	0.0002	-1.238	2.362	170
SNB-Ac1	0.1184	0.0001399	-0.002396	0.0010	0.0791	-0.0002	-1.344	-2.532	165
SNB-Ac2	0.1184	0.0001666	-0.0024	-0.0011	0.0791	0.0002	-1.344	2.532	165
SNB-Ba1	0.1046	0.0001234	-0.002095	0.0011	0.0781	-0.0002	-1.554	-2.873	155
SNB-Ba2	0.1046	0.0001725	-0.002099	-0.0012	0.0781	0.0002	-1.554	2.873	155
SNB-Bb1	0.09781	0.000152	-0.001951	-0.0005	0.0777	-0.0002	-1.659	-3.043	150
SNB-Bb2	0.09781	0.0001376	-0.001956	0.0005	0.0777	0.0002	-1.659	3.044	150
SNB-Bc1	0.0911	0.0001224	-0.001814	0.0010	0.0749	-0.0002	-1.765	-3.214	145
SNB-Bc2	0.0911	0.0001597	-0.001819	-0.0011	0.0749	0.0002	-1.765	3.214	145
SNB-Ca1	0.07617	0.000126	-0.001521	0.0005	0.0711	-0.0003	-2.009	-3.611	133.3
SNB-Ca2	0.07617	0.0001349	-0.001528	-0.0006	0.0711	0.0003	-2.009	3.612	133.3
SNB-Cb1	0.06815	0.0001057	-0.001365	0.0015	0.0649	-0.0003	-2.148	-3.839	126.7
SNB-Cb2	0.06816	0.0001424	-0.001373	-0.0016	0.0649	0.0003	-2.148	3.839	126.7
SNB-Da1	0.05348	7.847e-005	-0.001107	0.0013	0.0596	-0.0004	-2.425	-4.293	113.3
SNB-Da2	0.05348	0.0001416	-0.001118	-0.0015	0.0596	0.0004	-2.425	4.293	113.3
SNB-Db1	0.04687	8.815e-005	-0.0009918	0.0008	0.0522	-0.0003	-2.563	-4.52	106.7
SNB-Db2	0.04687	0.0001151	-0.001004	-0.0010	0.0522	0.0003	-2.563	4.52	106.7
SNB-Ea1	0.03555	4.917e-005	-0.0008197	0.0005	0.0458	-0.0003	-2.836	-4.974	93.34
SNB-Ea2	0.03555	0.0001147	-0.0008341	-0.0007	0.0458	0.0003	-2.836	4.974	93.34
SNB-Eb1	0.03048	6.85e-005	-0.0007357	0.0014	0.0400	-0.0002	-2.972	-5.201	86.66
SNB-Eb2	0.03048	7.413e-005	-0.0007509	-0.0016	0.0400	0.0002	-2.972	5.201	86.66
SNB-Fa1	0.01926	2.815e-006	-0.0005509	0.0035	0.0306	-0.0002	-3.311	-5.769	70
SNB-Fa2	0.01926	8.764e-005	-0.0005661	-0.0036	0.0306	0.0002	-3.311	5.769	70
SNB-Ga1	0.009612	-4.084e-005	-0.0003708	0.0038	0.0208	-0.0003	-3.714	-6.45	50
SNB-Ga2	0.009612	8.264e-005	-0.0003827	-0.0039	0.0208	0.0003	-3.714	6.45	50
SNB-Ha1	0.003192	-8.601e-005	-0.0002066	0.0032	0.0115	-0.0002	-4.114	-7.131	30
SNB-Ha2	0.003191	9.857e-005	-0.0002137	-0.0033	0.0115	0.0002	-4.114	7.131	30
SNB-Ia1	0.0001491	-8.953e-005	-5.797e-005	0.0013	0.0040	-0.0001	-4.511	-7.813	10
SNB-Ia2	0.0001485	9.044e-005	-6.015e-005	-0.0013	0.0040	0.0001	-4.511	7.813	10

Joint Support Reactions for Load Case "4: 1.2D + 1.0Dg + 1.0E":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-2.52	0.0	0.00	0.0	41.46	0.0	0.0	41.54	0.0	-0.00	0.0	-0.6	0.0	0.00	0.0	0.0
SNB-JP	-3.04	0.0	0.00	0.0	49.20	0.0	0.0	49.29	0.0	-0.00	0.0	-1.2	0.0	-0.00	0.0	0.0
RohnJ1	0.11	0.0	0.32	0.0	8.90	0.0	0.0	8.91	0.0	-0.09	0.0	0.1	0.0	-0.00	0.0	0.0
RohnJ2	0.10	0.0	-0.33	0.0	8.99	0.0	0.0	9.00	0.0	0.10	0.0	0.1	0.0	0.00	0.0	0.0
SNB-J1	-0.46	0.0	-0.54	0.0	2.94	0.0	0.0	3.02	0.0	-0.03	0.0	0.2	0.0	-0.01	0.0	0.0
SNB-J2	-0.45	0.0	0.54	0.0	3.04	0.0	0.0	3.12	0.0	0.03	0.0	0.2	0.0	0.01	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "4: 1.2D + 1.0Dg + 1.0E":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.0984	0.0000	-0.3543	-0.0984	0.0000	0.3543	0.1395	0.0001	-0.0153
RohnBP	0.1982	0.0000	-1.2721	-0.1982	0.0000	1.2721	0.1115	0.0001	-0.0161
RohnCP	0.0454	0.0000	-0.5121	-0.0454	0.0000	0.5121	0.0846	0.0001	-0.0159
RohnDP	0.0371	0.0000	-0.6208	-0.0371	0.0000	0.6208	0.0608	0.0001	-0.0148
RohnEP	0.0369	0.0000	-0.7694	-0.0369	0.0000	0.7694	0.0411	0.0001	-0.0125
RohnFP	0.0403	0.0000	-1.0436	-0.0403	0.0000	1.0436	0.0259	0.0000	-0.0104
RohnGP	0.0389	0.0000	-1.3901	-0.0389	0.0000	1.3901	0.0144	0.0000	-0.0080
RohnHP	0.0253	0.0000	-1.3837	-0.0253	0.0000	1.3837	0.0064	0.0000	-0.0056
RohnIP	0.0172	0.0000	-1.5524	-0.0172	0.0000	1.5524	0.0017	-0.0000	-0.0027
RohnJP	0.0000	0.0000	-0.8390	2.5204	-0.0032	-40.6196	0.0000	0.0000	0.0000
SNB-AP	0.0517	0.0000	-0.1863	-0.0517	0.0000	0.1863	0.1395	0.0002	-0.0078
SNB-BP	0.0628	0.0000	-0.4033	-0.0628	0.0000	0.4033	0.1115	0.0002	-0.0086
SNB-CP	0.0454	0.0000	-0.5121	-0.0454	0.0000	0.5121	0.0846	0.0001	-0.0091
SNB-DP	0.0371	0.0000	-0.6208	-0.0371	0.0000	0.6208	0.0608	0.0001	-0.0088
SNB-EP	0.0369	0.0000	-0.7694	-0.0369	0.0000	0.7694	0.0411	0.0001	-0.0077
SNB-FP	0.0403	0.0000	-1.0436	-0.0403	0.0000	1.0436	0.0259	0.0001	-0.0068
SNB-GP	0.0355	0.0000	-1.2701	-0.0355	0.0000	1.2701	0.0144	0.0000	-0.0055
SNB-HP	0.0253	0.0000	-1.3837	-0.0253	-0.0000	1.3837	0.0064	0.0000	-0.0039
SNB-IP	0.0172	0.0000	-1.5524	-0.0172	-0.0000	1.5524	0.0017	0.0000	-0.0019
SNB-JP	0.0000	0.0000	-0.8390	3.0374	-0.0012	-48.3621	0.0000	0.0000	0.0000
RohnA1	0.0984	0.0000	-0.3543	-0.0984	0.0000	0.3543	0.1394	0.0002	-0.0064
RohnA2	0.1450	0.0000	-0.5223	-0.1450	-0.0000	0.5223	0.1395	0.0002	-0.0064
RohnB1	0.0841	0.0000	-0.5401	-0.0841	0.0000	0.5401	0.1115	0.0002	-0.0057
RohnB2	0.0720	0.0000	-0.4621	-0.0720	-0.0000	0.4621	0.1115	0.0002	-0.0057
RohnC1	0.0454	0.0000	-0.5121	-0.0454	0.0000	0.5121	0.0846	0.0002	-0.0050
RohnC2	0.0454	0.0000	-0.5121	-0.0454	-0.0000	0.5121	0.0846	0.0001	-0.0050
RohnD1	0.0421	0.0000	-0.7048	-0.0421	0.0000	0.7048	0.0607	0.0002	-0.0042
RohnD2	0.0371	0.0000	-0.6208	-0.0371	-0.0000	0.6208	0.0607	0.0001	-0.0042
RohnE1	0.0369	0.0000	-0.7694	-0.0369	0.0000	0.7694	0.0411	0.0001	-0.0033
RohnE2	0.0369	0.0000	-0.7694	-0.0369	-0.0000	0.7694	0.0411	0.0001	-0.0033
RohnF1	0.0403	0.0000	-1.0436	-0.0403	0.0000	1.0436	0.0258	0.0001	-0.0025
RohnF2	0.0471	0.0000	-1.2176	-0.0471	-0.0000	1.2176	0.0259	0.0000	-0.0025
RohnG1	0.0375	0.0000	-1.3421	-0.0375	0.0000	1.3421	0.0144	0.0001	-0.0018
RohnG2	0.0408	0.0000	-1.4573	-0.0408	0.0000	1.4573	0.0144	0.0000	-0.0019
RohnH1	0.0253	0.0000	-1.3837	-0.0253	0.0000	1.3837	0.0063	0.0000	-0.0012
RohnH2	0.0253	0.0000	-1.3837	-0.0253	-0.0000	1.3837	0.0063	-0.0000	-0.0012
RohnI1	0.0172	0.0000	-1.5524	-0.0172	-0.0000	1.5524	0.0016	0.0000	-0.0006
RohnI2	0.0172	0.0000	-1.5524	-0.0172	-0.0000	1.5524	0.0016	-0.0000	-0.0006
RohnJ1	0.0000	0.0000	-0.8390	-0.1072	-0.3234	-8.0602	0.0000	0.0000	0.0000
RohnJ2	0.0000	0.0000	-0.8390	-0.1042	0.3270	-8.1513	0.0000	0.0000	0.0000
SNB-A1	0.0517	0.0000	-0.1863	-0.0517	-0.0000	0.1863	0.1395	0.0002	-0.0029
SNB-A2	0.0517	0.0000	-0.1863	-0.0517	0.0000	0.1863	0.1395	0.0002	-0.0029
SNB-B1	0.0628	0.0000	-0.4033	-0.0628	-0.0000	0.4033	0.1115	0.0002	-0.0022
SNB-B2	0.0628	0.0000	-0.4033	-0.0628	0.0000	0.4033	0.1115	0.0002	-0.0023
SNB-C1	0.0454	0.0000	-0.5121	-0.0454	-0.0000	0.5121	0.0846	0.0001	-0.0017
SNB-C2	0.0454	0.0000	-0.5121	-0.0454	0.0000	0.5121	0.0846	0.0001	-0.0017
SNB-D1	0.0371	0.0000	-0.6208	-0.0371	-0.0000	0.6208	0.0607	0.0001	-0.0012
SNB-D2	0.0371	0.0000	-0.6208	-0.0371	0.0000	0.6208	0.0607	0.0001	-0.0012
SNB-E1	0.0369	0.0000	-0.7694	-0.0369	-0.0000	0.7694	0.0411	0.0001	-0.0009
SNB-E2	0.0369	0.0000	-0.7694	-0.0369	0.0000	0.7694	0.0411	0.0001	-0.0009
SNB-F1	0.0403	0.0000	-1.0436	-0.0403	-0.0000	1.0436	0.0259	0.0001	-0.0007
SNB-F2	0.0403	0.0000	-1.0436	-0.0403	0.0000	1.0436	0.0259	0.0001	-0.0007
SNB-G1	0.0355	0.0000	-1.2701	-0.0355	-0.0000	1.2701	0.0144	0.0000	-0.0005
SNB-G2	0.0355	0.0000	-1.2701	-0.0355	0.0000	1.2701	0.0144	0.0000	-0.0005
SNB-H1	0.0253	0.0000	-1.3837	-0.0253	-0.0000	1.3837	0.0063	0.0000	-0.0003
SNB-H2	0.0253	0.0000	-1.3837	-0.0253	0.0000	1.3837	0.0063	0.0000	-0.0003
SNB-I1	0.0172	0.0000	-1.5524	-0.0172	0.0000	1.5524	0.0016	0.0000	-0.0001
SNB-I2	0.0172	0.0000	-1.5524	-0.0172	0.0000	1.5524	0.0016	-0.0000	-0.0002
SNB-J1	0.0000	0.0000	-0.8390	0.4564	0.5440	-2.0985	0.0000	0.0000	0.0000
SNB-J2	0.0000	0.0000	-0.8390	0.4547	-0.5431	-2.2002	0.0000	0.0000	0.0000
RohnAaS	0.0601	0.0000	-0.2490	-0.0601	0.0000	0.2490	0.1325	0.0001	-0.0156
RohnAbS	0.0390	0.0000	-0.1863	-0.0390	0.0000	0.1863	0.1254	0.0001	-0.0158
RohnAcS	0.0452	0.0000	-0.2502	-0.0452	0.0000	0.2502	0.1185	0.0001	-0.0159

RohnBaS	0.0292	0.0000	-0.2170	-0.0292	0.0000	0.2170	0.1047	0.0001	-0.0161
RohnBbS	0.1346	0.0000	-1.1580	-0.1346	0.0000	1.1580	0.0978	0.0001	-0.0161
RohnBcS	0.0219	0.0000	-0.2170	-0.0219	0.0000	0.2170	0.0912	0.0001	-0.0160
RohnCaS	0.0726	0.0000	-0.9577	-0.0726	0.0000	0.9577	0.0764	0.0001	-0.0157
RohnCbS	0.1145	0.0000	-1.7228	-0.1145	0.0000	1.7228	0.0684	0.0001	-0.0153
RohnDaS	0.0834	0.0000	-1.5191	-0.0834	0.0000	1.5191	0.0538	0.0001	-0.0142
RohnDbS	0.0166	0.0000	-0.3257	-0.0166	0.0000	0.3257	0.0473	0.0001	-0.0134
RohnEaS	0.0200	0.0000	-0.4437	-0.0200	0.0000	0.4437	0.0358	0.0001	-0.0119
RohnEbS	0.0186	0.0000	-0.4437	-0.0186	0.0000	0.4437	0.0307	0.0001	-0.0111
RohnFaS	0.0200	0.0000	-0.5999	-0.0200	0.0000	0.5999	0.0202	0.0000	-0.0092
RohnGaS	0.0153	0.0000	-0.6702	-0.0153	0.0000	0.6702	0.0104	0.0000	-0.0069
RohnHaS	0.0104	0.0000	-0.7135	-0.0104	0.0000	0.7135	0.0041	-0.0000	-0.0042
RohnIaS	0.0059	0.0000	-0.8390	-0.0059	0.0000	0.8390	0.0009	-0.0000	-0.0014
SNB-AaS	0.0450	0.0000	-0.1863	-0.0450	0.0000	0.1863	0.1325	0.0002	-0.0080
SNB-AbS	0.0390	0.0000	-0.1863	-0.0390	0.0000	0.1863	0.1254	0.0002	-0.0082
SNB-AcS	0.0337	0.0000	-0.1863	-0.0337	0.0000	0.1863	0.1185	0.0002	-0.0084
SNB-BaS	0.0292	0.0000	-0.2170	-0.0292	0.0000	0.2170	0.1047	0.0001	-0.0088
SNB-BbS	0.0252	0.0000	-0.2170	-0.0252	0.0000	0.2170	0.0979	0.0001	-0.0089
SNB-BcS	0.0219	0.0000	-0.2170	-0.0219	0.0000	0.2170	0.0912	0.0001	-0.0090
SNB-CaS	0.0224	0.0000	-0.2951	-0.0224	0.0000	0.2951	0.0764	0.0001	-0.0090
SNB-CbS	0.0196	0.0000	-0.2951	-0.0196	0.0000	0.2951	0.0685	0.0001	-0.0090
SNB-DaS	0.0179	0.0000	-0.3257	-0.0179	0.0000	0.3257	0.0538	0.0001	-0.0085
SNB-DbS	0.0166	0.0000	-0.3257	-0.0166	0.0000	0.3257	0.0473	0.0001	-0.0081
SNB-EaS	0.0200	0.0000	-0.4437	-0.0200	0.0000	0.4437	0.0358	0.0001	-0.0074
SNB-EbS	0.0186	0.0000	-0.4437	-0.0186	0.0000	0.4437	0.0307	0.0001	-0.0072
SNB-FaS	0.0200	0.0000	-0.5999	-0.0200	0.0000	0.5999	0.0202	0.0000	-0.0062
SNB-GaS	0.0153	0.0000	-0.6702	-0.0153	0.0000	0.6702	0.0104	0.0000	-0.0047
SNB-HaS	0.0104	0.0000	-0.7135	-0.0104	0.0000	0.7135	0.0041	0.0000	-0.0030
SNB-IaS	0.0059	0.0000	-0.8390	-0.0059	0.0000	0.8390	0.0009	-0.0000	-0.0010
SNB-WL-A1S	0.0517	0.0000	-0.1863	-0.0517	0.0000	0.1863	0.1395	0.0002	-0.0055
SNB-WL-A2S	0.0517	0.0000	-0.1863	-0.0517	0.0000	0.1863	0.1395	0.0002	-0.0030
SNB-WL-A3S	0.0517	0.0000	-0.1863	-0.0517	-0.0000	0.1863	0.1395	0.0002	-0.0055
SNB-WL-B1S	0.0290	0.0000	-0.1863	-0.0290	0.0000	0.1863	0.1115	0.0001	-0.0057
SNB-WL-B2S	0.0290	0.0000	-0.1863	-0.0290	0.0000	0.1863	0.1115	0.0002	-0.0025
SNB-WL-B3S	0.0290	0.0000	-0.1863	-0.0290	-0.0000	0.1863	0.1115	0.0002	-0.0057
SNB-WL-C1S	0.0192	0.0000	-0.2170	-0.0192	0.0000	0.2170	0.0846	0.0001	-0.0059
SNB-WL-C2S	0.0192	0.0000	-0.2170	-0.0192	0.0000	0.2170	0.0846	0.0001	-0.0022
SNB-WL-C3S	0.0192	0.0000	-0.2170	-0.0192	-0.0000	0.2170	0.0846	0.0001	-0.0059
SNB-WL-D1S	0.0176	0.0000	-0.2951	-0.0176	0.0000	0.2951	0.0608	0.0001	-0.0061
SNB-WL-D2S	0.0176	0.0000	-0.2951	-0.0176	0.0000	0.2951	0.0608	0.0001	-0.0023
SNB-WL-D3S	0.0176	0.0000	-0.2951	-0.0176	-0.0000	0.2951	0.0608	0.0001	-0.0061
SNB-WL-E1S	0.0156	0.0000	-0.3257	-0.0156	0.0000	0.3257	0.0411	0.0001	-0.0051
SNB-WL-E2S	0.0156	0.0000	-0.3257	-0.0156	0.0000	0.3257	0.0411	0.0001	-0.0017
SNB-WL-E3S	0.0156	0.0000	-0.3257	-0.0156	-0.0000	0.3257	0.0411	0.0001	-0.0051
SNB-WL-F1S	0.0171	0.0000	-0.4437	-0.0171	0.0000	0.4437	0.0259	0.0001	-0.0053
SNB-WL-F2S	0.0171	0.0000	-0.4437	-0.0171	0.0000	0.4437	0.0259	0.0001	-0.0022
SNB-WL-F3S	0.0171	0.0000	-0.4437	-0.0171	-0.0000	0.4437	0.0259	0.0001	-0.0053
SNB-WL-G1S	0.0168	0.0000	-0.5999	-0.0168	0.0000	0.5999	0.0144	0.0000	-0.0057
SNB-WL-G2S	0.0168	0.0000	-0.5999	-0.0168	0.0000	0.5999	0.0144	0.0000	-0.0032
SNB-WL-G3S	0.0168	0.0000	-0.5999	-0.0168	-0.0000	0.5999	0.0144	0.0000	-0.0057
SNB-WL-H1S	0.0123	0.0000	-0.6702	-0.0123	0.0000	0.6702	0.0064	0.0000	-0.0061
SNB-WL-H2S	0.0123	0.0000	-0.6702	-0.0123	0.0000	0.6702	0.0064	0.0000	-0.0043
SNB-WL-H3S	0.0123	0.0000	-0.6702	-0.0123	-0.0000	0.6702	0.0064	0.0000	-0.0061
SNB-WL-I1S	0.0079	0.0000	-0.7135	-0.0079	0.0000	0.7135	0.0017	0.0000	-0.0064
SNB-WL-I2S	0.0079	0.0000	-0.7135	-0.0079	0.0000	0.7135	0.0017	0.0000	-0.0055
SNB-WL-I3S	0.0079	0.0000	-0.7135	-0.0079	-0.0000	0.7135	0.0017	0.0000	-0.0064
RohnAa1	0.0663	0.0000	-0.2745	-0.0663	0.0000	0.2745	0.1324	0.0002	-0.0062
RohnAa2	0.0730	0.0000	-0.3021	-0.0730	-0.0000	0.3021	0.1325	0.0002	-0.0062
RohnAb1	0.0691	0.0000	-0.3303	-0.0691	0.0000	0.3303	0.1254	0.0002	-0.0061
RohnAb2	0.0390	0.0000	-0.1863	-0.0390	-0.0000	0.1863	0.1255	0.0002	-0.0061
RohnAc1	0.0337	0.0000	-0.1863	-0.0337	0.0000	0.1863	0.1184	0.0002	-0.0059
RohnAc2	0.0337	0.0000	-0.1863	-0.0337	-0.0000	0.1863	0.1185	0.0002	-0.0059
RohnBa1	0.0292	0.0000	-0.2170	-0.0292	0.0000	0.2170	0.1045	0.0002	-0.0055
RohnBa2	0.0292	0.0000	-0.2170	-0.0292	-0.0000	0.2170	0.1046	0.0002	-0.0055
RohnBb1	0.1308	0.0000	-1.1256	-0.1308	0.0000	1.1256	0.0978	0.0001	-0.0054
RohnBb2	0.1308	0.0000	-1.1256	-0.1308	-0.0000	1.1256	0.0979	0.0002	-0.0054
RohnBc1	0.0219	0.0000	-0.2170	-0.0219	0.0000	0.2170	0.0911	0.0001	-0.0052
RohnBc2	0.0219	0.0000	-0.2170	-0.0219	-0.0000	0.2170	0.0911	0.0002	-0.0052
RohnCa1	0.0781	0.0000	-1.0297	-0.0781	0.0000	1.0297	0.0762	0.0001	-0.0048

RohnCa2	0.0817	0.0000	-1.0777	-0.0817	-0.0000	1.0777	0.0762	0.0002	-0.0048
RohnCb1	0.1065	0.0000	-1.6028	-0.1065	0.0000	1.6028	0.0682	0.0001	-0.0045
RohnCb2	0.1065	0.0000	-1.6028	-0.1065	-0.0000	1.6028	0.0682	0.0002	-0.0045
RohnDa1	0.0764	0.0000	-1.3931	-0.0764	0.0000	1.3931	0.0535	0.0001	-0.0039
RohnDa2	0.0764	0.0000	-1.3931	-0.0764	-0.0000	1.3931	0.0535	0.0002	-0.0039
RohnDb1	0.0166	0.0000	-0.3257	-0.0166	0.0000	0.3257	0.0469	0.0001	-0.0036
RohnDb2	0.0166	0.0000	-0.3257	-0.0166	-0.0000	0.3257	0.0469	0.0001	-0.0036
RohnEa1	0.0200	0.0000	-0.4437	-0.0200	0.0000	0.4437	0.0355	0.0001	-0.0030
RohnEa2	0.0200	0.0000	-0.4437	-0.0200	-0.0000	0.4437	0.0355	0.0001	-0.0030
RohnEb1	0.0186	0.0000	-0.4437	-0.0186	0.0000	0.4437	0.0304	0.0001	-0.0027
RohnEb2	0.0186	0.0000	-0.4437	-0.0186	-0.0000	0.4437	0.0305	0.0001	-0.0028
RohnFa1	0.0200	0.0000	-0.5999	-0.0200	0.0000	0.5999	0.0193	-0.0000	-0.0021
RohnFa2	0.0200	0.0000	-0.5999	-0.0200	-0.0000	0.5999	0.0193	0.0001	-0.0022
RohnGa1	0.0153	0.0000	-0.6702	-0.0153	0.0000	0.6702	0.0096	-0.0000	-0.0015
RohnGa2	0.0153	0.0000	-0.6702	-0.0153	-0.0000	0.6702	0.0096	0.0001	-0.0015
RohnHa1	0.0104	0.0000	-0.7135	-0.0104	0.0000	0.7135	0.0032	-0.0001	-0.0009
RohnHa2	0.0104	0.0000	-0.7135	-0.0104	-0.0000	0.7135	0.0032	0.0001	-0.0009
RohnIa1	0.0059	0.0000	-0.8390	-0.0059	0.0000	0.8390	0.0002	-0.0001	-0.0003
RohnIa2	0.0059	0.0000	-0.8390	-0.0059	-0.0000	0.8390	0.0002	0.0001	-0.0003
SNB-Aa1	0.0450	0.0000	-0.1863	-0.0450	-0.0000	0.1863	0.1324	0.0001	-0.0027
SNB-Aa2	0.0450	0.0000	-0.1863	-0.0450	0.0000	0.1863	0.1324	0.0002	-0.0027
SNB-Ab1	0.0390	0.0000	-0.1863	-0.0390	-0.0000	0.1863	0.1254	0.0002	-0.0026
SNB-Ab2	0.0390	0.0000	-0.1863	-0.0390	0.0000	0.1863	0.1254	0.0002	-0.0026
SNB-Ac1	0.0337	0.0000	-0.1863	-0.0337	-0.0000	0.1863	0.1184	0.0001	-0.0024
SNB-Ac2	0.0337	0.0000	-0.1863	-0.0337	0.0000	0.1863	0.1184	0.0002	-0.0024
SNB-Ba1	0.0292	0.0000	-0.2170	-0.0292	-0.0000	0.2170	0.1046	0.0001	-0.0021
SNB-Ba2	0.0292	0.0000	-0.2170	-0.0292	0.0000	0.2170	0.1046	0.0002	-0.0021
SNB-Bb1	0.0252	0.0000	-0.2170	-0.0252	-0.0000	0.2170	0.0978	0.0002	-0.0020
SNB-Bb2	0.0252	0.0000	-0.2170	-0.0252	0.0000	0.2170	0.0978	0.0001	-0.0020
SNB-Bc1	0.0219	0.0000	-0.2170	-0.0219	-0.0000	0.2170	0.0911	0.0001	-0.0018
SNB-Bc2	0.0219	0.0000	-0.2170	-0.0219	0.0000	0.2170	0.0911	0.0002	-0.0018
SNB-Ca1	0.0224	0.0000	-0.2951	-0.0224	-0.0000	0.2951	0.0762	0.0001	-0.0015
SNB-Ca2	0.0224	0.0000	-0.2951	-0.0224	0.0000	0.2951	0.0762	0.0001	-0.0015
SNB-Cb1	0.0196	0.0000	-0.2951	-0.0196	-0.0000	0.2951	0.0682	0.0001	-0.0014
SNB-Cb2	0.0196	0.0000	-0.2951	-0.0196	0.0000	0.2951	0.0682	0.0001	-0.0014
SNB-Da1	0.0179	0.0000	-0.3257	-0.0179	-0.0000	0.3257	0.0535	0.0001	-0.0011
SNB-Da2	0.0179	0.0000	-0.3257	-0.0179	0.0000	0.3257	0.0535	0.0001	-0.0011
SNB-Db1	0.0166	0.0000	-0.3257	-0.0166	-0.0000	0.3257	0.0469	0.0001	-0.0010
SNB-Db2	0.0166	0.0000	-0.3257	-0.0166	0.0000	0.3257	0.0469	0.0001	-0.0010
SNB-Ea1	0.0200	0.0000	-0.4437	-0.0200	-0.0000	0.4437	0.0355	0.0000	-0.0008
SNB-Ea2	0.0200	0.0000	-0.4437	-0.0200	0.0000	0.4437	0.0355	0.0001	-0.0008
SNB-Eb1	0.0186	0.0000	-0.4437	-0.0186	-0.0000	0.4437	0.0305	0.0001	-0.0007
SNB-Eb2	0.0186	0.0000	-0.4437	-0.0186	0.0000	0.4437	0.0305	0.0001	-0.0008
SNB-Fa1	0.0200	0.0000	-0.5999	-0.0200	-0.0000	0.5999	0.0193	0.0000	-0.0006
SNB-Fa2	0.0200	0.0000	-0.5999	-0.0200	0.0000	0.5999	0.0193	0.0001	-0.0006
SNB-Ga1	0.0153	0.0000	-0.6702	-0.0153	-0.0000	0.6702	0.0096	-0.0000	-0.0004
SNB-Ga2	0.0153	0.0000	-0.6702	-0.0153	0.0000	0.6702	0.0096	0.0001	-0.0004
SNB-Ha1	0.0104	0.0000	-0.7135	-0.0104	-0.0000	0.7135	0.0032	-0.0001	-0.0002
SNB-Ha2	0.0104	0.0000	-0.7135	-0.0104	0.0000	0.7135	0.0032	0.0001	-0.0002
SNB-Ia1	0.0059	0.0000	-0.8390	-0.0059	-0.0000	0.8390	0.0001	-0.0001	-0.0001
SNB-Ia2	0.0059	0.0000	-0.8390	-0.0059	0.0000	0.8390	0.0001	0.0001	-0.0001

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	-0.19	0.10	0.79	-0.08	-4.17	0.00	-0.68
Rohn-LA11	0.01	-0.39	0.43	-3.32	1.39	-0.74	0.36
Rohn-LA12	-0.41	0.38	0.63	3.32	0.59	0.74	0.24
Rohn-LA2P	-0.19	0.08	4.17	-0.64	6.74	-0.11	2.18
Rohn-LA21	0.01	3.32	-1.39	2.96	-4.29	1.25	-1.14
Rohn-LA22	-0.41	-3.32	-0.59	-3.93	-1.81	-1.45	-0.48
Rohn-LA3P	-0.19	0.64	-6.74	1.01	-6.14	0.33	-2.57
Rohn-LA31	0.01	-2.96	4.29	-3.15	9.16	-1.22	2.69
Rohn-LA32	-0.41	3.93	1.81	3.63	7.43	1.51	1.85
Rohn-LA4P	-0.19	-1.01	6.14	-0.48	12.76	-0.30	3.78
Rohn-LA41	0.01	3.15	-9.16	2.97	-9.77	1.22	-3.78

Rohn-LA42	-0.41	-3.63	-7.43	-3.55	-8.23	-1.43	-3.13
Rohn-LB1P	-0.11	0.49	-11.56	0.44	-9.07	0.19	-4.12
Rohn-LB11	0.41	-3.37	10.51	-1.30	24.28	-0.93	6.95
Rohn-LB12	-0.63	3.91	9.00	1.56	23.62	1.09	6.52
Rohn-LB2P	-0.11	-0.44	9.07	-0.16	21.06	-0.12	6.02
Rohn-LB21	0.41	1.30	-24.28	0.24	-16.69	0.31	-8.19
Rohn-LB22	-0.63	-1.56	-23.62	-0.25	-16.43	-0.36	-8.00
Rohn-LB3P	-0.11	0.16	-21.06	0.10	-10.80	0.05	-6.37
Rohn-LB31	0.41	-0.24	16.69	-4.17	22.34	-0.88	7.80
Rohn-LB32	-0.63	0.25	16.43	4.24	22.19	0.90	7.72
Rohn-LB4P	-0.11	-0.10	10.80	-0.03	32.13	-0.03	8.58
Rohn-LB41	0.41	4.17	-22.34	8.61	7.59	2.55	-2.95
Rohn-LB42	-0.63	-4.24	-22.19	-8.64	7.83	-2.58	-2.87
Rohn-LC1P	-0.11	0.03	-32.13	0.09	8.50	0.02	-3.54
Rohn-LC11	0.41	-8.61	-7.59	-4.34	12.49	-1.94	0.73
Rohn-LC12	-0.63	8.64	-7.83	4.52	12.11	1.97	0.64
Rohn-LC2P	-0.11	-0.09	-8.50	-0.05	3.03	-0.02	-0.82
Rohn-LC21	0.41	4.34	-12.49	-7.25	25.71	-0.44	1.98
Rohn-LC22	-0.63	-4.52	-12.11	7.12	25.85	0.39	2.06
Rohn-LC3P	-0.11	0.05	-3.03	-0.06	49.36	-0.00	6.95
Rohn-LC31	0.41	7.25	-25.71	17.37	12.11	3.69	-2.04
Rohn-LC32	-0.63	-7.13	-25.85	-17.39	12.50	-3.68	-2.00
Rohn-LD1P	-0.11	0.06	-49.36	0.43	28.55	0.07	-3.12
Rohn-LD11	0.41	-17.37	-12.11	-14.94	33.16	-4.85	3.16
Rohn-LD12	-0.63	17.39	-12.50	15.17	32.76	4.89	3.04
Rohn-LD2P	-0.11	-0.43	-28.55	-0.13	1.57	-0.08	-4.04
Rohn-LD21	0.41	14.94	-33.16	-1.50	66.23	2.01	4.95
Rohn-LD22	-0.63	-15.17	-32.76	1.62	66.45	-2.03	5.04
Rohn-LD3P	-0.11	0.13	-1.57	0.12	95.15	0.04	14.04
Rohn-LD31	0.41	1.50	-66.23	11.51	1.10	1.95	-9.77
Rohn-LD32	-0.63	-1.62	-66.45	-11.42	1.01	-1.96	-9.82
Rohn-LE1P	-0.11	-0.12	-95.15	0.11	3.45	-0.00	-13.76
Rohn-LE11	0.41	-11.51	-1.10	-9.18	56.05	-3.10	8.24
Rohn-LE12	-0.63	11.42	-1.01	9.26	55.93	3.10	8.24
Rohn-LE2P	-0.11	-0.11	-3.45	-0.33	7.38	-0.07	0.59
Rohn-LE21	0.41	9.18	-56.05	-4.01	45.42	0.77	-1.59
Rohn-LE22	-0.63	-9.26	-55.93	4.01	45.95	-0.79	-1.49
Rohn-LE3P	-0.11	0.33	-7.38	0.59	149.03	0.14	21.26
Rohn-LE31	0.41	4.01	-45.42	22.98	-15.85	4.05	-9.19
Rohn-LE32	-0.63	-4.01	-45.95	-22.78	-17.12	-4.02	-9.46
Rohn-LF1P	-0.11	-0.59	-149.03	-1.07	-94.88	-0.17	-24.38
Rohn-LF11	0.41	-22.98	15.85	-35.44	181.53	-5.84	19.72
Rohn-LF12	-0.63	22.78	17.12	34.92	182.73	5.77	19.97
Rohn-LF2P	-0.11	1.07	94.88	0.63	241.55	0.17	33.62
Rohn-LF21	0.41	35.44	-181.53	38.89	-76.62	7.43	-25.80
Rohn-LF22	-0.63	-34.92	-182.73	-38.98	-77.85	-7.38	-26.04
Rohn-LG1P	-0.11	-0.63	-241.55	-1.00	-131.47	-0.16	-37.28
Rohn-LG11	0.41	-38.89	76.62	-42.94	208.44	-8.18	28.48
Rohn-LG12	-0.63	38.98	77.85	42.40	209.36	8.13	28.70
Rohn-LG2P	-0.11	1.00	131.47	0.37	271.07	0.14	40.23
Rohn-LG21	0.41	42.94	-208.44	47.72	-91.83	9.06	-30.00
Rohn-LG22	-0.63	-42.40	-209.36	-48.07	-92.37	-9.04	-30.15
Rohn-LH1P	-0.11	-0.37	-271.07	-0.41	-161.00	-0.08	-43.18
Rohn-LH11	0.40	-47.72	91.83	-54.38	235.98	-10.20	32.76
Rohn-LH12	-0.62	48.07	92.37	54.04	236.48	10.20	32.86
Rohn-LH2P	-0.11	0.41	161.00	0.03	346.61	0.04	50.73
Rohn-LH21	0.41	54.38	-235.98	69.15	-125.90	12.34	-36.16
Rohn-LH22	-0.63	-54.04	-236.48	-69.54	-126.39	-12.35	-36.26
Rohn-LI1P	-0.11	-0.03	-346.61	-1.07	-248.39	-0.11	-59.46
Rohn-LI11	0.40	-69.15	125.90	-97.70	392.89	-16.67	51.84
Rohn-LI12	-0.62	69.54	126.39	97.34	392.95	16.68	51.89
Rohn-LI2P	-0.11	1.07	248.39	1.89	555.33	0.30	80.32
Rohn-LI21	0.40	97.70	-392.89	94.36	-105.24	19.19	-49.78
Rohn-LI22	-0.62	-97.34	-392.95	-95.76	-103.55	-19.30	-49.61
Rohn-H1P	0.02	0.39	0.01	0.54	-0.06	0.12	-0.01
Rohn-H11	0.02	-0.10	0.05	0.06	0.18	-0.01	0.03
Rohn-H12	0.02	-0.67	0.24	-0.51	0.18	-0.16	0.06
Rohn-H2P	-0.03	0.71	-0.14	0.84	-0.25	0.17	-0.04
Rohn-H21	0.01	-0.02	-0.16	-0.03	0.07	-0.01	-0.01

Rohn-H22	0.04	-0.85	0.17	-0.72	0.06	-0.18	0.03
SNB-LA1P	-0.00	0.08	76.46	0.35	13.32	0.09	17.94
SNB-LA11	0.02	64.79	-35.89	12.72	-6.30	15.49	-8.43
SNB-LA12	-0.02	-65.20	-36.23	-13.16	-6.97	-15.66	-8.63
SNB-LA2P	-0.00	-0.35	-13.32	-0.62	7.84	-0.20	-1.10
SNB-LA21	0.02	-12.72	6.30	2.40	-4.91	-2.06	0.28
SNB-LA22	-0.02	13.16	6.97	-2.21	-4.08	2.19	0.58
SNB-LA3P	-0.00	0.62	-7.83	0.42	-22.15	0.21	-5.99
SNB-LA31	0.02	-2.40	4.91	-14.17	18.52	-3.31	4.68
SNB-LA32	-0.02	2.21	4.08	13.81	17.83	3.20	4.38
SNB-LA4P	-0.00	-0.42	22.15	-0.26	74.16	-0.14	19.25
SNB-LA41	0.02	14.17	-18.52	48.17	-34.08	12.46	-10.51
SNB-LA42	-0.02	-13.81	-17.83	-47.82	-33.57	-12.32	-10.27
SNB-LB1P	-0.00	0.29	118.86	0.19	15.99	0.10	26.95
SNB-LB11	0.42	97.69	-40.38	11.65	16.84	21.85	-4.71
SNB-LB12	-0.42	-97.73	-40.74	-11.65	16.62	-21.86	-4.82
SNB-LB2P	-0.00	-0.19	-15.99	-0.06	45.09	-0.05	5.81
SNB-LB21	0.42	-11.65	-16.84	16.67	-10.12	1.00	-5.39
SNB-LB22	-0.42	11.65	-16.62	-16.51	-9.96	-0.97	-5.31
SNB-LB3P	-0.00	0.06	-45.09	0.14	-61.50	0.04	-21.30
SNB-LB31	0.42	-16.67	10.12	-43.83	59.77	-12.09	13.97
SNB-LB32	-0.42	16.51	9.96	43.91	59.66	12.07	13.91
SNB-LB4P	-0.00	-0.14	61.50	-0.02	223.84	-0.03	57.03
SNB-LB41	0.42	43.83	-59.77	135.29	-74.75	35.80	-26.88
SNB-LB42	-0.42	-43.91	-59.66	-135.19	-74.66	-35.79	-26.84
SNB-LC1P	-0.00	0.01	80.35	0.03	56.99	0.01	20.61
SNB-LC11	0.85	100.62	-51.79	39.07	9.49	20.96	-6.35
SNB-LC12	-0.85	-100.76	-51.89	-39.10	9.44	-20.98	-6.37
SNB-LC2P	-0.00	-0.03	-56.99	0.03	-54.18	0.00	-16.63
SNB-LC21	0.85	-39.07	-9.49	-52.96	71.85	-13.77	9.33
SNB-LC22	-0.85	39.10	-9.44	52.94	71.81	13.77	9.33
SNB-LC3P	-0.00	-0.03	54.18	-0.01	256.79	-0.01	46.66
SNB-LC31	0.85	52.96	-71.85	164.40	-99.23	32.61	-25.67
SNB-LC32	-0.85	-52.94	-71.81	-164.19	-99.10	-32.58	-25.64
SNB-LD1P	-0.00	0.03	226.08	0.21	129.99	0.04	53.43
SNB-LD11	1.12	235.94	-124.33	65.62	26.95	45.24	-14.61
SNB-LD12	-1.12	-236.10	-124.45	-65.50	26.78	-45.25	-14.65
SNB-LD2P	-0.00	-0.21	-129.99	0.03	-73.33	-0.03	-30.42
SNB-LD21	1.12	-65.62	-26.95	-54.65	125.22	-17.99	14.70
SNB-LD22	-1.11	65.50	-26.78	54.94	125.35	18.02	14.74
SNB-LD3P	-0.00	-0.03	73.33	0.05	345.56	0.00	62.86
SNB-LD31	1.12	54.65	-125.22	158.74	-90.84	32.02	-32.42
SNB-LD32	-1.12	-54.94	-125.35	-158.74	-90.88	-32.06	-32.44
SNB-LE1P	-0.01	-0.09	293.63	0.31	183.47	0.03	71.58
SNB-LE11	1.90	351.11	-188.39	102.18	61.52	68.01	-19.04
SNB-LE12	-1.90	-351.38	-188.45	-102.05	61.24	-68.03	-19.09
SNB-LE2P	-0.01	-0.31	-183.47	-0.22	-158.07	-0.08	-51.09
SNB-LE21	1.89	-102.18	-61.52	-148.97	240.50	-37.57	26.77
SNB-LE22	-1.89	102.05	-61.24	149.43	241.02	37.62	26.89
SNB-LE3P	-0.01	0.22	158.07	0.18	921.35	0.06	161.96
SNB-LE31	1.91	148.98	-240.50	546.05	-388.72	104.28	-94.40
SNB-LE32	-1.91	-149.43	-241.02	-546.93	-389.44	-104.48	-94.59
SNB-LF1P	0.01	-0.29	41.32	-0.64	-221.32	-0.09	-17.99
SNB-LF11	2.73	274.64	-69.05	-60.50	356.29	21.40	28.70
SNB-LF12	-2.75	-274.24	-68.49	60.41	356.97	-21.37	28.83
SNB-LF2P	0.01	0.64	221.33	0.22	944.80	0.09	116.53
SNB-LF21	2.74	60.51	-356.29	463.84	-433.39	52.39	-78.91
SNB-LF22	-2.75	-60.41	-356.97	-464.87	-434.23	-52.49	-79.06
SNB-LG1P	0.02	-0.27	531.23	-1.42	-290.41	-0.17	24.06
SNB-LG11	4.42	821.20	-300.41	-66.22	594.44	75.44	29.38
SNB-LG12	-4.45	-820.32	-299.59	65.31	595.54	-75.44	29.57
SNB-LG2P	0.02	1.42	290.42	0.44	1659.60	0.19	194.87
SNB-LG21	4.42	66.22	-594.44	903.42	-735.78	96.89	-132.92
SNB-LG22	-4.45	-65.31	-595.54	-904.56	-736.93	-96.91	-133.14
SNB-LH1P	0.01	-0.45	240.08	-1.46	-351.13	-0.19	-11.10
SNB-LH11	4.13	725.98	-198.23	-69.64	630.95	65.58	43.24
SNB-LH12	-4.16	-724.88	-197.08	68.76	632.12	-65.56	43.47
SNB-LH2P	0.01	1.46	351.13	0.55	1575.43	0.20	192.53
SNB-LH21	4.13	69.64	-630.95	735.17	-683.05	80.42	-131.30

SNB-LH22	-4.15	-68.76	-632.11	-736.23	-684.28	-80.44	-131.54
SNB-LI1P	0.00	-0.54	673.29	-2.04	-185.62	-0.26	48.73
SNB-LI11	2.25	1210.71	-433.61	164.34	794.22	137.40	36.03
SNB-LI12	-2.27	-1209.58	-432.34	-165.89	795.66	-137.44	36.30
SNB-LI2P	0.00	2.04	185.62	1.17	1170.80	0.32	135.55
SNB-LI21	2.21	-164.33	-794.22	30.92	-197.80	-13.33	-99.13
SNB-LI22	-2.23	165.88	-795.66	-31.22	-199.23	13.46	-99.41
SNB-H1aP	-0.30	44.32	-2.70	145.17	-2.02	93.79	-2.34
SNB-H1bP	-0.30	-145.17	2.03	-41.66	-1.20	-92.47	0.41
SNB-H1cP	-0.07	43.71	1.12	144.33	3.76	93.07	2.42
SNB-H1dP	-0.07	-144.33	-3.76	-43.92	-1.13	-93.17	-2.42
SNB-H1eP	0.37	41.94	1.20	145.01	-2.11	92.53	-0.45
SNB-H1fP	0.37	-145.01	2.11	-44.36	2.71	-93.73	2.38
SNB-H2aP	-1.05	112.00	-0.55	152.48	-0.53	97.85	-0.40
SNB-H2bP	-1.05	-152.48	0.53	-86.53	-1.30	-88.43	-0.28
SNB-H2cP	0.01	101.70	0.56	150.15	2.43	93.18	1.11
SNB-H2dP	0.01	-150.15	-2.43	-101.48	-0.57	-93.10	-1.11
SNB-H2eP	1.03	86.38	1.30	152.51	-0.58	88.38	0.26
SNB-H2fP	1.03	-152.51	0.58	-112.08	0.55	-97.89	0.42
SNB-H3aP	-0.52	175.93	0.92	205.94	0.49	112.83	0.42
SNB-H3bP	-0.52	-205.94	-0.49	-146.34	-2.06	-104.09	-0.75
SNB-H3cP	0.00	162.33	1.29	204.80	3.30	108.48	1.36
SNB-H3dP	0.00	-204.80	-3.30	-162.37	-1.29	-108.49	-1.36
SNB-H3eP	0.52	146.35	2.06	205.94	0.49	104.09	0.75
SNB-H3fP	0.52	-205.94	-0.49	-175.92	-0.93	-112.83	-0.42
SNB-H4aP	-0.70	279.17	2.14	330.50	1.16	149.94	0.81
SNB-H4bP	-0.70	-330.50	-1.16	-258.39	-3.14	-144.83	-1.06
SNB-H4cP	-0.00	270.62	2.61	329.16	5.59	147.51	2.02
SNB-H4dP	-0.00	-329.16	-5.59	-270.57	-2.61	-147.50	-2.02
SNB-H4eP	0.70	258.37	3.14	330.49	1.15	144.83	1.06
SNB-H4fP	0.70	-330.49	-1.15	-279.20	-2.13	-149.95	-0.81
SNB-H5aP	-0.76	369.52	3.23	426.47	1.46	167.69	0.99
SNB-H5bP	-0.76	-426.47	-1.46	-322.69	-4.63	-157.83	-1.28
SNB-H5cP	-0.00	347.93	3.33	424.96	8.28	162.83	2.44
SNB-H5dP	-0.00	-424.96	-8.28	-348.13	-3.32	-162.87	-2.44
SNB-H5eP	0.76	322.80	4.63	426.46	1.46	157.85	1.28
SNB-H5fP	0.76	-426.46	-1.46	-369.43	-3.23	-167.67	-0.99
SNB-H6aP	-3.63	557.99	3.09	659.13	1.90	224.22	0.92
SNB-H6bP	-3.63	-659.13	-1.91	-530.38	-4.76	-219.13	-1.23
SNB-H6cP	0.01	552.49	3.38	651.33	7.42	221.77	1.99
SNB-H6dP	0.01	-651.33	-7.42	-552.89	-3.38	-221.84	-1.99
SNB-H6eP	3.62	530.57	4.77	659.15	1.92	219.17	1.23
SNB-H6fP	3.62	-659.15	-1.92	-557.78	-3.10	-224.18	-0.92
SNB-H7aP	-2.94	853.92	0.33	980.67	-0.73	300.27	-0.06
SNB-H7bP	-2.94	-980.67	0.72	-848.55	-2.24	-299.39	-0.25
SNB-H7cP	0.01	858.45	0.28	974.77	4.31	300.05	0.75
SNB-H7dP	0.01	-974.77	-4.31	-858.58	-0.27	-300.07	-0.75
SNB-H7eP	2.93	848.59	2.24	980.69	-0.71	299.40	0.25
SNB-H7fP	2.93	-980.69	0.72	-853.83	-0.34	-300.26	0.06
SNB-H8aP	-0.59	1097.13	0.53	1186.50	-0.75	336.30	-0.03
SNB-H8bP	-0.59	-1186.50	0.75	-1078.19	-1.29	-333.51	-0.08
SNB-H8cP	0.00	1090.12	1.31	1186.34	4.67	335.24	0.88
SNB-H8dP	0.00	-1186.34	-4.67	-1090.16	-1.32	-335.25	-0.88
SNB-H8eP	0.59	1078.19	1.29	1186.50	-0.77	333.51	0.08
SNB-H8fP	0.59	-1186.50	0.77	-1097.11	-0.52	-336.29	0.04
SNB-H9aP	-1.72	1299.28	0.35	1369.31	-1.09	357.14	-0.10
SNB-H9bP	-1.72	-1369.31	1.08	-1289.56	-0.13	-355.84	0.13
SNB-H9cP	0.00	1300.03	1.76	1367.18	4.43	356.96	0.83
SNB-H9dP	0.00	-1367.18	-4.43	-1299.98	-1.76	-356.95	-0.83
SNB-H9eP	1.71	1289.52	0.13	1369.31	-1.09	355.84	-0.13
SNB-H9fP	1.72	-1369.31	1.10	-1299.30	-0.35	-357.14	0.10

*** Analysis Results for Load Case No. 4 "5: 0.9D + 1.0Dg + 1.0E" - Number of iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "5: 0.9D + 1.0Dg + 1.0E":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	0.1388	5.718e-005	-0.01298	0.0001	0.0793	-0.0008	4.472	5.718e-005	180
RohnBP	0.111	8.475e-005	-0.01373	0.0000	0.0783	-0.0004	5.232	8.475e-005	160
RohnCP	0.0843	8.008e-005	-0.01368	-0.0000	0.0727	-0.0003	5.993	8.008e-005	140
RohnDP	0.06055	6.915e-005	-0.01287	-0.0000	0.0620	-0.0002	6.756	6.915e-005	120
RohnEP	0.04099	5.136e-005	-0.0109	-0.0001	0.0484	-0.0001	7.522	5.136e-005	99.99
RohnFP	0.02586	2.851e-005	-0.009061	-0.0001	0.0359	-0.0001	8.294	2.851e-005	79.99
RohnGP	0.01439	9.294e-006	-0.00705	-0.0000	0.0270	-0.0001	9.069	9.294e-006	59.99
RohnHP	0.006366	-4.012e-007	-0.004929	-0.0000	0.0178	-0.0000	9.847	-4.012e-007	40
RohnIP	0.001672	-3.446e-006	-0.002369	0.0000	0.0069	-0.0000	10.63	-3.446e-006	20
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	0.1388	0.0001254	-0.006633	-0.0000	0.0745	-0.0000	2.472	0.0001254	180
SNB-BP	0.111	0.0001128	-0.00751	-0.0000	0.0746	-0.0000	3.232	0.0001128	160
SNB-CP	0.08431	0.0001022	-0.007996	-0.0000	0.0689	-0.0000	3.992	0.0001022	140
SNB-DP	0.06056	8.784e-005	-0.007856	-0.0000	0.0560	-0.0000	4.756	8.784e-005	120
SNB-EP	0.04099	6.877e-005	-0.006857	-0.0001	0.0440	-0.0000	5.522	6.877e-005	99.99
SNB-FP	0.02586	4.505e-005	-0.006133	-0.0001	0.0318	-0.0000	6.294	4.505e-005	79.99
SNB-GP	0.01439	2.36e-005	-0.004907	-0.0001	0.0191	-0.0000	7.069	2.36e-005	60
SNB-HP	0.006366	9.146e-006	-0.003534	-0.0000	0.0115	-0.0000	7.847	9.146e-006	40
SNB-IP	0.001672	1.721e-006	-0.001738	-0.0000	0.0026	-0.0000	8.63	1.721e-006	20
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.1387	0.000163	-0.004076	-0.0006	0.0796	-0.0012	-2.028	-3.752	180
RohnA2	0.1389	0.0001658	-0.004094	0.0002	0.0800	-0.0004	-2.028	3.753	180
RohnB1	0.111	0.0001296	-0.003469	0.0001	0.0792	-0.0012	-2.45	-4.435	160
RohnB2	0.111	0.0001221	-0.00347	-0.0002	0.0793	0.0004	-2.449	4.435	160
RohnC1	0.08424	0.000142	-0.00287	-0.0002	0.0725	-0.0015	-2.87	-5.117	140
RohnC2	0.08428	8.51e-005	-0.002876	0.0001	0.0725	0.0010	-2.87	5.117	140
RohnD1	0.06045	0.0001367	-0.002296	-0.0004	0.0624	-0.0015	-3.287	-5.798	120
RohnD2	0.06048	5.67e-005	-0.002303	0.0003	0.0625	0.0011	-3.287	5.798	120
RohnE1	0.04092	9.786e-005	-0.001692	-0.0002	0.0485	-0.0012	-3.7	-6.479	100
RohnE2	0.04095	5.831e-005	-0.001707	0.0000	0.0485	0.0010	-3.7	6.479	100
RohnF1	0.02575	9.135e-005	-0.001228	-0.0002	0.0392	-0.0011	-4.108	-7.16	80
RohnF2	0.02579	1.808e-005	-0.001251	0.0001	0.0392	0.0009	-4.108	7.16	80
RohnG1	0.01433	5.512e-005	-0.0008624	-0.0001	0.0278	-0.0008	-4.513	-7.842	60
RohnG2	0.01435	7.214e-006	-0.0008815	-0.0000	0.0278	0.0007	-4.513	7.842	60
RohnH1	0.006299	4.092e-005	-0.0005537	-0.0001	0.0185	-0.0005	-4.914	-8.523	40
RohnH2	0.006315	-1.342e-005	-0.000565	0.0001	0.0185	0.0005	-4.914	8.523	40
RohnI1	0.001622	2.446e-005	-0.0002615	-0.0003	0.0090	-0.0003	-5.313	-9.206	20
RohnI2	0.00163	-1.622e-005	-0.0002664	0.0003	0.0090	0.0002	-5.313	9.206	20
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	0.1388	0.0001249	-0.00177	-0.0044	0.0823	-0.0001	-1.028	-2.02	180
SNB-A2	0.1388	0.0001264	-0.001773	0.0043	0.0823	0.0001	-1.028	2.021	180
SNB-B1	0.111	0.0001124	-0.00118	-0.0028	0.0802	-0.0001	-1.449	-2.703	160
SNB-B2	0.111	0.0001137	-0.001183	0.0027	0.0802	0.0001	-1.449	2.703	160
SNB-C1	0.08431	0.0001015	-0.000674	-0.0031	0.0747	-0.0002	-1.87	-3.384	140
SNB-C2	0.08431	0.0001033	-0.0006784	0.0030	0.0747	0.0002	-1.87	3.385	140
SNB-D1	0.06053	8.826e-005	-0.0003143	-0.0051	0.0656	-0.0003	-2.287	-4.066	120
SNB-D2	0.06053	8.786e-005	-0.000321	0.0050	0.0656	0.0003	-2.287	4.066	120
SNB-E1	0.04097	7.103e-005	-0.0001382	-0.0031	0.0498	-0.0003	-2.7	-4.747	100
SNB-E2	0.04097	6.687e-005	-0.0001483	0.0030	0.0498	0.0003	-2.7	4.747	100
SNB-F1	0.02583	4.48e-005	-1.133e-006	-0.0045	0.0417	-0.0002	-3.108	-5.428	80
SNB-F2	0.02583	4.549e-005	-1.28e-005	0.0043	0.0417	0.0002	-3.108	5.428	80
SNB-G1	0.01436	3.242e-005	5.173e-005	-0.0059	0.0314	-0.0003	-3.513	-6.11	60
SNB-G2	0.01436	1.495e-005	4.147e-005	0.0058	0.0314	0.0003	-3.513	6.11	60
SNB-H1	0.006335	2.037e-005	6.698e-005	-0.0056	0.0215	-0.0003	-3.914	-6.79	40
SNB-H2	0.006335	-1.845e-006	5.978e-005	0.0055	0.0215	0.0003	-3.914	6.791	40
SNB-I1	0.001636	1.659e-005	3.617e-005	-0.0042	0.0113	-0.0002	-4.312	-7.472	20
SNB-I2	0.001636	-1.299e-005	3.29e-005	0.0042	0.0113	0.0002	-4.312	7.472	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	0.1318	6.122e-005	-0.01322	0.0001	0.0800	-0.0007	4.662	6.122e-005	175
RohnAbS	0.1249	6.829e-005	-0.01343	0.0002	0.0796	-0.0006	4.852	6.829e-005	170
RohnAcS	0.1179	8.466e-005	-0.0136	0.0001	0.0794	-0.0005	5.042	8.466e-005	165
RohnBaS	0.1042	8.623e-005	-0.0138	0.0000	0.0779	-0.0004	5.422	8.623e-005	155
RohnBbS	0.09743	8.412e-005	-0.01383	-0.0000	0.0765	-0.0003	5.612	8.412e-005	150
RohnBcS	0.09084	8.244e-005	-0.01378	-0.0000	0.0753	-0.0003	5.803	8.244e-005	145
RohnCaS	0.0761	7.691e-005	-0.01353	-0.0000	0.0688	-0.0002	6.247	7.691e-005	133.3
RohnCbS	0.06817	7.287e-005	-0.01327	-0.0000	0.0672	-0.0002	6.501	7.287e-005	126.6
RohnDaS	0.05362	6.547e-005	-0.01234	-0.0000	0.0571	-0.0002	7.01	6.547e-005	113.3
RohnDbS	0.04711	5.838e-005	-0.01166	-0.0001	0.0545	-0.0001	7.266	5.838e-005	106.6
RohnEaS	0.03567	4.36e-005	-0.01034	-0.0001	0.0438	-0.0001	7.779	4.36e-005	93.33
RohnEbS	0.03059	3.537e-005	-0.009727	-0.0001	0.0429	-0.0001	8.037	3.537e-005	86.65
RohnFaS	0.02004	1.567e-005	-0.008104	-0.0001	0.0332	-0.0001	8.682	1.567e-005	69.99
RohnGaS	0.01032	1.844e-006	-0.006026	-0.0000	0.0229	-0.0000	9.458	1.844e-006	49.99
RohnHaS	0.00397	-2.898e-006	-0.003683	-0.0000	0.0135	-0.0000	10.24	-2.898e-006	30
RohnIaS	0.0008134	-2.563e-006	-0.001208	0.0000	0.0050	-0.0000	11.03	-2.563e-006	9.999
SNB-AaS	0.1319	0.0001222	-0.006885	-0.0001	0.0814	-0.0000	2.662	0.0001222	175
SNB-AbS	0.1249	0.0001158	-0.007123	-0.0000	0.0790	-0.0000	2.852	0.0001158	170
SNB-AcS	0.1179	0.000116	-0.007331	-0.0000	0.0805	-0.0000	3.042	0.000116	165
SNB-BaS	0.1042	0.0001107	-0.007679	-0.0000	0.0790	-0.0000	3.422	0.0001107	155
SNB-BbS	0.09744	0.0001081	-0.007819	-0.0000	0.0761	-0.0000	3.612	0.0001081	150
SNB-BcS	0.09085	0.0001055	-0.007922	-0.0000	0.0765	-0.0000	3.802	0.0001055	145
SNB-CaS	0.07611	9.772e-005	-0.00802	-0.0000	0.0695	-0.0000	4.246	9.772e-005	133.3
SNB-CbS	0.06817	9.292e-005	-0.007964	-0.0000	0.0686	-0.0000	4.501	9.292e-005	126.7
SNB-DaS	0.05363	8.249e-005	-0.00761	-0.0001	0.0585	-0.0000	5.01	8.249e-005	113.3
SNB-DbS	0.04712	7.587e-005	-0.007263	-0.0001	0.0555	-0.0000	5.266	7.587e-005	106.7
SNB-EaS	0.03568	6.123e-005	-0.006668	-0.0001	0.0449	-0.0000	5.779	6.123e-005	93.33
SNB-EbS	0.03059	5.299e-005	-0.00642	-0.0001	0.0438	-0.0000	6.037	5.299e-005	86.65
SNB-FaS	0.02004	3.302e-005	-0.00556	-0.0001	0.0363	-0.0000	6.682	3.302e-005	69.99
SNB-GaS	0.01032	1.49e-005	-0.004255	-0.0000	0.0265	-0.0000	7.458	1.49e-005	50
SNB-HaS	0.00397	4.006e-006	-0.002667	-0.0000	0.0163	-0.0000	8.238	4.006e-006	30
SNB-IaS	0.0008134	-9.776e-008	-0.0008937	-0.0000	0.0062	-0.0000	9.022	-9.776e-008	9.999
SNB-WL-A1S	0.1388	0.0001236	-0.004331	-0.0022	0.0783	0.0000	0.7221	-1.01	180
SNB-WL-A2S	0.1388	0.0001256	-0.001899	-0.0000	0.0823	-0.0000	-1.028	0.0001256	180
SNB-WL-A3S	0.1388	0.0001276	-0.004332	0.0021	0.0783	-0.0000	0.7221	1.01	180
SNB-WL-B1S	0.111	0.0001114	-0.004538	-0.0009	0.0766	-0.0000	0.8913	-1.351	160
SNB-WL-B2S	0.111	0.0001131	-0.001366	-0.0000	0.0802	-0.0000	-1.449	0.0001131	160
SNB-WL-B3S	0.111	0.0001146	-0.00454	0.0009	0.0766	-0.0000	0.8913	1.352	160
SNB-WL-C1S	0.08431	0.000101	-0.004702	-0.0009	0.0705	-0.0000	1.061	-1.692	140
SNB-WL-C2S	0.08431	0.0001024	-0.001037	-0.0000	0.0747	-0.0000	-1.87	0.0001024	140
SNB-WL-C3S	0.08431	0.0001037	-0.004704	0.0008	0.0705	0.0000	1.061	1.692	140
SNB-WL-D1S	0.06055	8.646e-005	-0.00491	-0.0020	0.0598	-0.0001	1.234	-2.033	120
SNB-WL-D2S	0.06055	8.806e-005	-0.00113	-0.0000	0.0656	-0.0000	-2.287	8.806e-005	120
SNB-WL-D3S	0.06055	8.946e-005	-0.004913	0.0019	0.0598	0.0001	1.234	2.033	120
SNB-WL-E1S	0.04098	6.787e-005	-0.004072	-0.0010	0.0458	-0.0001	1.411	-2.373	100
SNB-WL-E2S	0.04098	6.895e-005	-0.0007108	-0.0001	0.0498	-0.0000	-2.7	6.895e-005	100
SNB-WL-E3S	0.04098	6.985e-005	-0.004077	0.0008	0.0458	0.0001	1.411	2.373	100
SNB-WL-F1S	0.02585	4.38e-005	-0.004215	-0.0018	0.0360	-0.0001	1.593	-2.714	80
SNB-WL-F2S	0.02585	4.514e-005	-0.001108	-0.0001	0.0417	-0.0000	-3.108	4.514e-005	80
SNB-WL-F3S	0.02585	4.634e-005	-0.004221	0.0017	0.0360	0.0001	1.593	2.714	80
SNB-WL-G1S	0.01438	2.226e-005	-0.004505	-0.0029	0.0251	-0.0001	1.778	-3.055	60
SNB-WL-G2S	0.01438	2.368e-005	-0.001984	-0.0000	0.0314	-0.0000	-3.513	2.368e-005	60
SNB-WL-G3S	0.01438	2.499e-005	-0.004511	0.0028	0.0251	0.0001	1.778	3.055	60
SNB-WL-H1S	0.006354	8.152e-006	-0.004696	-0.0024	0.0159	-0.0001	1.967	-3.395	40
SNB-WL-H2S	0.006356	9.26e-006	-0.00289	-0.0000	0.0215	-0.0000	-3.914	9.26e-006	40
SNB-WL-H3S	0.006354	1.028e-005	-0.0047	0.0024	0.0159	0.0001	1.967	3.395	40
SNB-WL-I1S	0.001658	1.076e-006	-0.00488	-0.0019	0.0066	-0.0001	2.159	-3.736	20
SNB-WL-I2S	0.00166	1.801e-006	-0.003956	-0.0000	0.0113	0.0000	-4.312	1.801e-006	20
SNB-WL-I3S	0.001658	2.484e-006	-0.004881	0.0019	0.0066	0.0001	2.159	3.736	20
RohnAa1	0.1318	0.0001262	-0.003922	-0.0002	0.0795	-0.0012	-2.133	-3.923	175
RohnAa2	0.1319	0.0001723	-0.003934	-0.0002	0.0801	-0.0002	-2.133	3.923	175
RohnAb1	0.1248	0.000132	-0.003769	-0.0000	0.0800	-0.0012	-2.239	-4.094	170
RohnAb2	0.1249	0.0001392	-0.003773	-0.0002	0.0803	0.0000	-2.239	4.094	170
RohnAc1	0.1179	0.0001207	-0.003615	-0.0001	0.0791	-0.0012	-2.344	-4.264	165
RohnAc2	0.1179	0.000142	-0.003617	-0.0001	0.0792	0.0002	-2.344	4.264	165
RohnBa1	0.1041	0.0001232	-0.003317	-0.0003	0.0776	-0.0013	-2.555	-4.605	155
RohnBa2	0.1041	0.000124	-0.00332	0.0002	0.0776	0.0005	-2.555	4.606	155
RohnBb1	0.09743	0.0001035	-0.003178	-0.0001	0.0767	-0.0014	-2.66	-4.776	150
RohnBb2	0.09747	0.0001378	-0.003182	0.0000	0.0768	0.0007	-2.66	4.776	150

RohnBc1	0.0907	0.00012	-0.003015	0.0003	0.0760	-0.0015	-2.765	-4.947	145
RohnBc2	0.09074	0.0001145	-0.00302	-0.0004	0.0761	0.0009	-2.765	4.947	145
RohnCa1	0.07593	9.115e-005	-0.00269	-0.0004	0.0703	-0.0015	-3.009	-5.344	133.3
RohnCa2	0.07597	0.0001259	-0.002698	0.0003	0.0703	0.0011	-3.009	5.344	133.3
RohnCb1	0.06793	9.352e-005	-0.002499	0.0004	0.0665	-0.0015	-3.149	-5.571	126.7
RohnCb2	0.06796	0.0001111	-0.002507	-0.0005	0.0666	0.0011	-3.149	5.571	126.7
RohnDa1	0.05334	6.572e-005	-0.002096	-0.0004	0.0594	-0.0014	-3.425	-6.025	113.3
RohnDa2	0.05338	0.0001172	-0.002106	0.0003	0.0594	0.0011	-3.425	6.025	113.3
RohnDb1	0.04675	8.713e-005	-0.001874	0.0003	0.0530	-0.0013	-3.563	-6.252	106.7
RohnDb2	0.04678	8.316e-005	-0.001886	-0.0004	0.0531	0.0010	-3.563	6.252	106.7
RohnEa1	0.03541	7.791e-005	-0.001526	-0.0001	0.0456	-0.0012	-3.836	-6.706	93.34
RohnEa2	0.03544	6.315e-005	-0.001543	-0.0000	0.0456	0.0010	-3.836	6.706	93.34
RohnEb1	0.03037	8.549e-005	-0.001369	0.0001	0.0410	-0.0011	-3.973	-6.933	86.66
RohnEb2	0.0304	3.985e-005	-0.001389	-0.0003	0.0409	0.0009	-3.973	6.933	86.66
RohnFa1	0.01929	4.145e-005	-0.001025	-0.0001	0.0323	-0.0009	-4.311	-7.501	70
RohnFa2	0.01931	4.246e-005	-0.001045	-0.0000	0.0324	0.0007	-4.311	7.501	70
RohnGa1	0.009627	1.979e-005	-0.0006937	-0.0000	0.0229	-0.0006	-4.714	-8.182	50
RohnGa2	0.009646	2.295e-005	-0.0007086	-0.0001	0.0229	0.0006	-4.714	8.182	50
RohnHa1	0.003213	-4.496e-006	-0.0003925	-0.0000	0.0132	-0.0004	-5.115	-8.864	30
RohnHa2	0.003224	2.057e-005	-0.0004005	-0.0000	0.0133	0.0003	-5.115	8.864	30
RohnIa1	0.0002023	-3.448e-005	-0.0001228	-0.0001	0.0047	-0.0001	-5.512	-9.548	10
RohnIa2	0.0002058	3.743e-005	-0.0001252	0.0000	0.0048	0.0001	-5.512	9.548	10
SNB-Aa1	0.1318	0.0001048	-0.001617	0.0011	0.0792	-0.0002	-1.133	-2.191	175
SNB-Aa2	0.1318	0.0001369	-0.00162	-0.0012	0.0792	0.0002	-1.133	2.191	175
SNB-Ab1	0.1249	0.0001179	-0.001466	-0.0004	0.0804	-0.0002	-1.239	-2.362	170
SNB-Ab2	0.1249	0.000118	-0.001469	0.0004	0.0804	0.0002	-1.239	2.362	170
SNB-Ac1	0.1179	0.0001097	-0.001318	0.0008	0.0788	-0.0002	-1.344	-2.532	165
SNB-Ac2	0.1179	0.0001197	-0.001321	-0.0008	0.0787	0.0002	-1.344	2.532	165
SNB-Ba1	0.1041	9.777e-005	-0.001038	0.0008	0.0777	-0.0002	-1.555	-2.873	155
SNB-Ba2	0.1041	0.0001238	-0.001041	-0.0009	0.0777	0.0002	-1.555	2.873	155
SNB-Bb1	0.0974	0.0001179	-0.000907	-0.0004	0.0771	-0.0002	-1.66	-3.044	150
SNB-Bb2	0.0974	9.895e-005	-0.0009105	0.0003	0.0771	0.0002	-1.66	3.044	150
SNB-Bc1	0.09073	9.98e-005	-0.0007839	0.0007	0.0746	-0.0002	-1.765	-3.214	145
SNB-Bc2	0.09073	0.0001114	-0.0007878	-0.0008	0.0746	0.0002	-1.765	3.214	145
SNB-Ca1	0.07589	0.000112	-0.0005329	0.0005	0.0707	-0.0003	-2.009	-3.611	133.3
SNB-Ca2	0.07589	8.327e-005	-0.0005381	-0.0006	0.0707	0.0003	-2.009	3.611	133.3
SNB-Cb1	0.06792	9.831e-005	-0.0004087	0.0010	0.0649	-0.0003	-2.149	-3.839	126.7
SNB-Cb2	0.06792	8.748e-005	-0.0004146	-0.0011	0.0649	0.0003	-2.149	3.839	126.7
SNB-Da1	0.05332	8.101e-005	-0.000227	0.0012	0.0594	-0.0004	-2.425	-4.293	113.3
SNB-Da2	0.05332	8.38e-005	-0.0002348	-0.0013	0.0594	0.0004	-2.425	4.293	113.3
SNB-Db1	0.04673	9.628e-005	-0.0001627	0.0004	0.0522	-0.0003	-2.563	-4.52	106.7
SNB-Db2	0.04673	5.596e-005	-0.0001717	-0.0006	0.0522	0.0003	-2.563	4.52	106.7
SNB-Ea1	0.03545	5.218e-005	-7.356e-005	0.0005	0.0456	-0.0003	-2.836	-4.974	93.34
SNB-Ea2	0.03545	7.057e-005	-8.44e-005	-0.0007	0.0456	0.0003	-2.836	4.974	93.34
SNB-Eb1	0.0304	6.709e-005	-2.656e-005	0.0009	0.0401	-0.0002	-2.973	-5.201	86.66
SNB-Eb2	0.0304	3.975e-005	-3.795e-005	-0.0011	0.0401	0.0002	-2.973	5.201	86.66
SNB-Fa1	0.01925	6.207e-005	4.851e-005	0.0026	0.0310	-0.0002	-3.312	-5.769	70
SNB-Fa2	0.01925	5.706e-006	3.718e-005	-0.0027	0.0310	0.0002	-3.312	5.769	70
SNB-Ga1	0.009626	1.979e-005	7.93e-005	0.0028	0.0213	-0.0003	-3.714	-6.45	50
SNB-Ga2	0.009626	1.152e-005	7.042e-005	-0.0029	0.0213	0.0003	-3.714	6.45	50
SNB-Ha1	0.003229	-1.349e-005	7.113e-005	0.0024	0.0120	-0.0002	-4.114	-7.131	30
SNB-Ha2	0.003228	2.29e-005	6.584e-005	-0.0024	0.0120	0.0002	-4.114	7.131	30
SNB-Ia1	0.0001864	-2.527e-005	3.316e-005	0.0010	0.0042	-0.0001	-4.511	-7.813	10
SNB-Ia2	0.0001859	2.595e-005	3.152e-005	-0.0010	0.0042	0.0001	-4.511	7.813	10

Joint Support Reactions for Load Case "5: 0.9D + 1.0Dg + 1.0E":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-2.25	0.0	0.00	0.0	36.46	0.0	0.0	36.53	0.0	-0.00	0.0	-0.5	0.0	0.00	0.0	0.0
SNB-JP	-2.90	0.0	0.00	0.0	44.53	0.0	0.0	44.62	0.0	-0.00	0.0	-1.1	0.0	-0.00	0.0	0.0
RohnJ1	-0.03	0.0	0.09	0.0	4.00	0.0	0.0	4.00	0.0	-0.04	0.0	0.1	0.0	-0.00	0.0	0.0
RohnJ2	-0.03	0.0	-0.10	0.0	4.06	0.0	0.0	4.07	0.0	0.04	0.0	0.1	0.0	0.00	0.0	0.0
SNB-J1	-0.52	0.0	-0.66	0.0	-1.61	0.0	0.0	1.82	0.0	0.07	0.0	0.1	0.0	-0.01	0.0	0.0
SNB-J2	-0.52	0.0	0.66	0.0	-1.54	0.0	0.0	1.75	0.0	-0.07	0.0	0.1	0.0	0.01	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "5: 0.9D + 1.0Dg + 1.0E":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.0984	0.0000	-0.2657	-0.0984	0.0000	0.2657	0.1388	0.0001	-0.0130
RohnBP	0.1982	0.0000	-0.9541	-0.1982	0.0000	0.9541	0.1110	0.0001	-0.0137
RohnCP	0.0454	0.0000	-0.3841	-0.0454	0.0000	0.3841	0.0843	0.0001	-0.0137
RohnDP	0.0371	0.0000	-0.4656	-0.0371	0.0000	0.4656	0.0606	0.0001	-0.0129
RohnEP	0.0369	0.0000	-0.5771	-0.0369	0.0000	0.5771	0.0410	0.0001	-0.0109
RohnFP	0.0403	0.0000	-0.7827	-0.0403	0.0000	0.7827	0.0259	0.0000	-0.0091
RohnGP	0.0389	0.0000	-1.0426	-0.0389	0.0000	1.0426	0.0144	0.0000	-0.0070
RohnHP	0.0253	0.0000	-1.0378	-0.0253	0.0000	1.0378	0.0064	-0.0000	-0.0049
RohnIP	0.0172	0.0000	-1.1643	-0.0172	0.0000	1.1643	0.0017	-0.0000	-0.0024
RohnJP	0.0000	0.0000	-0.6292	2.2545	-0.0031	-35.8286	0.0000	0.0000	0.0000
SNB-AP	0.0517	0.0000	-0.1397	-0.0517	0.0000	0.1397	0.1388	0.0001	-0.0066
SNB-BP	0.0628	0.0000	-0.3025	-0.0628	0.0000	0.3025	0.1110	0.0001	-0.0075
SNB-CP	0.0454	0.0000	-0.3841	-0.0454	0.0000	0.3841	0.0843	0.0001	-0.0080
SNB-DP	0.0371	0.0000	-0.4656	-0.0371	0.0000	0.4656	0.0606	0.0001	-0.0079
SNB-EP	0.0369	0.0000	-0.5771	-0.0369	0.0000	0.5771	0.0410	0.0001	-0.0069
SNB-FP	0.0403	0.0000	-0.7827	-0.0403	0.0000	0.7827	0.0259	0.0000	-0.0061
SNB-GP	0.0355	0.0000	-0.9526	-0.0355	-0.0000	0.9526	0.0144	0.0000	-0.0049
SNB-HP	0.0253	0.0000	-1.0378	-0.0253	0.0000	1.0378	0.0064	0.0000	-0.0035
SNB-IP	0.0172	0.0000	-1.1643	-0.0172	0.0000	1.1643	0.0017	0.0000	-0.0017
SNB-JP	0.0000	0.0000	-0.6292	2.9005	-0.0009	-43.8977	0.0000	0.0000	0.0000
RohnA1	0.0984	0.0000	-0.2657	-0.0984	0.0000	0.2657	0.1387	0.0002	-0.0041
RohnA2	0.1450	0.0000	-0.3917	-0.1450	-0.0000	0.3917	0.1389	0.0002	-0.0041
RohnB1	0.0841	0.0000	-0.4051	-0.0841	0.0000	0.4051	0.1110	0.0001	-0.0035
RohnB2	0.0720	0.0000	-0.3466	-0.0720	-0.0000	0.3466	0.1110	0.0001	-0.0035
RohnC1	0.0454	0.0000	-0.3841	-0.0454	0.0000	0.3841	0.0842	0.0001	-0.0029
RohnC2	0.0454	0.0000	-0.3841	-0.0454	-0.0000	0.3841	0.0843	0.0001	-0.0029
RohnD1	0.0421	0.0000	-0.5286	-0.0421	0.0000	0.5286	0.0604	0.0001	-0.0023
RohnD2	0.0371	0.0000	-0.4656	-0.0371	-0.0000	0.4656	0.0605	0.0001	-0.0023
RohnE1	0.0369	0.0000	-0.5771	-0.0369	0.0000	0.5771	0.0409	0.0001	-0.0017
RohnE2	0.0369	0.0000	-0.5771	-0.0369	-0.0000	0.5771	0.0410	0.0001	-0.0017
RohnF1	0.0403	0.0000	-0.7827	-0.0403	0.0000	0.7827	0.0258	0.0001	-0.0012
RohnF2	0.0471	0.0000	-0.9132	-0.0471	-0.0000	0.9132	0.0258	0.0000	-0.0013
RohnG1	0.0375	0.0000	-1.0066	-0.0375	0.0000	1.0066	0.0143	0.0001	-0.0009
RohnG2	0.0408	0.0000	-1.0930	-0.0408	-0.0000	1.0930	0.0144	0.0000	-0.0009
RohnH1	0.0253	0.0000	-1.0378	-0.0253	-0.0000	1.0378	0.0063	0.0000	-0.0006
RohnH2	0.0253	0.0000	-1.0378	-0.0253	-0.0000	1.0378	0.0063	-0.0000	-0.0006
RohnI1	0.0172	0.0000	-1.1643	-0.0172	0.0000	1.1643	0.0016	0.0000	-0.0003
RohnI2	0.0172	0.0000	-1.1643	-0.0172	0.0000	1.1643	0.0016	-0.0000	-0.0003
RohnJ1	0.0000	0.0000	-0.6292	0.0254	-0.0946	-3.3667	0.0000	0.0000	0.0000
RohnJ2	0.0000	0.0000	-0.6292	0.0288	0.0979	-3.4350	0.0000	0.0000	0.0000
SNB-A1	0.0517	0.0000	-0.1397	-0.0517	-0.0000	0.1397	0.1388	0.0001	-0.0018
SNB-A2	0.0517	0.0000	-0.1397	-0.0517	0.0000	0.1397	0.1388	0.0001	-0.0018
SNB-B1	0.0628	0.0000	-0.3025	-0.0628	-0.0000	0.3025	0.1110	0.0001	-0.0012
SNB-B2	0.0628	0.0000	-0.3025	-0.0628	0.0000	0.3025	0.1110	0.0001	-0.0012
SNB-C1	0.0454	0.0000	-0.3841	-0.0454	-0.0000	0.3841	0.0843	0.0001	-0.0007
SNB-C2	0.0454	0.0000	-0.3841	-0.0454	0.0000	0.3841	0.0843	0.0001	-0.0007
SNB-D1	0.0371	0.0000	-0.4656	-0.0371	-0.0000	0.4656	0.0605	0.0001	-0.0003
SNB-D2	0.0371	0.0000	-0.4656	-0.0371	0.0000	0.4656	0.0605	0.0001	-0.0003
SNB-E1	0.0369	0.0000	-0.5771	-0.0369	-0.0000	0.5771	0.0410	0.0001	-0.0001
SNB-E2	0.0369	0.0000	-0.5771	-0.0369	0.0000	0.5771	0.0410	0.0001	-0.0001
SNB-F1	0.0403	0.0000	-0.7827	-0.0403	-0.0000	0.7827	0.0258	0.0000	-0.0000
SNB-F2	0.0403	0.0000	-0.7827	-0.0403	0.0000	0.7827	0.0258	0.0000	-0.0000
SNB-G1	0.0355	0.0000	-0.9526	-0.0355	-0.0000	0.9526	0.0144	0.0000	0.0001
SNB-G2	0.0355	0.0000	-0.9526	-0.0355	0.0000	0.9526	0.0144	0.0000	0.0000
SNB-H1	0.0253	0.0000	-1.0378	-0.0253	0.0000	1.0378	0.0063	0.0000	0.0001
SNB-H2	0.0253	0.0000	-1.0378	-0.0253	0.0000	1.0378	0.0063	-0.0000	0.0001
SNB-I1	0.0172	0.0000	-1.1643	-0.0172	-0.0000	1.1643	0.0016	0.0000	0.0000
SNB-I2	0.0172	0.0000	-1.1643	-0.0172	-0.0000	1.1643	0.0016	-0.0000	0.0000
SNB-J1	0.0000	0.0000	-0.6292	0.5249	0.6607	2.2426	0.0000	0.0000	0.0000
SNB-J2	0.0000	0.0000	-0.6292	0.5235	-0.6601	2.1664	0.0000	0.0000	0.0000
RohnAaS	0.0601	0.0000	-0.1868	-0.0601	0.0000	0.1868	0.1318	0.0001	-0.0132
RohnAbS	0.0390	0.0000	-0.1397	-0.0390	0.0000	0.1397	0.1249	0.0001	-0.0134
RohnAcS	0.0452	0.0000	-0.1877	-0.0452	0.0000	0.1877	0.1179	0.0001	-0.0136

RohnBaS	0.0292	0.0000	-0.1628	-0.0292	0.0000	0.1628	0.1042	0.0001	-0.0138
RohnBbS	0.1346	0.0000	-0.8685	-0.1346	0.0000	0.8685	0.0974	0.0001	-0.0138
RohnBcS	0.0219	0.0000	-0.1628	-0.0219	0.0000	0.1628	0.0908	0.0001	-0.0138
RohnCaS	0.0726	0.0000	-0.7183	-0.0726	0.0000	0.7183	0.0761	0.0001	-0.0135
RohnCbS	0.1145	0.0000	-1.2921	-0.1145	0.0000	1.2921	0.0682	0.0001	-0.0133
RohnDaS	0.0834	0.0000	-1.1394	-0.0834	0.0000	1.1394	0.0536	0.0001	-0.0123
RohnDbS	0.0166	0.0000	-0.2443	-0.0166	0.0000	0.2443	0.0471	0.0001	-0.0117
RohnEaS	0.0200	0.0000	-0.3328	-0.0200	0.0000	0.3328	0.0357	0.0000	-0.0103
RohnEbS	0.0186	0.0000	-0.3328	-0.0186	0.0000	0.3328	0.0306	0.0000	-0.0097
RohnFaS	0.0200	0.0000	-0.4499	-0.0200	0.0000	0.4499	0.0200	0.0000	-0.0081
RohnGaS	0.0153	0.0000	-0.5027	-0.0153	0.0000	0.5027	0.0103	0.0000	-0.0060
RohnHaS	0.0104	0.0000	-0.5351	-0.0104	0.0000	0.5351	0.0040	-0.0000	-0.0037
RohnIaS	0.0059	0.0000	-0.6292	-0.0059	0.0000	0.6292	0.0008	-0.0000	-0.0012
SNB-AaS	0.0450	0.0000	-0.1397	-0.0450	0.0000	0.1397	0.1319	0.0001	-0.0069
SNB-AbS	0.0390	0.0000	-0.1397	-0.0390	0.0000	0.1397	0.1249	0.0001	-0.0071
SNB-AcS	0.0337	0.0000	-0.1397	-0.0337	0.0000	0.1397	0.1179	0.0001	-0.0073
SNB-BaS	0.0292	0.0000	-0.1628	-0.0292	0.0000	0.1628	0.1042	0.0001	-0.0077
SNB-BbS	0.0252	0.0000	-0.1628	-0.0252	0.0000	0.1628	0.0974	0.0001	-0.0078
SNB-BcS	0.0219	0.0000	-0.1628	-0.0219	0.0000	0.1628	0.0908	0.0001	-0.0079
SNB-CaS	0.0224	0.0000	-0.2213	-0.0224	0.0000	0.2213	0.0761	0.0001	-0.0080
SNB-CbS	0.0196	0.0000	-0.2213	-0.0196	0.0000	0.2213	0.0682	0.0001	-0.0080
SNB-DaS	0.0179	0.0000	-0.2443	-0.0179	0.0000	0.2443	0.0536	0.0001	-0.0076
SNB-DbS	0.0166	0.0000	-0.2443	-0.0166	0.0000	0.2443	0.0471	0.0001	-0.0073
SNB-EaS	0.0200	0.0000	-0.3328	-0.0200	0.0000	0.3328	0.0357	0.0001	-0.0067
SNB-EbS	0.0186	0.0000	-0.3328	-0.0186	0.0000	0.3328	0.0306	0.0001	-0.0064
SNB-FaS	0.0200	0.0000	-0.4499	-0.0200	0.0000	0.4499	0.0200	0.0000	-0.0056
SNB-GaS	0.0153	0.0000	-0.5027	-0.0153	0.0000	0.5027	0.0103	0.0000	-0.0043
SNB-HaS	0.0104	0.0000	-0.5351	-0.0104	0.0000	0.5351	0.0040	0.0000	-0.0027
SNB-IaS	0.0059	0.0000	-0.6292	-0.0059	0.0000	0.6292	0.0008	-0.0000	-0.0009
SNB-WL-A1S	0.0517	0.0000	-0.1397	-0.0517	0.0000	0.1397	0.1388	0.0001	-0.0043
SNB-WL-A2S	0.0517	0.0000	-0.1397	-0.0517	0.0000	0.1397	0.1388	0.0001	-0.0019
SNB-WL-A3S	0.0517	0.0000	-0.1397	-0.0517	-0.0000	0.1397	0.1388	0.0001	-0.0043
SNB-WL-B1S	0.0290	0.0000	-0.1397	-0.0290	0.0000	0.1397	0.1110	0.0001	-0.0045
SNB-WL-B2S	0.0290	0.0000	-0.1397	-0.0290	0.0000	0.1397	0.1110	0.0001	-0.0014
SNB-WL-B3S	0.0290	0.0000	-0.1397	-0.0290	-0.0000	0.1397	0.1110	0.0001	-0.0045
SNB-WL-C1S	0.0192	0.0000	-0.1628	-0.0192	0.0000	0.1628	0.0843	0.0001	-0.0047
SNB-WL-C2S	0.0192	0.0000	-0.1628	-0.0192	0.0000	0.1628	0.0843	0.0001	-0.0010
SNB-WL-C3S	0.0192	0.0000	-0.1628	-0.0192	-0.0000	0.1628	0.0843	0.0001	-0.0047
SNB-WL-D1S	0.0176	0.0000	-0.2213	-0.0176	0.0000	0.2213	0.0605	0.0001	-0.0049
SNB-WL-D2S	0.0176	0.0000	-0.2213	-0.0176	0.0000	0.2213	0.0606	0.0001	-0.0011
SNB-WL-D3S	0.0176	0.0000	-0.2213	-0.0176	-0.0000	0.2213	0.0605	0.0001	-0.0049
SNB-WL-E1S	0.0156	0.0000	-0.2443	-0.0156	0.0000	0.2443	0.0410	0.0001	-0.0041
SNB-WL-E2S	0.0156	0.0000	-0.2443	-0.0156	0.0000	0.2443	0.0410	0.0001	-0.0007
SNB-WL-E3S	0.0156	0.0000	-0.2443	-0.0156	-0.0000	0.2443	0.0410	0.0001	-0.0041
SNB-WL-F1S	0.0171	0.0000	-0.3328	-0.0171	0.0000	0.3328	0.0258	0.0000	-0.0042
SNB-WL-F2S	0.0171	0.0000	-0.3328	-0.0171	0.0000	0.3328	0.0259	0.0000	-0.0011
SNB-WL-F3S	0.0171	0.0000	-0.3328	-0.0171	-0.0000	0.3328	0.0258	0.0000	-0.0042
SNB-WL-G1S	0.0168	0.0000	-0.4499	-0.0168	0.0000	0.4499	0.0144	0.0000	-0.0045
SNB-WL-G2S	0.0168	0.0000	-0.4499	-0.0168	0.0000	0.4499	0.0144	0.0000	-0.0020
SNB-WL-G3S	0.0168	0.0000	-0.4499	-0.0168	-0.0000	0.4499	0.0144	0.0000	-0.0045
SNB-WL-H1S	0.0123	0.0000	-0.5027	-0.0123	0.0000	0.5027	0.0064	0.0000	-0.0047
SNB-WL-H2S	0.0123	0.0000	-0.5027	-0.0123	0.0000	0.5027	0.0064	0.0000	-0.0029
SNB-WL-H3S	0.0123	0.0000	-0.5027	-0.0123	-0.0000	0.5027	0.0064	0.0000	-0.0047
SNB-WL-I1S	0.0079	0.0000	-0.5351	-0.0079	0.0000	0.5351	0.0017	0.0000	-0.0049
SNB-WL-I2S	0.0079	0.0000	-0.5351	-0.0079	-0.0000	0.5351	0.0017	0.0000	-0.0040
SNB-WL-I3S	0.0079	0.0000	-0.5351	-0.0079	-0.0000	0.5351	0.0017	0.0000	-0.0049
RohnAa1	0.0663	0.0000	-0.2059	-0.0663	0.0000	0.2059	0.1318	0.0001	-0.0039
RohnAa2	0.0730	0.0000	-0.2266	-0.0730	-0.0000	0.2266	0.1319	0.0002	-0.0039
RohnAb1	0.0691	0.0000	-0.2477	-0.0691	0.0000	0.2477	0.1248	0.0001	-0.0038
RohnAb2	0.0390	0.0000	-0.1397	-0.0390	-0.0000	0.1397	0.1249	0.0001	-0.0038
RohnAc1	0.0337	0.0000	-0.1397	-0.0337	0.0000	0.1397	0.1179	0.0001	-0.0036
RohnAc2	0.0337	0.0000	-0.1397	-0.0337	-0.0000	0.1397	0.1179	0.0001	-0.0036
RohnBa1	0.0292	0.0000	-0.1628	-0.0292	0.0000	0.1628	0.1041	0.0001	-0.0033
RohnBa2	0.0292	0.0000	-0.1628	-0.0292	-0.0000	0.1628	0.1041	0.0001	-0.0033
RohnBb1	0.1308	0.0000	-0.8442	-0.1308	0.0000	0.8442	0.0974	0.0001	-0.0032
RohnBb2	0.1308	0.0000	-0.8442	-0.1308	-0.0000	0.8442	0.0975	0.0001	-0.0032
RohnBc1	0.0219	0.0000	-0.1628	-0.0219	0.0000	0.1628	0.0907	0.0001	-0.0030
RohnBc2	0.0219	0.0000	-0.1628	-0.0219	-0.0000	0.1628	0.0907	0.0001	-0.0030
RohnCa1	0.0781	0.0000	-0.7723	-0.0781	0.0000	0.7723	0.0759	0.0001	-0.0027

RohnCa2	0.0817	0.0000	-0.8083	-0.0817	-0.0000	0.8083	0.0760	0.0001	-0.0027
RohnCb1	0.1065	0.0000	-1.2021	-0.1065	0.0000	1.2021	0.0679	0.0001	-0.0025
RohnCb2	0.1065	0.0000	-1.2021	-0.1065	-0.0000	1.2021	0.0680	0.0001	-0.0025
RohnDa1	0.0764	0.0000	-1.0449	-0.0764	0.0000	1.0449	0.0533	0.0001	-0.0021
RohnDa2	0.0764	0.0000	-1.0449	-0.0764	-0.0000	1.0449	0.0534	0.0001	-0.0021
RohnDb1	0.0166	0.0000	-0.2443	-0.0166	0.0000	0.2443	0.0467	0.0001	-0.0019
RohnDb2	0.0166	0.0000	-0.2443	-0.0166	-0.0000	0.2443	0.0468	0.0001	-0.0019
RohnEa1	0.0200	0.0000	-0.3328	-0.0200	0.0000	0.3328	0.0354	0.0001	-0.0015
RohnEa2	0.0200	0.0000	-0.3328	-0.0200	-0.0000	0.3328	0.0354	0.0001	-0.0015
RohnEb1	0.0186	0.0000	-0.3328	-0.0186	0.0000	0.3328	0.0304	0.0001	-0.0014
RohnEb2	0.0186	0.0000	-0.3328	-0.0186	-0.0000	0.3328	0.0304	0.0000	-0.0014
RohnFa1	0.0200	0.0000	-0.4499	-0.0200	0.0000	0.4499	0.0193	0.0000	-0.0010
RohnFa2	0.0200	0.0000	-0.4499	-0.0200	-0.0000	0.4499	0.0193	0.0000	-0.0010
RohnGa1	0.0153	0.0000	-0.5027	-0.0153	-0.0000	0.5027	0.0096	0.0000	-0.0007
RohnGa2	0.0153	0.0000	-0.5027	-0.0153	-0.0000	0.5027	0.0096	0.0000	-0.0007
RohnHa1	0.0104	0.0000	-0.5351	-0.0104	-0.0000	0.5351	0.0032	-0.0000	-0.0004
RohnHa2	0.0104	0.0000	-0.5351	-0.0104	-0.0000	0.5351	0.0032	0.0000	-0.0004
RohnIa1	0.0059	0.0000	-0.6292	-0.0059	-0.0000	0.6292	0.0002	-0.0000	-0.0001
RohnIa2	0.0059	0.0000	-0.6292	-0.0059	-0.0000	0.6292	0.0002	0.0000	-0.0001
SNB-Aa1	0.0450	0.0000	-0.1397	-0.0450	-0.0000	0.1397	0.1318	0.0001	-0.0016
SNB-Aa2	0.0450	0.0000	-0.1397	-0.0450	0.0000	0.1397	0.1318	0.0001	-0.0016
SNB-Ab1	0.0390	0.0000	-0.1397	-0.0390	-0.0000	0.1397	0.1249	0.0001	-0.0015
SNB-Ab2	0.0390	0.0000	-0.1397	-0.0390	0.0000	0.1397	0.1249	0.0001	-0.0015
SNB-Ac1	0.0337	0.0000	-0.1397	-0.0337	-0.0000	0.1397	0.1179	0.0001	-0.0013
SNB-Ac2	0.0337	0.0000	-0.1397	-0.0337	0.0000	0.1397	0.1179	0.0001	-0.0013
SNB-Ba1	0.0292	0.0000	-0.1628	-0.0292	-0.0000	0.1628	0.1041	0.0001	-0.0010
SNB-Ba2	0.0292	0.0000	-0.1628	-0.0292	0.0000	0.1628	0.1041	0.0001	-0.0010
SNB-Bb1	0.0252	0.0000	-0.1628	-0.0252	-0.0000	0.1628	0.0974	0.0001	-0.0009
SNB-Bb2	0.0252	0.0000	-0.1628	-0.0252	0.0000	0.1628	0.0974	0.0001	-0.0009
SNB-Bc1	0.0219	0.0000	-0.1628	-0.0219	-0.0000	0.1628	0.0907	0.0001	-0.0008
SNB-Bc2	0.0219	0.0000	-0.1628	-0.0219	0.0000	0.1628	0.0907	0.0001	-0.0008
SNB-Ca1	0.0224	0.0000	-0.2213	-0.0224	-0.0000	0.2213	0.0759	0.0001	-0.0005
SNB-Ca2	0.0224	0.0000	-0.2213	-0.0224	0.0000	0.2213	0.0759	0.0001	-0.0005
SNB-Cb1	0.0196	0.0000	-0.2213	-0.0196	-0.0000	0.2213	0.0679	0.0001	-0.0004
SNB-Cb2	0.0196	0.0000	-0.2213	-0.0196	0.0000	0.2213	0.0679	0.0001	-0.0004
SNB-Da1	0.0179	0.0000	-0.2443	-0.0179	-0.0000	0.2443	0.0533	0.0001	-0.0002
SNB-Da2	0.0179	0.0000	-0.2443	-0.0179	0.0000	0.2443	0.0533	0.0001	-0.0002
SNB-Db1	0.0166	0.0000	-0.2443	-0.0166	-0.0000	0.2443	0.0467	0.0001	-0.0002
SNB-Db2	0.0166	0.0000	-0.2443	-0.0166	0.0000	0.2443	0.0467	0.0001	-0.0002
SNB-Ea1	0.0200	0.0000	-0.3328	-0.0200	-0.0000	0.3328	0.0354	0.0001	-0.0001
SNB-Ea2	0.0200	0.0000	-0.3328	-0.0200	0.0000	0.3328	0.0354	0.0001	-0.0001
SNB-Eb1	0.0186	0.0000	-0.3328	-0.0186	-0.0000	0.3328	0.0304	0.0001	-0.0000
SNB-Eb2	0.0186	0.0000	-0.3328	-0.0186	0.0000	0.3328	0.0304	0.0000	-0.0000
SNB-Fa1	0.0200	0.0000	-0.4499	-0.0200	-0.0000	0.4499	0.0192	0.0001	0.0000
SNB-Fa2	0.0200	0.0000	-0.4499	-0.0200	0.0000	0.4499	0.0192	0.0000	0.0000
SNB-Ga1	0.0153	0.0000	-0.5027	-0.0153	0.0000	0.5027	0.0096	0.0000	0.0001
SNB-Ga2	0.0153	0.0000	-0.5027	-0.0153	0.0000	0.5027	0.0096	0.0000	0.0001
SNB-Ha1	0.0104	0.0000	-0.5351	-0.0104	0.0000	0.5351	0.0032	-0.0000	0.0001
SNB-Ha2	0.0104	0.0000	-0.5351	-0.0104	0.0000	0.5351	0.0032	0.0000	0.0001
SNB-Ia1	0.0059	0.0000	-0.6292	-0.0059	0.0000	0.6292	0.0002	-0.0000	0.0000
SNB-Ia2	0.0059	0.0000	-0.6292	-0.0059	0.0000	0.6292	0.0002	0.0000	0.0000

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	-0.19	0.10	0.82	0.06	-3.18	0.03	-0.47
Rohn-LA11	0.01	-0.37	0.42	-2.41	0.99	-0.56	0.28
Rohn-LA12	-0.41	0.33	0.60	2.51	0.09	0.57	0.14
Rohn-LA2P	-0.19	-0.06	3.18	-0.67	5.37	-0.15	1.71
Rohn-LA21	0.01	2.41	-0.99	1.75	-3.65	0.83	-0.93
Rohn-LA22	-0.41	-2.51	-0.09	-2.72	-1.13	-1.04	-0.25
Rohn-LA3P	-0.19	0.67	-5.37	1.00	-4.35	0.33	-1.94
Rohn-LA31	0.01	-1.75	3.65	-1.57	8.35	-0.66	2.40
Rohn-LA32	-0.41	2.72	1.13	2.06	6.64	0.95	1.55
Rohn-LA4P	-0.19	-1.00	4.35	-0.46	10.23	-0.29	2.91
Rohn-LA41	0.01	1.57	-8.35	0.92	-8.56	0.50	-3.38

Rohn-LA42	-0.41	-2.06	-6.64	-1.50	-7.05	-0.71	-2.74
Rohn-LB1P	-0.11	0.47	-8.97	0.41	-5.98	0.18	-2.99
Rohn-LB11	0.41	-1.32	9.32	1.23	22.30	-0.02	6.32
Rohn-LB12	-0.63	1.86	7.82	-0.99	21.67	0.17	5.89
Rohn-LB2P	-0.11	-0.41	5.98	-0.16	17.52	-0.11	4.70
Rohn-LB21	0.41	-1.23	-22.30	-2.52	-14.94	-0.75	-7.44
Rohn-LB22	-0.63	0.99	-21.67	2.50	-14.69	0.70	-7.27
Rohn-LB3P	-0.11	0.16	-17.52	0.10	-7.32	0.05	-4.96
Rohn-LB31	0.41	2.52	14.94	-1.20	20.34	0.26	7.05
Rohn-LB32	-0.63	-2.50	14.69	1.27	20.19	-0.25	6.97
Rohn-LB4P	-0.11	-0.10	7.32	-0.04	28.51	-0.03	7.16
Rohn-LB41	0.41	1.20	-20.34	5.69	9.22	1.38	-2.22
Rohn-LB42	-0.63	-1.27	-20.19	-5.74	9.46	-1.40	-2.15
Rohn-LC1P	-0.11	0.04	-28.51	0.07	9.43	0.02	-2.86
Rohn-LC11	0.41	-5.69	-9.22	-3.48	11.77	-1.38	0.38
Rohn-LC12	-0.63	5.74	-9.46	3.65	11.40	1.41	0.29
Rohn-LC2P	-0.11	-0.07	-9.43	-0.02	5.82	-0.01	-0.54
Rohn-LC21	0.41	3.48	-11.77	-4.67	24.17	-0.18	1.86
Rohn-LC22	-0.63	-3.65	-11.40	4.57	24.29	0.14	1.93
Rohn-LC3P	-0.11	0.02	-5.82	-0.07	43.50	-0.01	5.65
Rohn-LC31	0.41	4.67	-24.17	12.43	14.67	2.57	-1.43
Rohn-LC32	-0.63	-4.57	-24.29	-12.49	15.06	-2.56	-1.38
Rohn-LD1P	-0.11	0.07	-43.50	0.37	30.84	0.07	-1.90
Rohn-LD11	0.41	-12.43	-14.67	-12.64	31.72	-3.76	2.56
Rohn-LD12	-0.63	12.49	-15.06	12.84	31.36	3.80	2.44
Rohn-LD2P	-0.11	-0.37	-30.84	-0.12	7.05	-0.07	-3.56
Rohn-LD21	0.41	12.65	-31.72	3.25	62.95	2.38	4.67
Rohn-LD22	-0.63	-12.84	-31.36	-3.16	63.14	-2.39	4.75
Rohn-LD3P	-0.11	0.12	-7.05	0.09	85.23	0.03	11.73
Rohn-LD31	0.41	-3.25	-62.95	3.35	5.78	0.02	-8.58
Rohn-LD32	-0.63	3.16	-63.14	-3.28	5.72	-0.02	-8.62
Rohn-LE1P	-0.11	-0.09	-85.23	0.12	9.05	0.00	-11.43
Rohn-LE11	0.41	-3.35	-5.78	-4.26	52.93	-1.14	7.07
Rohn-LE12	-0.63	3.28	-5.72	4.33	52.79	1.14	7.06
Rohn-LE2P	-0.11	-0.12	-9.05	-0.34	11.04	-0.07	0.30
Rohn-LE21	0.41	4.26	-52.93	-0.80	43.27	0.52	-1.44
Rohn-LE22	-0.63	-4.33	-52.79	0.76	43.79	-0.53	-1.35
Rohn-LE3P	-0.11	0.34	-11.04	0.54	131.49	0.13	18.07
Rohn-LE31	0.41	0.80	-43.27	8.32	-7.32	1.37	-7.59
Rohn-LE32	-0.63	-0.76	-43.79	-8.07	-8.50	-1.33	-7.85
Rohn-LF1P	-0.11	-0.54	-131.49	-0.91	-66.64	-0.14	-19.80
Rohn-LF11	0.41	-8.32	7.32	-11.22	166.84	-1.95	17.40
Rohn-LF12	-0.63	8.07	8.50	10.76	167.89	1.88	17.63
Rohn-LF2P	-0.11	0.91	66.64	0.54	208.72	0.15	27.52
Rohn-LF21	0.41	11.22	-166.83	11.28	-60.35	2.25	-22.70
Rohn-LF22	-0.63	-10.76	-167.89	-11.28	-61.43	-2.20	-22.91
Rohn-LG1P	-0.11	-0.54	-208.72	-0.81	-96.73	-0.13	-30.53
Rohn-LG11	0.41	-11.28	60.35	-13.18	190.49	-2.44	25.07
Rohn-LG12	-0.63	11.28	61.43	12.74	191.25	2.40	25.25
Rohn-LG2P	-0.11	0.81	96.73	0.30	233.19	0.11	32.97
Rohn-LG21	0.41	13.18	-190.49	15.72	-72.98	2.89	-26.33
Rohn-LG22	-0.63	-12.74	-191.25	-15.98	-73.40	-2.87	-26.44
Rohn-LH1P	-0.11	-0.30	-233.19	-0.30	-119.75	-0.06	-35.27
Rohn-LH11	0.40	-15.72	72.98	-19.01	214.80	-3.47	28.76
Rohn-LH12	-0.62	15.98	73.40	18.73	215.21	3.47	28.84
Rohn-LH2P	-0.11	0.30	119.75	0.01	296.37	0.03	41.59
Rohn-LH21	0.40	19.01	-214.80	26.53	-100.84	4.55	-31.54
Rohn-LH22	-0.62	-18.73	-215.21	-26.80	-101.24	-4.55	-31.62
Rohn-LI1P	-0.11	-0.01	-296.37	-0.87	-180.61	-0.09	-47.67
Rohn-LI11	0.40	-26.53	100.84	-39.35	358.01	-6.58	45.85
Rohn-LI12	-0.62	26.80	101.24	39.15	357.94	6.59	45.88
Rohn-LI2P	-0.11	0.87	180.61	1.76	485.98	0.26	66.62
Rohn-LI21	0.40	39.35	-358.01	35.17	-70.29	7.45	-42.80
Rohn-LI22	-0.62	-39.15	-357.94	-36.56	-68.43	-7.57	-42.60
Rohn-H1P	0.02	0.42	0.01	0.52	-0.06	0.12	-0.01
Rohn-H11	0.02	-0.09	0.05	0.03	0.18	-0.01	0.03
Rohn-H12	0.02	-0.64	0.24	-0.52	0.18	-0.16	0.06
Rohn-H2P	-0.03	0.74	-0.14	0.84	-0.25	0.18	-0.04
Rohn-H21	0.01	-0.00	-0.16	-0.04	0.07	-0.00	-0.01

Rohn-H22	0.04	-0.86	0.17	-0.75	0.06	-0.18	0.03
SNB-LA1P	-0.00	0.10	57.78	0.37	9.92	0.09	13.53
SNB-LA11	0.02	48.64	-26.55	9.78	-4.59	11.67	-6.22
SNB-LA12	-0.02	-48.97	-26.87	-10.14	-5.23	-11.81	-6.41
SNB-LA2P	-0.00	-0.37	-9.92	-0.59	6.39	-0.19	-0.71
SNB-LA21	0.02	-9.78	4.59	1.20	-4.11	-1.71	0.10
SNB-LA22	-0.02	10.14	5.23	-0.98	-3.30	1.83	0.39
SNB-LA3P	-0.00	0.59	-6.39	0.42	-16.59	0.20	-4.59
SNB-LA31	0.02	-1.20	4.11	-9.49	15.67	-2.14	3.95
SNB-LA32	-0.02	0.98	3.30	9.15	14.99	2.02	3.66
SNB-LA4P	-0.00	-0.42	16.59	-0.27	57.76	-0.14	14.86
SNB-LA41	0.02	9.49	-15.67	34.33	-26.03	8.76	-8.33
SNB-LA42	-0.02	-9.15	-14.99	-34.02	-25.54	-8.63	-8.10
SNB-LB1P	-0.00	0.28	91.63	0.17	14.52	0.09	21.21
SNB-LB11	0.41	74.14	-27.00	10.46	17.01	16.91	-2.00
SNB-LB12	-0.41	-74.21	-27.37	-10.50	16.79	-16.93	-2.11
SNB-LB2P	-0.00	-0.17	-14.52	-0.07	37.34	-0.05	4.56
SNB-LB21	0.41	-10.46	-17.01	10.40	-6.57	-0.01	-4.71
SNB-LB22	-0.41	10.50	-16.79	-10.27	-6.41	0.05	-4.64
SNB-LB3P	-0.00	0.07	-37.34	0.12	-44.87	0.04	-16.43
SNB-LB31	0.41	-10.40	6.57	-29.46	50.91	-7.97	11.49
SNB-LB32	-0.41	10.27	6.41	29.52	50.80	7.95	11.43
SNB-LB4P	-0.00	-0.12	44.87	-0.02	178.82	-0.03	44.71
SNB-LB41	0.41	29.46	-50.91	96.78	-52.42	25.23	-20.65
SNB-LB42	-0.41	-29.52	-50.80	-96.70	-52.35	-25.22	-20.61
SNB-LC1P	-0.00	0.01	55.37	0.02	47.37	0.01	15.42
SNB-LC11	0.84	78.55	-39.13	30.77	13.89	16.40	-3.79
SNB-LC12	-0.84	-78.67	-39.21	-30.80	13.85	-16.42	-3.80
SNB-LC2P	-0.00	-0.02	-47.37	0.02	-36.23	0.00	-12.51
SNB-LC21	0.84	-30.77	-13.89	-37.30	62.50	-10.18	7.27
SNB-LC22	-0.84	30.80	-13.85	37.29	62.46	10.18	7.27
SNB-LC3P	-0.00	-0.02	36.24	-0.00	203.07	-0.00	35.91
SNB-LC31	0.84	37.31	-62.50	118.27	-72.53	23.34	-20.26
SNB-LC32	-0.84	-37.29	-62.46	-118.09	-72.43	-23.31	-20.24
SNB-LD1P	-0.00	0.02	163.22	0.17	111.60	0.03	41.24
SNB-LD11	1.12	181.10	-92.73	49.94	35.44	34.66	-8.59
SNB-LD12	-1.12	-181.24	-92.83	-49.87	35.29	-34.67	-8.63
SNB-LD2P	-0.00	-0.17	-111.60	0.02	-49.04	-0.02	-24.03
SNB-LD21	1.12	-49.94	-35.44	-33.61	112.44	-12.50	11.52
SNB-LD22	-1.12	49.87	-35.29	33.83	112.54	12.52	11.56
SNB-LD3P	-0.00	-0.02	49.04	0.04	285.57	0.00	50.21
SNB-LD31	1.12	33.61	-112.44	107.57	-61.24	21.18	-26.06
SNB-LD32	-1.12	-33.83	-112.54	-107.57	-61.27	-21.21	-26.08
SNB-LE1P	-0.01	-0.06	203.50	0.26	158.21	0.03	54.27
SNB-LE11	1.89	272.33	-142.94	80.54	73.20	52.94	-10.46
SNB-LE12	-1.89	-272.53	-142.99	-80.45	72.95	-52.96	-10.51
SNB-LE2P	-0.01	-0.26	-158.21	-0.19	-103.66	-0.07	-39.17
SNB-LE21	1.88	-80.54	-73.20	-101.70	212.42	-27.26	20.82
SNB-LE22	-1.88	80.45	-72.95	102.08	212.86	27.30	20.93
SNB-LE3P	-0.01	0.19	103.66	0.15	732.50	0.05	125.46
SNB-LE31	1.89	101.70	-212.42	383.62	-294.51	72.81	-76.05
SNB-LE32	-1.89	-102.08	-212.86	-384.33	-295.08	-72.98	-76.21
SNB-LF1P	0.00	-0.24	-6.48	-0.49	-164.19	-0.07	-17.05
SNB-LF11	2.73	232.03	-44.85	-11.64	326.66	22.02	28.16
SNB-LF12	-2.74	-231.69	-44.38	11.61	327.20	-21.99	28.26
SNB-LF2P	0.00	0.49	164.19	0.18	761.72	0.07	92.53
SNB-LF21	2.73	11.65	-326.66	306.90	-341.92	31.83	-66.81
SNB-LF22	-2.74	-11.61	-327.20	-307.70	-342.59	-31.91	-66.93
SNB-LG1P	0.01	-0.21	344.91	-1.07	-206.67	-0.13	13.81
SNB-LG11	4.42	658.05	-207.00	5.56	550.88	66.31	34.36
SNB-LG12	-4.44	-657.35	-206.35	-6.22	551.73	-66.31	34.51
SNB-LG2P	0.01	1.07	206.67	0.34	1327.71	0.14	153.33
SNB-LG21	4.42	-5.56	-550.88	618.03	-570.01	61.20	-112.00
SNB-LG22	-4.44	6.22	-551.73	-618.89	-570.89	-61.22	-112.17
SNB-LH1P	0.01	-0.34	100.93	-1.10	-258.38	-0.14	-15.73
SNB-LH11	4.15	603.22	-128.32	9.80	583.12	61.25	45.44
SNB-LH12	-4.16	-602.38	-127.45	-10.46	584.00	-61.24	45.62
SNB-LH2P	0.01	1.10	258.38	0.41	1278.90	0.15	153.62
SNB-LH21	4.14	-9.80	-583.12	480.51	-535.02	47.03	-111.73

SNB-LH22	-4.16	10.46	-584.00	-481.30	-535.95	-47.05	-111.91
SNB-LI1P	0.00	-0.41	408.94	-1.53	-126.99	-0.19	28.18
SNB-LI11	2.29	979.24	-300.97	214.28	762.78	119.26	46.14
SNB-LI12	-2.30	-978.39	-300.02	-215.44	763.86	-119.29	46.35
SNB-LI2P	0.00	1.53	126.99	0.87	1050.54	0.24	117.67
SNB-LI21	2.26	-214.28	-762.78	-71.17	-137.29	-28.52	-89.94
SNB-LI22	-2.27	215.44	-763.86	70.95	-138.37	28.62	-90.15
SNB-H1aP	-0.29	33.52	-2.72	108.90	-2.05	70.49	-2.36
SNB-H1bP	-0.29	-108.91	2.05	-30.89	-1.14	-69.19	0.45
SNB-H1cP	-0.07	32.95	1.07	108.07	3.67	69.80	2.35
SNB-H1dP	-0.07	-108.07	-3.67	-33.09	-1.08	-69.87	-2.35
SNB-H1eP	0.37	31.13	1.14	108.75	-2.12	69.23	-0.48
SNB-H1fP	0.37	-108.75	2.12	-33.59	2.72	-70.45	2.39
SNB-H2aP	-1.03	86.81	-0.63	114.49	-0.62	74.48	-0.46
SNB-H2bP	-1.03	-114.49	0.62	-61.79	-1.17	-65.22	-0.20
SNB-H2cP	0.02	76.68	0.45	112.20	2.28	69.88	1.01
SNB-H2dP	0.02	-112.20	-2.28	-76.52	-0.46	-69.82	-1.01
SNB-H2eP	1.02	61.67	1.17	114.53	-0.67	65.19	0.19
SNB-H2fP	1.02	-114.53	0.67	-86.86	0.63	-74.51	0.48
SNB-H3aP	-0.52	135.52	0.59	154.57	0.16	85.71	0.22
SNB-H3bP	-0.52	-154.57	-0.16	-105.96	-1.68	-76.98	-0.54
SNB-H3cP	0.00	121.93	0.91	153.43	2.87	81.36	1.12
SNB-H3dP	0.00	-153.43	-2.87	-121.95	-0.91	-81.37	-1.12
SNB-H3eP	0.52	105.97	1.68	154.57	0.15	76.98	0.54
SNB-H3fP	0.52	-154.57	-0.15	-135.50	-0.59	-85.71	-0.22
SNB-H4aP	-0.70	211.87	1.51	248.04	0.53	113.11	0.50
SNB-H4bP	-0.69	-248.04	-0.53	-191.12	-2.45	-108.01	-0.73
SNB-H4cP	-0.00	203.26	1.91	246.64	4.83	110.65	1.66
SNB-H4dP	-0.00	-246.64	-4.83	-203.23	-1.91	-110.64	-1.66
SNB-H4eP	0.70	191.11	2.45	248.03	0.52	108.00	0.73
SNB-H4fP	0.70	-248.03	-0.52	-211.89	-1.50	-113.11	-0.50
SNB-H5aP	-0.76	282.84	2.33	320.01	0.55	127.00	0.61
SNB-H5bP	-0.76	-320.01	-0.55	-236.09	-3.66	-117.16	-0.89
SNB-H5cP	-0.00	261.25	2.37	318.46	7.25	122.13	2.03
SNB-H5dP	-0.00	-318.46	-7.25	-261.41	-2.37	-122.16	-2.02
SNB-H5eP	0.76	236.17	3.65	320.00	0.55	117.17	0.89
SNB-H5fP	0.76	-320.00	-0.55	-282.77	-2.33	-126.99	-0.61
SNB-H6aP	-3.61	421.33	2.19	495.08	1.00	168.82	0.59
SNB-H6bP	-3.61	-495.08	-1.00	-393.72	-3.79	-163.74	-0.88
SNB-H6cP	0.01	415.76	2.40	487.22	6.38	166.35	1.62
SNB-H6dP	0.00	-487.22	-6.38	-416.07	-2.40	-166.40	-1.62
SNB-H6eP	3.61	393.86	3.80	495.09	1.02	163.76	0.89
SNB-H6fP	3.61	-495.09	-1.02	-421.17	-2.21	-168.79	-0.59
SNB-H7aP	-2.93	640.63	0.14	736.07	-0.93	225.33	-0.13
SNB-H7bP	-2.93	-736.07	0.93	-635.20	-1.97	-224.44	-0.17
SNB-H7cP	0.01	644.96	0.00	730.01	3.98	225.04	0.65
SNB-H7dP	0.01	-730.01	-3.98	-645.06	0.00	-225.06	-0.65
SNB-H7eP	2.92	635.23	1.97	736.08	-0.92	224.44	0.17
SNB-H7fP	2.92	-736.08	0.92	-640.57	-0.15	-225.32	0.13
SNB-H8aP	-0.59	825.17	0.32	890.04	-0.98	252.59	-0.10
SNB-H8bP	-0.59	-890.04	0.98	-806.21	-1.02	-249.80	-0.01
SNB-H8cP	0.00	817.87	1.03	889.58	4.34	251.45	0.79
SNB-H8dP	0.00	-889.58	-4.34	-817.90	-1.03	-251.45	-0.79
SNB-H8eP	0.59	806.21	1.01	890.04	-0.99	249.80	0.00
SNB-H8fP	0.59	-890.04	0.99	-825.16	-0.31	-252.59	0.10
SNB-H9aP	-1.72	975.46	0.21	1027.37	-1.24	268.04	-0.14
SNB-H9bP	-1.72	-1027.37	1.24	-965.67	0.04	-266.73	0.17
SNB-H9cP	0.00	975.74	1.56	1024.81	4.21	267.74	0.77
SNB-H9dP	0.00	-1024.81	-4.21	-975.70	-1.56	-267.73	-0.77
SNB-H9eP	1.71	965.64	-0.05	1027.37	-1.25	266.73	-0.17
SNB-H9fP	1.72	-1027.37	1.25	-975.47	-0.20	-268.04	0.14

*** Analysis Results for Load Case No. 5 "6: Service 1.0D + 1.0Dg + 1.0 Wo" - Number of iterations in SAPS 12

Equilibrium Joint Positions and Rotations for Load Case "6: Service 1.0D + 1.0Dg + 1.0 Wo":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	0.3932	-7.69e-005	-0.02351	0.0012	0.2022	0.0025	4.726	-7.69e-005	180
RohnBP	0.3224	8.938e-005	-0.02575	-0.0003	0.2019	0.0024	5.443	8.938e-005	160
RohnCP	0.2526	2.328e-005	-0.02681	-0.0002	0.1945	0.0016	6.162	2.328e-005	140
RohnDP	0.1875	-1.112e-005	-0.02646	-0.0001	0.1761	0.0011	6.882	-1.112e-005	120
RohnEP	0.1306	-5.869e-005	-0.02353	-0.0002	0.1452	0.0007	7.612	-5.869e-005	99.98
RohnFP	0.08451	-0.0001146	-0.0203	-0.0001	0.1142	0.0005	8.353	-0.0001146	79.98
RohnGP	0.04838	-0.0001187	-0.01626	0.0001	0.0873	0.0003	9.103	-0.0001187	59.98
RohnHP	0.02221	-8.392e-005	-0.01165	0.0002	0.0597	0.0002	9.863	-8.392e-005	39.99
RohnIP	0.006264	-4.403e-005	-0.005714	0.0001	0.0266	0.0001	10.64	-4.403e-005	19.99
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	0.3933	-0.0002711	-0.0125	0.0004	0.1972	-0.0000	2.726	-0.0002711	180
SNB-BP	0.3224	-0.000193	-0.01494	0.0002	0.1976	-0.0000	3.443	-0.000193	160
SNB-CP	0.2526	-0.0001187	-0.0168	0.0002	0.1899	0.0000	4.161	-0.0001187	140
SNB-DP	0.1875	-6.193e-005	-0.01746	0.0001	0.1688	-0.0000	4.882	-6.193e-005	120
SNB-EP	0.1306	-2.831e-005	-0.0161	0.0001	0.1389	-0.0000	5.612	-2.831e-005	99.98
SNB-FP	0.08452	-1.476e-005	-0.01493	0.0000	0.1102	0.0000	6.353	-1.476e-005	79.99
SNB-GP	0.04838	-8.971e-006	-0.01233	0.0000	0.0771	0.0000	7.103	-8.971e-006	59.99
SNB-HP	0.02221	-4.558e-006	-0.009127	0.0000	0.0525	0.0000	7.863	-4.558e-006	39.99
SNB-IP	0.006264	-1.705e-006	-0.004613	0.0000	0.0220	0.0000	8.634	-1.705e-006	20
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.3935	-0.0003692	-0.0006919	-0.0003	0.2033	0.0014	-1.773	-3.753	180
RohnA2	0.3932	-0.0003549	-0.0006777	0.0004	0.2031	0.0035	-1.773	3.752	180
RohnB1	0.3227	-0.000345	0.0008413	0.0010	0.2037	0.0004	-2.238	-4.435	160
RohnB2	0.3222	-0.0003376	0.0008809	-0.0002	0.2033	0.0046	-2.238	4.435	160
RohnC1	0.2527	-0.0001222	0.002221	-0.0005	0.1932	-0.0018	-2.702	-5.117	140
RohnC2	0.2524	-0.000259	0.002254	0.0013	0.1925	0.0050	-2.702	5.117	140
RohnD1	0.1873	2.383e-005	0.003262	-0.0008	0.1756	-0.0028	-3.16	-5.798	120
RohnD2	0.1872	-0.0002116	0.003291	0.0014	0.1751	0.0049	-3.16	5.798	120
RohnE1	0.1306	1.679e-005	0.003677	-0.0002	0.1451	-0.0028	-3.61	-6.479	100
RohnE2	0.1306	-4.122e-005	0.00369	0.0006	0.1446	0.0042	-3.61	6.479	100
RohnF1	0.08422	0.0001462	0.003667	0.0015	0.1207	-0.0028	-4.05	-7.16	80
RohnF2	0.08445	-4.786e-005	0.003666	-0.0013	0.1205	0.0037	-4.05	7.16	80
RohnG1	0.0482	9.385e-005	0.003216	0.0005	0.0891	-0.0021	-4.479	-7.842	60
RohnG2	0.04844	2.471e-005	0.003212	-0.0005	0.0891	0.0028	-4.479	7.842	60
RohnH1	0.02203	9.13e-005	0.002458	0.0005	0.0616	-0.0016	-4.898	-8.522	40
RohnH2	0.02217	-2.014e-005	0.002457	-0.0006	0.0617	0.0020	-4.898	8.523	40
RohnI1	0.006193	3.386e-005	0.001246	0.0007	0.0306	-0.0009	-5.309	-9.206	20
RohnI2	0.006265	4.728e-006	0.001247	-0.0008	0.0308	0.0010	-5.309	9.206	20
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	0.3933	-0.0002716	-0.0001109	-0.0046	0.2061	-0.0002	-0.7732	-2.021	180
SNB-A2	0.3933	-0.0002703	-9.572e-005	0.0050	0.2059	0.0002	-0.7732	2.02	180
SNB-B1	0.3225	-0.0001945	0.001431	-0.0027	0.2040	-0.0002	-1.238	-2.703	160
SNB-B2	0.3225	-0.000191	0.001451	0.0032	0.2040	0.0003	-1.238	2.703	160
SNB-C1	0.2526	-0.0001197	0.002805	-0.0030	0.1967	-0.0005	-1.701	-3.384	140
SNB-C2	0.2526	-0.0001183	0.002827	0.0034	0.1967	0.0005	-1.701	3.384	140
SNB-D1	0.1875	-5.093e-005	0.003749	-0.0053	0.1799	-0.0010	-2.16	-4.066	120
SNB-D2	0.1875	-7.27e-005	0.003767	0.0055	0.1799	0.0010	-2.16	4.066	120
SNB-E1	0.1306	-1.411e-005	0.003931	-0.0031	0.1457	-0.0008	-2.61	-4.747	100
SNB-E2	0.1306	-4.206e-005	0.003941	0.0033	0.1456	0.0008	-2.61	4.747	100
SNB-F1	0.08448	-3.641e-006	0.003968	-0.0036	0.1233	-0.0008	-3.05	-5.428	80
SNB-F2	0.08448	-2.694e-005	0.003974	0.0037	0.1233	0.0008	-3.05	5.428	80
SNB-G1	0.04833	1.957e-005	0.003454	-0.0052	0.0931	-0.0010	-3.479	-6.11	60
SNB-G2	0.04833	-3.867e-005	0.003458	0.0052	0.0931	0.0010	-3.479	6.11	60
SNB-H1	0.02213	3.473e-005	0.002659	-0.0057	0.0645	-0.0010	-3.898	-6.79	40
SNB-H2	0.02213	-4.381e-005	0.002661	0.0057	0.0645	0.0010	-3.898	6.79	40
SNB-I1	0.006161	5.204e-005	0.001377	-0.0034	0.0337	-0.0009	-4.308	-7.472	20
SNB-I2	0.006162	-5.523e-005	0.001378	0.0034	0.0337	0.0009	-4.308	7.472	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	0.3756	1.071e-005	-0.02414	0.0002	0.2036	0.0025	4.906	1.071e-005	175
RohnAbS	0.3578	1.705e-005	-0.02473	0.0006	0.2030	0.0025	5.085	1.705e-005	170
RohnAcS	0.3401	0.0001108	-0.02527	0.0004	0.2027	0.0025	5.264	0.0001108	165
RohnBaS	0.3048	8.58e-005	-0.02615	-0.0002	0.2017	0.0022	5.623	8.58e-005	155
RohnBbS	0.2872	6.496e-005	-0.02649	-0.0003	0.2001	0.0020	5.802	6.496e-005	150
RohnBcS	0.2699	4.603e-005	-0.02671	-0.0003	0.1986	0.0018	5.982	4.603e-005	145
RohnCaS	0.2304	1.341e-005	-0.02693	-0.0001	0.1883	0.0014	6.401	1.341e-005	133.3
RohnCbS	0.2086	1.801e-006	-0.02683	-0.0002	0.1848	0.0012	6.642	1.801e-006	126.6
RohnDaS	0.1675	-1.863e-005	-0.02579	-0.0001	0.1662	0.0009	7.124	-1.863e-005	113.3
RohnDbS	0.1486	-3.932e-005	-0.02479	-0.0002	0.1590	0.0008	7.368	-3.932e-005	106.6
RohnEaS	0.1145	-8.05e-005	-0.02263	-0.0003	0.1342	0.0006	7.858	-8.05e-005	93.32
RohnEbS	0.099	-0.0001108	-0.02155	-0.0001	0.1300	0.0005	8.105	-0.0001108	86.64
RohnFaS	0.0658	-0.0001447	-0.01845	-0.0000	0.1040	0.0004	8.727	-0.0001447	69.98
RohnGaS	0.03473	-0.0001169	-0.01409	0.0001	0.0748	0.0003	9.483	-0.0001169	49.99
RohnHaS	0.01358	-6.218e-005	-0.00882	0.0001	0.0459	0.0001	10.25	-6.218e-005	29.99
RohnIaS	0.002576	-2.099e-005	-0.002953	0.0002	0.0193	0.0000	11.03	-2.099e-005	9.997
SNB-AaS	0.3756	-0.0002432	-0.01314	0.0001	0.2050	-0.0000	2.906	-0.0002432	175
SNB-AbS	0.3578	-0.0002465	-0.01378	0.0002	0.2024	-0.0000	3.085	-0.0002465	170
SNB-AcS	0.3401	-0.0002039	-0.01437	0.0004	0.2040	-0.0000	3.264	-0.0002039	165
SNB-BaS	0.3048	-0.0001723	-0.01548	0.0002	0.2030	-0.0000	3.623	-0.0001723	155
SNB-BbS	0.2872	-0.0001543	-0.01598	0.0002	0.1996	-0.0000	3.802	-0.0001543	150
SNB-BcS	0.2699	-0.0001352	-0.01642	0.0002	0.2000	-0.0000	3.981	-0.0001352	145
SNB-CaS	0.2304	-9.786e-005	-0.01717	0.0002	0.1892	0.0000	4.4	-9.786e-005	133.3
SNB-CbS	0.2086	-7.843e-005	-0.01738	0.0002	0.1866	-0.0000	4.642	-7.843e-005	126.6
SNB-DaS	0.1675	-4.659e-005	-0.01724	0.0001	0.1679	-0.0000	5.124	-4.659e-005	113.3
SNB-DbS	0.1486	-3.677e-005	-0.01677	0.0001	0.1604	-0.0000	5.368	-3.677e-005	106.6
SNB-EaS	0.1145	-2.072e-005	-0.01587	0.0000	0.1359	0.0000	5.858	-2.072e-005	93.32
SNB-EbS	0.09901	-1.867e-005	-0.01546	0.0000	0.1309	0.0000	6.105	-1.867e-005	86.64
SNB-FaS	0.0658	-1.25e-005	-0.01377	0.0000	0.1078	0.0000	6.727	-1.25e-005	69.99
SNB-GaS	0.03473	-7.564e-006	-0.01086	0.0000	0.0794	0.0000	7.483	-7.564e-006	49.99
SNB-HaS	0.01358	-3.006e-006	-0.007003	0.0000	0.0490	0.0000	8.248	-3.006e-006	29.99
SNB-IaS	0.002576	-4.466e-007	-0.002426	0.0000	0.0205	0.0000	9.024	-4.466e-007	9.998
SNB-WL-A1S	0.3933	-0.0002725	-0.006451	-0.0021	0.2016	-0.0001	0.9765	-1.01	180
SNB-WL-A2S	0.3933	-0.0002709	-0.0002448	0.0002	0.2060	0.0000	-0.7732	-0.0002709	180
SNB-WL-A3S	0.3933	-0.0002691	-0.00644	0.0027	0.2015	0.0001	0.9765	1.01	180
SNB-WL-B1S	0.3224	-0.0001949	-0.006966	-0.0005	0.1995	-0.0002	1.103	-1.352	160
SNB-WL-B2S	0.3225	-0.0001927	0.001239	0.0002	0.2040	0.0000	-1.238	-0.0001927	160
SNB-WL-B3S	0.3224	-0.0001901	-0.006957	0.0009	0.1995	0.0002	1.103	1.351	160
SNB-WL-C1S	0.2526	-0.000123	-0.007405	0.0002	0.1905	-0.0002	1.23	-1.692	140
SNB-WL-C2S	0.2527	-0.000119	0.002422	0.0002	0.1967	0.0000	-1.701	-0.000119	140
SNB-WL-C3S	0.2526	-0.0001146	-0.007395	0.0002	0.1905	0.0002	1.23	1.692	140
SNB-WL-D1S	0.1875	-6.907e-005	-0.007773	-0.0005	0.1707	-0.0003	1.361	-2.033	120
SNB-WL-D2S	0.1875	-6.181e-005	0.002864	0.0001	0.1799	0.0000	-2.16	-6.181e-005	120
SNB-WL-D3S	0.1875	-5.448e-005	-0.007763	0.0007	0.1707	0.0003	1.361	2.033	120
SNB-WL-E1S	0.1306	-3.384e-005	-0.006729	0.0007	0.1384	-0.0003	1.501	-2.373	99.99
SNB-WL-E2S	0.1307	-2.809e-005	0.003315	0.0001	0.1456	-0.0000	-2.61	-2.809e-005	100
SNB-WL-E3S	0.1306	-2.257e-005	-0.006724	-0.0006	0.1383	0.0003	1.501	2.373	99.99
SNB-WL-F1S	0.08451	-2.221e-005	-0.006783	-0.0001	0.1138	-0.0002	1.652	-2.714	79.99
SNB-WL-F2S	0.08453	-1.529e-005	0.002807	0.0000	0.1233	-0.0000	-3.049	-1.529e-005	80
SNB-WL-F3S	0.08451	-8.733e-006	-0.00678	0.0002	0.1138	0.0002	1.652	2.714	79.99
SNB-WL-G1S	0.04837	-1.93e-005	-0.00678	-0.0019	0.0838	-0.0002	1.812	-3.055	59.99
SNB-WL-G2S	0.04839	-9.55e-006	0.001271	0.0000	0.0931	-0.0000	-3.479	-9.55e-006	60
SNB-WL-G3S	0.04837	-1.692e-007	-0.006778	0.0019	0.0838	0.0002	1.812	3.055	59.99
SNB-WL-H1S	0.02219	-1.548e-005	-0.006538	-0.0011	0.0555	-0.0002	1.982	-3.395	39.99
SNB-WL-H2S	0.02221	-4.537e-006	-0.0005963	0.0000	0.0645	-0.0000	-3.898	-4.537e-006	40
SNB-WL-H3S	0.02219	6.111e-006	-0.006536	0.0011	0.0555	0.0002	1.982	3.395	39.99
SNB-WL-I1S	0.006238	-1.417e-005	-0.006129	-0.0002	0.0253	-0.0003	2.163	-3.736	19.99
SNB-WL-I2S	0.006261	-1.595e-006	-0.002986	0.0000	0.0337	-0.0000	-4.308	-1.595e-006	20
SNB-WL-I3S	0.006238	1.083e-005	-0.006128	0.0002	0.0253	0.0003	2.163	3.736	19.99
RohnAa1	0.3758	-0.0004046	-0.0002983	-0.0004	0.2016	0.0012	-1.889	-3.923	175
RohnAa2	0.3754	-0.0003369	-0.0002773	-0.0001	0.2038	0.0038	-1.89	3.923	175
RohnAb1	0.3582	-0.0004247	8.784e-005	0.0004	0.2039	0.0009	-2.005	-4.094	170
RohnAb2	0.3576	-0.000376	0.0001224	-0.0003	0.2044	0.0041	-2.006	4.093	170
RohnAc1	0.3403	-0.0003632	0.0004729	0.0004	0.2030	0.0007	-2.122	-4.265	165
RohnAc2	0.3398	-0.0003683	0.0005107	0.0005	0.2020	0.0042	-2.122	4.264	165
RohnBa1	0.3049	-0.0002709	0.00121	-0.0003	0.2008	-0.0001	-2.354	-4.606	155
RohnBa2	0.3045	-0.000332	0.001249	0.0014	0.1997	0.0046	-2.355	4.605	155
RohnBb1	0.2876	-0.0003562	0.001555	0.0003	0.2005	-0.0008	-2.47	-4.776	150
RohnBb2	0.2872	-0.0001709	0.001592	0.0006	0.1997	0.0048	-2.47	4.776	150

RohnBc1	0.2699	-0.0001909	0.001911	0.0021	0.2019	-0.0015	-2.586	-4.947	145
RohnBc2	0.2696	-0.0002621	0.001946	-0.0011	0.2010	0.0051	-2.586	4.946	145
RohnCa1	0.2304	-0.0002189	0.002605	-0.0003	0.1899	-0.0022	-2.855	-5.344	133.3
RohnCa2	0.2303	-8.361e-005	0.002635	0.0010	0.1893	0.0051	-2.855	5.344	133.3
RohnCb1	0.2084	-0.0001221	0.002959	0.0018	0.1861	-0.0027	-3.008	-5.571	126.7
RohnCb2	0.2083	-0.0001172	0.002988	-0.0013	0.1858	0.0052	-3.008	5.571	126.7
RohnDa1	0.1673	-9.954e-005	0.003486	0.0007	0.1704	-0.0030	-3.311	-6.025	113.3
RohnDa2	0.1672	-2.251e-005	0.00351	-0.0002	0.1698	0.0049	-3.311	6.025	113.3
RohnDb1	0.1479	0.0001314	0.00365	0.0007	0.1576	-0.0029	-3.462	-6.252	106.7
RohnDb2	0.1479	-0.0002021	0.003668	-0.0002	0.1572	0.0046	-3.462	6.252	106.7
RohnEa1	0.1139	0.000132	0.003744	0.0012	0.1383	-0.0028	-3.758	-6.706	93.34
RohnEa2	0.1141	-0.0001148	0.003752	-0.0008	0.1379	0.0041	-3.757	6.706	93.34
RohnEb1	0.09852	0.0001667	0.003742	-0.0005	0.1266	-0.0027	-3.904	-6.933	86.66
RohnEb2	0.09867	-0.0001109	0.003747	0.0009	0.1259	0.0038	-3.904	6.933	86.66
RohnFa1	0.06424	0.0004291	0.003525	-0.0006	0.1021	-0.0023	-4.267	-7.501	70
RohnFa2	0.06444	-0.0003279	0.003524	0.0007	0.1021	0.0031	-4.266	7.501	70
RohnGa1	0.03321	0.0004329	0.002902	-0.0001	0.0746	-0.0018	-4.691	-8.182	50
RohnGa2	0.03339	-0.0003425	0.0029	-0.0000	0.0750	0.0023	-4.691	8.182	50
RohnHa1	0.01189	0.000478	0.00192	-0.0004	0.0449	-0.0012	-5.106	-8.864	30
RohnHa2	0.012	-0.0004249	0.00192	0.0003	0.0450	0.0014	-5.106	8.864	30
RohnIa1	0.0013	0.0003062	0.0006679	-0.0001	0.0188	-0.0006	-5.511	-9.548	10
RohnIa2	0.001335	-0.0002872	0.0006682	-0.0000	0.0191	0.0006	-5.511	9.548	10
SNB-Aa1	0.3755	-0.0002684	0.0002821	0.0015	0.2022	-0.0002	-0.8895	-2.191	175
SNB-Aa2	0.3756	-0.0002434	0.000298	-0.0011	0.2024	0.0002	-0.8894	2.191	175
SNB-Ab1	0.3578	-0.0002313	0.0006712	-0.0002	0.2040	-0.0002	-1.006	-2.362	170
SNB-Ab2	0.3578	-0.0002301	0.0006901	0.0007	0.2040	0.0003	-1.006	2.361	170
SNB-Ac1	0.3401	-0.0002188	0.001058	0.0010	0.2023	-0.0002	-1.122	-2.532	165
SNB-Ac2	0.3401	-0.0002131	0.001077	-0.0006	0.2021	0.0003	-1.122	2.532	165
SNB-Ba1	0.3048	-0.0001792	0.001805	0.0012	0.2016	-0.0004	-1.354	-2.873	155
SNB-Ba2	0.3048	-0.0001686	0.001827	-0.0008	0.2016	0.0004	-1.354	2.873	155
SNB-Bb1	0.2872	-0.0001371	0.00216	-0.0000	0.2009	-0.0004	-1.47	-3.044	150
SNB-Bb2	0.2872	-0.0001716	0.002182	0.0005	0.2010	0.0005	-1.47	3.043	150
SNB-Bc1	0.2698	-0.0001266	0.002497	0.0009	0.1978	-0.0005	-1.586	-3.214	145
SNB-Bc2	0.2698	-0.0001457	0.002518	-0.0005	0.1978	0.0005	-1.586	3.214	145
SNB-Ca1	0.2301	-2.824e-005	0.003183	0.0013	0.1915	-0.0008	-1.855	-3.611	133.3
SNB-Ca2	0.2301	-0.0001698	0.003204	-0.0010	0.1915	0.0008	-1.855	3.611	133.3
SNB-Cb1	0.2082	-7.243e-006	0.003504	0.0009	0.1818	-0.0008	-2.008	-3.839	126.7
SNB-Cb2	0.2082	-0.0001525	0.003524	-0.0006	0.1818	0.0008	-2.008	3.839	126.7
SNB-Da1	0.1671	3.098e-005	0.003916	0.0027	0.1710	-0.0012	-2.311	-4.293	113.3
SNB-Da2	0.1671	-0.0001281	0.003932	-0.0025	0.1710	0.0012	-2.311	4.293	113.3
SNB-Db1	0.1479	0.0001529	0.003981	-0.0000	0.1556	-0.0009	-2.462	-4.52	106.7
SNB-Db2	0.1479	-0.0002262	0.003994	0.0002	0.1556	0.0009	-2.462	4.52	106.7
SNB-Ea1	0.1141	5.586e-005	0.004017	0.0015	0.1382	-0.0009	-2.757	-4.974	93.34
SNB-Ea2	0.1141	-9.931e-005	0.004025	-0.0014	0.1382	0.0009	-2.757	4.974	93.34
SNB-Eb1	0.09864	9.84e-005	0.004028	0.0003	0.1252	-0.0007	-2.904	-5.201	86.66
SNB-Eb2	0.09864	-0.0001317	0.004035	-0.0002	0.1252	0.0007	-2.904	5.201	86.66
SNB-Fa1	0.06422	0.0004419	0.00379	0.0025	0.1011	-0.0008	-3.267	-5.769	70
SNB-Fa2	0.06421	-0.0004611	0.003795	-0.0024	0.1011	0.0008	-3.267	5.769	70
SNB-Ga1	0.03329	0.000388	0.003128	0.0029	0.0731	-0.0010	-3.691	-6.45	50
SNB-Ga2	0.03329	-0.0003998	0.003131	-0.0029	0.0731	0.0010	-3.691	6.45	50
SNB-Ha1	0.01202	0.0004027	0.00209	0.0025	0.0439	-0.0009	-4.105	-7.131	30
SNB-Ha2	0.01202	-0.0004084	0.002092	-0.0025	0.0439	0.0009	-4.105	7.131	30
SNB-Ia1	0.001206	0.0003604	0.0007519	0.0008	0.0179	-0.0005	-4.51	-7.812	10
SNB-Ia2	0.001206	-0.0003616	0.0007527	-0.0008	0.0179	0.0005	-4.51	7.812	10

Joint Support Reactions for Load Case "6: Service 1.0D + 1.0Dg + 1.0 Wo":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-7.13	0.0	0.02	0.0	89.82	0.0	0.0	90.11	0.0	-0.01	0.0	-1.4	0.0	-0.00	0.0	0.0
SNB-JP	-11.50	0.0	0.00	0.0	122.99	0.0	0.0	123.52	0.0	-0.00	0.0	-3.2	0.0	-0.00	0.0	0.0
RohnJ1	-1.72	0.0	-1.60	0.0	-20.18	0.0	0.0	20.32	0.0	0.28	0.0	-0.2	0.0	-0.00	0.0	0.0
RohnJ2	-1.76	0.0	1.58	0.0	-20.19	0.0	0.0	20.33	0.0	-0.27	0.0	-0.2	0.0	-0.00	0.0	0.0
SNB-J1	-3.62	0.0	-3.77	0.0	-38.48	0.0	0.0	38.83	0.0	0.95	0.0	-0.4	0.0	-0.01	0.0	0.0
SNB-J2	-3.62	0.0	3.77	0.0	-38.52	0.0	0.0	38.87	0.0	-0.95	0.0	-0.4	0.0	0.01	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "6: Service 1.0D + 1.0Dg + 1.0 Wo":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.1428	0.0000	-0.2953	-0.1428	-0.0000	0.2953	0.3932	-0.0001	-0.0235
RohnBP	0.6713	0.0000	-1.0601	-0.6713	-0.0000	1.0601	0.3224	0.0001	-0.0257
RohnCP	0.1463	0.0000	-0.4267	-0.1463	0.0000	0.4267	0.2526	0.0000	-0.0268
RohnDP	0.1775	0.0000	-0.5173	-0.1775	0.0000	0.5173	0.1875	-0.0000	-0.0265
RohnEP	0.1832	0.0000	-0.6412	-0.1832	-0.0000	0.6412	0.1306	-0.0001	-0.0235
RohnFP	0.2103	0.0000	-0.8697	-0.2103	-0.0000	0.8697	0.0845	-0.0001	-0.0203
RohnGP	0.2904	0.0000	-1.1585	-0.2904	-0.0000	1.1585	0.0484	-0.0001	-0.0163
RohnHP	0.2489	0.0000	-1.1531	-0.2489	-0.0000	1.1531	0.0222	-0.0001	-0.0117
RohnIP	0.3148	0.0000	-1.2937	-0.3148	-0.0000	1.2937	0.0063	-0.0000	-0.0057
RohnJP	0.1865	0.0000	-0.6991	6.9463	-0.0226	-89.1251	0.0000	0.0000	0.0000
SNB-AP	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3933	-0.0003	-0.0125
SNB-BP	0.1010	0.0000	-0.3361	-0.1010	0.0000	0.3361	0.3224	-0.0002	-0.0149
SNB-CP	0.1463	0.0000	-0.4267	-0.1463	0.0000	0.4267	0.2526	-0.0001	-0.0168
SNB-DP	0.1775	0.0000	-0.5173	-0.1775	0.0000	0.5173	0.1875	-0.0001	-0.0175
SNB-EP	0.1832	0.0000	-0.6412	-0.1832	-0.0000	0.6412	0.1306	-0.0000	-0.0161
SNB-FP	0.2103	0.0000	-0.8697	-0.2103	-0.0000	0.8697	0.0845	-0.0000	-0.0149
SNB-GP	0.2380	0.0000	-1.0585	-0.2380	-0.0000	1.0585	0.0484	-0.0000	-0.0123
SNB-HP	0.2489	0.0000	-1.1531	-0.2489	-0.0000	1.1531	0.0222	-0.0000	-0.0091
SNB-IP	0.3148	0.0000	-1.2937	-0.3148	0.0000	1.2937	0.0063	-0.0000	-0.0046
SNB-JP	0.1865	0.0000	-0.6991	11.3114	-0.0010	-122.2891	0.0000	0.0000	0.0000
RohnA1	0.1428	0.0000	-0.2953	-0.1428	0.0000	0.2953	0.3935	-0.0004	-0.0007
RohnA2	0.2439	0.0000	-0.4353	-0.2439	-0.0000	0.4353	0.3932	-0.0004	-0.0007
RohnB1	0.2340	0.0000	-0.4501	-0.2340	0.0000	0.4501	0.3227	-0.0003	0.0008
RohnB2	0.1600	0.0000	-0.3851	-0.1600	-0.0000	0.3851	0.3222	-0.0003	0.0009
RohnC1	0.1463	0.0000	-0.4267	-0.1463	0.0000	0.4267	0.2527	-0.0001	0.0022
RohnC2	0.1463	0.0000	-0.4267	-0.1463	-0.0000	0.4267	0.2524	-0.0003	0.0023
RohnD1	0.2244	0.0000	-0.5873	-0.2244	0.0000	0.5873	0.1873	0.0000	0.0033
RohnD2	0.1775	0.0000	-0.5173	-0.1775	-0.0000	0.5173	0.1872	-0.0002	0.0033
RohnE1	0.1832	0.0000	-0.6412	-0.1832	0.0000	0.6412	0.1306	0.0000	0.0037
RohnE2	0.1832	0.0000	-0.6412	-0.1832	-0.0000	0.6412	0.1306	-0.0000	0.0037
RohnF1	0.2103	0.0000	-0.8697	-0.2103	0.0000	0.8697	0.0842	0.0001	0.0037
RohnF2	0.3128	0.0000	-1.0147	-0.3128	-0.0000	1.0147	0.0844	-0.0000	0.0037
RohnG1	0.2673	0.0000	-1.1185	-0.2673	0.0000	1.1185	0.0482	0.0001	0.0032
RohnG2	0.3606	0.0000	-1.2145	-0.3606	-0.0000	1.2145	0.0484	0.0000	0.0032
RohnH1	0.2489	0.0000	-1.1531	-0.2489	0.0000	1.1531	0.0220	0.0001	0.0025
RohnH2	0.2489	0.0000	-1.1531	-0.2489	-0.0000	1.1531	0.0222	-0.0000	0.0025
RohnI1	0.3148	0.0000	-1.2937	-0.3148	0.0000	1.2937	0.0062	0.0000	0.0012
RohnI2	0.3148	0.0000	-1.2937	-0.3148	0.0000	1.2937	0.0063	0.0000	0.0012
RohnJ1	0.1865	0.0000	-0.6991	1.5338	1.5986	20.8803	0.0000	0.0000	0.0000
RohnJ2	0.1865	0.0000	-0.6991	1.5735	-1.5799	20.8923	0.0000	0.0000	0.0000
SNB-A1	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3933	-0.0003	-0.0001
SNB-A2	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3933	-0.0003	-0.0001
SNB-B1	0.1010	0.0000	-0.3361	-0.1010	-0.0000	0.3361	0.3225	-0.0002	0.0014
SNB-B2	0.1010	0.0000	-0.3361	-0.1010	0.0000	0.3361	0.3225	-0.0002	0.0015
SNB-C1	0.1463	0.0000	-0.4267	-0.1463	-0.0000	0.4267	0.2526	-0.0001	0.0028
SNB-C2	0.1463	0.0000	-0.4267	-0.1463	0.0000	0.4267	0.2526	-0.0001	0.0028
SNB-D1	0.1775	0.0000	-0.5173	-0.1775	-0.0000	0.5173	0.1875	-0.0001	0.0037
SNB-D2	0.1775	0.0000	-0.5173	-0.1775	0.0000	0.5173	0.1875	-0.0001	0.0038
SNB-E1	0.1832	0.0000	-0.6412	-0.1832	-0.0000	0.6412	0.1306	-0.0000	0.0039
SNB-E2	0.1832	0.0000	-0.6412	-0.1832	0.0000	0.6412	0.1306	-0.0000	0.0039
SNB-F1	0.2103	0.0000	-0.8697	-0.2103	-0.0000	0.8697	0.0845	-0.0000	0.0040
SNB-F2	0.2103	0.0000	-0.8697	-0.2103	0.0000	0.8697	0.0845	-0.0000	0.0040
SNB-G1	0.2380	0.0000	-1.0585	-0.2380	-0.0000	1.0585	0.0483	0.0000	0.0035
SNB-G2	0.2380	0.0000	-1.0585	-0.2380	0.0000	1.0585	0.0483	-0.0000	0.0035
SNB-H1	0.2489	0.0000	-1.1531	-0.2489	-0.0000	1.1531	0.0221	0.0000	0.0027
SNB-H2	0.2489	0.0000	-1.1531	-0.2489	0.0000	1.1531	0.0221	-0.0000	0.0027
SNB-I1	0.3148	0.0000	-1.2937	-0.3148	-0.0000	1.2937	0.0062	0.0001	0.0014
SNB-I2	0.3148	0.0000	-1.2937	-0.3148	0.0000	1.2937	0.0062	-0.0001	0.0014
SNB-J1	0.1865	0.0000	-0.6991	3.4324	3.7675	39.1788	0.0000	0.0000	0.0000
SNB-J2	0.1865	0.0000	-0.6991	3.4352	-3.7736	39.2195	0.0000	0.0000	0.0000
RohnAaS	0.1338	0.0000	-0.2075	-0.1338	0.0000	0.2075	0.3756	0.0000	-0.0241
RohnAbS	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3578	0.0000	-0.0247
RohnAcS	0.1245	0.0000	-0.2085	-0.1245	-0.0000	0.2085	0.3401	0.0001	-0.0253

RohnBaS	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.3048	0.0001	-0.0262
RohnBbS	0.4878	0.0000	-0.9650	-0.4878	0.0000	0.9650	0.2872	0.0001	-0.0265
RohnBcS	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.2699	0.0000	-0.0267
RohnCaS	0.4530	0.0000	-0.7981	-0.4530	-0.0000	0.7981	0.2304	0.0000	-0.0269
RohnCbS	0.6305	0.0000	-1.4356	-0.6305	-0.0000	1.4356	0.2086	0.0000	-0.0268
RohnDaS	0.6417	0.0000	-1.2660	-0.6417	-0.0000	1.2660	0.1675	-0.0000	-0.0258
RohnDbS	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1486	-0.0000	-0.0248
RohnEaS	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.1145	-0.0001	-0.0226
RohnEbS	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.0990	-0.0001	-0.0215
RohnFaS	0.1175	0.0000	-0.4999	-0.1175	-0.0000	0.4999	0.0658	-0.0001	-0.0184
RohnGaS	0.1205	0.0000	-0.5585	-0.1205	-0.0000	0.5585	0.0347	-0.0001	-0.0141
RohnHaS	0.1283	0.0000	-0.5946	-0.1283	-0.0000	0.5946	0.0136	-0.0001	-0.0088
RohnIaS	0.1865	0.0000	-0.6991	-0.1865	-0.0000	0.6991	0.0026	-0.0000	-0.0030
SNB-AaS	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3756	-0.0002	-0.0131
SNB-AbS	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3578	-0.0002	-0.0138
SNB-AcS	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3401	-0.0002	-0.0144
SNB-BaS	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.3048	-0.0002	-0.0155
SNB-BbS	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2872	-0.0002	-0.0160
SNB-BcS	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2699	-0.0001	-0.0164
SNB-CaS	0.0871	0.0000	-0.2459	-0.0871	-0.0000	0.2459	0.2304	-0.0001	-0.0172
SNB-CbS	0.0871	0.0000	-0.2459	-0.0871	-0.0000	0.2459	0.2086	-0.0001	-0.0174
SNB-DaS	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1675	-0.0000	-0.0172
SNB-DbS	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1486	-0.0000	-0.0168
SNB-EaS	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.1145	-0.0000	-0.0159
SNB-EbS	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.0990	-0.0000	-0.0155
SNB-FaS	0.1175	0.0000	-0.4999	-0.1175	-0.0000	0.4999	0.0658	-0.0000	-0.0138
SNB-GaS	0.1205	0.0000	-0.5585	-0.1205	-0.0000	0.5585	0.0347	-0.0000	-0.0109
SNB-HaS	0.1283	0.0000	-0.5946	-0.1283	-0.0000	0.5946	0.0136	-0.0000	-0.0070
SNB-IaS	0.1865	0.0000	-0.6991	-0.1865	-0.0000	0.6991	0.0026	-0.0000	-0.0024
SNB-WL-A1S	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3933	-0.0003	-0.0065
SNB-WL-A2S	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3933	-0.0003	-0.0002
SNB-WL-A3S	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3933	-0.0003	-0.0064
SNB-WL-B1S	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3224	-0.0002	-0.0070
SNB-WL-B2S	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3225	-0.0002	0.0012
SNB-WL-B3S	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3224	-0.0002	-0.0070
SNB-WL-C1S	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.2526	-0.0001	-0.0074
SNB-WL-C2S	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2527	-0.0001	0.0024
SNB-WL-C3S	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2526	-0.0001	-0.0074
SNB-WL-D1S	0.0871	0.0000	-0.2459	-0.0871	0.0000	0.2459	0.1875	-0.0001	-0.0078
SNB-WL-D2S	0.0871	0.0000	-0.2459	-0.0871	-0.0000	0.2459	0.1875	-0.0001	0.0029
SNB-WL-D3S	0.0871	0.0000	-0.2459	-0.0871	-0.0000	0.2459	0.1875	-0.0001	-0.0078
SNB-WL-E1S	0.0904	0.0000	-0.2714	-0.0904	0.0000	0.2714	0.1306	-0.0000	-0.0067
SNB-WL-E2S	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1307	-0.0000	0.0033
SNB-WL-E3S	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1306	-0.0000	-0.0067
SNB-WL-F1S	0.0928	0.0000	-0.3697	-0.0928	0.0000	0.3697	0.0845	-0.0000	-0.0068
SNB-WL-F2S	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.0845	-0.0000	0.0028
SNB-WL-F3S	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.0845	-0.0000	-0.0068
SNB-WL-G1S	0.1175	0.0000	-0.4999	-0.1175	0.0000	0.4999	0.0484	-0.0000	-0.0068
SNB-WL-G2S	0.1175	0.0000	-0.4999	-0.1175	-0.0000	0.4999	0.0484	-0.0000	0.0013
SNB-WL-G3S	0.1175	0.0000	-0.4999	-0.1175	-0.0000	0.4999	0.0484	-0.0000	-0.0068
SNB-WL-H1S	0.1205	0.0000	-0.5585	-0.1205	0.0000	0.5585	0.0222	-0.0000	-0.0065
SNB-WL-H2S	0.1205	0.0000	-0.5585	-0.1205	-0.0000	0.5585	0.0222	-0.0000	-0.0006
SNB-WL-H3S	0.1205	0.0000	-0.5585	-0.1205	-0.0000	0.5585	0.0222	0.0000	-0.0065
SNB-WL-I1S	0.1283	0.0000	-0.5946	-0.1283	0.0000	0.5946	0.0062	-0.0000	-0.0061
SNB-WL-I2S	0.1283	0.0000	-0.5946	-0.1283	0.0000	0.5946	0.0063	-0.0000	-0.0030
SNB-WL-I3S	0.1283	0.0000	-0.5946	-0.1283	-0.0000	0.5946	0.0062	0.0000	-0.0061
RohnAa1	0.1106	0.0000	-0.2288	-0.1106	0.0000	0.2288	0.3758	-0.0004	-0.0003
RohnAa2	0.1748	0.0000	-0.2518	-0.1748	-0.0000	0.2518	0.3754	-0.0003	-0.0003
RohnAb1	0.2471	-0.0111	-0.2753	-0.2471	0.0111	0.2753	0.3582	-0.0004	0.0001
RohnAb2	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3576	-0.0004	0.0001
RohnAc1	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3403	-0.0004	0.0005
RohnAc2	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3398	-0.0004	0.0005
RohnBa1	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.3049	-0.0003	0.0012
RohnBa2	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.3045	-0.0003	0.0012
RohnBb1	0.4714	0.0000	-0.9380	-0.4714	0.0000	0.9380	0.2876	-0.0004	0.0016
RohnBb2	0.4714	0.0000	-0.9380	-0.4714	-0.0000	0.9380	0.2872	-0.0002	0.0016
RohnBc1	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.2699	-0.0002	0.0019
RohnBc2	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2696	-0.0003	0.0019
RohnCa1	0.4892	0.0000	-0.8581	-0.4892	0.0000	0.8581	0.2304	-0.0002	0.0026

RohnCa2	0.5128	0.0000	-0.8981	-0.5128	-0.0000	0.8981	0.2303	-0.0001	0.0026
RohnCb1	0.5454	0.0000	-1.3356	-0.5454	0.0000	1.3356	0.2084	-0.0001	0.0030
RohnCb2	0.5454	0.0000	-1.3356	-0.5454	-0.0000	1.3356	0.2083	-0.0001	0.0030
RohnDa1	0.5835	0.0000	-1.1610	-0.5835	0.0000	1.1610	0.1673	-0.0001	0.0035
RohnDa2	0.5835	0.0000	-1.1610	-0.5835	-0.0000	1.1610	0.1672	-0.0000	0.0035
RohnDb1	0.0904	0.0000	-0.2714	-0.0904	0.0000	0.2714	0.1479	0.0001	0.0036
RohnDb2	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1479	-0.0002	0.0037
RohnEa1	0.0928	0.0000	-0.3697	-0.0928	0.0000	0.3697	0.1139	0.0001	0.0037
RohnEa2	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.1141	-0.0001	0.0038
RohnEb1	0.0928	0.0000	-0.3697	-0.0928	0.0000	0.3697	0.0985	0.0002	0.0037
RohnEb2	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.0987	-0.0001	0.0037
RohnFa1	0.1175	0.0000	-0.4999	-0.1175	0.0000	0.4999	0.0642	0.0004	0.0035
RohnFa2	0.1175	0.0000	-0.4999	-0.1175	-0.0000	0.4999	0.0644	-0.0003	0.0035
RohnGa1	0.1205	0.0000	-0.5585	-0.1205	0.0000	0.5585	0.0332	0.0004	0.0029
RohnGa2	0.1205	0.0000	-0.5585	-0.1205	-0.0000	0.5585	0.0334	-0.0003	0.0029
RohnHa1	0.1283	0.0000	-0.5946	-0.1283	0.0000	0.5946	0.0119	0.0005	0.0019
RohnHa2	0.1283	0.0000	-0.5946	-0.1283	-0.0000	0.5946	0.0120	-0.0004	0.0019
RohnIa1	0.1865	0.0000	-0.6991	-0.1865	-0.0000	0.6991	0.0013	0.0003	0.0007
RohnIa2	0.1865	0.0000	-0.6991	-0.1865	-0.0000	0.6991	0.0013	-0.0003	0.0007
SNB-Aa1	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3755	-0.0003	0.0003
SNB-Aa2	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3756	-0.0002	0.0003
SNB-Ab1	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3578	-0.0002	0.0007
SNB-Ab2	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3578	-0.0002	0.0007
SNB-Ac1	0.0418	0.0000	-0.1553	-0.0418	-0.0000	0.1553	0.3401	-0.0002	0.0011
SNB-Ac2	0.0418	0.0000	-0.1553	-0.0418	0.0000	0.1553	0.3401	-0.0002	0.0011
SNB-Ba1	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.3048	-0.0002	0.0018
SNB-Ba2	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.3048	-0.0002	0.0018
SNB-Bb1	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2872	-0.0001	0.0022
SNB-Bb2	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.2872	-0.0002	0.0022
SNB-Bc1	0.0592	0.0000	-0.1808	-0.0592	-0.0000	0.1808	0.2698	-0.0001	0.0025
SNB-Bc2	0.0592	0.0000	-0.1808	-0.0592	0.0000	0.1808	0.2698	-0.0001	0.0025
SNB-Ca1	0.0871	0.0000	-0.2459	-0.0871	-0.0000	0.2459	0.2301	-0.0000	0.0032
SNB-Ca2	0.0871	0.0000	-0.2459	-0.0871	0.0000	0.2459	0.2301	-0.0002	0.0032
SNB-Cb1	0.0871	0.0000	-0.2459	-0.0871	-0.0000	0.2459	0.2082	-0.0000	0.0035
SNB-Cb2	0.0871	0.0000	-0.2459	-0.0871	0.0000	0.2459	0.2082	-0.0002	0.0035
SNB-Da1	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1671	0.0000	0.0039
SNB-Da2	0.0904	0.0000	-0.2714	-0.0904	0.0000	0.2714	0.1671	-0.0001	0.0039
SNB-Db1	0.0904	0.0000	-0.2714	-0.0904	-0.0000	0.2714	0.1479	0.0002	0.0040
SNB-Db2	0.0904	0.0000	-0.2714	-0.0904	0.0000	0.2714	0.1479	-0.0002	0.0040
SNB-Ea1	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.1141	0.0001	0.0040
SNB-Ea2	0.0928	0.0000	-0.3697	-0.0928	0.0000	0.3697	0.1141	-0.0001	0.0040
SNB-Eb1	0.0928	0.0000	-0.3697	-0.0928	-0.0000	0.3697	0.0986	0.0001	0.0040
SNB-Eb2	0.0928	0.0000	-0.3697	-0.0928	0.0000	0.3697	0.0986	-0.0001	0.0040
SNB-Fa1	0.1175	0.0000	-0.4999	-0.1175	-0.0000	0.4999	0.0642	0.0004	0.0038
SNB-Fa2	0.1175	0.0000	-0.4999	-0.1175	0.0000	0.4999	0.0642	-0.0005	0.0038
SNB-Ga1	0.1205	0.0000	-0.5585	-0.1205	-0.0000	0.5585	0.0333	0.0004	0.0031
SNB-Ga2	0.1205	0.0000	-0.5585	-0.1205	0.0000	0.5585	0.0333	-0.0004	0.0031
SNB-Ha1	0.1283	0.0000	-0.5946	-0.1283	-0.0000	0.5946	0.0120	0.0004	0.0021
SNB-Ha2	0.1283	0.0000	-0.5946	-0.1283	0.0000	0.5946	0.0120	-0.0004	0.0021
SNB-Ia1	0.1865	0.0000	-0.6991	-0.1865	0.0000	0.6991	0.0012	0.0004	0.0008
SNB-Ia2	0.1865	0.0000	-0.6991	-0.1865	-0.0000	0.6991	0.0012	-0.0004	0.0008

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	0.00	0.27	1.01	5.44	-6.08	1.14	-1.01
Rohn-LA11	0.49	-0.45	0.62	0.47	9.27	0.00	1.98
Rohn-LA12	-0.52	0.39	0.76	3.21	-2.60	0.72	-0.37
Rohn-LA2P	0.00	-5.44	6.08	-7.17	8.79	-2.52	2.97
Rohn-LA21	0.49	-0.47	-9.27	-5.05	-20.95	-1.10	-6.04
Rohn-LA22	-0.52	-3.21	2.60	-2.41	-0.66	-1.12	0.39
Rohn-LA3P	0.00	7.17	-8.79	7.86	-7.01	3.00	-3.16
Rohn-LA31	0.49	5.05	20.95	5.32	25.22	2.07	9.23
Rohn-LA32	-0.52	2.41	0.66	-1.81	13.08	0.12	2.75
Rohn-LA4P	0.00	-7.86	7.01	-3.96	11.35	-2.36	3.67
Rohn-LA41	0.49	-5.32	-25.22	-8.68	-28.95	-2.80	-10.83

Rohn-LA42	-0.52	1.81	-13.08	5.67	-20.05	1.49	-6.62
Rohn-LB1P	0.67	3.78	-9.04	2.40	-7.68	1.23	-3.34
Rohn-LB11	2.01	8.18	30.47	19.54	54.89	5.54	17.06
Rohn-LB12	-0.65	-4.97	21.32	-18.41	51.37	-4.67	14.53
Rohn-LB2P	0.67	-2.40	7.68	-0.94	20.79	-0.67	5.69
Rohn-LB21	2.01	-19.54	-54.89	-25.12	-53.00	-8.92	-21.56
Rohn-LB22	-0.65	18.41	-51.37	24.99	-51.71	8.67	-20.60
Rohn-LB3P	0.67	0.94	-20.79	0.88	-8.17	0.36	-5.79
Rohn-LB31	2.01	25.12	53.00	10.29	41.55	7.08	18.89
Rohn-LB32	-0.65	-24.99	51.71	-10.31	41.25	-7.05	18.58
Rohn-LB4P	0.67	-0.88	8.17	-1.47	41.98	-0.47	10.02
Rohn-LB41	2.01	-10.29	-41.55	10.99	30.07	0.14	-2.29
Rohn-LB42	-0.65	10.31	-41.25	-10.06	29.33	0.05	-2.38
Rohn-LC1P	0.67	1.47	-41.98	0.44	17.15	0.29	-3.73
Rohn-LC11	2.00	-10.99	-30.07	-12.56	1.19	-3.53	-4.33
Rohn-LC12	-0.65	10.06	-29.33	13.05	0.37	3.47	-4.35
Rohn-LC2P	0.67	-0.44	-17.15	0.16	16.39	-0.04	-0.11
Rohn-LC21	2.00	12.56	-1.19	-8.26	35.56	0.64	5.14
Rohn-LC22	-0.65	-13.05	-0.37	9.27	33.47	-0.57	4.95
Rohn-LC3P	0.67	-0.16	-16.39	-0.73	66.72	-0.13	7.55
Rohn-LC31	2.00	8.26	-35.56	33.58	64.45	6.28	4.33
Rohn-LC32	-0.65	-9.27	-33.47	-35.23	69.25	-6.68	5.37
Rohn-LD1P	0.67	0.73	-66.72	1.57	82.66	0.35	2.39
Rohn-LD11	2.00	-33.58	-64.45	-56.81	13.14	-13.56	-7.70
Rohn-LD12	-0.64	35.23	-69.25	58.64	9.21	14.08	-9.01
Rohn-LD2P	0.67	-1.57	-82.66	-0.48	25.53	-0.31	-8.55
Rohn-LD21	2.01	56.81	-13.14	58.22	179.31	17.21	24.86
Rohn-LD22	-0.65	-58.64	-9.21	-58.25	180.68	-17.48	25.65
Rohn-LD3P	0.67	0.48	-25.53	-0.09	180.55	0.06	23.27
Rohn-LD31	2.00	-58.22	-179.31	-45.65	7.58	-15.58	-25.76
Rohn-LD32	-0.64	58.25	-180.68	45.99	7.93	15.64	-25.92
Rohn-LE1P	0.67	0.09	-180.55	2.51	46.88	0.39	-20.06
Rohn-LE11	2.00	45.65	-7.58	17.46	133.94	9.47	18.96
Rohn-LE12	-0.65	-45.99	-7.93	-16.45	130.98	-9.37	18.46
Rohn-LE2P	0.67	-2.51	-46.88	-5.53	41.04	-1.20	-0.87
Rohn-LE21	2.00	-17.46	-133.94	17.42	107.43	-0.01	-3.96
Rohn-LE22	-0.64	16.45	-130.98	-20.06	115.88	-0.54	-2.26
Rohn-LE3P	0.67	5.53	-41.04	5.74	285.00	1.69	36.61
Rohn-LE31	2.00	-17.42	-107.43	-59.45	12.84	-11.53	-14.19
Rohn-LE32	-0.64	20.06	-115.88	67.01	-4.31	13.06	-18.03
Rohn-LF1P	0.67	-5.75	-285.00	-8.54	-49.98	-1.43	-33.48
Rohn-LF11	2.01	59.45	-12.84	109.79	419.15	16.91	40.60
Rohn-LF12	-0.65	-67.01	4.31	-114.76	432.48	-18.16	43.64
Rohn-LF2P	0.67	8.54	49.99	6.19	439.27	1.47	48.90
Rohn-LF21	1.99	-109.78	-419.15	-136.33	-116.46	-24.59	-53.52
Rohn-LF22	-0.63	114.76	-432.48	143.18	-132.21	25.77	-56.42
Rohn-LG1P	0.67	-6.19	-439.27	-5.80	-104.94	-1.20	-54.39
Rohn-LG11	2.02	136.33	116.46	153.76	504.60	28.99	62.05
Rohn-LG12	-0.67	-143.18	132.22	-156.67	512.33	-29.96	64.40
Rohn-LG2P	0.67	5.80	104.94	2.78	509.19	0.86	61.38
Rohn-LG21	2.00	-153.76	-504.60	-169.54	-154.96	-32.30	-65.90
Rohn-LG22	-0.64	156.67	-512.34	170.35	-157.49	32.67	-66.93
Rohn-LH1P	0.67	-2.78	-509.19	-0.19	-137.62	-0.30	-64.65
Rohn-LH11	1.99	169.54	154.96	191.90	602.65	36.11	75.70
Rohn-LH12	-0.64	-170.35	157.49	-192.70	604.52	-36.27	76.14
Rohn-LH2P	0.67	0.19	137.62	-0.35	654.51	-0.02	79.18
Rohn-LH21	1.96	-191.89	-602.66	-220.66	-220.56	-41.22	-82.25
Rohn-LH22	-0.60	192.69	-604.52	221.40	-221.78	41.37	-82.56
Rohn-LI1P	0.67	0.35	-654.51	-2.35	-211.06	-0.20	-86.51
Rohn-LI11	1.98	220.66	220.56	273.52	935.94	49.38	115.55
Rohn-LI12	-0.62	-221.40	221.78	-271.12	931.66	-49.21	115.25
Rohn-LI2P	0.67	2.35	211.06	12.05	1379.23	1.44	158.95
Rohn-LI21	1.93	-273.51	-935.94	-281.26	205.83	-55.43	-72.95
Rohn-LI22	-0.58	271.11	-931.66	270.20	226.30	54.09	-70.48
Rohn-H1P	0.05	0.43	-0.17	0.71	-0.35	0.15	-0.07
Rohn-H11	-0.01	-0.06	-0.15	0.05	0.20	-0.00	0.01
Rohn-H12	0.08	-0.82	0.34	-0.76	0.18	-0.21	0.07
Rohn-H2P	-0.12	1.47	-0.60	1.60	-0.89	0.35	-0.17
Rohn-H21	-0.02	0.17	-0.66	-0.01	-0.07	0.02	-0.08

Rohn-H22	0.03	-1.48	0.23	-1.29	-0.08	-0.31	0.02
SNB-LA1P	-0.00	1.08	61.40	3.24	6.74	0.86	13.62
SNB-LA11	0.08	54.19	-28.03	11.10	-0.78	13.05	-5.76
SNB-LA12	-0.08	-55.78	-30.47	-13.29	-5.85	-13.80	-7.26
SNB-LA2P	-0.00	-3.24	-6.74	-4.45	11.26	-1.54	0.90
SNB-LA21	0.08	-11.10	0.78	1.20	-11.33	-1.98	-2.11
SNB-LA22	-0.08	13.29	5.85	1.10	-4.85	2.87	0.20
SNB-LA3P	-0.00	4.45	-11.26	3.58	-22.01	1.60	-6.65
SNB-LA31	0.08	-1.20	11.33	-10.01	23.22	-2.24	6.90
SNB-LA32	-0.08	-1.10	4.85	8.00	17.91	1.38	4.55
SNB-LA4P	-0.00	-3.58	22.01	-2.31	66.22	-1.18	17.63
SNB-LA41	0.08	10.01	-23.22	36.24	-35.08	9.24	-11.65
SNB-LA42	-0.08	-8.00	-17.91	-34.49	-31.37	-8.49	-9.85
SNB-LB1P	-0.02	2.12	108.77	1.06	15.06	0.64	24.75
SNB-LB11	0.78	82.99	-19.04	14.61	21.79	19.51	0.55
SNB-LB12	-0.75	-84.01	-22.04	-15.22	20.22	-19.83	-0.36
SNB-LB2P	-0.02	-1.06	-15.06	-0.57	44.66	-0.33	5.92
SNB-LB21	0.78	-14.61	-21.79	7.12	-9.74	-1.50	-6.30
SNB-LB22	-0.74	15.22	-20.22	-6.55	-8.76	1.73	-5.79
SNB-LB3P	-0.02	0.57	-44.66	0.55	-52.78	0.22	-19.47
SNB-LB31	0.78	-7.12	9.74	-24.44	65.68	-6.31	15.07
SNB-LB32	-0.74	6.55	8.76	24.46	65.07	6.20	14.76
SNB-LB4P	-0.02	-0.55	52.78	-0.04	231.19	-0.12	56.75
SNB-LB41	0.78	24.44	-65.68	93.82	-46.65	23.63	-22.45
SNB-LB42	-0.75	-24.46	-65.07	-93.21	-46.28	-23.52	-22.25
SNB-LC1P	0.00	0.03	55.66	0.07	65.08	0.02	18.12
SNB-LC11	1.91	94.24	-40.19	37.23	28.09	19.73	-1.81
SNB-LC12	-1.90	-94.73	-40.51	-37.19	28.03	-19.79	-1.87
SNB-LC2P	0.00	-0.07	-65.08	0.25	-31.32	0.03	-14.42
SNB-LC21	1.90	-37.23	-28.09	-32.13	100.14	-10.37	10.78
SNB-LC22	-1.89	37.19	-28.03	32.05	99.81	10.36	10.74
SNB-LC3P	0.00	-0.25	31.32	-0.09	266.34	-0.05	44.66
SNB-LC31	1.91	32.13	-100.14	113.97	-75.69	21.92	-26.38
SNB-LC32	-1.90	-32.05	-99.81	-112.94	-75.00	-21.75	-26.23
SNB-LD1P	-0.01	0.12	181.49	0.76	200.79	0.13	57.36
SNB-LD11	2.51	207.38	-85.61	41.75	97.39	37.38	1.77
SNB-LD12	-2.48	-208.43	-86.38	-41.84	96.46	-37.55	1.51
SNB-LD2P	-0.01	-0.76	-200.79	0.02	-46.76	-0.11	-37.04
SNB-LD21	2.50	-41.75	-97.39	15.61	220.16	-3.91	18.36
SNB-LD22	-2.48	41.84	-96.46	-14.84	220.59	4.04	18.57
SNB-LD3P	-0.01	-0.02	46.76	-0.13	491.41	-0.02	80.76
SNB-LD31	2.51	-15.61	-220.16	48.55	-15.09	4.94	-35.29
SNB-LD32	-2.48	14.84	-220.59	-48.06	-14.69	-4.98	-35.30
SNB-LE1P	-0.07	0.24	148.53	2.27	302.44	0.38	67.67
SNB-LE11	5.01	347.14	-159.71	102.78	231.10	67.50	10.71
SNB-LE12	-4.93	-347.92	-160.43	-102.90	228.41	-67.64	10.20
SNB-LE2P	-0.07	-2.27	-302.44	-1.45	-40.03	-0.56	-51.24
SNB-LE21	4.99	-102.78	-231.10	-35.94	441.45	-20.75	31.46
SNB-LE22	-4.92	102.90	-228.41	39.20	445.00	21.26	32.40
SNB-LE3P	-0.07	1.45	40.03	1.10	1120.99	0.38	174.22
SNB-LE31	5.01	35.94	-441.45	238.14	-342.77	41.12	-117.65
SNB-LE32	-4.93	-39.21	-445.00	-241.31	-345.88	-42.08	-118.65
SNB-LF1P	-0.00	-1.14	-262.75	-0.67	-181.93	-0.18	-44.44
SNB-LF11	8.50	439.65	7.63	228.88	778.79	66.80	78.58
SNB-LF12	-8.50	-437.04	10.47	-225.85	781.29	-66.24	79.11
SNB-LF2P	-0.00	0.67	181.93	0.79	1250.81	0.15	143.19
SNB-LF21	8.46	-228.87	-778.79	36.66	-500.06	-19.21	-127.78
SNB-LF22	-8.47	225.85	-781.29	-39.55	-502.63	18.61	-128.28
SNB-LG1P	0.07	-0.81	-6.82	-0.89	-177.60	-0.17	-18.43
SNB-LG11	14.02	1039.83	-86.69	435.86	1404.95	147.45	131.72
SNB-LG12	-14.11	-1037.03	-84.14	-433.44	1407.33	-146.93	132.21
SNB-LG2P	0.07	0.89	177.60	0.71	2181.09	0.16	235.74
SNB-LG21	13.95	-435.84	-1404.95	202.91	-765.11	-23.27	-216.82
SNB-LG22	-14.05	433.43	-1407.34	-203.94	-766.50	22.93	-217.20
SNB-LH1P	0.02	-0.69	-539.88	-0.09	-280.41	-0.08	-81.99
SNB-LH11	13.53	1141.35	22.31	531.61	1555.53	167.15	157.65
SNB-LH12	-13.59	-1140.54	23.56	-531.15	1555.86	-167.03	157.81
SNB-LH2P	0.02	0.09	280.41	-0.02	2297.72	0.01	257.68
SNB-LH21	13.42	-531.59	-1555.54	-87.72	-795.53	-61.88	-234.91

SNB-LH22	-13.48	531.13	-1555.87	87.78	-795.44	61.84	-234.93
SNB-LI1P	-0.00	0.04	-383.59	0.44	-173.55	0.05	-55.68
SNB-LI11	4.73	1705.27	-101.41	1073.13	2259.17	277.61	215.59
SNB-LI12	-4.78	-1705.32	-101.49	-1073.01	2258.67	-277.60	215.54
SNB-LI2P	-0.00	-0.44	173.55	0.35	3235.84	-0.01	340.76
SNB-LI21	4.48	-1073.10	-2259.19	-949.31	407.66	-202.07	-184.99
SNB-LI22	-4.52	1072.99	-2258.69	950.77	408.35	202.20	-184.88
SNB-H1aP	-0.53	35.49	0.95	122.31	-1.37	78.10	-0.21
SNB-H1bP	-0.53	-122.31	1.38	-33.33	0.86	-77.03	1.11
SNB-H1cP	-0.58	37.07	-1.05	119.61	2.21	77.54	0.57
SNB-H1dP	-0.58	-119.61	-2.21	-37.12	0.98	-77.57	-0.61
SNB-H1eP	1.24	35.20	-0.84	120.90	-1.78	77.26	-1.30
SNB-H1fP	1.24	-120.90	1.78	-36.42	-0.90	-77.87	0.44
SNB-H2aP	-1.66	102.00	1.68	127.00	-0.26	84.72	0.52
SNB-H2bP	-1.66	-127.00	0.26	-63.26	-0.97	-70.39	-0.26
SNB-H2cP	0.15	86.17	-0.23	123.61	3.26	77.61	1.12
SNB-H2dP	0.15	-123.61	-3.26	-85.86	0.19	-77.50	-1.13
SNB-H2eP	1.50	62.69	0.99	127.33	-0.57	70.30	0.15
SNB-H2fP	1.50	-127.33	0.57	-101.89	-1.67	-84.81	-0.41
SNB-H3aP	-1.25	166.33	1.01	171.96	-0.74	99.95	0.08
SNB-H3bP	-1.25	-171.96	0.75	-100.95	-2.28	-80.64	-0.45
SNB-H3cP	0.01	136.51	0.41	169.21	5.20	90.33	1.66
SNB-H3dP	0.01	-169.21	-5.20	-136.43	-0.41	-90.31	-1.66
SNB-H3eP	1.24	100.89	2.30	171.98	-0.75	80.63	0.46
SNB-H3fP	1.24	-171.98	0.75	-166.34	-1.03	-99.96	-0.08
SNB-H4aP	-1.38	259.34	0.46	275.68	-2.16	131.58	-0.42
SNB-H4bP	-1.38	-275.68	2.16	-186.96	-3.54	-113.78	-0.34
SNB-H4cP	-0.02	226.72	2.10	272.94	10.45	122.89	3.09
SNB-H4dP	-0.02	-272.94	-10.45	-226.71	-2.12	-122.88	-3.09
SNB-H4eP	1.40	187.01	3.53	275.63	-2.20	113.78	0.33
SNB-H4fP	1.40	-275.63	2.20	-259.38	-0.44	-131.58	0.43
SNB-H5aP	-2.16	370.69	1.14	356.29	-3.72	153.15	-0.54
SNB-H5bP	-2.16	-356.29	3.72	-203.12	-6.25	-117.85	-0.53
SNB-H5cP	-0.07	292.27	1.92	351.67	16.72	135.66	3.93
SNB-H5dP	-0.08	-351.67	-16.72	-292.37	-1.95	-135.68	-3.93
SNB-H5eP	2.23	203.36	6.22	356.13	-3.74	117.87	0.52
SNB-H5fP	2.23	-356.13	3.74	-370.78	-1.08	-153.14	0.56
SNB-H6aP	-10.70	501.76	0.31	554.68	-2.81	194.62	-0.46
SNB-H6bP	-10.70	-554.68	2.80	-393.05	-6.94	-174.59	-0.76
SNB-H6cP	-0.02	472.05	1.58	531.21	14.08	184.82	2.88
SNB-H6dP	-0.03	-531.21	-14.08	-472.44	-1.54	-184.90	-2.88
SNB-H6eP	10.73	393.33	6.98	554.64	-2.51	174.64	0.82
SNB-H6fP	10.73	-554.64	2.52	-501.63	-0.37	-194.59	0.40
SNB-H7aP	-9.71	723.84	-3.06	822.04	-5.82	253.02	-1.45
SNB-H7bP	-9.71	-822.04	5.81	-682.87	-5.84	-246.31	-0.01
SNB-H7cP	0.01	726.74	-0.79	801.78	13.35	250.18	2.06
SNB-H7dP	0.01	-801.78	-13.35	-726.82	0.84	-250.19	-2.05
SNB-H7eP	9.70	682.92	5.89	822.09	-5.56	246.33	0.05
SNB-H7fP	9.71	-822.09	5.56	-723.82	2.99	-253.02	1.40
SNB-H8aP	-2.71	949.13	-3.15	989.66	-6.39	285.51	-1.40
SNB-H8bP	-2.71	-989.66	6.38	-858.73	-3.16	-272.20	0.47
SNB-H8cP	-0.02	912.82	2.49	986.30	15.21	279.67	2.61
SNB-H8dP	-0.02	-986.30	-15.21	-912.96	-2.50	-279.69	-2.61
SNB-H8eP	2.73	858.85	3.14	989.62	-6.35	272.21	-0.47
SNB-H8fP	2.74	-989.62	6.35	-949.13	3.19	-285.51	1.41
SNB-H9aP	-6.58	1108.91	-3.79	1143.85	-7.82	301.49	-1.55
SNB-H9bP	-6.58	-1143.85	7.81	-1038.52	0.98	-292.07	1.17
SNB-H9cP	0.00	1093.08	6.55	1133.54	17.40	297.99	3.21
SNB-H9dP	-0.01	-1133.54	-17.40	-1093.05	-6.56	-297.99	-3.21
SNB-H9eP	6.58	1038.51	-0.99	1143.84	-7.81	292.07	-1.18
SNB-H9fP	6.59	-1143.84	7.82	-1108.94	3.81	-301.49	1.56

Service Loads Check:

Joint Label	Elevation (ft)	Actual Twist (deg)	Allowable Twist (deg)	Twist Usage %	Actual Sway (deg)	Allowable Sway (deg)	Sway Usage %	Actual Disp. (ft)	Allowable Disp. (ft)	Disp. Usage %	Max. Usage %
SNB-A2	180.00	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3

SNB-A1	180.00	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
SNB-WL-A2S	180.00	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
RohnA2	180.00	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
RohnA1	180.00	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
SNB-WL-A3S	179.99	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
SNB-WL-A1S	179.99	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
SNB-AP	179.99	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
RohnAP	179.98	0.00	4.00	0.1	0.20	4.00	5.1	0.39	5.40	7.3	7.3
SNB-Aa2	175.00	0.00	4.00	0.1	0.20	4.00	5.1	0.38	5.40	7.0	7.0
SNB-Aa1	175.00	0.00	4.00	0.1	0.20	4.00	5.1	0.38	5.40	7.0	7.0
RohnAa2	175.00	0.00	4.00	0.1	0.20	4.00	5.1	0.38	5.40	7.0	7.0
RohnAa1	175.00	0.00	4.00	0.1	0.20	4.00	5.1	0.38	5.40	7.0	7.0
SNB-AaS	174.99	0.00	4.00	0.1	0.20	4.00	5.1	0.38	5.40	7.0	7.0
RohnAaS	174.98	0.00	4.00	0.1	0.20	4.00	5.1	0.38	5.40	7.0	7.0
SNB-Ab2	170.00	0.00	4.00	0.1	0.20	4.00	5.1	0.36	5.40	6.6	6.6
SNB-Ab1	170.00	0.00	4.00	0.1	0.20	4.00	5.1	0.36	5.40	6.6	6.6
RohnAb2	170.00	0.00	4.00	0.1	0.20	4.00	5.1	0.36	5.40	6.6	6.6
RohnAb1	170.00	0.00	4.00	0.1	0.20	4.00	5.1	0.36	5.40	6.6	6.6
SNB-AbS	169.99	0.00	4.00	0.1	0.20	4.00	5.1	0.36	5.40	6.6	6.6
RohnAbS	169.98	0.00	4.00	0.1	0.20	4.00	5.1	0.36	5.40	6.6	6.6
SNB-Ac2	165.00	0.00	4.00	0.1	0.20	4.00	5.1	0.34	5.40	6.3	6.3
SNB-Ac1	165.00	0.00	4.00	0.1	0.20	4.00	5.1	0.34	5.40	6.3	6.3
RohnAc2	165.00	0.00	4.00	0.1	0.20	4.00	5.1	0.34	5.40	6.3	6.3
RohnAc1	165.00	0.00	4.00	0.1	0.20	4.00	5.1	0.34	5.40	6.3	6.3
SNB-AcS	164.99	0.00	4.00	0.1	0.20	4.00	5.1	0.34	5.40	6.3	6.3
RohnAcS	164.97	0.00	4.00	0.1	0.20	4.00	5.1	0.34	5.40	6.3	6.3
SNB-B2	160.00	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
SNB-B1	160.00	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
SNB-WL-B2S	160.00	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
RohnB2	160.00	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
RohnB1	160.00	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
SNB-WL-B3S	159.99	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
SNB-WL-B1S	159.99	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
SNB-BP	159.99	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
RohnBP	159.97	0.00	4.00	0.1	0.20	4.00	5.1	0.32	5.40	6.0	6.0
SNB-Ba2	155.00	0.00	4.00	0.1	0.20	4.00	5.1	0.30	5.40	5.6	5.6
SNB-Ba1	155.00	0.00	4.00	0.1	0.20	4.00	5.1	0.30	5.40	5.6	5.6
RohnBa2	155.00	0.00	4.00	0.1	0.20	4.00	5.1	0.30	5.40	5.6	5.6
RohnBa1	155.00	0.00	4.00	0.1	0.20	4.00	5.1	0.30	5.40	5.6	5.6
SNB-BaS	154.98	0.00	4.00	0.1	0.20	4.00	5.1	0.30	5.40	5.6	5.6
RohnBaS	154.97	0.00	4.00	0.1	0.20	4.00	5.1	0.30	5.40	5.6	5.6
SNB-Bb2	150.00	0.00	4.00	0.1	0.20	4.00	5.1	0.29	5.40	5.3	5.3
SNB-Bb1	150.00	0.00	4.00	0.1	0.20	4.00	5.1	0.29	5.40	5.3	5.3
RohnBb2	150.00	0.00	4.00	0.1	0.20	4.00	5.1	0.29	5.40	5.3	5.3
RohnBb1	150.00	0.00	4.00	0.1	0.20	4.00	5.1	0.29	5.40	5.3	5.3
SNB-BbS	149.98	0.00	4.00	0.1	0.20	4.00	5.1	0.29	5.40	5.3	5.3
RohnBbS	149.97	0.00	4.00	0.1	0.20	4.00	5.1	0.29	5.40	5.3	5.3
SNB-Bc2	145.00	0.00	4.00	0.1	0.20	4.00	5.1	0.27	5.40	5.0	5.1
SNB-Bc1	145.00	0.00	4.00	0.1	0.20	4.00	5.1	0.27	5.40	5.0	5.1
RohnBc2	145.00	0.00	4.00	0.1	0.20	4.00	5.1	0.27	5.40	5.0	5.1
RohnBc1	145.00	0.00	4.00	0.1	0.20	4.00	5.1	0.27	5.40	5.0	5.1
SNB-BcS	144.98	0.00	4.00	0.1	0.20	4.00	5.1	0.27	5.40	5.0	5.1
RohnBcS	144.97	0.00	4.00	0.1	0.20	4.00	5.1	0.27	5.40	5.0	5.1
SNB-C2	140.00	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
SNB-C1	140.00	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
SNB-WL-C2S	140.00	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
RohnC2	140.00	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
RohnC1	140.00	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
SNB-WL-C3S	139.99	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
SNB-WL-C1S	139.99	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
SNB-CP	139.98	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
RohnCP	139.97	0.00	4.00	0.1	0.20	4.00	5.1	0.25	5.40	4.7	5.1
SNB-Ca2	133.34	0.00	4.00	0.1	0.20	4.00	5.1	0.23	5.40	4.3	5.1
SNB-Ca1	133.34	0.00	4.00	0.1	0.20	4.00	5.1	0.23	5.40	4.3	5.1
RohnCa2	133.34	0.00	4.00	0.1	0.20	4.00	5.1	0.23	5.40	4.3	5.1
RohnCa1	133.34	0.00	4.00	0.1	0.20	4.00	5.1	0.23	5.40	4.3	5.1
SNB-CaS	133.32	0.00	4.00	0.1	0.20	4.00	5.1	0.23	5.40	4.3	5.1
RohnCaS	133.31	0.00	4.00	0.1	0.20	4.00	5.1	0.23	5.40	4.3	5.1
SNB-Cb2	126.66	0.00	4.00	0.1	0.20	4.00	5.1	0.21	5.40	3.9	5.1

SNB-Cb1	126.66	0.00	4.00	0.1	0.20	4.00	5.1	0.21	5.40	3.9	5.1
RohnCb2	126.66	0.00	4.00	0.1	0.20	4.00	5.1	0.21	5.40	3.9	5.1
RohnCb1	126.66	0.00	4.00	0.1	0.20	4.00	5.1	0.21	5.40	3.9	5.1
SNB-CbS	126.64	0.00	4.00	0.1	0.20	4.00	5.1	0.21	5.40	3.9	5.1
RohnCbS	126.63	0.00	4.00	0.1	0.20	4.00	5.1	0.21	5.40	3.9	5.1
SNB-D2	120.00	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
SNB-D1	120.00	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
RohnD2	120.00	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
RohnD1	120.00	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
SNB-WL-D2S	120.00	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
SNB-WL-D3S	119.99	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
SNB-WL-D1S	119.99	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
SNB-DP	119.98	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
RohnDP	119.97	0.00	4.00	0.1	0.20	4.00	5.1	0.19	5.40	3.5	5.1
SNB-Da2	113.34	0.00	4.00	0.1	0.20	4.00	5.1	0.17	5.40	3.1	5.1
SNB-Da1	113.34	0.00	4.00	0.1	0.20	4.00	5.1	0.17	5.40	3.1	5.1
RohnDa2	113.34	0.00	4.00	0.1	0.20	4.00	5.1	0.17	5.40	3.1	5.1
RohnDa1	113.34	0.00	4.00	0.1	0.20	4.00	5.1	0.17	5.40	3.1	5.1
SNB-DaS	113.32	0.00	4.00	0.1	0.20	4.00	5.1	0.17	5.40	3.1	5.1
RohnDaS	113.31	0.00	4.00	0.1	0.20	4.00	5.1	0.17	5.40	3.1	5.1
SNB-Db2	106.66	0.00	4.00	0.1	0.20	4.00	5.1	0.15	5.40	2.7	5.1
SNB-Db1	106.66	0.00	4.00	0.1	0.20	4.00	5.1	0.15	5.40	2.7	5.1
RohnDb2	106.66	0.00	4.00	0.1	0.20	4.00	5.1	0.15	5.40	2.7	5.1
RohnDb1	106.66	0.00	4.00	0.1	0.20	4.00	5.1	0.15	5.40	2.7	5.1
SNB-DbS	106.64	0.00	4.00	0.1	0.20	4.00	5.1	0.15	5.40	2.8	5.1
RohnDbS	106.64	0.00	4.00	0.1	0.20	4.00	5.1	0.15	5.40	2.8	5.1
SNB-E2	100.00	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
SNB-E1	100.00	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
RohnE2	100.00	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
RohnE1	100.00	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
SNB-WL-E2S	100.00	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
SNB-WL-E3S	99.99	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
SNB-WL-E1S	99.99	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
SNB-EP	99.98	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
RohnEP	99.98	0.00	4.00	0.1	0.20	4.00	5.1	0.13	5.40	2.4	5.1
SNB-Ea2	93.34	0.00	4.00	0.1	0.20	4.00	5.1	0.11	5.40	2.1	5.1
SNB-Ea1	93.34	0.00	4.00	0.1	0.20	4.00	5.1	0.11	5.40	2.1	5.1
RohnEa2	93.34	0.00	4.00	0.1	0.20	4.00	5.1	0.11	5.40	2.1	5.1
RohnEa1	93.34	0.00	4.00	0.1	0.20	4.00	5.1	0.11	5.40	2.1	5.1
SNB-EaS	93.32	0.00	4.00	0.1	0.20	4.00	5.1	0.11	5.40	2.1	5.1
RohnEaS	93.32	0.00	4.00	0.1	0.20	4.00	5.1	0.11	5.40	2.1	5.1
SNB-Eb2	86.66	0.00	4.00	0.1	0.20	4.00	5.1	0.10	5.40	1.8	5.1
SNB-Eb1	86.66	0.00	4.00	0.1	0.20	4.00	5.1	0.10	5.40	1.8	5.1
RohnEb2	86.66	0.00	4.00	0.1	0.20	4.00	5.1	0.10	5.40	1.8	5.1
RohnEb1	86.66	0.00	4.00	0.1	0.20	4.00	5.1	0.10	5.40	1.8	5.1
SNB-EbS	86.64	0.00	4.00	0.1	0.20	4.00	5.1	0.10	5.40	1.8	5.1
RohnEbS	86.64	0.00	4.00	0.1	0.20	4.00	5.1	0.10	5.40	1.8	5.1
SNB-F2	80.00	0.00	4.00	0.1	0.20	4.00	5.1	0.08	5.40	1.6	5.1
SNB-F1	80.00	0.00	4.00	0.1	0.20	4.00	5.1	0.08	5.40	1.6	5.1
RohnF1	80.00	0.00	4.00	0.1	0.20	4.00	5.1	0.08	5.40	1.6	5.1
RohnF2	80.00	0.00	4.00	0.1	0.20	4.00	5.1	0.08	5.40	1.6	5.1
SNB-WL-F2S	80.00	0.00	4.00	0.1	0.20	4.00	5.1	0.08	5.40	1.6	5.1
SNB-WL-F3S	79.99	0.00	4.00	0.1	0.20	4.00	5.0	0.08	5.40	1.6	5.0
SNB-WL-F1S	79.99	0.00	4.00	0.1	0.20	4.00	5.0	0.08	5.40	1.6	5.0
SNB-FP	79.99	0.00	4.00	0.1	0.20	4.00	5.0	0.08	5.40	1.6	5.0
RohnFP	79.98	0.00	4.00	0.1	0.20	4.00	5.0	0.08	5.40	1.6	5.0
SNB-Fa2	70.00	0.00	4.00	0.0	0.19	4.00	4.8	0.06	5.40	1.2	4.8
SNB-Fa1	70.00	0.00	4.00	0.0	0.19	4.00	4.8	0.06	5.40	1.2	4.8
RohnFa1	70.00	0.00	4.00	0.0	0.19	4.00	4.8	0.06	5.40	1.2	4.8
RohnFa2	70.00	0.00	4.00	0.0	0.19	4.00	4.8	0.06	5.40	1.2	4.8
SNB-FaS	69.99	0.00	4.00	0.0	0.19	4.00	4.7	0.07	5.40	1.2	4.7
RohnFaS	69.98	0.00	4.00	0.0	0.19	4.00	4.7	0.07	5.40	1.2	4.7
SNB-G2	60.00	0.00	4.00	0.0	0.17	4.00	4.3	0.05	5.40	0.9	4.3
SNB-G1	60.00	0.00	4.00	0.0	0.17	4.00	4.3	0.05	5.40	0.9	4.3
RohnG1	60.00	0.00	4.00	0.0	0.17	4.00	4.3	0.05	5.40	0.9	4.3
RohnG2	60.00	0.00	4.00	0.0	0.17	4.00	4.3	0.05	5.40	0.9	4.3
SNB-WL-G2S	60.00	0.00	4.00	0.0	0.17	4.00	4.3	0.05	5.40	0.9	4.3
SNB-WL-G3S	59.99	0.00	4.00	0.0	0.16	4.00	4.1	0.05	5.40	0.9	4.1
SNB-WL-G1S	59.99	0.00	4.00	0.0	0.16	4.00	4.1	0.05	5.40	0.9	4.1

SNB-GP	59.99	0.00	4.00	0.0	0.16	4.00	4.1	0.05	5.40	0.9	4.1
RohnGP	59.98	0.00	4.00	0.0	0.16	4.00	4.1	0.05	5.40	0.9	4.1
SNB-Ga2	50.00	-0.00	4.00	0.0	0.14	4.00	3.5	0.03	5.40	0.6	3.5
SNB-Ga1	50.00	-0.00	4.00	0.0	0.14	4.00	3.5	0.03	5.40	0.6	3.5
RohnGa1	50.00	-0.00	4.00	0.0	0.14	4.00	3.5	0.03	5.40	0.6	3.5
RohnGa2	50.00	-0.00	4.00	0.0	0.14	4.00	3.5	0.03	5.40	0.6	3.5
SNB-GaS	49.99	-0.00	4.00	0.0	0.13	4.00	3.3	0.03	5.40	0.6	3.3
RohnGaS	49.99	-0.00	4.00	0.0	0.13	4.00	3.3	0.03	5.40	0.6	3.3
SNB-H2	40.00	-0.00	4.00	0.0	0.11	4.00	2.8	0.02	5.40	0.4	2.8
SNB-H1	40.00	-0.00	4.00	0.0	0.11	4.00	2.8	0.02	5.40	0.4	2.8
RohnH1	40.00	-0.00	4.00	0.0	0.11	4.00	2.8	0.02	5.40	0.4	2.8
RohnH2	40.00	-0.00	4.00	0.0	0.11	4.00	2.8	0.02	5.40	0.4	2.8
SNB-WL-H2S	40.00	-0.00	4.00	0.0	0.09	4.00	2.4	0.02	5.40	0.4	2.4
SNB-WL-H3S	39.99	-0.00	4.00	0.0	0.09	4.00	2.4	0.02	5.40	0.4	2.4
SNB-WL-H1S	39.99	-0.00	4.00	0.0	0.09	4.00	2.4	0.02	5.40	0.4	2.4
SNB-HP	39.99	-0.00	4.00	0.0	0.09	4.00	2.4	0.02	5.40	0.4	2.4
RohnHP	39.99	-0.00	4.00	0.0	0.09	4.00	2.4	0.02	5.40	0.4	2.4
SNB-Ha2	30.00	-0.00	4.00	0.0	0.08	4.00	2.1	0.01	5.40	0.2	2.1
SNB-Ha1	30.00	-0.00	4.00	0.0	0.08	4.00	2.1	0.01	5.40	0.2	2.1
RohnHa2	30.00	-0.00	4.00	0.0	0.08	4.00	2.1	0.01	5.40	0.2	2.1
RohnHa1	30.00	-0.00	4.00	0.0	0.08	4.00	2.1	0.01	5.40	0.2	2.1
SNB-HaS	29.99	-0.00	4.00	0.0	0.07	4.00	1.7	0.01	5.40	0.3	1.7
RohnHaS	29.99	-0.00	4.00	0.0	0.07	4.00	1.7	0.01	5.40	0.3	1.7
SNB-I2	20.00	-0.00	4.00	0.0	0.06	4.00	1.4	0.01	5.40	0.1	1.4
SNB-I1	20.00	-0.00	4.00	0.0	0.06	4.00	1.4	0.01	5.40	0.1	1.4
RohnI2	20.00	-0.00	4.00	0.0	0.06	4.00	1.4	0.01	5.40	0.1	1.4
RohnI1	20.00	-0.00	4.00	0.0	0.06	4.00	1.4	0.01	5.40	0.1	1.4
SNB-WL-I2S	20.00	-0.00	4.00	0.0	0.04	4.00	0.9	0.01	5.40	0.1	0.9
SNB-IP	20.00	-0.00	4.00	0.0	0.04	4.00	0.9	0.01	5.40	0.1	0.9
RohnIP	19.99	-0.00	4.00	0.0	0.04	4.00	0.9	0.01	5.40	0.1	0.9
SNB-WL-I3S	19.99	-0.00	4.00	0.0	0.04	4.00	0.9	0.01	5.40	0.1	0.9
SNB-WL-I1S	19.99	-0.00	4.00	0.0	0.04	4.00	0.9	0.01	5.40	0.1	0.9
SNB-Ia2	10.00	-0.00	4.00	0.0	0.03	4.00	0.6	0.00	5.40	0.0	0.6
SNB-Ia1	10.00	-0.00	4.00	0.0	0.03	4.00	0.6	0.00	5.40	0.0	0.6
RohnIa2	10.00	-0.00	4.00	0.0	0.03	4.00	0.6	0.00	5.40	0.0	0.6
RohnIa1	10.00	-0.00	4.00	0.0	0.03	4.00	0.6	0.00	5.40	0.0	0.6
SNB-IaS	10.00	-0.00	4.00	0.0	0.01	4.00	0.3	0.00	5.40	0.0	0.3
RohnIaS	10.00	-0.00	4.00	0.0	0.01	4.00	0.3	0.00	5.40	0.0	0.3

*** Analysis Results for Load Case No. 6 "1.2*DL" - Number of iterations in SAPS 9

Equilibrium Joint Positions and Rotations for Load Case "1.2*DL":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	0.001688	0.0001689	-0.009409	-0.0002	0.0009	0.0000	4.335	0.0001689	180
RohnBP	0.00117	0.0001497	-0.009267	-0.0000	0.0011	0.0000	5.122	0.0001497	160
RohnCP	0.0007433	0.0001364	-0.008695	-0.0001	0.0010	0.0000	5.91	0.0001364	140
RohnDP	0.0004544	0.0001169	-0.007824	-0.0000	0.0002	-0.0000	6.695	0.0001169	120
RohnEP	0.0002592	9.238e-005	-0.006394	-0.0001	0.0003	-0.0000	7.481	9.238e-005	99.99
RohnFP	0.0001511	6.085e-005	-0.005157	-0.0001	-0.0013	-0.0000	8.268	6.085e-005	79.99
RohnGP	7.062e-005	3.119e-005	-0.00393	-0.0001	-0.0002	-0.0000	9.055	3.119e-005	60
RohnHP	3.082e-005	1.168e-005	-0.002703	-0.0000	-0.0003	-0.0000	9.841	1.168e-005	40
RohnIP	9.313e-006	1.85e-006	-0.001294	-0.0000	-0.0011	-0.0000	10.63	1.85e-006	20
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	0.001694	0.0001676	-0.004489	-0.0001	-0.0053	-0.0000	2.335	0.0001676	180
SNB-BP	0.001176	0.0001498	-0.004394	-0.0000	-0.0032	-0.0000	3.122	0.0001498	160
SNB-CP	0.0007484	0.000136	-0.00418	-0.0001	-0.0039	-0.0000	3.909	0.000136	140
SNB-DP	0.0004584	0.0001169	-0.003805	-0.0001	-0.0075	0.0000	4.695	0.0001169	120
SNB-EP	0.0002617	9.164e-005	-0.003199	-0.0001	-0.0045	-0.0000	5.481	9.164e-005	100
SNB-FP	0.0001524	6.012e-005	-0.002754	-0.0001	-0.0075	-0.0000	6.268	6.012e-005	80
SNB-GP	7.135e-005	3.151e-005	-0.002157	-0.0001	-0.0099	-0.0000	7.055	3.151e-005	60
SNB-HP	3.111e-005	1.223e-005	-0.001526	-0.0000	-0.0086	-0.0000	7.841	1.223e-005	40
SNB-IP	9.328e-006	2.321e-006	-0.0007472	-0.0000	-0.0071	-0.0000	8.628	2.321e-006	20
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.001696	0.0001734	-0.009236	-0.0006	0.0017	-0.0000	-2.165	-3.752	180
RohnA2	0.001697	0.0001626	-0.00926	0.0004	0.0017	0.0000	-2.165	3.753	180
RohnB1	0.001178	0.0001539	-0.009036	-0.0003	0.0017	-0.0000	-2.559	-4.435	160
RohnB2	0.001178	0.0001456	-0.009037	0.0002	0.0017	0.0000	-2.559	4.435	160
RohnC1	0.0007394	0.0001371	-0.008524	-0.0001	0.0010	-0.0000	-2.954	-5.117	140
RohnC2	0.0007398	0.000135	-0.008533	-0.0000	0.0010	0.0000	-2.954	5.117	140
RohnD1	0.0004354	0.0001088	-0.007689	-0.0004	0.0009	-0.0000	-3.347	-5.798	120
RohnD2	0.0004354	0.0001249	-0.007698	0.0003	0.0009	0.0000	-3.347	5.798	120
RohnE1	0.0002435	8.511e-005	-0.006299	-0.0002	0.0005	-0.0000	-3.74	-6.479	99.99
RohnE2	0.0002442	9.852e-005	-0.006319	0.0000	0.0005	0.0000	-3.74	6.479	99.99
RohnF1	0.0001294	4.944e-005	-0.005088	-0.0015	0.0010	0.0000	-4.134	-7.16	79.99
RohnF2	0.00013	7.115e-005	-0.005118	0.0013	0.0010	0.0000	-4.134	7.16	79.99
RohnG1	6.532e-005	2.892e-005	-0.00388	-0.0004	0.0003	0.0000	-4.527	-7.842	60
RohnG2	6.504e-005	3.395e-005	-0.003905	0.0003	0.0003	0.0000	-4.527	7.842	60
RohnH1	2.289e-005	8.022e-006	-0.002671	-0.0004	0.0003	0.0000	-4.92	-8.523	40
RohnH2	2.235e-005	1.627e-005	-0.002686	0.0003	0.0003	0.0000	-4.92	8.523	40
RohnI1	2.458e-006	-1.174e-006	-0.00128	-0.0010	0.0006	0.0000	-5.315	-9.206	20
RohnI2	1.987e-006	5.689e-006	-0.001287	0.0010	0.0006	0.0000	-5.315	9.206	20
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	0.001694	0.0001678	-0.004397	-0.0060	0.0049	0.0000	-1.165	-2.02	180
SNB-A2	0.001694	0.0001676	-0.004401	0.0058	0.0049	0.0000	-1.165	2.021	180
SNB-B1	0.001175	0.0001492	-0.004281	-0.0041	0.0038	-0.0000	-1.559	-2.703	160
SNB-B2	0.001175	0.0001503	-0.004284	0.0040	0.0038	0.0000	-1.559	2.703	160
SNB-C1	0.0007397	0.0001312	-0.004072	-0.0043	0.0035	-0.0000	-1.953	-3.384	140
SNB-C2	0.0007397	0.0001407	-0.004078	0.0042	0.0035	0.0000	-1.953	3.385	140
SNB-D1	0.0004356	0.0001042	-0.003714	-0.0072	0.0048	-0.0000	-2.347	-4.066	120
SNB-D2	0.0004356	0.0001295	-0.003723	0.0070	0.0048	0.0000	-2.347	4.066	120
SNB-E1	0.0002443	8.186e-005	-0.003135	-0.0044	0.0029	-0.0000	-2.74	-4.747	100
SNB-E2	0.0002443	0.0001014	-0.003148	0.0042	0.0029	0.0000	-2.74	4.747	100
SNB-F1	0.00013	4.749e-005	-0.002703	-0.0068	0.0042	-0.0000	-3.134	-5.428	80
SNB-F2	0.00013	7.276e-005	-0.002719	0.0067	0.0042	0.0000	-3.134	5.428	80
SNB-G1	6.521e-005	2.816e-005	-0.00212	-0.0087	0.0052	-0.0000	-3.527	-6.11	60
SNB-G2	6.52e-005	3.488e-005	-0.002134	0.0086	0.0052	0.0000	-3.527	6.11	60
SNB-H1	2.288e-005	7.7e-006	-0.001503	-0.0076	0.0044	-0.0000	-3.92	-6.79	40
SNB-H2	2.282e-005	1.687e-005	-0.001512	0.0075	0.0044	0.0000	-3.92	6.791	40
SNB-I1	2.682e-006	-1.32e-006	-0.0007368	-0.0062	0.0036	-0.0000	-4.314	-7.472	20
SNB-I2	2.619e-006	6.071e-006	-0.0007412	0.0061	0.0036	0.0000	-4.314	7.472	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	0.001588	0.0001556	-0.009392	-0.0001	0.0016	0.0000	4.532	0.0001556	175
RohnAbS	0.001435	0.0001539	-0.009362	-0.0000	0.0013	0.0000	4.728	0.0001539	170
RohnAcS	0.001338	0.0001522	-0.009319	-0.0000	0.0016	0.0000	4.925	0.0001522	165
RohnBaS	0.001099	0.0001478	-0.009159	-0.0000	0.0013	0.0000	5.319	0.0001478	155
RohnBbS	0.0009437	0.0001443	-0.009046	-0.0000	0.0011	0.0000	5.516	0.0001443	150
RohnBcS	0.0008896	0.0001405	-0.008873	-0.0000	0.0011	0.0000	5.713	0.0001405	145
RohnCaS	0.0007158	0.0001299	-0.008468	-0.0001	-0.0001	-0.0000	6.171	0.0001299	133.3
RohnCbS	0.0006381	0.0001225	-0.008184	-0.0001	0.0015	-0.0000	6.434	0.0001225	126.7
RohnDaS	0.0005051	0.0001105	-0.007408	-0.0001	-0.0007	-0.0000	6.957	0.0001105	113.3
RohnDbS	0.0004583	0.0001017	-0.006899	-0.0001	0.0014	-0.0000	7.22	0.0001017	106.7
RohnEaS	0.0003148	8.214e-005	-0.005997	-0.0001	-0.0005	-0.0000	7.743	8.214e-005	93.33
RohnEbS	0.000245	7.181e-005	-0.005582	-0.0001	0.0013	-0.0000	8.006	7.181e-005	86.65
RohnFaS	0.0004286	4.361e-005	-0.004547	-0.0001	0.0005	-0.0000	8.662	4.361e-005	70
RohnGaS	0.0003509	1.871e-005	-0.00332	-0.0001	0.0001	-0.0000	9.448	1.871e-005	50
RohnHaS	0.0003577	5.183e-006	-0.002	-0.0000	0.0002	-0.0000	10.24	5.183e-006	30
RohnIaS	0.0003001	-2.9e-007	-0.0006503	-0.0000	0.0001	-0.0000	11.03	-2.9e-007	9.999
SNB-AaS	0.001594	0.000161	-0.004476	-0.0001	0.0033	-0.0000	2.532	0.000161	175
SNB-AbS	0.001441	0.0001555	-0.004458	-0.0000	0.0006	-0.0000	2.728	0.0001555	170
SNB-AcS	0.001344	0.0001523	-0.004429	-0.0000	0.0029	-0.0000	2.925	0.0001523	165
SNB-BaS	0.001105	0.000147	-0.004349	-0.0000	0.0026	-0.0000	3.319	0.000147	155
SNB-BbS	0.0009493	0.0001439	-0.004301	-0.0000	0.0005	-0.0000	3.515	0.0001439	150
SNB-BcS	0.000895	0.0001403	-0.004241	-0.0000	0.0025	-0.0000	3.712	0.0001403	145
SNB-CaS	0.0007206	0.00013	-0.004068	-0.0001	0.0008	0.0000	4.171	0.00013	133.3
SNB-CbS	0.0006426	0.0001237	-0.003935	-0.0001	0.0033	0.0000	4.434	0.0001237	126.7
SNB-DaS	0.0005086	0.0001097	-0.003618	-0.0001	0.0012	0.0000	4.957	0.0001097	113.3
SNB-DbS	0.0004613	0.0001012	-0.003404	-0.0001	0.0023	-0.0000	5.22	0.0001012	106.7
SNB-EaS	0.000317	8.152e-005	-0.003058	-0.0001	0.0005	-0.0000	5.743	8.152e-005	93.34
SNB-EbS	0.0002468	7.076e-005	-0.002905	-0.0001	0.0027	-0.0000	-6.006	7.076e-005	86.66
SNB-FaS	0.0004296	4.42e-005	-0.002453	-0.0001	0.0046	-0.0000	6.662	4.42e-005	70
SNB-GaS	0.0003514	1.998e-005	-0.001839	-0.0001	0.0046	-0.0000	7.448	1.998e-005	50
SNB-HaS	0.0003579	5.388e-006	-0.001133	-0.0000	0.0038	-0.0000	8.235	5.388e-006	30
SNB-IaS	0.0003001	-1.139e-007	-0.0003712	-0.0000	0.0016	-0.0000	9.022	-1.139e-007	10
SNB-WL-A1S	0.001694	0.0001677	-0.004615	-0.0030	-0.0002	-0.0000	0.5849	-1.01	180
SNB-WL-A2S	0.001694	0.0001677	-0.004571	-0.0001	0.0049	0.0000	-1.165	0.0001677	180
SNB-WL-A3S	0.001694	0.0001677	-0.004617	0.0029	-0.0002	-0.0000	0.5849	1.01	180
SNB-WL-B1S	0.001176	0.0001498	-0.004592	-0.0020	0.0002	0.0000	0.7814	-1.351	160
SNB-WL-B2S	0.001176	0.0001498	-0.004537	-0.0000	0.0038	0.0000	-1.559	0.0001498	160
SNB-WL-B3S	0.001176	0.0001498	-0.004594	0.0019	0.0002	-0.0000	0.7814	1.352	160
SNB-WL-C1S	0.0007427	0.0001359	-0.004612	-0.0022	-0.0002	-0.0000	0.9777	-1.692	140
SNB-WL-C2S	0.0007426	0.000136	-0.004561	-0.0000	0.0035	-0.0000	-1.953	0.000136	140
SNB-WL-C3S	0.0007427	0.000136	-0.004615	0.0021	-0.0002	0.0000	0.9777	1.692	140
SNB-WL-D1S	0.0004434	0.0001167	-0.004854	-0.0036	-0.0013	-0.0000	1.174	-2.033	120
SNB-WL-D2S	0.0004432	0.0001169	-0.004812	-0.0001	0.0048	-0.0000	-2.347	0.0001169	120
SNB-WL-D3S	0.0004434	0.000117	-0.004858	0.0035	-0.0013	0.0000	1.174	2.033	120
SNB-WL-E1S	0.0002502	9.154e-005	-0.00393	-0.0022	-0.0008	-0.0000	1.371	-2.373	100
SNB-WL-E2S	0.00025	9.164e-005	-0.003905	-0.0001	0.0029	-0.0000	-2.74	9.164e-005	100
SNB-WL-E3S	0.0002502	9.174e-005	-0.003937	0.0021	-0.0008	0.0000	1.371	2.373	100
SNB-WL-F1S	0.0001376	6.002e-005	-0.004238	-0.0035	-0.0017	-0.0000	1.567	-2.714	80
SNB-WL-F2S	0.0001375	6.012e-005	-0.00422	-0.0001	0.0042	-0.0000	-3.134	6.012e-005	80
SNB-WL-F3S	0.0001376	6.022e-005	-0.004246	0.0033	-0.0017	0.0000	1.567	2.714	80
SNB-WL-G1S	6.731e-005	3.149e-005	-0.004888	-0.0044	-0.0023	-0.0000	1.764	-3.055	60
SNB-WL-G2S	6.727e-005	3.152e-005	-0.004876	-0.0001	0.0052	-0.0000	-3.527	3.152e-005	60
SNB-WL-G3S	6.731e-005	3.154e-005	-0.004895	0.0043	-0.0023	0.0000	1.764	3.055	60
SNB-WL-H1S	2.566e-005	1.225e-005	-0.005461	-0.0038	-0.0021	-0.0000	1.96	-3.395	39.99
SNB-WL-H2S	2.562e-005	1.228e-005	-0.005454	-0.0000	0.0044	0.0000	-3.92	1.228e-005	39.99
SNB-WL-H3S	2.566e-005	1.231e-005	-0.005466	0.0037	-0.0021	0.0000	1.96	3.395	39.99
SNB-WL-I1S	4.93e-006	2.356e-006	-0.006097	-0.0031	-0.0017	-0.0000	2.157	-3.736	19.99
SNB-WL-I2S	4.897e-006	2.374e-006	-0.006094	-0.0000	0.0036	0.0000	-4.314	2.374e-006	19.99
SNB-WL-I3S	4.929e-006	2.391e-006	-0.006099	0.0031	-0.0017	0.0000	2.157	3.736	19.99
RohnAa1	0.001559	0.0001391	-0.009211	0.0000	0.0014	-0.0000	-2.263	-3.923	175
RohnAa2	0.001555	0.0001795	-0.009225	-0.0002	0.0014	0.0000	-2.263	3.923	175
RohnAb1	0.001442	0.0001548	-0.009171	-0.0002	0.0016	-0.0000	-2.362	-4.094	170
RohnAb2	0.00144	0.0001557	-0.009175	0.0001	0.0015	0.0000	-2.362	4.094	170
RohnAc1	0.001295	0.0001211	-0.009107	0.0001	0.0015	-0.0000	-2.461	-4.264	165
RohnAc2	0.001295	0.0001835	-0.00911	-0.0001	0.0015	0.0000	-2.461	4.264	165
RohnBa1	0.001022	0.0001115	-0.008945	-0.0000	0.0014	-0.0000	-2.658	-4.605	155
RohnBa2	0.001023	0.000183	-0.008949	-0.0000	0.0014	0.0000	-2.658	4.606	155
RohnBb1	0.0009334	0.0001417	-0.008846	-0.0002	0.0013	-0.0000	-2.757	-4.776	150
RohnBb2	0.0009336	0.0001464	-0.008852	0.0001	0.0013	0.0000	-2.757	4.776	150

RohnBc1	0.0008055	9.676e-005	-0.008689	-0.0001	0.0012	-0.0000	-2.855	-4.947	145	
RohnBc2	0.0008058	0.0001838	-0.008696	-0.0000	0.0011	0.0000	-2.855	4.947	145	
RohnCa1	0.0005861	5.936e-005	-0.008311	-0.0009	0.0014	-0.0000	-3.085	-5.344	133.3	
RohnCa2	0.0005862	0.0002001	-0.008321	0.0008	0.0014	0.0000	-3.085	5.344	133.3	
RohnCb1	0.0004766	3.24e-005	-0.008035	0.0005	0.0005	-0.0000	-3.216	-5.571	126.7	
RohnCb2	0.0004759	0.0002138	-0.008045	-0.0006	0.0005	0.0000	-3.216	5.572	126.7	
RohnDa1	0.0002962	-7.667e-006	-0.007282	-0.0012	0.0012	-0.0000	-3.478	-6.025	113.3	
RohnDa2	0.0002971	0.0002271	-0.007295	0.0010	0.0012	0.0000	-3.478	6.025	113.3	
RohnDb1	0.0002217	-3.036e-005	-0.006789	0.0007	0.0000	-0.0000	-3.609	-6.252	106.7	
RohnDb2	0.0002222	0.0002329	-0.006806	-0.0009	0.0000	0.0000	-3.609	6.252	106.7	
RohnEa1	0.0001508	-1.019e-005	-0.005911	-0.0008	0.0008	-0.0000	-3.871	-6.706	93.33	
RohnEa2	0.0001513	0.0001736	-0.005934	0.0006	0.0008	0.0000	-3.871	6.706	93.33	
RohnEb1	0.0001295	7.199e-006	-0.005504	0.0008	-0.0002	0.0000	-4.003	-6.933	86.65	
RohnEb2	0.0001302	0.0001352	-0.00553	-0.0010	-0.0002	0.0000	-4.003	6.933	86.65	
RohnFa1	-6.772e-005	-0.0002386	-0.004487	0.0002	0.0000	0.0000	-4.331	-7.501	70	
RohnFa2	-6.912e-005	0.0003282	-0.004514	-0.0004	0.0000	0.0000	-4.331	7.501	70	
RohnGa1	-0.0001101	-0.0002437	-0.003279	-0.0001	0.0001	0.0000	-4.724	-8.182	50	
RohnGa2	-0.0001121	0.0002846	-0.003299	-0.0000	0.0001	0.0000	-4.724	8.182	50	
RohnHa1	-0.0001598	-0.0002909	-0.001978	0.0001	-0.0000	0.0000	-5.118	-8.864	30	
RohnHa2	-0.000161	0.0003032	-0.001988	-0.0002	-0.0000	0.0000	-5.118	8.865	30	
RohnIa1	-0.000149	-0.0002576	-0.0006434	0.0001	-0.0000	0.0000	-5.513	-9.548	9.999	
RohnIa2	-0.0001498	0.0002584	-0.0006466	-0.0001	-0.0000	-0.0000	-5.513	9.548	9.999	
SNB-Aa1	0.001551	0.0001369	-0.004377	0.0015	0.0005	0.0000	-1.263	-2.191	175	
SNB-Aa2	0.001552	0.0001845	-0.004382	-0.0017	0.0005	0.0000	-1.263	2.191	175	
SNB-Ab1	0.001434	0.0001527	-0.004352	-0.0008	0.0020	-0.0000	-1.362	-2.361	170	
SNB-Ab2	0.001433	0.0001587	-0.004356	0.0007	0.0020	0.0000	-1.362	2.362	170	
SNB-Ac1	0.001284	0.0001211	-0.004318	0.0012	0.0008	-0.0000	-1.461	-2.532	165	
SNB-Ac2	0.001284	0.0001835	-0.004322	-0.0012	0.0008	0.0000	-1.461	2.532	165	
SNB-Ba1	0.001026	0.0001033	-0.004235	0.0010	0.0008	-0.0000	-1.658	-2.873	155	
SNB-Ba2	0.001026	0.0001908	-0.004239	-0.0011	0.0008	0.0000	-1.658	2.873	155	
SNB-Bb1	0.0009332	0.0001355	-0.004187	-0.0007	0.0016	-0.0000	-1.756	-3.044	150	
SNB-Bb2	0.0009332	0.0001524	-0.004192	0.0006	0.0016	0.0000	-1.756	3.044	150	
SNB-Bc1	0.0008052	9.096e-005	-0.00413	0.0012	0.0004	-0.0000	-1.855	-3.214	145	
SNB-Bc2	0.0008053	0.0001895	-0.004136	-0.0013	0.0004	0.0000	-1.855	3.214	145	
SNB-Ca1	0.0005831	5.562e-005	-0.003966	-0.0001	0.0010	-0.0000	-2.084	-3.611	133.3	
SNB-Ca2	0.0005834	0.000204	-0.003972	0.0000	0.0010	0.0000	-2.084	3.612	133.3	
SNB-Cb1	0.0004728	2.953e-005	-0.003838	0.0021	-0.0005	-0.0000	-2.216	-3.839	126.7	
SNB-Cb2	0.0004732	0.0002173	-0.003846	-0.0022	-0.0005	0.0000	-2.216	3.839	126.7	
SNB-Da1	0.0002938	-1.031e-005	-0.003535	0.0004	0.0003	-0.0000	-2.478	-4.293	113.3	
SNB-Da2	0.000294	0.0002294	-0.003545	-0.0006	0.0003	0.0000	-2.478	4.293	113.3	
SNB-Db1	0.0002211	-3.338e-005	-0.00333	0.0015	-0.0004	-0.0000	-2.609	-4.52	106.7	
SNB-Db2	0.0002211	0.0002357	-0.003342	-0.0016	-0.0004	0.0000	-2.609	4.52	106.7	
SNB-Ea1	0.0001508	-1.257e-005	-0.002998	0.0000	0.0003	-0.0000	-2.871	-4.974	93.34	
SNB-Ea2	0.0001507	0.0001757	-0.003012	-0.0002	0.0003	0.0000	-2.871	4.974	93.34	
SNB-Eb1	0.00013	4.975e-006	-0.00285	0.0020	-0.0009	-0.0000	-3.003	-5.201	86.66	
SNB-Eb2	0.0001297	0.000137	-0.002865	-0.0022	-0.0009	0.0000	-3.003	5.201	86.66	
SNB-Fa1	-6.949e-005	-0.0002387	-0.002409	0.0037	-0.0020	-0.0000	-3.331	-5.769	70	
SNB-Fa2	-7.038e-005	0.0003287	-0.002424	-0.0039	-0.0020	0.0000	-3.331	5.769	70	
SNB-Ga1	-0.0001113	-0.0002437	-0.001809	0.0039	-0.0021	-0.0000	-3.724	-6.45	50	
SNB-Ga2	-0.0001122	0.0002852	-0.001821	-0.0040	-0.0021	0.0000	-3.724	6.45	50	
SNB-Ha1	-0.0001602	-0.0002908	-0.001116	0.0032	-0.0018	-0.0000	-4.117	-7.132	30	
SNB-Ha2	-0.0001612	0.0003033	-0.001123	-0.0033	-0.0018	0.0000	-4.117	7.132	30	
SNB-Ia1	-0.000149	-0.0002576	-0.0003661	0.0014	-0.0008	-0.0000	-4.511	-7.813	10	
SNB-Ia2	-0.0001497	0.0002585	-0.0003683	-0.0014	-0.0008	0.0000	-4.511	7.813	10	

Joint Support Reactions for Load Case "1.2*DL":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-1.07	0.0	0.00	0.0	19.88	0.0	0.0	19.91	0.0	-0.00	0.0	-0.3	0.0	-0.00	0.0	0.0
SNB-JP	-0.55	0.0	0.00	0.0	18.52	0.0	0.0	18.53	0.0	-0.00	0.0	-0.5	0.0	-0.00	0.0	0.0
RohnJ1	0.53	0.0	0.92	0.0	19.69	0.0	0.0	19.72	0.0	-0.24	0.0	0.1	0.0	-0.00	0.0	0.0
RohnJ2	0.53	0.0	-0.92	0.0	19.78	0.0	0.0	19.81	0.0	0.24	0.0	0.1	0.0	0.00	0.0	0.0
SNB-J1	0.27	0.0	0.47	0.0	18.28	0.0	0.0	18.29	0.0	-0.41	0.0	0.2	0.0	-0.00	0.0	0.0
SNB-J2	0.28	0.0	-0.47	0.0	18.38	0.0	0.0	18.39	0.0	0.41	0.0	0.2	0.0	0.00	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "1.2*DL":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.0000	0.0000	-0.3543	0.0000	0.0000	0.3543	0.0017	0.0002	-0.0094
RohnBP	0.0000	0.0000	-1.2721	0.0000	0.0000	1.2721	0.0012	0.0001	-0.0093
RohnCP	0.0000	0.0000	-0.5121	0.0000	0.0000	0.5121	0.0007	0.0001	-0.0087
RohnDP	0.0000	0.0000	-0.6208	0.0000	0.0000	0.6208	0.0005	0.0001	-0.0078
RohnEP	0.0000	0.0000	-0.7694	0.0000	0.0000	0.7694	0.0003	0.0001	-0.0064
RohnFP	0.0000	0.0000	-1.0436	0.0000	0.0000	1.0436	0.0002	0.0001	-0.0052
RohnGP	0.0000	0.0000	-1.3901	0.0000	0.0000	1.3901	0.0001	0.0000	-0.0039
RohnHP	0.0000	0.0000	-1.3837	0.0000	0.0000	1.3837	0.0000	0.0000	-0.0027
RohnIP	0.0000	0.0000	-1.5524	0.0000	0.0000	1.5524	0.0000	0.0000	-0.0013
RohnJP	0.0000	0.0000	-0.8390	1.0658	-0.0007	-19.0455	0.0000	0.0000	0.0000
SNB-AP	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0017	0.0002	-0.0045
SNB-BP	0.0000	0.0000	-0.4033	0.0000	0.0000	0.4033	0.0012	0.0001	-0.0044
SNB-CP	0.0000	0.0000	-0.5121	0.0000	0.0000	0.5121	0.0007	0.0001	-0.0042
SNB-DP	0.0000	0.0000	-0.6208	0.0000	0.0000	0.6208	0.0005	0.0001	-0.0038
SNB-EP	0.0000	0.0000	-0.7694	0.0000	0.0000	0.7694	0.0003	0.0001	-0.0032
SNB-FP	0.0000	0.0000	-1.0436	0.0000	0.0000	1.0436	0.0002	0.0001	-0.0028
SNB-GP	0.0000	0.0000	-1.2701	0.0000	0.0000	1.2701	0.0001	0.0000	-0.0022
SNB-HP	0.0000	0.0000	-1.3837	0.0000	0.0000	1.3837	0.0000	0.0000	-0.0015
SNB-IP	0.0000	0.0000	-1.5524	0.0000	0.0000	1.5524	0.0000	0.0000	-0.0007
SNB-JP	0.0000	0.0000	-0.8390	0.5488	-0.0012	-17.6794	0.0000	0.0000	0.0000
RohnA1	0.0000	0.0000	-0.3543	0.0000	0.0000	0.3543	0.0017	0.0002	-0.0092
RohnA2	0.0000	0.0000	-0.5223	0.0000	0.0000	0.5223	0.0017	0.0002	-0.0093
RohnB1	0.0000	0.0000	-0.5401	0.0000	0.0000	0.5401	0.0012	0.0002	-0.0090
RohnB2	0.0000	0.0000	-0.4621	0.0000	0.0000	0.4621	0.0012	0.0001	-0.0090
RohnC1	0.0000	0.0000	-0.5121	0.0000	0.0000	0.5121	0.0007	0.0001	-0.0085
RohnC2	0.0000	0.0000	-0.5121	0.0000	0.0000	0.5121	0.0007	0.0001	-0.0085
RohnD1	0.0000	0.0000	-0.7048	0.0000	0.0000	0.7048	0.0004	0.0001	-0.0077
RohnD2	0.0000	0.0000	-0.6208	0.0000	0.0000	0.6208	0.0004	0.0001	-0.0077
RohnE1	0.0000	0.0000	-0.7694	0.0000	0.0000	0.7694	0.0002	0.0001	-0.0063
RohnE2	0.0000	0.0000	-0.7694	0.0000	0.0000	0.7694	0.0002	0.0001	-0.0063
RohnF1	0.0000	0.0000	-1.0436	0.0000	0.0000	1.0436	0.0001	0.0000	-0.0051
RohnF2	0.0000	0.0000	-1.2176	0.0000	0.0000	1.2176	0.0001	0.0001	-0.0051
RohnG1	0.0000	0.0000	-1.3421	0.0000	0.0000	1.3421	0.0001	0.0000	-0.0039
RohnG2	0.0000	0.0000	-1.4573	0.0000	0.0000	1.4573	0.0001	0.0000	-0.0039
RohnH1	0.0000	0.0000	-1.3837	0.0000	0.0000	1.3837	0.0000	0.0000	-0.0027
RohnH2	0.0000	0.0000	-1.3837	0.0000	0.0000	1.3837	0.0000	0.0000	-0.0027
RohnI1	0.0000	0.0000	-1.5524	0.0000	0.0000	1.5524	0.0000	-0.0000	-0.0013
RohnI2	0.0000	0.0000	-1.5524	0.0000	0.0000	1.5524	0.0000	0.0000	-0.0013
RohnJ1	0.0000	0.0000	-0.8390	-0.5315	-0.9191	-18.8479	0.0000	0.0000	0.0000
RohnJ2	0.0000	0.0000	-0.8390	-0.5329	0.9202	-18.9387	0.0000	0.0000	0.0000
SNB-A1	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0017	0.0002	-0.0044
SNB-A2	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0017	0.0002	-0.0044
SNB-B1	0.0000	0.0000	-0.4033	0.0000	0.0000	0.4033	0.0012	0.0001	-0.0043
SNB-B2	0.0000	0.0000	-0.4033	0.0000	0.0000	0.4033	0.0012	0.0002	-0.0043
SNB-C1	0.0000	0.0000	-0.5121	0.0000	0.0000	0.5121	0.0007	0.0001	-0.0041
SNB-C2	0.0000	0.0000	-0.5121	0.0000	0.0000	0.5121	0.0007	0.0001	-0.0041
SNB-D1	0.0000	0.0000	-0.6208	0.0000	0.0000	0.6208	0.0004	0.0001	-0.0037
SNB-D2	0.0000	0.0000	-0.6208	0.0000	0.0000	0.6208	0.0004	0.0001	-0.0037
SNB-E1	0.0000	0.0000	-0.7694	0.0000	0.0000	0.7694	0.0002	0.0001	-0.0031
SNB-E2	0.0000	0.0000	-0.7694	0.0000	0.0000	0.7694	0.0002	0.0001	-0.0031
SNB-F1	0.0000	0.0000	-1.0436	0.0000	0.0000	1.0436	0.0001	0.0000	-0.0027
SNB-F2	0.0000	0.0000	-1.0436	0.0000	0.0000	1.0436	0.0001	0.0001	-0.0027
SNB-G1	0.0000	0.0000	-1.2701	0.0000	0.0000	1.2701	0.0001	0.0000	-0.0021
SNB-G2	0.0000	0.0000	-1.2701	0.0000	0.0000	1.2701	0.0001	0.0000	-0.0021
SNB-H1	0.0000	0.0000	-1.3837	0.0000	0.0000	1.3837	0.0000	0.0000	-0.0015
SNB-H2	0.0000	0.0000	-1.3837	0.0000	0.0000	1.3837	0.0000	0.0000	-0.0015
SNB-I1	0.0000	0.0000	-1.5524	0.0000	0.0000	1.5524	0.0000	-0.0000	-0.0007
SNB-I2	0.0000	0.0000	-1.5524	0.0000	0.0000	1.5524	0.0000	0.0000	-0.0007
SNB-J1	0.0000	0.0000	-0.8390	-0.2743	-0.4718	-17.4395	0.0000	0.0000	0.0000
SNB-J2	0.0000	0.0000	-0.8390	-0.2761	0.4726	-17.5409	0.0000	0.0000	0.0000
RohnAaS	0.0000	0.0000	-0.2490	0.0000	0.0000	0.2490	0.0016	0.0002	-0.0094
RohnAbS	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0014	0.0002	-0.0094
RohnAcS	0.0000	0.0000	-0.2502	0.0000	0.0000	0.2502	0.0013	0.0002	-0.0093

RohnBaS	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0011	0.0001	-0.0092
RohnBbS	0.0000	0.0000	-1.1580	0.0000	0.0000	1.1580	0.0009	0.0001	-0.0090
RohnBcS	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0009	0.0001	-0.0089
RohnCaS	0.0000	0.0000	-0.9577	0.0000	0.0000	0.9577	0.0007	0.0001	-0.0085
RohnCbS	0.0000	0.0000	-1.7228	0.0000	0.0000	1.7228	0.0006	0.0001	-0.0082
RohnDaS	0.0000	0.0000	-1.5191	0.0000	0.0000	1.5191	0.0005	0.0001	-0.0074
RohnDbS	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0005	0.0001	-0.0069
RohnEaS	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0003	0.0001	-0.0060
RohnEbS	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0002	0.0001	-0.0056
RohnFaS	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	0.0004	0.0000	-0.0045
RohnGaS	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	0.0004	0.0000	-0.0033
RohnHaS	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	0.0004	0.0000	-0.0020
RohnIaS	0.0000	0.0000	-0.8390	0.0000	0.0000	0.8390	0.0003	-0.0000	-0.0007
SNB-AaS	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0016	0.0002	-0.0045
SNB-AbS	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0014	0.0002	-0.0045
SNB-AcS	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0013	0.0002	-0.0044
SNB-BaS	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0011	0.0001	-0.0043
SNB-BbS	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0009	0.0001	-0.0043
SNB-BcS	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0009	0.0001	-0.0042
SNB-CaS	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0007	0.0001	-0.0041
SNB-CbS	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0006	0.0001	-0.0039
SNB-DaS	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0005	0.0001	-0.0036
SNB-DbS	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0005	0.0001	-0.0034
SNB-EaS	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0003	0.0001	-0.0031
SNB-EbS	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0002	0.0001	-0.0029
SNB-FaS	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	0.0004	0.0000	-0.0025
SNB-GaS	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	0.0004	0.0000	-0.0018
SNB-HaS	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	0.0004	0.0000	-0.0011
SNB-IaS	0.0000	0.0000	-0.8390	0.0000	0.0000	0.8390	0.0003	-0.0000	-0.0004
SNB-WL-A1S	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0017	0.0002	-0.0046
SNB-WL-A2S	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0017	0.0002	-0.0046
SNB-WL-A3S	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0017	0.0002	-0.0046
SNB-WL-B1S	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0012	0.0001	-0.0046
SNB-WL-B2S	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0012	0.0001	-0.0045
SNB-WL-B3S	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0012	0.0001	-0.0046
SNB-WL-C1S	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0007	0.0001	-0.0046
SNB-WL-C2S	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0007	0.0001	-0.0046
SNB-WL-C3S	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0007	0.0001	-0.0046
SNB-WL-D1S	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0004	0.0001	-0.0049
SNB-WL-D2S	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0004	0.0001	-0.0048
SNB-WL-D3S	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0004	0.0001	-0.0049
SNB-WL-E1S	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0003	0.0001	-0.0039
SNB-WL-E2S	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0003	0.0001	-0.0039
SNB-WL-E3S	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0003	0.0001	-0.0039
SNB-WL-F1S	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0001	-0.0042
SNB-WL-F2S	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0001	-0.0042
SNB-WL-F3S	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0001	-0.0042
SNB-WL-G1S	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	0.0001	0.0000	-0.0049
SNB-WL-G2S	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	0.0001	0.0000	-0.0049
SNB-WL-G3S	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	0.0001	0.0000	-0.0049
SNB-WL-H1S	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	0.0000	0.0000	-0.0055
SNB-WL-H2S	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	0.0000	0.0000	-0.0055
SNB-WL-H3S	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	0.0000	0.0000	-0.0055
SNB-WL-I1S	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	0.0000	0.0000	-0.0061
SNB-WL-I2S	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	0.0000	0.0000	-0.0061
SNB-WL-I3S	0.0000	0.0000	-0.7135	0.0000	-0.0000	0.7135	0.0000	0.0000	-0.0061
RohnAa1	0.0000	0.0000	-0.2745	0.0000	0.0000	0.2745	0.0016	0.0001	-0.0092
RohnAa2	0.0000	0.0000	-0.3021	0.0000	0.0000	0.3021	0.0016	0.0002	-0.0092
RohnAb1	0.0000	0.0000	-0.3303	0.0000	0.0000	0.3303	0.0014	0.0002	-0.0092
RohnAb2	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0014	0.0002	-0.0092
RohnAc1	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0013	0.0001	-0.0091
RohnAc2	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0013	0.0002	-0.0091
RohnBa1	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0010	0.0001	-0.0089
RohnBa2	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0010	0.0002	-0.0089
RohnBb1	0.0000	0.0000	-1.1256	0.0000	0.0000	1.1256	0.0009	0.0001	-0.0088
RohnBb2	0.0000	0.0000	-1.1256	0.0000	0.0000	1.1256	0.0009	0.0001	-0.0089
RohnBc1	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0008	0.0001	-0.0087
RohnBc2	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0008	0.0002	-0.0087
RohnCa1	0.0000	0.0000	-1.0297	0.0000	0.0000	1.0297	0.0006	0.0001	-0.0083

RohnCa2	0.0000	0.0000	-1.0777	0.0000	0.0000	1.0777	0.0006	0.0002	-0.0083
RohnCb1	0.0000	0.0000	-1.6028	0.0000	0.0000	1.6028	0.0005	0.0000	-0.0080
RohnCb2	0.0000	0.0000	-1.6028	0.0000	0.0000	1.6028	0.0005	0.0002	-0.0080
RohnDa1	0.0000	0.0000	-1.3931	0.0000	0.0000	1.3931	0.0003	-0.0000	-0.0073
RohnDa2	0.0000	0.0000	-1.3931	0.0000	0.0000	1.3931	0.0003	0.0002	-0.0073
RohnDb1	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0002	-0.0000	-0.0068
RohnDb2	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0002	0.0002	-0.0068
RohnEa1	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0002	-0.0000	-0.0059
RohnEa2	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0002	0.0002	-0.0059
RohnEb1	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0000	-0.0055
RohnEb2	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0001	-0.0055
RohnFa1	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	-0.0001	-0.0002	-0.0045
RohnFa2	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	-0.0001	0.0003	-0.0045
RohnGa1	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	-0.0001	-0.0002	-0.0033
RohnGa2	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	-0.0001	0.0003	-0.0033
RohnHa1	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	-0.0002	-0.0003	-0.0020
RohnHa2	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	-0.0002	0.0003	-0.0020
RohnIa1	0.0000	0.0000	-0.8390	0.0000	0.0000	0.8390	-0.0001	-0.0003	-0.0006
RohnIa2	0.0000	0.0000	-0.8390	0.0000	0.0000	0.8390	-0.0001	0.0003	-0.0006
SNB-Aa1	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0016	0.0001	-0.0044
SNB-Aa2	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0016	0.0002	-0.0044
SNB-Ab1	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0014	0.0002	-0.0044
SNB-Ab2	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0014	0.0002	-0.0044
SNB-Ac1	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0013	0.0001	-0.0043
SNB-Ac2	0.0000	0.0000	-0.1863	0.0000	0.0000	0.1863	0.0013	0.0002	-0.0043
SNB-Ba1	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0010	0.0001	-0.0042
SNB-Ba2	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0010	0.0002	-0.0042
SNB-Bb1	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0009	0.0001	-0.0042
SNB-Bb2	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0009	0.0002	-0.0042
SNB-Bc1	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0008	0.0001	-0.0041
SNB-Bc2	0.0000	0.0000	-0.2170	0.0000	0.0000	0.2170	0.0008	0.0002	-0.0041
SNB-Ca1	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0006	0.0001	-0.0040
SNB-Ca2	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0006	0.0002	-0.0040
SNB-Cb1	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0005	0.0000	-0.0038
SNB-Cb2	0.0000	0.0000	-0.2951	0.0000	0.0000	0.2951	0.0005	0.0002	-0.0038
SNB-Da1	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0003	-0.0000	-0.0035
SNB-Da2	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0003	0.0002	-0.0035
SNB-Db1	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0002	-0.0000	-0.0033
SNB-Db2	0.0000	0.0000	-0.3257	0.0000	0.0000	0.3257	0.0002	0.0002	-0.0033
SNB-Ea1	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0002	-0.0000	-0.0030
SNB-Ea2	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0002	0.0002	-0.0030
SNB-Eb1	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0000	-0.0028
SNB-Eb2	0.0000	0.0000	-0.4437	0.0000	0.0000	0.4437	0.0001	0.0001	-0.0029
SNB-Fa1	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	-0.0001	-0.0002	-0.0024
SNB-Fa2	0.0000	0.0000	-0.5999	0.0000	0.0000	0.5999	-0.0001	0.0003	-0.0024
SNB-Ga1	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	-0.0001	-0.0002	-0.0018
SNB-Ga2	0.0000	0.0000	-0.6702	0.0000	0.0000	0.6702	-0.0001	0.0003	-0.0018
SNB-Ha1	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	-0.0002	-0.0003	-0.0011
SNB-Ha2	0.0000	0.0000	-0.7135	0.0000	0.0000	0.7135	-0.0002	0.0003	-0.0011
SNB-Ia1	0.0000	0.0000	-0.8390	0.0000	-0.0000	0.8390	-0.0001	-0.0003	-0.0004
SNB-Ia2	0.0000	0.0000	-0.8390	0.0000	0.0000	0.8390	-0.0001	0.0003	-0.0004

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	0.00	0.00	-0.11	-0.55	-3.60	-0.11	-0.74
Rohn-LA11	0.00	-0.08	0.05	-3.33	1.42	-0.68	0.29
Rohn-LA12	-0.00	0.17	0.10	2.94	1.82	0.62	0.38
Rohn-LA2P	0.00	0.54	3.60	0.13	5.06	0.13	1.73
Rohn-LA21	0.00	3.33	-1.42	4.53	-2.37	1.57	-0.76
Rohn-LA22	-0.00	-2.94	-1.82	-4.50	-2.50	-1.49	-0.86
Rohn-LA3P	0.00	-0.13	-5.06	0.03	-6.77	-0.02	-2.36
Rohn-LA31	0.00	-4.53	2.37	-5.98	2.99	-2.10	1.07
Rohn-LA32	-0.00	4.50	2.50	5.94	2.93	2.09	1.09
Rohn-LA4P	0.00	-0.03	6.77	-0.07	9.61	-0.02	3.27
Rohn-LA41	0.00	5.98	-2.98	7.79	-4.48	2.75	-1.49

Rohn-LA42	-0.00	-5.94	-2.93	-7.80	-4.41	-2.75	-1.47
Rohn-LB1P	0.00	0.07	-9.85	0.14	-11.76	0.04	-4.32
Rohn-LB11	0.01	-7.82	4.46	-9.71	7.45	-3.50	2.38
Rohn-LB12	-0.01	7.80	4.38	9.79	7.34	3.52	2.34
Rohn-LB2P	0.00	-0.14	11.76	-0.02	13.56	-0.03	5.06
Rohn-LB21	0.01	9.71	-7.45	10.70	-6.53	4.08	-2.79
Rohn-LB22	-0.01	-9.79	-7.34	-10.66	-6.49	-4.09	-2.76
Rohn-LB3P	0.00	0.02	-13.56	0.02	-13.30	0.01	-5.37
Rohn-LB31	0.01	-10.70	6.54	-11.46	7.55	-4.43	2.82
Rohn-LB32	-0.01	10.66	6.49	11.50	7.55	4.43	2.81
Rohn-LB4P	0.00	-0.02	13.31	0.04	13.88	0.00	5.43
Rohn-LB41	0.01	11.46	-7.55	11.28	-6.35	4.54	-2.78
Rohn-LB42	-0.01	-11.50	-7.55	-11.21	-6.36	-4.54	-2.78
Rohn-LC1P	0.00	-0.04	-13.88	0.08	-3.60	0.01	-2.62
Rohn-LC11	0.01	-11.28	6.35	-3.26	2.74	-2.18	1.36
Rohn-LC12	-0.01	11.21	6.36	3.29	2.67	2.18	1.35
Rohn-LC2P	0.00	-0.08	3.60	-0.15	-11.11	-0.03	-1.12
Rohn-LC21	0.01	3.26	-2.74	-10.19	5.96	-1.04	0.48
Rohn-LC22	-0.01	-3.29	-2.67	10.10	6.07	1.02	0.51
Rohn-LC3P	0.00	0.14	11.11	0.07	22.89	0.03	5.10
Rohn-LC31	0.01	10.19	-5.96	19.41	-10.32	4.44	-2.44
Rohn-LC32	-0.01	-10.10	-6.07	-19.27	-10.31	-4.41	-2.46
Rohn-LD1P	0.00	-0.07	-22.89	0.22	-9.23	0.02	-4.82
Rohn-LD11	0.01	-19.41	10.32	-8.80	5.56	-4.23	2.38
Rohn-LD12	-0.01	19.27	10.31	8.97	5.41	4.24	2.36
Rohn-LD2P	0.00	-0.22	9.23	-0.03	-21.98	-0.04	-1.91
Rohn-LD21	0.01	8.80	-5.55	-19.17	12.47	-1.55	1.03
Rohn-LD22	-0.01	-8.97	-5.40	19.31	12.58	1.55	1.07
Rohn-LD3P	0.00	0.03	21.98	0.12	38.90	0.02	9.13
Rohn-LD31	0.01	19.17	-12.47	32.70	-18.62	7.78	-4.66
Rohn-LD32	-0.01	-19.31	-12.58	-32.61	-18.70	-7.79	-4.69
Rohn-LE1P	0.00	-0.12	-38.90	-0.03	-22.45	-0.02	-9.20
Rohn-LE11	0.01	-32.70	18.62	-19.69	12.01	-7.86	4.60
Rohn-LE12	-0.01	32.61	18.71	19.73	12.07	7.85	4.62
Rohn-LE2P	0.00	0.03	22.45	0.05	-14.65	0.01	1.17
Rohn-LE21	0.01	19.69	-12.01	-12.88	8.12	1.02	-0.58
Rohn-LE22	-0.01	-19.73	-12.07	13.04	8.16	-1.00	-0.59
Rohn-LE3P	0.00	-0.05	14.65	0.20	69.10	0.02	12.57
Rohn-LE31	0.01	12.88	-8.12	58.83	-33.81	10.76	-6.29
Rohn-LE32	-0.01	-13.04	-8.15	-59.01	-34.15	-10.81	-6.35
Rohn-LF1P	0.00	-0.20	-69.10	-0.62	-112.44	-0.08	-18.14
Rohn-LF11	0.01	-58.83	33.81	-97.28	57.10	-15.60	9.08
Rohn-LF12	-0.01	59.01	34.15	96.99	57.65	15.59	9.17
Rohn-LF2P	0.00	0.62	112.44	0.35	129.61	0.10	24.19
Rohn-LF21	0.01	97.28	-57.10	110.84	-64.08	20.80	-12.11
Rohn-LF22	-0.01	-96.99	-57.65	-111.18	-64.68	-20.80	-12.22
Rohn-LG1P	0.00	-0.35	-129.61	-0.77	-138.02	-0.11	-26.74
Rohn-LG11	0.01	-110.84	64.08	-119.39	69.67	-23.01	13.37
Rohn-LG12	-0.01	111.18	64.68	118.95	70.30	23.00	13.49
Rohn-LG2P	0.00	0.77	138.02	0.24	149.42	0.10	28.72
Rohn-LG21	0.01	119.39	-69.67	128.20	-74.16	24.74	-14.37
Rohn-LG22	-0.01	-118.95	-70.30	-128.56	-74.64	-24.73	-14.48
Rohn-LH1P	0.00	-0.24	-149.42	-0.44	-163.69	-0.07	-31.29
Rohn-LH11	0.01	-128.20	74.16	-141.56	82.45	-26.96	15.65
Rohn-LH12	-0.01	128.56	74.64	141.29	82.80	26.97	15.73
Rohn-LH2P	0.00	0.44	163.69	0.08	198.35	0.05	36.18
Rohn-LH21	0.01	141.56	-82.45	170.52	-98.68	31.19	-18.10
Rohn-LH22	-0.01	-141.29	-82.80	-170.98	-99.03	-31.20	-18.17
Rohn-LI1P	0.00	-0.08	-198.35	-0.78	-269.84	-0.09	-46.79
Rohn-LI11	0.01	-170.52	98.68	-233.68	136.18	-40.39	23.47
Rohn-LI12	-0.01	170.98	99.03	233.05	136.72	40.37	23.56
Rohn-LI2P	0.00	0.78	269.84	0.54	275.29	0.13	54.47
Rohn-LI21	0.01	233.68	-136.18	237.31	-137.83	47.06	-27.38
Rohn-LI22	-0.01	-233.05	-136.72	-237.35	-138.47	-47.01	-27.50
Rohn-H1P	-0.00	-0.08	-0.00	0.07	-0.00	-0.00	-0.00
Rohn-H11	0.01	-0.05	0.00	0.11	0.00	0.01	0.00
Rohn-H12	-0.00	-0.11	-0.00	0.06	-0.00	-0.01	-0.00
Rohn-H2P	-0.01	-0.13	-0.00	-0.03	-0.01	-0.02	-0.00
Rohn-H21	-0.00	-0.04	-0.00	0.03	0.00	-0.00	-0.00

Rohn-H22	0.01	0.04	0.01	0.14	0.00	0.02	0.00
SNB-LA1P	-0.00	-0.07	75.05	-0.05	14.16	-0.02	17.83
SNB-LA11	0.00	64.89	-37.51	12.23	-7.11	15.41	-8.92
SNB-LA12	-0.00	-65.22	-37.63	-12.53	-7.22	-15.54	-8.96
SNB-LA2P	-0.00	0.05	-14.16	-0.12	5.23	-0.02	-1.78
SNB-LA21	0.00	-12.23	7.11	4.35	-2.91	-1.58	0.84
SNB-LA22	-0.00	12.53	7.22	-4.45	-2.83	1.61	0.88
SNB-LA3P	-0.00	0.12	-5.23	-0.01	-21.64	0.02	-5.37
SNB-LA31	0.00	-4.35	2.91	-18.23	11.07	-4.51	2.79
SNB-LA32	-0.00	4.45	2.83	18.14	11.03	4.51	2.77
SNB-LA4P	-0.00	0.01	21.64	0.03	64.83	0.01	17.28
SNB-LA41	0.00	18.23	-11.07	54.76	-31.77	14.59	-8.56
SNB-LA42	-0.00	-18.14	-11.03	-54.63	-31.72	-14.54	-8.54
SNB-LB1P	-0.00	0.04	109.77	0.06	7.10	0.02	23.35
SNB-LB11	0.03	94.99	-54.07	5.75	-1.38	20.13	-11.08
SNB-LB12	-0.03	-94.83	-54.03	-5.61	-1.38	-20.07	-11.07
SNB-LB2P	-0.00	-0.06	-7.09	0.04	29.66	-0.00	4.51
SNB-LB21	0.03	-5.75	1.38	24.12	-13.60	3.67	-2.44
SNB-LB22	-0.03	5.61	1.38	-24.00	-13.58	-3.68	-2.44
SNB-LB3P	-0.00	-0.04	-29.66	0.08	-65.30	0.01	-18.98
SNB-LB31	0.03	-24.12	13.60	-56.54	34.70	-16.12	9.65
SNB-LB32	-0.03	24.00	13.58	56.66	34.67	16.12	9.64
SNB-LB4P	-0.00	-0.08	65.30	-0.01	178.87	-0.02	48.80
SNB-LB41	0.03	56.54	-34.70	153.41	-88.96	41.96	-24.71
SNB-LB42	-0.03	-56.66	-34.67	-153.35	-88.92	-41.97	-24.70
SNB-LC1P	-0.00	0.00	100.86	0.02	38.65	0.00	20.93
SNB-LC11	0.02	88.87	-51.06	33.42	-17.94	18.35	-10.35
SNB-LC12	-0.02	-88.97	-51.11	-33.41	-17.96	-18.36	-10.36
SNB-LC2P	-0.00	-0.02	-38.65	0.04	-71.71	0.00	-16.51
SNB-LC21	0.02	-33.42	17.94	-62.52	37.06	-14.35	8.23
SNB-LC22	-0.02	33.41	17.96	62.52	37.01	14.35	8.22
SNB-LC3P	-0.00	-0.04	71.71	-0.01	214.19	-0.01	42.90
SNB-LC31	0.02	62.52	-37.06	184.33	-106.65	37.04	-21.56
SNB-LC32	-0.02	-62.52	-37.01	-184.18	-106.55	-37.01	-21.54
SNB-LD1P	-0.00	0.03	252.32	0.17	73.48	0.03	48.88
SNB-LD11	0.02	219.78	-126.82	63.05	-34.62	42.44	-24.22
SNB-LD12	-0.02	-219.86	-126.90	-62.87	-34.71	-42.42	-24.25
SNB-LD2P	-0.00	-0.17	-73.48	0.08	-97.20	-0.01	-25.53
SNB-LD21	0.02	-63.05	34.62	-84.38	50.44	-22.06	12.73
SNB-LD22	-0.02	62.87	34.71	84.64	50.50	22.07	12.75
SNB-LD3P	-0.00	-0.08	97.20	0.04	238.63	-0.01	50.39
SNB-LD31	0.02	84.38	-50.44	204.74	-118.42	43.38	-25.34
SNB-LD32	-0.02	-84.64	-50.50	-204.72	-118.45	-43.42	-25.35
SNB-LE1P	-0.00	-0.09	361.80	0.21	100.78	0.02	69.40
SNB-LE11	0.03	315.24	-182.10	86.75	-47.80	60.31	-34.49
SNB-LE12	-0.03	-315.50	-182.14	-86.55	-47.93	-60.32	-34.52
SNB-LE2P	-0.00	-0.21	-100.78	-0.11	-217.89	-0.05	-47.67
SNB-LE21	0.03	-86.75	47.80	-189.30	111.12	-41.29	23.77
SNB-LE22	-0.03	86.55	47.93	189.60	111.42	41.31	23.84
SNB-LE3P	-0.00	0.11	217.89	0.11	753.55	0.03	145.75
SNB-LE31	0.03	189.30	-111.12	650.19	-376.47	125.95	-73.16
SNB-LE32	-0.03	-189.60	-111.42	-650.87	-376.99	-126.10	-73.28
SNB-LF1P	0.01	-0.23	193.53	-0.57	-227.48	-0.08	-3.39
SNB-LF11	0.02	170.12	-97.61	-195.94	115.98	-2.58	1.84
SNB-LF12	-0.02	-169.90	-97.23	195.71	116.51	2.58	1.93
SNB-LF2P	0.01	0.57	227.48	0.15	729.27	0.07	95.60
SNB-LF21	0.02	195.94	-115.98	628.23	-364.52	82.36	-48.01
SNB-LF22	-0.02	-195.71	-116.51	-629.13	-365.23	-82.42	-48.14
SNB-LG1P	0.02	-0.21	749.04	-1.35	-332.75	-0.16	41.60
SNB-LG11	0.02	652.05	-375.30	-287.41	169.52	36.44	-20.56
SNB-LG12	-0.04	-651.28	-374.62	286.41	170.51	-36.46	-20.40
SNB-LG2P	0.02	1.35	332.75	0.39	1322.45	0.17	165.40
SNB-LG21	0.02	287.41	-169.52	1141.41	-660.98	142.78	-82.99
SNB-LG22	-0.04	-286.41	-170.50	-1142.50	-662.06	-142.79	-83.20
SNB-LH1P	0.01	-0.40	562.74	-1.43	-367.42	-0.18	19.52
SNB-LH11	0.01	491.02	-282.29	-317.34	186.08	17.36	-9.61
SNB-LH12	-0.03	-489.96	-281.21	316.44	187.22	-17.34	-9.39
SNB-LH2P	0.01	1.43	367.42	0.54	1179.70	0.20	154.60
SNB-LH21	0.01	317.34	-186.07	1017.89	-589.35	133.43	-77.49

SNB-LH22	-0.03	-316.44	-187.21	-1018.94	-590.58	-133.44	-77.72
SNB-LI1P	0.01	-0.53	1065.38	-2.03	-231.06	-0.26	83.37
SNB-LI11	0.01	926.24	-533.99	-199.82	118.77	72.59	-41.49
SNB-LI12	-0.01	-925.12	-532.73	198.26	120.21	-72.63	-41.22
SNB-LI2P	0.01	2.03	231.06	1.14	475.68	0.32	70.62
SNB-LI21	0.01	199.82	-118.77	409.05	-238.32	60.84	-35.68
SNB-LI22	-0.01	-198.26	-120.21	-409.32	-239.79	-60.71	-35.97
SNB-H1aP	-0.01	43.40	-0.08	144.88	-0.04	93.19	-0.06
SNB-H1bP	-0.01	-144.88	0.04	-43.30	0.07	-93.14	0.06
SNB-H1cP	-0.00	43.25	-0.08	144.85	-0.07	93.10	-0.07
SNB-H1dP	0.00	-144.85	0.07	-43.51	0.07	-93.23	0.07
SNB-H1eP	0.01	43.43	-0.07	144.88	-0.09	93.20	-0.08
SNB-H1fP	0.01	-144.88	0.09	-43.27	0.08	-93.12	0.08
SNB-H2aP	-0.05	100.77	0.26	151.87	0.27	93.47	0.20
SNB-H2bP	-0.05	-151.87	-0.27	-99.10	-0.29	-92.85	-0.21
SNB-H2cP	-0.00	100.18	0.24	151.74	0.26	93.20	0.18
SNB-H2dP	-0.00	-151.74	-0.26	-99.95	-0.24	-93.12	-0.18
SNB-H2eP	0.06	98.99	0.28	151.86	0.26	92.81	0.20
SNB-H2fP	0.06	-151.86	-0.26	-100.90	-0.26	-93.51	-0.19
SNB-H3aP	-0.00	161.51	1.41	205.59	1.39	108.47	0.83
SNB-H3bP	-0.00	-205.59	-1.39	-161.59	-1.41	-108.49	-0.83
SNB-H3cP	-0.00	161.54	1.42	205.59	1.46	108.48	0.85
SNB-H3dP	-0.00	-205.59	-1.46	-161.57	-1.42	-108.49	-0.85
SNB-H3eP	0.00	161.61	1.41	205.59	1.39	108.50	0.83
SNB-H3fP	0.00	-205.59	-1.39	-161.49	-1.42	-108.46	-0.83
SNB-H4aP	-0.01	269.33	2.65	330.09	2.63	147.42	1.30
SNB-H4bP	-0.01	-330.09	-2.63	-269.44	-2.65	-147.45	-1.30
SNB-H4cP	-0.00	269.46	2.65	330.06	2.71	147.45	1.32
SNB-H4dP	-0.00	-330.06	-2.71	-269.40	-2.65	-147.43	-1.32
SNB-H4eP	0.02	269.41	2.65	330.09	2.63	147.44	1.30
SNB-H4fP	0.02	-330.09	-2.63	-269.36	-2.65	-147.43	-1.30
SNB-H5aP	-0.00	346.71	3.73	425.98	3.71	162.79	1.57
SNB-H5bP	-0.00	-425.98	-3.71	-346.81	-3.73	-162.81	-1.57
SNB-H5cP	0.00	346.68	3.73	425.97	3.79	162.78	1.58
SNB-H5dP	0.00	-425.97	-3.79	-346.87	-3.73	-162.82	-1.58
SNB-H5eP	0.00	346.90	3.73	425.98	3.71	162.83	1.57
SNB-H5fP	0.00	-425.98	-3.71	-346.61	-3.73	-162.76	-1.57
SNB-H6aP	-0.03	546.92	3.76	656.57	3.75	221.71	1.38
SNB-H6bP	-0.03	-656.57	-3.75	-547.11	-3.76	-221.74	-1.38
SNB-H6cP	0.01	546.88	3.77	656.52	3.82	221.69	1.40
SNB-H6dP	0.01	-656.52	-3.82	-547.27	-3.77	-221.76	-1.40
SNB-H6eP	0.02	547.29	3.76	656.59	3.75	221.78	1.38
SNB-H6fP	0.02	-656.59	-3.75	-546.70	-3.77	-221.67	-1.39
SNB-H7aP	-0.02	853.55	0.95	978.72	0.96	299.89	0.31
SNB-H7bP	-0.02	-978.72	-0.96	-853.78	-0.96	-299.93	-0.31
SNB-H7cP	0.01	853.62	0.96	978.72	0.99	299.90	0.32
SNB-H7dP	0.01	-978.72	-0.99	-853.75	-0.95	-299.92	-0.32
SNB-H7eP	0.01	853.82	0.97	978.75	0.96	299.94	0.32
SNB-H7fP	0.01	-978.75	-0.96	-853.47	-0.96	-299.88	-0.31
SNB-H8aP	0.00	1088.42	1.05	1186.45	1.05	335.01	0.31
SNB-H8bP	0.00	-1186.45	-1.05	-1088.56	-1.05	-335.03	-0.31
SNB-H8cP	0.00	1088.47	1.05	1186.46	1.08	335.02	0.31
SNB-H8dP	0.00	-1186.46	-1.08	-1088.50	-1.05	-335.02	-0.31
SNB-H8eP	-0.01	1088.57	1.04	1186.45	1.04	335.03	0.31
SNB-H8fP	-0.01	-1186.45	-1.04	-1088.40	-1.05	-335.00	-0.31
SNB-H9aP	-0.00	1296.19	0.75	1368.60	0.75	356.63	0.20
SNB-H9bP	-0.00	-1368.60	-0.75	-1296.37	-0.75	-356.66	-0.20
SNB-H9cP	0.00	1296.32	0.76	1368.60	0.77	356.65	0.20
SNB-H9dP	0.00	-1368.60	-0.77	-1296.26	-0.76	-356.64	-0.20
SNB-H9eP	0.00	1296.34	0.74	1368.60	0.74	356.65	0.20
SNB-H9fP	0.00	-1368.60	-0.74	-1296.21	-0.75	-356.64	-0.20

*** Analysis Results for Load Case No. 7 "0.9DL" - Number of iterations in SAPS 9

Equilibrium Joint Positions and Rotations for Load Case "0.9DL":

Joint Label	X-Displ (ft)	Y-Displ (ft)	Z-Displ (ft)	X-Rot (deg)	Y-Rot (deg)	Z-Rot (deg)	X-Pos (ft)	Y-Pos (ft)	Z-Pos (ft)
RohnAP	0.001265	0.0001264	-0.00706	-0.0001	0.0007	0.0000	4.334	0.0001264	180
RohnBP	0.0008772	0.0001121	-0.006952	-0.0000	0.0008	0.0000	5.122	0.0001121	160
RohnCP	0.0005573	0.0001022	-0.006523	-0.0000	0.0007	0.0000	5.91	0.0001022	140
RohnDP	0.0003408	8.755e-005	-0.005869	-0.0000	0.0002	-0.0000	6.695	8.755e-005	120
RohnEP	0.0001944	6.92e-005	-0.004796	-0.0001	0.0002	-0.0000	7.481	6.92e-005	100
RohnFP	0.0001133	4.558e-005	-0.003869	-0.0001	-0.0010	-0.0000	8.268	4.558e-005	80
RohnGP	5.312e-005	2.337e-005	-0.002948	-0.0001	-0.0002	-0.0000	9.055	2.337e-005	60
RohnHP	2.337e-005	8.745e-006	-0.002027	-0.0000	-0.0002	-0.0000	9.841	8.745e-006	40
RohnIP	7.339e-006	1.385e-006	-0.0009708	-0.0000	-0.0008	-0.0000	10.63	1.385e-006	20
RohnJP	0	0	0	0.0000	0.0000	0.0000	11.42	0	0
SNB-AP	0.001268	0.0001255	-0.003364	-0.0001	-0.0040	-0.0000	2.334	0.0001255	180
SNB-BP	0.0008806	0.0001121	-0.003294	-0.0000	-0.0024	-0.0000	3.122	0.0001121	160
SNB-CP	0.0005602	0.0001018	-0.003133	-0.0000	-0.0030	-0.0000	3.909	0.0001018	140
SNB-DP	0.000343	8.752e-005	-0.002853	-0.0000	-0.0056	0.0000	4.695	8.752e-005	120
SNB-EP	0.0001958	6.864e-005	-0.002398	-0.0001	-0.0034	-0.0000	5.481	6.864e-005	100
SNB-FP	0.0001141	4.504e-005	-0.002065	-0.0001	-0.0057	-0.0000	6.268	4.504e-005	80
SNB-GP	5.351e-005	2.36e-005	-0.001617	-0.0001	-0.0074	-0.0000	7.055	2.36e-005	60
SNB-HP	2.352e-005	9.159e-006	-0.001144	-0.0000	-0.0065	-0.0000	7.841	9.159e-006	40
SNB-IP	7.336e-006	1.738e-006	-0.0005603	-0.0000	-0.0053	-0.0000	8.628	1.738e-006	20
SNB-JP	0	0	0	0.0000	0.0000	0.0000	9.415	0	0
RohnA1	0.00127	0.0001289	-0.00693	-0.0004	0.0012	-0.0000	-2.165	-3.752	180
RohnA2	0.00127	0.0001226	-0.006947	0.0003	0.0013	0.0000	-2.165	3.753	180
RohnB1	0.0008819	0.0001144	-0.006779	-0.0002	0.0013	-0.0000	-2.56	-4.435	160
RohnB2	0.0008818	0.0001098	-0.00678	0.0002	0.0013	0.0000	-2.56	4.435	160
RohnC1	0.000553	0.0001019	-0.006395	-0.0000	0.0008	-0.0000	-2.954	-5.117	140
RohnC2	0.0005533	0.0001019	-0.006401	-0.0000	0.0008	0.0000	-2.954	5.117	140
RohnD1	0.0003254	8.089e-005	-0.005768	-0.0003	0.0007	-0.0000	-3.347	-5.798	120
RohnD2	0.0003255	9.416e-005	-0.005775	0.0002	0.0007	0.0000	-3.347	5.798	120
RohnE1	0.000182	6.336e-005	-0.004725	-0.0001	0.0003	-0.0000	-3.74	-6.479	100
RohnE2	0.0001824	7.42e-005	-0.00474	0.0000	0.0003	0.0000	-3.74	6.479	100
RohnF1	9.66e-005	3.677e-005	-0.003817	-0.0011	0.0008	0.0000	-4.134	-7.16	80
RohnF2	9.708e-005	5.357e-005	-0.003839	0.0010	0.0008	0.0000	-4.134	7.16	80
RohnG1	4.871e-005	2.142e-005	-0.00291	-0.0003	0.0003	0.0000	-4.527	-7.842	60
RohnG2	4.85e-005	2.568e-005	-0.002929	0.0002	0.0003	0.0000	-4.527	7.842	60
RohnH1	1.696e-005	5.737e-006	-0.002004	-0.0003	0.0002	0.0000	-4.92	-8.523	40
RohnH2	1.655e-005	1.246e-005	-0.002015	0.0002	0.0002	0.0000	-4.92	8.523	40
RohnI1	1.652e-006	-1.198e-006	-0.0009604	-0.0007	0.0004	0.0000	-5.315	-9.206	20
RohnI2	1.298e-006	4.58e-006	-0.0009652	0.0007	0.0004	0.0000	-5.315	9.206	20
RohnJ1	0	0	0	0.0000	0.0000	0.0000	-5.71	-9.89	0
RohnJ2	0	0	0	0.0000	0.0000	0.0000	-5.71	9.89	0
SNB-A1	0.001269	0.0001257	-0.003296	-0.0045	0.0037	0.0000	-1.165	-2.02	180
SNB-A2	0.001268	0.0001254	-0.003299	0.0044	0.0037	0.0000	-1.165	2.021	180
SNB-B1	0.00088	0.0001118	-0.003209	-0.0030	0.0028	-0.0000	-1.56	-2.703	160
SNB-B2	0.00088	0.0001125	-0.003212	0.0030	0.0028	0.0000	-1.56	2.703	160
SNB-C1	0.0005537	9.83e-005	-0.003053	-0.0033	0.0026	-0.0000	-1.953	-3.384	140
SNB-C2	0.0005537	0.0001053	-0.003057	0.0032	0.0026	0.0000	-1.953	3.385	140
SNB-D1	0.000326	7.806e-005	-0.002785	-0.0054	0.0036	-0.0000	-2.347	-4.066	120
SNB-D2	0.000326	9.699e-005	-0.002791	0.0053	0.0036	0.0000	-2.347	4.066	120
SNB-E1	0.0001828	6.133e-005	-0.00235	-0.0033	0.0021	-0.0000	-2.74	-4.747	100
SNB-E2	0.0001828	7.596e-005	-0.00236	0.0031	0.0021	0.0000	-2.74	4.747	100
SNB-F1	9.724e-005	3.553e-005	-0.002027	-0.0051	0.0031	-0.0000	-3.134	-5.428	80
SNB-F2	9.724e-005	5.454e-005	-0.002039	0.0050	0.0031	0.0000	-3.134	5.428	80
SNB-G1	4.87e-005	2.097e-005	-0.00159	-0.0066	0.0039	-0.0000	-3.527	-6.11	60
SNB-G2	4.869e-005	2.625e-005	-0.0016	0.0065	0.0039	0.0000	-3.527	6.11	60
SNB-H1	1.699e-005	5.551e-006	-0.001127	-0.0057	0.0033	-0.0000	-3.92	-6.79	40
SNB-H2	1.694e-005	1.285e-005	-0.001134	0.0056	0.0033	0.0000	-3.92	6.791	40
SNB-I1	1.827e-006	-1.295e-006	-0.0005525	-0.0046	0.0027	-0.0000	-4.314	-7.472	20
SNB-I2	1.779e-006	4.854e-006	-0.0005558	0.0046	0.0027	0.0000	-4.314	7.472	20
SNB-J1	0	0	0	0.0000	0.0000	0.0000	-4.708	-8.154	0
SNB-J2	0	0	0	0.0000	0.0000	0.0000	-4.708	8.154	0

RohnAaS	0.001189	0.0001165	-0.007046	-0.0001	0.0012	0.0000	4.531	0.0001165	175
RohnAbS	0.001076	0.0001152	-0.007024	-0.0000	0.0010	0.0000	4.728	0.0001152	170
RohnAcS	0.001003	0.000114	-0.006992	-0.0000	0.0012	0.0000	4.925	0.000114	165
RohnBaS	0.0008234	0.0001106	-0.006871	-0.0000	0.0010	0.0000	5.319	0.0001106	155
RohnBbS	0.0007073	0.000108	-0.006786	-0.0000	0.0008	0.0000	5.516	0.000108	150
RohnBcS	0.0006663	0.0001052	-0.006657	-0.0000	0.0008	0.0000	5.713	0.0001052	145
RohnCaS	0.0005363	9.725e-005	-0.006353	-0.0000	-0.0000	-0.0000	6.171	9.725e-005	133.3
RohnCbS	0.0004781	9.173e-005	-0.00614	-0.0000	0.0011	-0.0000	6.434	9.173e-005	126.7
RohnDaS	0.0003784	8.275e-005	-0.005557	-0.0000	-0.0005	-0.0000	6.957	8.275e-005	113.3
RohnDbS	0.0003434	7.618e-005	-0.005175	-0.0001	0.0011	-0.0000	7.22	7.618e-005	106.7
RohnEaS	0.000236	6.153e-005	-0.004499	-0.0001	-0.0004	-0.0000	7.743	6.153e-005	93.34
RohnEbS	0.0001836	5.38e-005	-0.004187	-0.0001	0.0010	-0.0000	8.006	5.38e-005	86.66
RohnFaS	0.0003212	3.267e-005	-0.003411	-0.0001	0.0004	-0.0000	8.662	3.267e-005	70
RohnGaS	0.0002629	1.402e-005	-0.00249	-0.0000	0.0001	-0.0000	9.448	1.402e-005	50
RohnHaS	0.000268	3.883e-006	-0.001501	-0.0000	0.0002	-0.0000	10.24	3.883e-006	30
RohnIaS	0.0002249	-2.17e-007	-0.0004878	-0.0000	0.0001	-0.0000	11.03	-2.17e-007	10
SNB-AaS	0.001193	0.0001205	-0.003355	-0.0001	0.0025	-0.0000	2.531	0.0001205	175
SNB-AbS	0.001079	0.0001164	-0.003342	-0.0000	0.0004	-0.0000	2.728	0.0001164	170
SNB-AcS	0.001006	0.000114	-0.00332	-0.0000	0.0022	-0.0000	2.925	0.000114	165
SNB-BaS	0.0008266	0.0001101	-0.003261	-0.0000	0.0019	-0.0000	3.319	0.0001101	155
SNB-BbS	0.0007105	0.0001078	-0.003224	-0.0000	0.0004	-0.0000	3.515	0.0001078	150
SNB-BcS	0.0006694	0.000105	-0.00318	-0.0000	0.0019	-0.0000	3.712	0.000105	145
SNB-CaS	0.000539	9.739e-005	-0.00305	-0.0000	0.0006	0.0000	4.171	9.739e-005	133.3
SNB-CbS	0.0004806	9.265e-005	-0.002951	-0.0000	0.0025	0.0000	4.433	9.265e-005	126.7
SNB-DaS	0.0003804	8.219e-005	-0.002713	-0.0000	0.0009	0.0000	4.957	8.219e-005	113.3
SNB-DbS	0.0003451	7.578e-005	-0.002552	-0.0001	0.0017	-0.0000	5.22	7.578e-005	106.7
SNB-EaS	0.0002371	6.107e-005	-0.002293	-0.0001	0.0004	-0.0000	5.743	6.107e-005	93.34
SNB-EbS	0.0001846	5.301e-005	-0.002178	-0.0001	0.0020	-0.0000	6.006	5.301e-005	86.66
SNB-FaS	0.0003218	3.311e-005	-0.001839	-0.0001	0.0034	-0.0000	6.662	3.311e-005	70
SNB-GaS	0.0002632	1.497e-005	-0.001379	-0.0000	0.0035	-0.0000	7.448	1.497e-005	50
SNB-HaS	0.000268	4.036e-006	-0.0008498	-0.0000	0.0029	-0.0000	8.235	4.036e-006	30
SNB-IaS	0.0002249	-8.515e-008	-0.0002784	-0.0000	0.0012	-0.0000	9.022	-8.515e-008	10
SNB-WL-A1S	0.001268	0.0001255	-0.003459	-0.0023	-0.0002	-0.0000	0.5845	-1.01	180
SNB-WL-A2S	0.001268	0.0001255	-0.003426	-0.0000	0.0037	0.0000	-1.165	0.0001255	180
SNB-WL-A3S	0.001268	0.0001255	-0.003461	0.0022	-0.0002	-0.0000	0.5845	1.01	180
SNB-WL-B1S	0.0008802	0.0001121	-0.003442	-0.0015	0.0001	0.0000	0.7811	-1.351	160
SNB-WL-B2S	0.0008802	0.0001121	-0.003401	-0.0000	0.0028	0.0000	-1.56	0.0001121	160
SNB-WL-B3S	0.0008802	0.0001121	-0.003444	0.0015	0.0001	-0.0000	0.7811	1.352	160
SNB-WL-C1S	0.000556	0.0001018	-0.003458	-0.0016	-0.0002	-0.0000	0.9776	-1.692	140
SNB-WL-C2S	0.0005559	0.0001018	-0.00342	-0.0000	0.0026	-0.0000	-1.953	0.0001018	140
SNB-WL-C3S	0.000556	0.0001019	-0.00346	0.0016	-0.0002	0.0000	0.9776	1.692	140
SNB-WL-D1S	0.0003318	8.744e-005	-0.003639	-0.0027	-0.0010	-0.0000	1.174	-2.033	120
SNB-WL-D2S	0.0003317	8.752e-005	-0.003609	-0.0000	0.0036	-0.0000	-2.347	8.752e-005	120
SNB-WL-D3S	0.0003318	8.76e-005	-0.003643	0.0026	-0.0010	0.0000	1.174	2.033	120
SNB-WL-E1S	0.0001872	6.857e-005	-0.002947	-0.0017	-0.0006	-0.0000	1.37	-2.373	100
SNB-WL-E2S	0.0001871	6.864e-005	-0.002928	-0.0001	0.0021	-0.0000	-2.74	6.864e-005	100
SNB-WL-E3S	0.0001872	6.872e-005	-0.002952	0.0015	-0.0006	0.0000	1.37	2.373	100
SNB-WL-F1S	0.000103	4.496e-005	-0.003178	-0.0026	-0.0013	-0.0000	1.567	-2.714	80
SNB-WL-F2S	0.0001028	4.504e-005	-0.003165	-0.0001	0.0031	-0.0000	-3.134	4.504e-005	80
SNB-WL-F3S	0.000103	4.511e-005	-0.003184	0.0025	-0.0013	0.0000	1.567	2.714	80
SNB-WL-G1S	5.035e-005	2.359e-005	-0.003665	-0.0033	-0.0018	-0.0000	1.764	-3.055	60
SNB-WL-G2S	5.032e-005	2.361e-005	-0.003657	-0.0000	0.0039	-0.0000	-3.527	2.361e-005	60
SNB-WL-G3S	5.035e-005	2.363e-005	-0.003671	0.0032	-0.0018	0.0000	1.764	3.055	60
SNB-WL-H1S	1.92e-005	9.179e-006	-0.004095	-0.0029	-0.0016	-0.0000	1.96	-3.395	40
SNB-WL-H2S	1.916e-005	9.2e-006	-0.00409	-0.0000	0.0033	0.0000	-3.92	9.2e-006	40
SNB-WL-H3S	1.92e-005	9.219e-006	-0.004099	0.0028	-0.0016	0.0000	1.96	3.395	40
SNB-WL-I1S	3.688e-006	1.764e-006	-0.004573	-0.0023	-0.0013	-0.0000	2.157	-3.736	20
SNB-WL-I2S	3.662e-006	1.779e-006	-0.00457	-0.0000	0.0027	0.0000	-4.314	1.779e-006	20
SNB-WL-I3S	3.688e-006	1.792e-006	-0.004574	0.0023	-0.0013	0.0000	2.157	3.736	20
RohnAa1	0.001168	0.0001038	-0.006911	0.0000	0.0010	-0.0000	-2.264	-3.923	175
RohnAa2	0.001164	0.0001347	-0.006921	-0.0001	0.0011	0.0000	-2.264	3.923	175
RohnAb1	0.001079	0.0001151	-0.00688	-0.0002	0.0012	-0.0000	-2.362	-4.094	170
RohnAb2	0.001078	0.0001174	-0.006883	0.0001	0.0012	0.0000	-2.362	4.094	170
RohnAc1	0.0009697	9.025e-005	-0.006833	0.0001	0.0011	-0.0000	-2.461	-4.264	165
RohnAc2	0.0009697	0.0001378	-0.006835	-0.0001	0.0011	0.0000	-2.461	4.264	165
RohnBa1	0.0007653	8.313e-005	-0.006711	-0.0000	0.0010	-0.0000	-2.658	-4.605	155
RohnBa2	0.0007658	0.0001373	-0.006714	-0.0000	0.0010	0.0000	-2.658	4.606	155
RohnBb1	0.0006983	0.0001054	-0.006637	-0.0001	0.0010	-0.0000	-2.757	-4.776	150
RohnBb2	0.0006985	0.0001103	-0.006641	0.0001	0.0010	0.0000	-2.757	4.776	150

RohnBc1	0.0006028	7.214e-005	-0.006518	-0.0001	0.0009	-0.0000	-2.855	-4.947	145
RohnBc2	0.000603	0.0001379	-0.006524	-0.0000	0.0009	0.0000	-2.855	4.947	145
RohnCa1	0.0004384	4.401e-005	-0.006235	-0.0007	0.0010	-0.0000	-3.085	-5.344	133.3
RohnCa2	0.0004385	0.0001503	-0.006243	0.0006	0.0010	0.0000	-3.085	5.344	133.3
RohnCb1	0.0003564	2.387e-005	-0.006028	0.0004	0.0004	-0.0000	-3.216	-5.571	126.7
RohnCb2	0.0003559	0.0001605	-0.006036	-0.0005	0.0004	0.0000	-3.216	5.572	126.7
RohnDa1	0.0002214	-6.054e-006	-0.005463	-0.0009	0.0009	-0.0000	-3.478	-6.025	113.3
RohnDa2	0.0002221	0.0001704	-0.005473	0.0008	0.0009	0.0000	-3.478	6.025	113.3
RohnDb1	0.0001656	-2.306e-005	-0.005093	0.0005	0.0000	-0.0000	-3.609	-6.252	106.7
RohnDb2	0.000166	0.0001748	-0.005106	-0.0006	0.0000	0.0000	-3.609	6.252	106.7
RohnEa1	0.0001126	-7.897e-006	-0.004434	-0.0006	0.0006	-0.0000	-3.871	-6.706	93.34
RohnEa2	0.000113	0.0001303	-0.004451	0.0005	0.0006	0.0000	-3.871	6.706	93.34
RohnEb1	9.674e-005	5.177e-006	-0.004129	0.0006	-0.0002	0.0000	-4.003	-6.933	86.66
RohnEb2	9.725e-005	0.0001015	-0.004148	-0.0007	-0.0002	0.0000	-4.003	6.933	86.66
RohnFa1	-5.096e-005	-0.0001789	-0.003366	0.0001	0.0000	0.0000	-4.331	-7.501	70
RohnFa2	-5.201e-005	0.0002461	-0.003386	-0.0003	0.0000	0.0000	-4.331	7.501	70
RohnGa1	-8.261e-005	-0.0001827	-0.00246	-0.0001	0.0001	0.0000	-4.724	-8.182	50
RohnGa2	-8.411e-005	0.0002133	-0.002475	-0.0000	0.0001	0.0000	-4.724	8.182	50
RohnHa1	-0.0001198	-0.0002179	-0.001484	0.0001	-0.0000	0.0000	-5.118	-8.864	30
RohnHa2	-0.0001206	0.0002272	-0.001491	-0.0001	-0.0000	0.0000	-5.118	8.864	30
RohnIa1	-0.0001117	-0.0001931	-0.0004827	0.0000	-0.0000	0.0000	-5.513	-9.548	10
RohnIa2	-0.0001123	0.0001937	-0.000485	-0.0001	-0.0000	-0.0000	-5.513	9.548	10
SNB-Aa1	0.001162	0.0001031	-0.003281	0.0012	0.0004	0.0000	-1.264	-2.191	175
SNB-Aa2	0.001162	0.0001374	-0.003284	-0.0013	0.0004	0.0000	-1.264	2.191	175
SNB-Ab1	0.001074	0.0001144	-0.003262	-0.0006	0.0015	-0.0000	-1.362	-2.362	170
SNB-Ab2	0.001073	0.0001186	-0.003266	0.0005	0.0015	0.0000	-1.362	2.362	170
SNB-Ac1	0.0009616	9.123e-005	-0.003237	0.0009	0.0006	-0.0000	-1.461	-2.532	165
SNB-Ac2	0.0009616	0.0001368	-0.00324	-0.0009	0.0006	0.0000	-1.461	2.532	165
SNB-Ba1	0.0007682	7.789e-005	-0.003175	0.0008	0.0006	-0.0000	-1.658	-2.873	155
SNB-Ba2	0.0007682	0.0001423	-0.003178	-0.0008	0.0006	0.0000	-1.658	2.873	155
SNB-Bb1	0.0006987	0.0001016	-0.003139	-0.0005	0.0012	-0.0000	-1.757	-3.044	150
SNB-Bb2	0.0006987	0.0001139	-0.003143	0.0004	0.0012	0.0000	-1.757	3.044	150
SNB-Bc1	0.0006031	6.864e-005	-0.003097	0.0009	0.0003	-0.0000	-1.855	-3.214	145
SNB-Bc2	0.0006031	0.0001413	-0.0031	-0.0009	0.0003	0.0000	-1.855	3.214	145
SNB-Ca1	0.0004366	4.197e-005	-0.002973	-0.0001	0.0007	-0.0000	-2.085	-3.611	133.3
SNB-Ca2	0.0004368	0.0001524	-0.002978	0.0000	0.0007	0.0000	-2.085	3.612	133.3
SNB-Cb1	0.000354	2.243e-005	-0.002878	0.0016	-0.0003	-0.0000	-2.216	-3.839	126.7
SNB-Cb2	0.0003543	0.0001624	-0.002884	-0.0016	-0.0003	0.0000	-2.216	3.839	126.7
SNB-Da1	0.0002199	-7.465e-006	-0.00265	0.0003	0.0003	-0.0000	-2.478	-4.293	113.3
SNB-Da2	0.0002201	0.0001715	-0.002658	-0.0004	0.0003	0.0000	-2.478	4.293	113.3
SNB-Db1	0.0001654	-2.485e-005	-0.002497	0.0011	-0.0003	-0.0000	-2.609	-4.52	106.7
SNB-Db2	0.0001654	0.0001764	-0.002506	-0.0012	-0.0003	0.0000	-2.609	4.52	106.7
SNB-Ea1	0.0001128	-9.338e-006	-0.002248	0.0000	0.0002	-0.0000	-2.871	-4.974	93.34
SNB-Ea2	0.0001127	0.0001315	-0.002259	-0.0002	0.0002	0.0000	-2.871	4.974	93.34
SNB-Eb1	9.723e-005	3.795e-006	-0.002137	0.0015	-0.0007	-0.0000	-3.003	-5.201	86.66
SNB-Eb2	9.705e-005	0.0001025	-0.002148	-0.0016	-0.0007	0.0000	-3.003	5.201	86.66
SNB-Fa1	-5.219e-005	-0.0001789	-0.001806	0.0028	-0.0015	-0.0000	-3.331	-5.769	70
SNB-Fa2	-5.285e-005	0.0002463	-0.001818	-0.0029	-0.0015	0.0000	-3.331	5.769	70
SNB-Ga1	-8.34e-005	-0.0001825	-0.001357	0.0029	-0.0016	-0.0000	-3.724	-6.45	50
SNB-Ga2	-8.408e-005	0.0002136	-0.001365	-0.0030	-0.0016	0.0000	-3.724	6.45	50
SNB-Ha1	-0.00012	-0.0002178	-0.0008371	0.0024	-0.0014	-0.0000	-4.117	-7.132	30
SNB-Ha2	-0.0001207	0.0002272	-0.0008424	-0.0025	-0.0014	0.0000	-4.117	7.132	30
SNB-Ia1	-0.0001117	-0.0001931	-0.0002745	0.0011	-0.0006	-0.0000	-4.511	-7.813	10
SNB-Ia2	-0.0001121	0.0001937	-0.0002761	-0.0011	-0.0006	0.0000	-4.511	7.813	10

Joint Support Reactions for Load Case "0.9DL":

Joint Label	X Force (kips)	X Usage %	Y Force (kips)	Y Usage %	Z Force (kips)	Comp. Usage %	Uplift Usage %	Result. Force (kips)	Result. Usage %	X Moment (ft-k)	X-M. Usage %	Y Moment (ft-k)	Y-M. Usage %	Z Moment (ft-k)	Z-M. Usage %	Max. Usage %
RohnJP	-0.80	0.0	0.00	0.0	14.92	0.0	0.0	14.94	0.0	-0.00	0.0	-0.2	0.0	-0.00	0.0	0.0
SNB-JP	-0.41	0.0	0.00	0.0	13.89	0.0	0.0	13.89	0.0	-0.00	0.0	-0.4	0.0	-0.00	0.0	0.0
RohnJ1	0.40	0.0	0.69	0.0	14.77	0.0	0.0	14.79	0.0	-0.18	0.0	0.1	0.0	-0.00	0.0	0.0
RohnJ2	0.40	0.0	-0.69	0.0	14.84	0.0	0.0	14.86	0.0	0.18	0.0	0.1	0.0	0.00	0.0	0.0
SNB-J1	0.21	0.0	0.35	0.0	13.71	0.0	0.0	13.71	0.0	-0.31	0.0	0.2	0.0	-0.00	0.0	0.0
SNB-J2	0.21	0.0	-0.36	0.0	13.78	0.0	0.0	13.79	0.0	0.31	0.0	0.2	0.0	0.00	0.0	0.0

Joint Displacements, Loads and Member Forces on Joints for Load Case "0.9DL":

Joint Label	X External Load (kips)	Y External Load (kips)	Z External Load (kips)	X Member Force (kips)	Y Member Force (kips)	Z Member Force (kips)	X Disp. (ft)	Y Disp. (ft)	Z Disp. (ft)
RohnAP	0.0000	0.0000	-0.2657	0.0000	0.0000	0.2657	0.0013	0.0001	-0.0071
RohnBP	0.0000	0.0000	-0.9541	0.0000	0.0000	0.9541	0.0009	0.0001	-0.0070
RohnCP	0.0000	0.0000	-0.3841	0.0000	0.0000	0.3841	0.0006	0.0001	-0.0065
RohnDP	0.0000	0.0000	-0.4656	0.0000	0.0000	0.4656	0.0003	0.0001	-0.0059
RohnEP	0.0000	0.0000	-0.5771	0.0000	0.0000	0.5771	0.0002	0.0001	-0.0048
RohnFP	0.0000	0.0000	-0.7827	0.0000	0.0000	0.7827	0.0001	0.0000	-0.0039
RohnGP	0.0000	0.0000	-1.0426	0.0000	0.0000	1.0426	0.0001	0.0000	-0.0029
RohnHP	0.0000	0.0000	-1.0378	0.0000	0.0000	1.0378	0.0000	0.0000	-0.0020
RohnIP	0.0000	0.0000	-1.1643	0.0000	0.0000	1.1643	0.0000	0.0000	-0.0010
RohnJP	0.0000	0.0000	-0.6292	0.8002	-0.0005	-14.2863	0.0000	0.0000	0.0000
SNB-AP	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0013	0.0001	-0.0034
SNB-BP	0.0000	0.0000	-0.3025	0.0000	0.0000	0.3025	0.0009	0.0001	-0.0033
SNB-CP	0.0000	0.0000	-0.3841	0.0000	0.0000	0.3841	0.0006	0.0001	-0.0031
SNB-DP	0.0000	0.0000	-0.4656	0.0000	0.0000	0.4656	0.0003	0.0001	-0.0029
SNB-EP	0.0000	0.0000	-0.5771	0.0000	0.0000	0.5771	0.0002	0.0001	-0.0024
SNB-FP	0.0000	0.0000	-0.7827	0.0000	0.0000	0.7827	0.0001	0.0000	-0.0021
SNB-GP	0.0000	0.0000	-0.9526	0.0000	0.0000	0.9526	0.0001	0.0000	-0.0016
SNB-HP	0.0000	0.0000	-1.0378	0.0000	0.0000	1.0378	0.0000	0.0000	-0.0011
SNB-IP	0.0000	0.0000	-1.1643	0.0000	0.0000	1.1643	0.0000	0.0000	-0.0006
SNB-JP	0.0000	0.0000	-0.6292	0.4124	-0.0009	-13.2569	0.0000	0.0000	0.0000
RohnA1	0.0000	0.0000	-0.2657	0.0000	0.0000	0.2657	0.0013	0.0001	-0.0069
RohnA2	0.0000	0.0000	-0.3917	0.0000	0.0000	0.3917	0.0013	0.0001	-0.0069
RohnB1	0.0000	0.0000	-0.4051	0.0000	0.0000	0.4051	0.0009	0.0001	-0.0068
RohnB2	0.0000	0.0000	-0.3466	0.0000	0.0000	0.3466	0.0009	0.0001	-0.0068
RohnC1	0.0000	0.0000	-0.3841	0.0000	0.0000	0.3841	0.0006	0.0001	-0.0064
RohnC2	0.0000	0.0000	-0.3841	0.0000	0.0000	0.3841	0.0006	0.0001	-0.0064
RohnD1	0.0000	0.0000	-0.5286	0.0000	0.0000	0.5286	0.0003	0.0001	-0.0058
RohnD2	0.0000	0.0000	-0.4656	0.0000	0.0000	0.4656	0.0003	0.0001	-0.0058
RohnE1	0.0000	0.0000	-0.5771	0.0000	0.0000	0.5771	0.0002	0.0001	-0.0047
RohnE2	0.0000	0.0000	-0.5771	0.0000	0.0000	0.5771	0.0002	0.0001	-0.0047
RohnF1	0.0000	0.0000	-0.7827	0.0000	0.0000	0.7827	0.0001	0.0000	-0.0038
RohnF2	0.0000	0.0000	-0.9132	0.0000	0.0000	0.9132	0.0001	0.0001	-0.0038
RohnG1	0.0000	0.0000	-1.0066	0.0000	0.0000	1.0066	0.0000	0.0000	-0.0029
RohnG2	0.0000	0.0000	-1.0930	0.0000	0.0000	1.0930	0.0000	0.0000	-0.0029
RohnH1	0.0000	0.0000	-1.0378	0.0000	0.0000	1.0378	0.0000	0.0000	-0.0020
RohnH2	0.0000	0.0000	-1.0378	0.0000	0.0000	1.0378	0.0000	0.0000	-0.0020
RohnI1	0.0000	0.0000	-1.1643	0.0000	0.0000	1.1643	0.0000	-0.0000	-0.0010
RohnI2	0.0000	0.0000	-1.1643	0.0000	-0.0000	1.1643	0.0000	0.0000	-0.0010
RohnJ1	0.0000	0.0000	-0.6292	-0.3990	-0.6901	-14.1385	0.0000	0.0000	0.0000
RohnJ2	0.0000	0.0000	-0.6292	-0.4001	0.6908	-14.2065	0.0000	0.0000	0.0000
SNB-A1	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0013	0.0001	-0.0033
SNB-A2	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0013	0.0001	-0.0033
SNB-B1	0.0000	0.0000	-0.3025	0.0000	0.0000	0.3025	0.0009	0.0001	-0.0032
SNB-B2	0.0000	0.0000	-0.3025	0.0000	0.0000	0.3025	0.0009	0.0001	-0.0032
SNB-C1	0.0000	0.0000	-0.3841	0.0000	0.0000	0.3841	0.0006	0.0001	-0.0031
SNB-C2	0.0000	0.0000	-0.3841	0.0000	0.0000	0.3841	0.0006	0.0001	-0.0031
SNB-D1	0.0000	0.0000	-0.4656	0.0000	0.0000	0.4656	0.0003	0.0001	-0.0028
SNB-D2	0.0000	0.0000	-0.4656	0.0000	0.0000	0.4656	0.0003	0.0001	-0.0028
SNB-E1	0.0000	0.0000	-0.5771	0.0000	0.0000	0.5771	0.0002	0.0001	-0.0024
SNB-E2	0.0000	0.0000	-0.5771	0.0000	0.0000	0.5771	0.0002	0.0001	-0.0024
SNB-F1	0.0000	0.0000	-0.7827	0.0000	0.0000	0.7827	0.0001	0.0000	-0.0020
SNB-F2	0.0000	0.0000	-0.7827	0.0000	0.0000	0.7827	0.0001	0.0001	-0.0020
SNB-G1	0.0000	0.0000	-0.9526	0.0000	0.0000	0.9526	0.0000	0.0000	-0.0016
SNB-G2	0.0000	0.0000	-0.9526	0.0000	0.0000	0.9526	0.0000	0.0000	-0.0016
SNB-H1	0.0000	0.0000	-1.0378	0.0000	0.0000	1.0378	0.0000	0.0000	-0.0011
SNB-H2	0.0000	0.0000	-1.0378	0.0000	0.0000	1.0378	0.0000	0.0000	-0.0011
SNB-I1	0.0000	0.0000	-1.1643	0.0000	0.0000	1.1643	0.0000	-0.0000	-0.0006
SNB-I2	0.0000	0.0000	-1.1643	0.0000	0.0000	1.1643	0.0000	0.0000	-0.0006
SNB-J1	0.0000	0.0000	-0.6292	-0.2062	-0.3546	-13.0774	0.0000	0.0000	0.0000
SNB-J2	0.0000	0.0000	-0.6292	-0.2075	0.3552	-13.1534	0.0000	0.0000	0.0000
RohnAaS	0.0000	0.0000	-0.1868	0.0000	0.0000	0.1868	0.0012	0.0001	-0.0070
RohnAbS	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0011	0.0001	-0.0070
RohnAcS	0.0000	0.0000	-0.1877	0.0000	0.0000	0.1877	0.0010	0.0001	-0.0070

RohnBaS	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0008	0.0001	-0.0069
RohnBbS	0.0000	0.0000	-0.8685	0.0000	0.0000	0.8685	0.0007	0.0001	-0.0068
RohnBcS	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0007	0.0001	-0.0067
RohnCaS	0.0000	0.0000	-0.7183	0.0000	0.0000	0.7183	0.0005	0.0001	-0.0064
RohnCbS	0.0000	0.0000	-1.2921	0.0000	0.0000	1.2921	0.0005	0.0001	-0.0061
RohnDaS	0.0000	0.0000	-1.1394	0.0000	0.0000	1.1394	0.0004	0.0001	-0.0056
RohnDbS	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0003	0.0001	-0.0052
RohnEaS	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0002	0.0001	-0.0045
RohnEbS	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0002	0.0001	-0.0042
RohnFaS	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	0.0003	0.0000	-0.0034
RohnGaS	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	0.0003	0.0000	-0.0025
RohnHaS	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	0.0003	0.0000	-0.0015
RohnIaS	0.0000	0.0000	-0.6292	0.0000	0.0000	0.6292	0.0002	-0.0000	-0.0005
SNB-AaS	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0012	0.0001	-0.0034
SNB-AbS	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0011	0.0001	-0.0033
SNB-AcS	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0010	0.0001	-0.0033
SNB-BaS	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0008	0.0001	-0.0033
SNB-BbS	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0007	0.0001	-0.0032
SNB-BcS	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0007	0.0001	-0.0032
SNB-CaS	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0005	0.0001	-0.0031
SNB-CbS	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0005	0.0001	-0.0030
SNB-DaS	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0004	0.0001	-0.0027
SNB-DbS	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0003	0.0001	-0.0026
SNB-EaS	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0002	0.0001	-0.0023
SNB-EbS	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0002	0.0001	-0.0022
SNB-FaS	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	0.0003	0.0000	-0.0018
SNB-GaS	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	0.0003	0.0000	-0.0014
SNB-HaS	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	0.0003	0.0000	-0.0008
SNB-IaS	0.0000	0.0000	-0.6292	0.0000	0.0000	0.6292	0.0002	-0.0000	-0.0003
SNB-WL-A1S	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0013	0.0001	-0.0035
SNB-WL-A2S	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0013	0.0001	-0.0034
SNB-WL-A3S	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0013	0.0001	-0.0035
SNB-WL-B1S	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0009	0.0001	-0.0034
SNB-WL-B2S	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0009	0.0001	-0.0034
SNB-WL-B3S	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0009	0.0001	-0.0034
SNB-WL-C1S	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0035
SNB-WL-C2S	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0034
SNB-WL-C3S	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0035
SNB-WL-D1S	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0003	0.0001	-0.0036
SNB-WL-D2S	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0003	0.0001	-0.0036
SNB-WL-D3S	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0003	0.0001	-0.0036
SNB-WL-E1S	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	0.0001	-0.0029
SNB-WL-E2S	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	0.0001	-0.0029
SNB-WL-E3S	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	0.0001	-0.0030
SNB-WL-F1S	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0000	-0.0032
SNB-WL-F2S	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0000	-0.0032
SNB-WL-F3S	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0000	-0.0032
SNB-WL-G1S	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	0.0001	0.0000	-0.0037
SNB-WL-G2S	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	0.0001	0.0000	-0.0037
SNB-WL-G3S	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	0.0001	0.0000	-0.0037
SNB-WL-H1S	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	0.0000	0.0000	-0.0041
SNB-WL-H2S	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	0.0000	0.0000	-0.0041
SNB-WL-H3S	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	0.0000	0.0000	-0.0041
SNB-WL-I1S	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	0.0000	0.0000	-0.0046
SNB-WL-I2S	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	0.0000	0.0000	-0.0046
SNB-WL-I3S	0.0000	0.0000	-0.5351	0.0000	-0.0000	0.5351	0.0000	0.0000	-0.0046
RohnAa1	0.0000	0.0000	-0.2059	0.0000	0.0000	0.2059	0.0012	0.0001	-0.0069
RohnAa2	0.0000	0.0000	-0.2266	0.0000	0.0000	0.2266	0.0012	0.0001	-0.0069
RohnAb1	0.0000	0.0000	-0.2477	0.0000	0.0000	0.2477	0.0011	0.0001	-0.0069
RohnAb2	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0011	0.0001	-0.0069
RohnAc1	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0010	0.0001	-0.0068
RohnAc2	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0010	0.0001	-0.0068
RohnBa1	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0008	0.0001	-0.0067
RohnBa2	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0008	0.0001	-0.0067
RohnBb1	0.0000	0.0000	-0.8442	0.0000	0.0000	0.8442	0.0007	0.0001	-0.0066
RohnBb2	0.0000	0.0000	-0.8442	0.0000	0.0000	0.8442	0.0007	0.0001	-0.0066
RohnBc1	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0065
RohnBc2	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0065
RohnCa1	0.0000	0.0000	-0.7723	0.0000	0.0000	0.7723	0.0004	0.0000	-0.0062

RohnCa2	0.0000	0.0000	-0.8083	0.0000	0.0000	0.8083	0.0004	0.0002	-0.0062
RohnCb1	0.0000	0.0000	-1.2021	0.0000	0.0000	1.2021	0.0004	0.0000	-0.0060
RohnCb2	0.0000	0.0000	-1.2021	0.0000	0.0000	1.2021	0.0004	0.0002	-0.0060
RohnDa1	0.0000	0.0000	-1.0449	0.0000	0.0000	1.0449	0.0002	-0.0000	-0.0055
RohnDa2	0.0000	0.0000	-1.0449	0.0000	0.0000	1.0449	0.0002	0.0002	-0.0055
RohnDb1	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	-0.0000	-0.0051
RohnDb2	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	0.0002	-0.0051
RohnEa1	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	-0.0000	-0.0044
RohnEa2	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0001	-0.0045
RohnEb1	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0000	-0.0041
RohnEb2	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0001	-0.0041
RohnFa1	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	-0.0001	-0.0002	-0.0034
RohnFa2	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	-0.0001	0.0002	-0.0034
RohnGa1	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	-0.0001	-0.0002	-0.0025
RohnGa2	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	-0.0001	0.0002	-0.0025
RohnHa1	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	-0.0001	-0.0002	-0.0015
RohnHa2	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	-0.0001	0.0002	-0.0015
RohnIa1	0.0000	0.0000	-0.6292	0.0000	0.0000	0.6292	-0.0001	-0.0002	-0.0005
RohnIa2	0.0000	0.0000	-0.6292	0.0000	0.0000	0.6292	-0.0001	0.0002	-0.0005
SNB-Aa1	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0012	0.0001	-0.0033
SNB-Aa2	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0012	0.0001	-0.0033
SNB-Ab1	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0011	0.0001	-0.0033
SNB-Ab2	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0011	0.0001	-0.0033
SNB-Ac1	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0010	0.0001	-0.0032
SNB-Ac2	0.0000	0.0000	-0.1397	0.0000	0.0000	0.1397	0.0010	0.0001	-0.0032
SNB-Ba1	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0008	0.0001	-0.0032
SNB-Ba2	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0008	0.0001	-0.0032
SNB-Bb1	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0007	0.0001	-0.0031
SNB-Bb2	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0007	0.0001	-0.0031
SNB-Bc1	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0031
SNB-Bc2	0.0000	0.0000	-0.1628	0.0000	0.0000	0.1628	0.0006	0.0001	-0.0031
SNB-Ca1	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0004	0.0000	-0.0030
SNB-Ca2	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0004	0.0002	-0.0030
SNB-Cb1	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0004	0.0000	-0.0029
SNB-Cb2	0.0000	0.0000	-0.2213	0.0000	0.0000	0.2213	0.0004	0.0002	-0.0029
SNB-Da1	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	-0.0000	-0.0027
SNB-Da2	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	0.0002	-0.0027
SNB-Db1	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	-0.0000	-0.0025
SNB-Db2	0.0000	0.0000	-0.2443	0.0000	0.0000	0.2443	0.0002	0.0002	-0.0025
SNB-Ea1	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	-0.0000	-0.0022
SNB-Ea2	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0001	-0.0023
SNB-Eb1	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0000	-0.0021
SNB-Eb2	0.0000	0.0000	-0.3328	0.0000	0.0000	0.3328	0.0001	0.0001	-0.0021
SNB-Fa1	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	-0.0001	-0.0002	-0.0018
SNB-Fa2	0.0000	0.0000	-0.4499	0.0000	0.0000	0.4499	-0.0001	0.0002	-0.0018
SNB-Ga1	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	-0.0001	-0.0002	-0.0014
SNB-Ga2	0.0000	0.0000	-0.5027	0.0000	0.0000	0.5027	-0.0001	0.0002	-0.0014
SNB-Ha1	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	-0.0001	-0.0002	-0.0008
SNB-Ha2	0.0000	0.0000	-0.5351	0.0000	0.0000	0.5351	-0.0001	0.0002	-0.0008
SNB-Ia1	0.0000	0.0000	-0.6292	0.0000	-0.0000	0.6292	-0.0001	-0.0002	-0.0003
SNB-Ia2	0.0000	0.0000	-0.6292	0.0000	0.0000	0.6292	-0.0001	0.0002	-0.0003

Moments for Angles Modeled as Beams:

Angle Label	Torsion (ft-lbs)	Origin X Moment (ft-lbs)	Origin Y Moment (ft-lbs)	End X Moment (ft-lbs)	End Y Moment (ft-lbs)	X Shear (lbs)	Y Shear (lbs)
Rohn-LA1P	0.00	0.00	-0.08	-0.41	-2.62	-0.08	-0.54
Rohn-LA11	0.00	-0.06	0.04	-2.43	1.02	-0.50	0.21
Rohn-LA12	-0.00	0.13	0.07	2.13	1.33	0.45	0.28
Rohn-LA2P	0.00	0.41	2.62	0.10	3.70	0.10	1.26
Rohn-LA21	0.00	2.43	-1.02	3.31	-1.73	1.15	-0.55
Rohn-LA22	-0.00	-2.13	-1.33	-3.29	-1.83	-1.08	-0.63
Rohn-LA3P	0.00	-0.10	-3.70	0.02	-4.97	-0.02	-1.73
Rohn-LA31	0.00	-3.31	1.73	-4.40	2.19	-1.54	0.78
Rohn-LA32	-0.00	3.29	1.83	4.37	2.15	1.53	0.79
Rohn-LA4P	0.00	-0.02	4.97	-0.05	7.08	-0.01	2.41
Rohn-LA41	0.00	4.40	-2.19	5.74	-3.30	2.02	-1.10

Rohn-LA42	-0.00	-4.37	-2.15	-5.74	-3.24	-2.02	-1.08
Rohn-LB1P	0.00	0.05	-7.26	0.10	-8.67	0.03	-3.18
Rohn-LB11	0.01	-5.75	3.28	-7.15	5.51	-2.58	1.76
Rohn-LB12	-0.01	5.74	3.22	7.22	5.43	2.59	1.73
Rohn-LB2P	0.00	-0.10	8.67	-0.02	10.02	-0.02	3.74
Rohn-LB21	0.01	7.15	-5.51	7.90	-4.83	3.01	-2.07
Rohn-LB22	-0.01	-7.22	-5.43	-7.87	-4.79	-3.02	-2.04
Rohn-LB3P	0.00	0.02	-10.02	0.02	-9.83	0.01	-3.97
Rohn-LB31	0.01	-7.90	4.83	-8.47	5.59	-3.27	2.08
Rohn-LB32	-0.01	7.87	4.79	8.50	5.59	3.27	2.07
Rohn-LB4P	0.00	-0.02	9.83	0.03	10.28	0.00	4.02
Rohn-LB41	0.01	8.47	-5.59	8.35	-4.70	3.36	-2.06
Rohn-LB42	-0.01	-8.50	-5.59	-8.30	-4.71	-3.36	-2.06
Rohn-LC1P	0.00	-0.03	-10.28	0.06	-2.66	0.00	-1.94
Rohn-LC11	0.01	-8.35	4.70	-2.40	2.03	-1.61	1.01
Rohn-LC12	-0.01	8.30	4.71	2.43	1.98	1.61	1.00
Rohn-LC2P	0.00	-0.06	2.66	-0.11	-8.29	-0.02	-0.84
Rohn-LC21	0.01	2.40	-2.03	-7.61	4.45	-0.78	0.36
Rohn-LC22	-0.01	-2.43	-1.98	7.54	4.54	0.76	0.38
Rohn-LC3P	0.00	0.11	8.29	0.05	17.08	0.02	3.81
Rohn-LC31	0.01	7.61	-4.45	14.48	-7.69	3.31	-1.82
Rohn-LC32	-0.01	-7.54	-4.53	-14.37	-7.69	-3.29	-1.83
Rohn-LD1P	0.00	-0.05	-17.08	0.16	-6.86	0.02	-3.59
Rohn-LD11	0.01	-14.48	7.69	-6.54	4.13	-3.15	1.77
Rohn-LD12	-0.01	14.37	7.69	6.67	4.02	3.16	1.76
Rohn-LD2P	0.00	-0.16	6.86	-0.02	-16.46	-0.03	-1.44
Rohn-LD21	0.01	6.54	-4.13	-14.36	9.34	-1.17	0.78
Rohn-LD22	-0.01	-6.67	-4.02	14.47	9.42	1.17	0.81
Rohn-LD3P	0.00	0.02	16.47	0.09	29.11	0.02	6.84
Rohn-LD31	0.01	14.36	-9.34	24.47	-13.93	5.83	-3.49
Rohn-LD32	-0.01	-14.47	-9.42	-24.40	-14.00	-5.83	-3.51
Rohn-LE1P	0.00	-0.09	-29.11	-0.03	-16.80	-0.02	-6.89
Rohn-LE11	0.01	-24.47	13.93	-14.74	8.99	-5.88	3.44
Rohn-LE12	-0.01	24.40	14.00	14.76	9.03	5.88	3.45
Rohn-LE2P	0.00	0.03	16.80	0.04	-10.96	0.01	0.87
Rohn-LE21	0.01	14.74	-8.99	-9.63	6.07	0.76	-0.44
Rohn-LE22	-0.01	-14.76	-9.03	9.75	6.10	-0.75	-0.44
Rohn-LE3P	0.00	-0.04	10.96	0.15	51.73	0.02	9.41
Rohn-LE31	0.01	9.63	-6.07	44.05	-25.31	8.05	-4.71
Rohn-LE32	-0.01	-9.75	-6.10	-44.18	-25.56	-8.09	-4.75
Rohn-LF1P	0.00	-0.15	-51.73	-0.46	-84.20	-0.06	-13.58
Rohn-LF11	0.01	-44.05	25.31	-72.84	42.76	-11.68	6.80
Rohn-LF12	-0.01	44.18	25.56	72.63	43.17	11.67	6.87
Rohn-LF2P	0.00	0.46	84.20	0.26	97.04	0.07	18.11
Rohn-LF21	0.01	72.84	-42.76	82.99	-47.98	15.57	-9.07
Rohn-LF22	-0.01	-72.63	-43.17	-83.25	-48.43	-15.58	-9.15
Rohn-LG1P	0.00	-0.26	-97.04	-0.58	-103.30	-0.08	-20.02
Rohn-LG11	0.01	-82.99	47.98	-89.36	52.15	-17.22	10.00
Rohn-LG12	-0.01	83.25	48.43	89.03	52.62	17.21	10.10
Rohn-LG2P	0.00	0.58	103.30	0.18	111.81	0.08	21.50
Rohn-LG21	0.01	89.36	-52.14	95.94	-55.49	18.52	-10.76
Rohn-LG22	-0.01	-89.03	-52.62	-96.20	-55.85	-18.51	-10.84
Rohn-LH1P	0.00	-0.18	-111.81	-0.33	-122.47	-0.05	-23.41
Rohn-LH11	0.01	-95.94	55.49	-105.92	61.69	-20.17	11.71
Rohn-LH12	-0.01	96.20	55.85	105.72	61.95	20.18	11.77
Rohn-LH2P	0.00	0.33	122.47	0.06	148.42	0.04	27.07
Rohn-LH21	0.01	105.92	-61.69	127.59	-73.83	23.33	-13.54
Rohn-LH22	-0.01	-105.72	-61.95	-127.93	-74.10	-23.35	-13.60
Rohn-LI1P	0.00	-0.06	-148.42	-0.59	-202.04	-0.06	-35.02
Rohn-LI11	0.01	-127.59	73.83	-174.97	101.97	-30.23	17.57
Rohn-LI12	-0.01	127.93	74.10	174.49	102.37	30.22	17.63
Rohn-LI2P	0.00	0.59	202.04	0.40	206.20	0.10	40.79
Rohn-LI21	0.01	174.97	-101.97	177.75	-103.24	35.25	-20.51
Rohn-LI22	-0.01	-174.49	-102.37	-177.79	-103.72	-35.20	-20.59
Rohn-H1P	-0.00	-0.06	-0.00	0.05	-0.00	-0.00	-0.00
Rohn-H11	0.00	-0.04	0.00	0.08	0.00	0.01	0.00
Rohn-H12	-0.00	-0.08	-0.00	0.04	-0.00	-0.01	-0.00
Rohn-H2P	-0.00	-0.10	-0.00	-0.02	-0.00	-0.01	-0.00
Rohn-H21	-0.00	-0.03	-0.00	0.02	0.00	-0.00	-0.00

Rohn-H22	0.00	0.03	0.00	0.10	0.00	0.02	0.00
SNB-LA1P	-0.00	-0.05	56.37	-0.04	10.75	-0.02	13.41
SNB-LA11	0.00	48.74	-28.17	9.29	-5.40	11.60	-6.71
SNB-LA12	-0.00	-48.99	-28.26	-9.51	-5.48	-11.69	-6.74
SNB-LA2P	-0.00	0.04	-10.75	-0.09	3.79	-0.01	-1.39
SNB-LA21	0.00	-9.29	5.40	3.14	-2.11	-1.23	0.66
SNB-LA22	-0.00	9.51	5.49	-3.22	-2.05	1.26	0.69
SNB-LA3P	-0.00	0.09	-3.79	-0.01	-16.09	0.02	-3.97
SNB-LA31	0.00	-3.14	2.11	-13.55	8.23	-3.34	2.07
SNB-LA32	-0.00	3.22	2.05	13.48	8.20	3.34	2.05
SNB-LA4P	-0.00	0.01	16.09	0.02	48.44	0.01	12.89
SNB-LA41	0.00	13.55	-8.23	40.90	-23.73	10.88	-6.39
SNB-LA42	-0.00	-13.48	-8.20	-40.81	-23.70	-10.85	-6.37
SNB-LB1P	-0.00	0.03	82.55	0.05	5.63	0.02	17.62
SNB-LB11	0.02	71.44	-40.67	4.58	-1.19	15.19	-8.37
SNB-LB12	-0.02	-71.33	-40.64	-4.47	-1.18	-15.15	-8.36
SNB-LB2P	-0.00	-0.05	-5.62	0.03	21.95	-0.00	3.26
SNB-LB21	0.02	-4.58	1.19	17.83	-10.05	2.65	-1.77
SNB-LB22	-0.02	4.47	1.18	-17.75	-10.04	-2.65	-1.77
SNB-LB3P	-0.00	-0.03	-21.94	0.06	-48.68	0.01	-14.11
SNB-LB31	0.02	-17.83	10.05	-42.15	25.87	-11.99	7.18
SNB-LB32	-0.02	17.75	10.04	42.24	25.85	11.99	7.17
SNB-LB4P	-0.00	-0.06	48.68	-0.01	133.93	-0.01	36.49
SNB-LB41	0.02	42.15	-25.87	114.86	-66.61	31.38	-18.48
SNB-LB42	-0.02	-42.24	-25.85	-114.83	-66.58	-31.39	-18.47
SNB-LC1P	-0.00	0.00	75.84	0.02	29.06	0.00	15.74
SNB-LC11	0.02	66.83	-38.39	25.12	-13.49	13.80	-7.78
SNB-LC12	-0.02	-66.90	-38.44	-25.12	-13.51	-13.81	-7.79
SNB-LC2P	-0.00	-0.02	-29.06	0.03	-53.74	0.00	-12.38
SNB-LC21	0.02	-25.12	13.49	-46.85	27.77	-10.77	6.17
SNB-LC22	-0.02	25.12	13.51	46.85	27.73	10.77	6.17
SNB-LC3P	-0.00	-0.03	53.74	-0.01	160.55	-0.01	32.15
SNB-LC31	0.02	46.85	-27.77	138.16	-79.94	27.76	-16.16
SNB-LC32	-0.02	-46.85	-27.73	-138.05	-79.86	-27.74	-16.14
SNB-LD1P	-0.00	0.02	189.40	0.13	55.21	0.02	36.70
SNB-LD11	0.02	164.98	-95.20	47.38	-26.02	31.86	-18.19
SNB-LD12	-0.01	-165.04	-95.26	-47.24	-26.09	-31.85	-18.21
SNB-LD2P	-0.00	-0.13	-55.21	0.06	-72.87	-0.01	-19.16
SNB-LD21	0.02	-47.38	26.02	-63.26	37.82	-16.55	9.55
SNB-LD22	-0.01	47.24	26.09	63.46	37.86	16.56	9.57
SNB-LD3P	-0.00	-0.06	72.87	0.03	178.87	-0.00	37.77
SNB-LD31	0.02	63.26	-37.82	153.47	-88.76	32.52	-18.99
SNB-LD32	-0.01	-63.46	-37.86	-153.46	-88.79	-32.55	-19.00
SNB-LE1P	-0.00	-0.07	271.50	0.16	75.68	0.01	52.09
SNB-LE11	0.02	236.56	-136.65	65.14	-35.90	45.27	-25.89
SNB-LE12	-0.02	-236.76	-136.68	-65.00	-36.00	-45.27	-25.91
SNB-LE2P	-0.00	-0.16	-75.68	-0.08	-163.37	-0.04	-35.76
SNB-LE21	0.02	-65.14	35.90	-141.93	83.31	-30.98	17.83
SNB-LE22	-0.02	65.00	36.00	142.15	83.54	30.99	17.88
SNB-LE3P	-0.00	0.08	163.37	0.09	565.04	0.03	109.29
SNB-LE31	0.02	141.93	-83.31	487.55	-282.29	94.44	-54.85
SNB-LE32	-0.02	-142.15	-83.53	-488.06	-282.69	-94.55	-54.95
SNB-LF1P	0.01	-0.17	145.36	-0.43	-170.38	-0.06	-2.50
SNB-LF11	0.01	127.77	-73.32	-146.76	86.87	-1.90	1.35
SNB-LF12	-0.02	-127.61	-73.03	146.59	87.27	1.90	1.42
SNB-LF2P	0.01	0.43	170.38	0.11	546.65	0.05	71.65
SNB-LF21	0.01	146.76	-86.87	470.91	-273.24	61.72	-35.98
SNB-LF22	-0.02	-146.59	-87.26	-471.59	-273.77	-61.77	-36.08
SNB-LG1P	0.01	-0.15	562.16	-1.01	-249.02	-0.12	31.29
SNB-LG11	0.01	489.35	-281.66	-215.09	126.86	27.41	-15.47
SNB-LG12	-0.03	-488.78	-281.15	214.34	127.60	-27.42	-15.34
SNB-LG2P	0.01	1.01	249.02	0.29	991.21	0.13	123.93
SNB-LG21	0.01	215.09	-126.86	855.52	-495.42	106.98	-62.18
SNB-LG22	-0.03	-214.34	-127.60	-856.34	-496.23	-106.99	-62.34
SNB-LH1P	0.01	-0.30	422.79	-1.07	-274.77	-0.14	14.79
SNB-LH11	0.01	368.89	-212.08	-237.32	139.15	13.15	-7.29
SNB-LH12	-0.02	-368.10	-211.28	236.65	140.01	-13.14	-7.12
SNB-LH2P	0.01	1.07	274.77	0.40	883.89	0.15	115.78
SNB-LH21	0.01	237.32	-139.15	762.67	-441.58	99.92	-58.03

SNB-LH22	-0.02	-236.65	-140.01	-763.45	-442.49	-99.93	-58.21
SNB-LI1P	0.01	-0.40	800.04	-1.52	-172.43	-0.19	62.71
SNB-LI11	0.00	695.54	-401.00	-149.12	88.64	54.60	-31.21
SNB-LI12	-0.01	-694.70	-400.05	147.95	89.72	-54.63	-31.01
SNB-LI2P	0.01	1.52	172.43	0.85	356.10	0.24	52.81
SNB-LI21	0.00	149.12	-88.64	306.22	-178.41	45.50	-26.68
SNB-LI22	-0.01	-147.95	-89.72	-306.43	-179.51	-45.40	-26.90
SNB-H1aP	-0.01	32.60	-0.12	108.61	-0.09	69.89	-0.10
SNB-H1bP	-0.01	-108.61	0.09	-32.52	0.11	-69.85	0.10
SNB-H1cP	-0.00	32.48	-0.12	108.59	-0.11	69.82	-0.11
SNB-H1dP	0.00	-108.59	0.11	-32.68	0.11	-69.92	0.11
SNB-H1eP	0.01	32.62	-0.11	108.61	-0.13	69.90	-0.12
SNB-H1fP	0.01	-108.61	0.13	-32.50	0.11	-69.84	0.12
SNB-H2aP	-0.04	75.60	0.16	113.88	0.16	70.10	0.12
SNB-H2bP	-0.04	-113.88	-0.16	-74.35	-0.17	-69.64	-0.12
SNB-H2cP	-0.00	75.16	0.14	113.78	0.15	69.90	0.11
SNB-H2dP	-0.00	-113.78	-0.15	-74.99	-0.14	-69.84	-0.11
SNB-H2eP	0.04	74.27	0.17	113.87	0.15	69.61	0.12
SNB-H2fP	0.04	-113.87	-0.15	-75.70	-0.15	-70.14	-0.11
SNB-H3aP	-0.00	121.12	1.05	154.22	1.03	81.36	0.62
SNB-H3bP	-0.00	-154.22	-1.03	-121.18	-1.05	-81.37	-0.62
SNB-H3cP	-0.00	121.14	1.05	154.22	1.09	81.36	0.63
SNB-H3dP	-0.00	-154.22	-1.09	-121.16	-1.05	-81.37	-0.63
SNB-H3eP	0.00	121.19	1.05	154.22	1.04	81.38	0.62
SNB-H3fP	0.00	-154.22	-1.04	-121.11	-1.05	-81.35	-0.62
SNB-H4aP	-0.01	202.04	1.98	247.61	1.96	110.59	0.97
SNB-H4bP	-0.01	-247.61	-1.96	-202.12	-1.98	-110.61	-0.97
SNB-H4cP	-0.00	202.13	1.98	247.59	2.02	110.60	0.98
SNB-H4dP	-0.00	-247.59	-2.02	-202.08	-1.98	-110.59	-0.98
SNB-H4eP	0.01	202.10	1.97	247.61	1.96	110.60	0.97
SNB-H4fP	0.01	-247.61	-1.96	-202.06	-1.97	-110.59	-0.97
SNB-H5aP	-0.00	260.06	2.78	319.51	2.77	122.10	1.17
SNB-H5bP	-0.00	-319.51	-2.77	-260.14	-2.79	-122.12	-1.17
SNB-H5cP	0.00	260.03	2.78	319.51	2.83	122.09	1.18
SNB-H5dP	0.00	-319.51	-2.83	-260.18	-2.78	-122.12	-1.18
SNB-H5eP	0.00	260.21	2.79	319.51	2.77	122.13	1.17
SNB-H5fP	0.00	-319.51	-2.77	-259.99	-2.79	-122.09	-1.17
SNB-H6aP	-0.02	410.25	2.81	492.49	2.80	166.30	1.03
SNB-H6bP	-0.02	-492.49	-2.80	-410.39	-2.81	-166.33	-1.03
SNB-H6cP	0.01	410.22	2.82	492.45	2.85	166.29	1.05
SNB-H6dP	0.01	-492.45	-2.85	-410.51	-2.82	-166.34	-1.04
SNB-H6eP	0.02	410.53	2.81	492.51	2.80	166.36	1.03
SNB-H6fP	0.02	-492.51	-2.80	-410.09	-2.82	-166.28	-1.04
SNB-H7aP	-0.01	640.20	0.71	734.06	0.71	224.93	0.23
SNB-H7bP	-0.01	-734.06	-0.71	-640.38	-0.71	-224.96	-0.23
SNB-H7cP	0.01	640.25	0.71	734.06	0.74	224.94	0.24
SNB-H7dP	0.01	-734.06	-0.74	-640.35	-0.71	-224.95	-0.24
SNB-H7eP	0.00	640.41	0.72	734.08	0.71	224.96	0.23
SNB-H7fP	0.00	-734.08	-0.71	-640.14	-0.72	-224.92	-0.23
SNB-H8aP	0.00	816.38	0.79	889.89	0.79	251.27	0.23
SNB-H8bP	0.00	-889.89	-0.79	-816.48	-0.79	-251.29	-0.23
SNB-H8cP	0.00	816.41	0.80	889.90	0.81	251.28	0.24
SNB-H8dP	0.00	-889.90	-0.81	-816.43	-0.80	-251.28	-0.24
SNB-H8eP	-0.00	816.49	0.79	889.89	0.78	251.29	0.23
SNB-H8fP	-0.00	-889.89	-0.78	-816.36	-0.79	-251.27	-0.23
SNB-H9aP	-0.00	972.21	0.58	1026.52	0.58	267.49	0.15
SNB-H9bP	-0.00	-1026.52	-0.58	-972.35	-0.57	-267.51	-0.15
SNB-H9cP	0.00	972.31	0.58	1026.52	0.59	267.51	0.16
SNB-H9dP	0.00	-1026.52	-0.59	-972.27	-0.58	-267.50	-0.16
SNB-H9eP	0.00	972.33	0.57	1026.52	0.57	267.51	0.15
SNB-H9fP	0.00	-1026.52	-0.57	-972.23	-0.57	-267.50	-0.15

Printed capacities do not include the strength factor entered for each load case.
The Group Summary reports on the member and load case that resulted in maximum usage
which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Max Use In Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	L/R Capacity (kips)	Comp. Conn. Shear Capacity (kips)	Comp. Conn. Bearing Capacity (kips)	RLX	RLY	RLZ	L/R	Length Comp. Member (ft)	Curve No.	No. Of Bolts Comp.
Rohn-D1	Rohn Diagonal 1	SAE	1.75X1.75X0.1875	36.0	39.87	39.87	Rohn-DA61	-1.9241:	1.2D +	4.825	12.433	13.050	0.500	0.500	0.500	170.38	9.740	4	1
Rohn-D2	Rohn Diagonal 2	SAE	2X2X0.1875	36.0	84.67	84.67	Rohn-DB61	-4.8991:	1.2D +	5.786	12.433	13.050	0.500	0.500	0.500	166.50	10.934	4	1
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	36.0	79.74	79.74	Rohn-DC41	-6.7521:	1.2D +	8.468	12.433	13.050	0.500	0.500	0.500	155.13	12.798	4	1
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	36.0	84.74	84.74	Rohn-DD21	-8.2851:	1.2D +	9.776	12.433	17.400	0.500	0.500	0.500	165.83	13.570	4	1
Rohn-D5	Rohn Diagonal 5	SAE	3X3X0.25	50.0	76.24	76.24	Rohn-DE61	-9.4791:	1.2D +	13.033	12.433	19.500	0.500	0.500	0.500	157.99	15.589	4	1
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	50.0	91.97	91.97	Rohn-DF32	-11.4341:	1.2D +	15.227	12.433	19.500	0.500	0.500	0.500	158.34	18.315	4	1
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	50.0	80.02	80.02	Rohn-DH12	-9.9501:	1.2D +	19.124	12.433	19.500	0.500	0.500	0.500	151.38	20.058	4	1
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	50.0	10.72	10.72	Rohn-LA4P	-11.1471:	1.2D +	103.968	0.000	0.000	1.000	1.000	1.000	52.67	5.004	1	0
Rohn-L2	Rohn Leg 2	Pipe	Pipe3.5EH	50.0	28.98	28.98	Rohn-LB4P	-38.4671:	1.2D +	132.756	0.000	0.000	1.000	1.000	1.000	45.84	5.004	1	0
Rohn-L3	Rohn Leg 3	Pipe	Pipe4EH	50.0	50.76	50.76	Rohn-LC3P	-76.3891:	1.2D +	150.478	0.000	0.000	1.000	1.000	1.000	54.04	6.665	1	0
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	50.0	80.43	80.43	Rohn-LD3P	-127.7781:	1.2D +	158.870	0.000	0.000	1.000	1.000	1.000	42.54	6.665	1	0
Rohn-L5	Rohn Leg 5	Pipe	Pipe5EH	50.0	76.59	76.59	Rohn-LE3P	-171.9681:	1.2D +	224.520	0.000	0.000	1.000	1.000	1.000	43.23	6.665	1	0
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EHS	50.0	78.92	78.92	Rohn-LF1P	-192.3891:	1.2D +	243.786	0.000	0.000	1.000	1.000	1.000	54.10	10.008	1	0
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	50.0	91.06	91.06	Rohn-LG2P	-259.6901:	1.2D +	285.178	0.000	0.000	1.000	1.000	1.000	54.59	10.008	1	0
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EHS	50.0	81.91	81.91	Rohn-LI1P	-322.2241:	1.2D +	393.385	0.000	0.000	1.000	1.000	1.000	40.57	10.008	1	0
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	36.0	2.54	2.54	Rohn-H12	-0.2061:	1.2D +	8.108	0.000	0.000	0.500	0.500	0.500	131.28	7.505	4	0
SNB-D1	SNB Diagonal 1	SAE	2X2X0.3125	36.0	11.96	11.81	SNB-DA72	-1.4681:	1.2D +	19.391	12.433	21.750	0.500	0.500	0.500	111.38	7.240	1	1
SNB-D2	SNB Diagonal 2	SAE	2X2X0.25	36.0	28.50	28.50	SNB-DB72	-3.5441:	1.2D +	13.020	12.433	17.400	0.500	0.500	0.500	127.05	8.279	4	1
SNB-D3	SNB Diagonal 3	SAE	2.5X2.5X0.3125	36.0	75.48	75.48	SNB-DD61	-9.3851:	1.2D +	16.821	12.433	21.750	0.500	0.500	0.500	140.03	11.412	4	1
SNB-D4	SNB Diagonal 4	SAE	3X3X0.5	36.0	70.13	70.13	SNB-DE12	-12.5541:	1.2D +	41.188	17.901	41.760	0.500	0.500	0.500	121.07	11.784	4	1
SNB-D5	SNB Diagonal 5	SAE	4X4X0.5	36.0	67.44	67.44	SNB-DF41	-12.0732:	0.9D +	57.545	17.901	41.760	0.500	0.500	0.500	119.15	15.529	1	1
SNB-D6	SNB Diagonal 6	SAE	4X4X0.625	36.0	88.18	88.18	SNB-DH12	-15.7852:	0.9D +	59.660	17.901	52.200	0.500	0.500	0.500	132.03	17.142	4	1
SNB-D7	SNB Diagonal 7	SAE	5X5X0.625	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
SNB-L1	SNB Leg 1	Pipe	P3-437	36.0	7.62	7.62	SNB-LA4P	-8.8351:	1.2D +	115.987	0.000	0.000	1.000	1.000	1.000	55.09	5.004	1	0
SNB-L2	SNB Leg 2	Pipe	P4-494	36.0	45.68	45.68	SNB-LC3P	-77.7741:	1.2D +	170.256	0.000	0.000	1.000	1.000	1.000	56.33	6.665	1	0
SNB-L3	SNB Leg 3	Pipe	Pipe5EH	36.0	81.20	81.20	SNB-LD3P	-136.3791:	1.2D +	167.960	0.000	0.000	1.000	1.000	1.000	43.23	6.665	1	0
SNB-L4	SNB Leg 4	Pipe	P6-562	36.0	90.97	90.97	SNB-LF2P	-267.6021:	1.2D +	294.167	0.000	0.000	1.000	1.000	1.000	55.86	10.008	1	0
SNB-L5	SNB Leg 5	Pipe	Pipe8XS	36.0	97.93	97.93	SNB-LH2P	-403.8181:	1.2D +	412.353	0.000	0.000	0.250	0.250	0.250	10.42	10.008	1	0
SNB-L6	SNB Leg 6	Pipe	Pipe10XS	36.0	93.12	93.12	SNB-LI2P	-478.7921:	1.2D +	514.179	0.000	0.000	0.500	0.500	0.500	16.54	10.008	1	0
Connect	Connect Towers	BIG	0.1X0.1X1	36.0	0.03	0.01	Connect I2	-2.8142:	0.9D +	25912.070	0.000	0.000	1.000	1.000	1.000	2.40	2.002	1	0
SNB-H1	SNB Horizontal 1	Pipe	P3-425	36.0	2.13	2.13	SNB-H4cP	-2.5502:	0.9D +	119.859	0.000	0.000	1.000	1.000	1.000	44.46	4.066	1	0
SNB-H2	SNB Horizontal 2	Pipe	P4-494	36.0	3.85	3.85	SNB-H9cP	-6.2802:	0.9D +	163.108	0.000	0.000	1.000	1.000	1.000	63.14	7.472	1	0
Rohn-D8	Rohn Diagonal 8	SAE	2X2X0.375	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
WLAC-1	Wind Lacing 1	SAE	2X2X0.25	36.0	1.64	1.64	SNB-WL-D2P	-0.2212:	0.9D +	13.417	0.000	0.000	1.000	1.000	1.000	124.79	4.066	4	0
WLAC-2	Wind Lacing 2	SAE	2.5X2.5X0.3125	36.0	3.19	3.19	SNB-WL-I2P	-0.3131:	1.2D +	9.810	0.000	0.000	1.000	1.000	1.000	183.36	7.472	4	0
R-D1-MOD	MODIFICATION - L1.75X1.75x3/16	SAE	1.75X1.75X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D2-MOD	MODIFICATION - L2X2x3/16	SAE	2X2X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D3-MOD	MODIFICATION - L2.5X2.5x1/4	SAE	2.5X2.5X0.25	50.0	85.12	85.12	Rohn-DC61	-8.8261:	1.2D +	10.368	12.433	19.500	0.500	0.500	0.500	161.02	13.177	4	1
R-D4-MOD	MODIFICATION - L3x3x1/4	SAE	3X3X0.25	50.0	79.91	79.91	Rohn-DD41	-9.9361:	1.2D +	16.211	12.433	19.500	0.500	0.500	0.500	141.66	13.977	4	1
R-D5-MOD	MODIFICATION - L3X3x1/4	SAE	3X3X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D6-MOD	MODIFICATION - L3.5X3.5x5/16	SAE	3.5X3.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
R-D7-MOD	MODIFICATION - L4X4x5/16	SAE	4X4X0.3125	50.0	77.10	77.10	Rohn-DH32	-11.9831:	1.2D +	22.091	15.542	24.375	0.500	0.500	0.500	156.66	20.653	4	1
S-D1-MOD	MODIFICATION - L2X2x5/16	SAE	2X2X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D2-MOD	MODIFICATION - L2x2x1/4	SAE	2X2X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D3-MOD	MODIFICATION - L2.5X2.5x5/16	SAE	2.5X2.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D4-MOD	MODIFICATION - L3.5X3.5x3/8	SAE	3.5X3.5X0.375	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D5-MOD	MODIFICATION - L4X4x0.5	SAE	4X4X0.5	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0	0
S-D6-MOD	MODIFICATION - L5X5x3/8	SAE	5X5X0.375	50.0	64.45	64.45	SNB-DH32	-14.4222:	0.9D +	70.032	22.376	35.100	0.500	0.500	0.500	107.27	17.700	1	1
S-D7-MOD	MODIFICATION - L6X6x3/8	SAE	6X6X0.375	50.0	88.55	88.55	SNB-DI32	-19.8132:	0.9D +	95.638	22.376	35.100	0.500	0.500	0.500	94.99	18.841	1	1

Group Summary (Tension Portion):

Group	Group Desc.	Angle Type	Angle Size	Steel	Max	Max	Tension	Tension	Tension	Net Tens.	Conn. Tens.	Conn. Tens.	Conn.	Length	No. Of	No. Of	Hole

Label	Desc.	Type	Size	Strength (ksi)	Usage %	Use In Tens. %	Control Member	Force (kips)	Control Load Case	Section Capacity (kips)	Shear Capacity (kips)	Bearing Capacity (kips)	Rupture Capacity (kips)	Tens. Member (ft)	Bolts Tens.	Holes	Diameter (in)
Rohn-D1	Rohn Diagonal 1	SAE	1.75X1.75X0.1875	36.0	39.87	23.73	Rohn-DA8P	1.8392:	0.9D +	16.022	12.433	13.050	7.750	10.034	1	1.000	0.6875
Rohn-D2	Rohn Diagonal 2	SAE	2X2X0.1875	36.0	84.67	52.01	Rohn-DB7P	4.5612:	0.9D +	18.958	12.433	13.050	8.770	11.238	1	1.000	0.6875
Rohn-D3	Rohn Diagonal 3	SAE	2.5X2.5X0.1875	36.0	79.74	57.60	Rohn-DC3P	5.6371:	1.2D +	25.222	12.433	13.050	9.787	12.798	1	1.000	0.6875
Rohn-D4	Rohn Diagonal 4	SAE	2.5X2.5X0.25	36.0	84.74	53.74	Rohn-DD1P	6.6822:	0.9D +	33.216	12.433	17.400	13.050	13.570	1	1.000	0.6875
Rohn-D5	Rohn Diagonal 5	SAE	3X3X0.25	50.0	76.24	69.10	Rohn-DE5P	8.5922:	0.9D +	46.366	12.433	19.500	14.625	15.589	1	1.000	0.6875
Rohn-D6	Rohn Diagonal 6	SAE	3.5X3.5X0.25	50.0	91.97	81.58	Rohn-DF1P	10.1432:	0.9D +	55.506	12.433	19.500	14.625	17.748	1	1.000	0.6875
Rohn-D7	Rohn Diagonal 7	SAE	4X4X0.25	50.0	80.02	75.46	Rohn-DH2P	9.3822:	0.9D +	64.647	12.433	19.500	14.625	20.058	1	1.000	0.6875
Rohn-L1	Rohn Leg 1	Pipe	Pipe3EH	50.0	10.72	3.32	Rohn-LA42	4.2322:	0.9D +	127.350	0.000	0.000	0.000	5.004	0	0.000	0
Rohn-L2	Rohn Leg 2	Pipe	Pipe3.5EH	50.0	28.98	9.78	Rohn-LB42	15.1432:	0.9D +	154.800	0.000	0.000	0.000	5.004	0	0.000	0
Rohn-L3	Rohn Leg 3	Pipe	Pipe4EH	50.0	50.76	16.31	Rohn-LC32	30.3772:	0.9D +	186.300	0.000	0.000	0.000	6.665	0	0.000	0
Rohn-L4	Rohn Leg 4	Pipe	Pipe5STD	50.0	80.43	29.36	Rohn-LD32	53.2382:	0.9D +	181.350	0.000	0.000	0.000	6.665	0	0.000	0
Rohn-L5	Rohn Leg 5	Pipe	Pipe5EH	50.0	76.59	28.45	Rohn-LE32	73.2332:	0.9D +	257.400	0.000	0.000	0.000	6.665	0	0.000	0
Rohn-L6	Rohn Leg 6	Pipe	Pipe6EHS	50.0	78.92	30.78	Rohn-LF22	92.9452:	0.9D +	301.950	0.000	0.000	0.000	10.008	0	0.000	0
Rohn-L7	Rohn Leg 7	Pipe	Pipe6EH	50.0	91.06	36.86	Rohn-LH22	130.6932:	0.9D +	354.599	0.000	0.000	0.000	10.008	0	0.000	0
Rohn-L8	Rohn Leg 8	Pipe	Pipe8EHS	50.0	81.91	32.91	Rohn-LI22	146.0312:	0.9D +	443.699	0.000	0.000	0.000	10.008	0	0.000	0
Rohn-H1	Rohn Horizontal 1	SAE	1.75X1.75X0.1875	36.0	2.54	1.11	Rohn-H11	0.2242:	0.9D +	20.088	0.000	0.000	0.000	7.505	0	0.000	0
SNB-D1	SNB Diagonal 1	SAE	2X2X0.3125	36.0	11.96	11.96	SNB-DA7P	1.4871:	1.2D +	30.509	12.433	21.750	14.616	7.240	1	1.000	0.6875
SNB-D2	SNB Diagonal 2	SAE	2X2X0.25	36.0	28.50	28.18	SNB-DB6P	3.2951:	1.2D +	25.060	12.433	17.400	11.693	8.011	1	1.000	0.6875
SNB-D3	SNB Diagonal 3	SAE	2.5X2.5X0.3125	36.0	75.48	71.52	SNB-DD3P	8.8921:	1.2D +	40.623	12.433	21.750	16.312	11.059	1	1.000	0.6875
SNB-D4	SNB Diagonal 4	SAE	3X3X0.5	36.0	70.13	64.97	SNB-DE4P	11.6311:	1.2D +	76.465	17.901	41.760	31.494	12.172	1	1.000	0.8125
SNB-D5	SNB Diagonal 5	SAE	4X4X0.5	36.0	67.44	62.83	SNB-DF2P	11.2471:	1.2D +	109.090	17.901	41.760	31.494	15.014	1	1.000	0.8125
SNB-D6	SNB Diagonal 6	SAE	4X4X0.625	36.0	88.18	73.74	SNB-DH2P	13.2001:	1.2D +	133.834	17.901	52.200	39.367	17.142	1	1.000	0.8125
SNB-D7	SNB Diagonal 7	SAE	5X5X0.625	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
SNB-L1	SNB Leg 1	Pipe	P3-437	36.0	7.62	2.32	SNB-LA42	3.1562:	0.9D +	136.080	0.000	0.000	0.000	5.004	0	0.000	0
SNB-L2	SNB Leg 2	Pipe	P4-494	36.0	45.68	17.17	SNB-LC32	34.5462:	0.9D +	201.204	0.000	0.000	0.000	6.665	0	0.000	0
SNB-L3	SNB Leg 3	Pipe	Pipe5EH	36.0	81.20	33.44	SNB-LD32	61.9712:	0.9D +	185.328	0.000	0.000	0.000	6.665	0	0.000	0
SNB-L4	SNB Leg 4	Pipe	P6-562	36.0	90.97	35.22	SNB-LF22	122.0842:	0.9D +	346.679	0.000	0.000	0.000	10.008	0	0.000	0
SNB-L5	SNB Leg 5	Pipe	Pipe8XS	36.0	97.93	44.26	SNB-LH22	183.5542:	0.9D +	414.719	0.000	0.000	0.000	10.008	0	0.000	0
SNB-L6	SNB Leg 6	Pipe	Pipe10XS	36.0	93.12	41.63	SNB-LI22	217.1712:	0.9D +	521.639	0.000	0.000	0.000	10.008	0	0.000	0
Connect	Connect Towers	BIG	0.1X0.1X1	36.0	0.03	0.03	Connect IP	6.9881:	1.2D +	25919.960	0.000	0.000	0.000	2.002	0	0.000	0
SNB-H1	SNB Horizontal 1	Pipe	P3-425	36.0	2.13	1.50	SNB-H4eP	1.9891:	1.2D +	133.002	0.000	0.000	0.000	4.066	0	0.000	0
SNB-H2	SNB Horizontal 2	Pipe	P4-494	36.0	3.85	1.81	SNB-H9bP	3.6451:	1.2D +	201.204	0.000	0.000	0.000	7.472	0	0.000	0
Rohn-D8	Rohn Diagonal 8	SAE	2X2X0.375	36.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
WLAC-1	Wind Lacing 1	SAE	2X2X0.25	36.0	1.64	1.46	SNB-WL-D3P	0.4431:	1.2D +	30.456	0.000	0.000	0.000	4.066	0	0.000	0
WLAC-2	Wind Lacing 2	SAE	2.5X2.5X0.3125	36.0	3.19	1.32	SNB-WL-I3P	0.6251:	1.2D +	47.304	0.000	0.000	0.000	7.472	0	0.000	0
R-D1-MOD	MODIFICATION - L1.75X1.75x3/16	SAE	1.75X1.75X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D2-MOD	MODIFICATION - L2X2x3/16	SAE	2X2X0.1875	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D3-MOD	MODIFICATION - L2.5X2.5x1/4	SAE	2.5X2.5X0.25	50.0	85.12	63.22	Rohn-DC5P	7.8602:	0.9D +	37.225	12.433	19.500	14.625	13.177	1	1.000	0.6875
R-D4-MOD	MODIFICATION - L3x3x1/4	SAE	3X3X0.25	50.0	79.91	77.26	Rohn-DD3P	9.6061:	1.2D +	46.366	12.433	19.500	14.625	13.977	1	1.000	0.6875
R-D5-MOD	MODIFICATION - L3X3x1/4	SAE	3X3X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D6-MOD	MODIFICATION - L3.5X3.5x5/16	SAE	3.5X3.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
R-D7-MOD	MODIFICATION - L4X4x5/16	SAE	4X4X0.3125	50.0	77.10	69.41	Rohn-DH4P	10.7882:	0.9D +	79.895	15.542	24.375	18.281	20.653	1	1.000	0.6875
S-D1-MOD	MODIFICATION - L2X2x5/16	SAE	2X2X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D2-MOD	MODIFICATION - L2x2x1/4	SAE	2X2X0.25	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D3-MOD	MODIFICATION - L2.5X2.5x5/16	SAE	2.5X2.5X0.3125	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D4-MOD	MODIFICATION - L3.5X3.5x3/8	SAE	3.5X3.5X0.375	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D5-MOD	MODIFICATION - L4X4x0.5	SAE	4X4X0.5	50.0	0.00	0.00		0.000		0.000	0.000	0.000	0.000	0.000	0	0.000	0
S-D6-MOD	MODIFICATION - L5X5x3/8	SAE	5X5X0.375	50.0	64.45	57.78	SNB-DG4P	12.9291:	1.2D +	120.850	22.376	35.100	26.471	16.594	1	1.000	0.8125
S-D7-MOD	MODIFICATION - L6X6x3/8	SAE	6X6X0.375	50.0	88.55	76.56	SNB-DI4P	17.1321:	1.2D +	148.272	22.376	35.100	26.471	18.841	1	1.000	0.8125

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
1: 1.2D + 1.0Dg + 1.6Wo	97.93	SNB-LH2P	Angle
2: 0.9D + 1.0Dg + 1.6Wo	96.89	SNB-LH2P	Angle
4: 1.2D + 1.0Dg + 1.0E	12.42	Rohn-LD3P	Angle
5: 0.9D + 1.0Dg + 1.0E	11.00	Rohn-LD3P	Angle
6: Service 1.0D + 1.0Dg + 1.0 Wo	24.09	SNB-LH1P	Angle

1.2*DL	5.66	Rohn-LD3P	Angle
0.9DL	4.25	Rohn-LD3P	Angle

*** Weight of structure (lbs):

Weight of Angles*Section DLF:	61800.0
Weight of Equipment:	12631.6
Total:	74431.6

*** End of Report

		"0 DEG"	"+60 DEG"	"-60 DEG"	"+90 DEG"	"-90 DEG"	"180 DEG"	Max Tension (Kips)					
Rohn-L1	Rohn-LA1P	0	0	0	0	0	0.724	0.724					
Rohn-L1	Rohn-LA11	0.136	0.544	0	0.457	0	0	0.544					
Rohn-L1	Rohn-LA12	0.19	0	0.681	0	0.541	0	0.681					
Rohn-L1	Rohn-LA2P	0	0	0	0	0	2.866	2.866					
Rohn-L1	Rohn-LA21	1.337	3.058	0	2.623	0	0	3.058					
Rohn-L1	Rohn-LA22	1.103	0	2.769	0	2.379	0	2.769					
Rohn-L1	Rohn-LA3P	0	0	0	0	0	5.911	5.911					
Rohn-L1	Rohn-LA31	2.729	6.009	0	5.174	0	0	6.009					
Rohn-L1	Rohn-LA32	2.566	0	5.745	0	4.959	0	5.745					
Rohn-L1	Rohn-LA4P	0	0	0	0	0	9.192	9.192					
Rohn-L1	Rohn-LA41	4.146	8.712	0	7.475	0	0	8.712					
Rohn-L1	Rohn-LA42	4.244	0	8.805	0	7.522	0	8.805	# Bolts	Dia Bolt	LRFD Bolt Tension Capacity	LRFD Factored Tensile Capacity	Cap Percentage
Rohn-L2	Rohn-LB1P	0	0	0	0	0	12.811	12.811	4	0.75	29.8	119.2 OK	11%
Rohn-L2	Rohn-LB11	6.153	13.063	0	11.245	0	0	13.063	4	0.75	29.8	119.2 OK	11%
Rohn-L2	Rohn-LB12	6.245	0	13.06	0	11.207	0	13.06	4	0.75	29.8	119.2 OK	11%
Rohn-L2	Rohn-LB2P	0	0	0	0	0	17.68	17.68	4	0.75	29.8	119.2 OK	15%
Rohn-L2	Rohn-LB21	8.54	18.046	0	15.64	0	0	18.046	4	0.75	29.8	119.2 OK	15%
Rohn-L2	Rohn-LB22	8.695	0	18.086	0	15.612	0	18.086	4	0.75	29.8	119.2 OK	15%
Rohn-L2	Rohn-LB3P	0	0	0	0	0	23.309	23.309	4	0.75	29.8	119.2 OK	20%
Rohn-L2	Rohn-LB31	11.034	23.605	0	20.383	0	0	23.605	4	0.75	29.8	119.2 OK	20%
Rohn-L2	Rohn-LB32	11.2	0	23.628	0	20.328	0	23.628	4	0.75	29.8	119.2 OK	20%
Rohn-L2	Rohn-LB4P	0	0	0	0	0	31.258	31.258	4	0.75	29.8	119.2 OK	26%
Rohn-L2	Rohn-LB41	15.015	31.542	0	27.281	0	0	31.542	4	0.75	29.8	119.2 OK	26%
Rohn-L2	Rohn-LB42	15.195	0	31.558	0	27.208	0	31.558	4	0.75	29.8	119.2 OK	26%
Rohn-L3	Rohn-LC1P	0	0	0	0	0	39.147	39.147	4	0.875	40.6	162.4 OK	24%
Rohn-L3	Rohn-LC11	18.931	39.503	0	34.212	0	0	39.503	4	0.875	40.6	162.4 OK	24%
Rohn-L3	Rohn-LC12	19.156	0	39.549	0	34.147	0	39.549	4	0.875	40.6	162.4 OK	24%
Rohn-L3	Rohn-LC2P	0	0	0	0	0	49.616	49.616	4	0.875	40.6	162.4 OK	31%
Rohn-L3	Rohn-LC21	23.834	49.756	0	43.058	0	0	49.756	4	0.875	40.6	162.4 OK	31%
Rohn-L3	Rohn-LC22	24.067	0	49.783	0	42.95	0	49.783	4	0.875	40.6	162.4 OK	31%
Rohn-L3	Rohn-LC3P	0	0	0	0	0	63.24	63.24	4	0.875	40.6	162.4 OK	39%
Rohn-L3	Rohn-LC31	30.324	63.434	0	54.85	0	0	63.434	4	0.875	40.6	162.4 OK	39%
Rohn-L3	Rohn-LC32	30.504	0	63.369	0	54.666	0	63.369	4	0.875	40.6	162.4 OK	39%

Rohn-L4	Rohn-LD1P	0	0	0	0	0	77.52	77.52	4	1	53	212 OK	37%
Rohn-L4	Rohn-LD11	37.384	77.728	0	67.265	0	0	77.728	4	1	53	212 OK	37%
Rohn-L4	Rohn-LD12	37.645	0	77.73	0	67.135	0	77.73	4	1	53	212 OK	37%
Rohn-L4	Rohn-LD2P	0	0	0	0	0	92.759	92.759	4	1	53	212 OK	44%
Rohn-L4	Rohn-LD21	44.646	92.927	0	80.358	0	0	92.927	4	1	53	212 OK	44%
Rohn-L4	Rohn-LD22	44.968	0	92.978	0	80.246	0	92.978	4	1	53	212 OK	44%
Rohn-L4	Rohn-LD3P	0	0	0	0	0	109.448	109.448	4	1	53	212 OK	52%
Rohn-L4	Rohn-LD31	53.182	109.722	0	94.994	0	0	109.722	4	1	53	212 OK	52%
Rohn-L4	Rohn-LD32	53.493	0	109.749	0	94.858	0	109.749	4	1	53	212 OK	52%
Rohn-L5	Rohn-LE1P	0	0	0	0	0	123.139	123.139	4	1	53	212 OK	58%
Rohn-L5	Rohn-LE11	59.91	123.351	0	106.809	0	0	123.351	4	1	53	212 OK	58%
Rohn-L5	Rohn-LE12	60.236	0	123.389	0	106.676	0	123.389	4	1	53	212 OK	58%
Rohn-L5	Rohn-LE2P	0	0	0	0	0	136.363	136.363	4	1	53	212 OK	64%
Rohn-L5	Rohn-LE21	66.505	136.571	0	118.283	0	0	136.571	4	1	53	212 OK	64%
Rohn-L5	Rohn-LE22	66.808	0	136.575	0	118.124	0	136.575	4	1	53	212 OK	64%
Rohn-L5	Rohn-LE3P	0	0	0	0	0	149.74	149.74	4	1	53	212 OK	71%
Rohn-L5	Rohn-LE31	73.271	149.932	0	129.956	0	0	149.932	4	1	53	212 OK	71%
Rohn-L5	Rohn-LE32	73.691	0	150.057	0	129.869	0	150.057	4	1	53	212 OK	71%
Rohn-L6	Rohn-LF1P	0	0	0	0	0	168.17	168.17	6	1	53	318 OK	53%
Rohn-L6	Rohn-LF11	82.359	168.362	0	145.923	0	0	168.362	6	1	53	318 OK	53%
Rohn-L6	Rohn-LF12	82.64	0	168.332	0	145.689	0	168.332	6	1	53	318 OK	53%
Rohn-L6	Rohn-LF2P	0	0	0	0	0	189.868	189.868	6	1	53	318 OK	60%
Rohn-L6	Rohn-LF21	93.387	190.015	0	164.79	0	0	190.015	6	1	53	318 OK	60%
Rohn-L6	Rohn-LF22	93.698	0	190.001	0	164.565	0	190.001	6	1	53	318 OK	60%
Rohn-L7	Rohn-LG1P	0	0	0	0	0	209.98	209.98	6	1	53	318 OK	66%
Rohn-L7	Rohn-LG11	103.297	210.148	0	182.269	0	0	210.148	6	1	53	318 OK	66%
Rohn-L7	Rohn-LG12	103.599	0	210.117	0	182.002	0	210.117	6	1	53	318 OK	66%
Rohn-L7	Rohn-LG2P	0	0	0	0	0	229.354	229.354	6	1	53	318 OK	72%
Rohn-L7	Rohn-LG21	113.159	229.543	0	199.142	0	0	229.543	6	1	53	318 OK	72%
Rohn-L7	Rohn-LG22	113.365	0	229.392	0	198.799	0	229.392	6	1	53	318 OK	72%
Rohn-L7	Rohn-LH1P	0	0	0	0	0	248.08	248.08	6	1	53	318 OK	78%
Rohn-L7	Rohn-LH11	122.383	248.247	0	215.39	0	0	248.247	6	1	53	318 OK	78%
Rohn-L7	Rohn-LH12	122.655	0	248.154	0	215.082	0	248.154	6	1	53	318 OK	78%
Rohn-L7	Rohn-LH2P	0	0	0	0	0	267.443	267.443	6	1	53	318 OK	84.10%
Rohn-L7	Rohn-LH21	132.224	267.604	0	232.272	0	0	267.604	6	1	53	318 OK	84.15%
Rohn-L7	Rohn-LH22	132.51	0	267.513	0	231.962	0	267.513	6	1	53	318 OK	84.12%
Rohn-L8	Rohn-LI1P	0	0	0	0	0	284.562	284.562	8	1	53	424 OK	67%
Rohn-L8	Rohn-LI11	140.643	284.715	0	247.133	0	0	284.715	8	1	53	424 OK	67%
Rohn-L8	Rohn-LI12	140.949	0	284.634	0	246.827	0	284.634	8	1	53	424 OK	67%
Rohn-L8	Rohn-LI2P	0	0	0	0	0	299.567	299.567	8	1	53	424 OK	71%
Rohn-L8	Rohn-LI21	148.151	299.715	0	260.19	0	0	299.715	8	1	53	424 OK	71%
Rohn-L8	Rohn-LI22	148.469	0	299.638	0	259.884	0	299.638	8	1	53	424 OK	71%

SNB-L1	SNB-LA1P	0	0	0	0	0	0.175	0.175					84%
SNB-L1	SNB-LA11	0	0	0	0	0	0	0					
SNB-L1	SNB-LA12	0	0	0.204	0	0.173	0	0.204					
SNB-L1	SNB-LA2P	0	0	0	0	0	1.265	1.265					
SNB-L1	SNB-LA21	0.543	1.36	0	1.113	0	0	1.36					
SNB-L1	SNB-LA22	0.542	0	1.262	0	0.987	0	1.262					
SNB-L1	SNB-LA3P	0	0	0	0	0	3.664	3.664					
SNB-L1	SNB-LA31	1.706	3.84	0	3.295	0	0	3.84					
SNB-L1	SNB-LA32	1.715	0	3.639	0	3.043	0	3.639					
SNB-L1	SNB-LA4P	0	0	0	0	0	6.836	6.836			Bolt Tension	Factored Tensile	
SNB-L1	SNB-LA41	3.05	6.723	0	5.859	0	0	6.723			Capacity	Capacity	Cap Percentage
SNB-L1	SNB-LA42	3.162	0	6.949	0	6.047	0	6.949	# Bolts	Dia Bolt	LRFD		
SNB-L2	SNB-LB1P	0	0	0	0	0	10.924	10.924	4	0.75	29.8	119.2 OK	9%
SNB-L2	SNB-LB11	5.154	11.149	0	9.651	0	0	11.149	4	0.75	29.8	119.2 OK	9%
SNB-L2	SNB-LB12	5.245	0	11.143	0	9.587	0	11.143	4	0.75	29.8	119.2 OK	9%
SNB-L2	SNB-LB2P	0	0	0	0	0	17.03	17.03	4	0.75	29.8	119.2 OK	14%
SNB-L2	SNB-LB21	8.248	17.175	0	14.859	0	0	17.175	4	0.75	29.8	119.2 OK	14%
SNB-L2	SNB-LB22	8.359	0	17.168	0	14.784	0	17.168	4	0.75	29.8	119.2 OK	14%
SNB-L2	SNB-LB3P	0	0	0	0	0	24.207	24.207	4	0.75	29.8	119.2 OK	20%
SNB-L2	SNB-LB31	11.845	24.369	0	21.133	0	0	24.369	4	0.75	29.8	119.2 OK	20%
SNB-L2	SNB-LB32	11.993	0	24.363	0	21.041	0	24.363	4	0.75	29.8	119.2 OK	20%
SNB-L2	SNB-LB4P	0	0	0	0	0	31.664	31.664	4	0.75	29.8	119.2 OK	27%
SNB-L2	SNB-LB41	15.618	31.896	0	27.696	0	0	31.896	4	0.75	29.8	119.2 OK	27%
SNB-L2	SNB-LB42	15.803	0	31.904	0	27.599	0	31.904	4	0.75	29.8	119.2 OK	27%
SNB-L2	SNB-LC1P	0	0	0	0	0	41.432	41.432	4	0.875	40.6	162.4 OK	26%
SNB-L2	SNB-LC11	20.491	41.737	0	36.21	0	0	41.737	4	0.875	40.6	162.4 OK	26%
SNB-L2	SNB-LC12	20.69	0	41.75	0	36.112	0	41.75	4	0.875	40.6	162.4 OK	26%
SNB-L2	SNB-LC2P	0	0	0	0	0	55.894	55.894	4	0.875	40.6	162.4 OK	34%
SNB-L2	SNB-LC21	27.606	56.104	0	48.71	0	0	56.104	4	0.875	40.6	162.4 OK	35%
SNB-L2	SNB-LC22	27.833	0	56.11	0	48.587	0	56.11	4	0.875	40.6	162.4 OK	35%
SNB-L2	SNB-LC3P	0	0	0	0	0	69.32	69.32	4	0.875	40.6	162.4 OK	43%
SNB-L2	SNB-LC31	34.38	69.393	0	60.316	0	0	69.393	4	0.875	40.6	162.4 OK	43%
SNB-L2	SNB-LC32	34.663	0	69.408	0	60.174	0	69.408	4	0.875	40.6	162.4 OK	43%
SNB-L3	SNB-LD1P	0	0	0	0	0	85.465	85.465	4	1	53	212 OK	40%
SNB-L3	SNB-LD11	42.393	85.595	0	74.35	0	0	85.595	4	1	53	212 OK	40%
SNB-L3	SNB-LD12	42.707	0	85.626	0	74.21	0	85.626	4	1	53	212 OK	40%
SNB-L3	SNB-LD2P	0	0	0	0	0	106.052	106.052	4	1	53	212 OK	50%
SNB-L3	SNB-LD21	52.664	106.256	0	92.295	0	0	106.256	4	1	53	212 OK	50%
SNB-L3	SNB-LD22	52.985	0	106.269	0	92.131	0	106.269	4	1	53	212 OK	50%
SNB-L3	SNB-LD3P	0	0	0	0	0	123.904	123.904	4	1	53	212 OK	58%
SNB-L3	SNB-LD31	61.874	124.169	0	107.911	0	0	124.169	4	1	53	212 OK	59%
SNB-L3	SNB-LD32	62.212	0	124.176	0	107.731	0	124.176	4	1	53	212 OK	59%

SNB-L4	SNB-LE1P	0	0	0	0	0	145.588	145.588	4	1	53	212 OK	69%
SNB-L4	SNB-LE11	72.584	145.812	0	126.699	0	0	145.812	4	1	53	212 OK	69%
SNB-L4	SNB-LE12	72.966	0	145.844	0	126.519	0	145.844	4	1	53	212 OK	69%
SNB-L4	SNB-LE2P	0	0	0	0	0	171.097	171.097	4	1	53	212 OK	81%
SNB-L4	SNB-LE21	85.41	171.323	0	148.884	0	0	171.323	4	1	53	212 OK	81%
SNB-L4	SNB-LE22	85.809	0	171.33	0	148.663	0	171.33	4	1	53	212 OK	81%
SNB-L4	SNB-LE3P	0	0	0	0	0	190.836	190.836	4	1	53	212 OK	90%
SNB-L4	SNB-LE31	95.634	191.056	0	166.104	0	0	191.056	4	1	53	212 OK	90%
SNB-L4	SNB-LE32	95.978	0	191.009	0	165.844	0	191.009	4	1	53	212 OK	90%
SNB-L4	SNB-LF1P	0	0	0	0	0	215.579	215.579	6	1	53	318 OK	68%
SNB-L4	SNB-LF11	107.641	215.797	0	187.515	0	0	215.797	6	1	53	318 OK	68%
SNB-L4	SNB-LF12	108.006	0	215.746	0	187.229	0	215.746	6	1	53	318 OK	68%
SNB-L4	SNB-LF2P	0	0	0	0	0	244.856	244.856	6	1	53	318 OK	77%
SNB-L4	SNB-LF21	122.568	245.079	0	213.056	0	0	245.079	6	1	53	318 OK	77%
SNB-L4	SNB-LF22	122.933	0	245.003	0	212.733	0	245.003	6	1	53	318 OK	77%
SNB-L5	SNB-LG1P	0	0	0	0	0	274.497	274.497	6	1	53	318 OK	86%
SNB-L5	SNB-LG11	137.317	274.712	0	238.804	0	0	274.712	6	1	53	318 OK	86%
SNB-L5	SNB-LG12	137.685	0	274.634	0	238.469	0	274.634	6	1	53	318 OK	86%
SNB-L5	SNB-LG2P	0	0	0	0	0	307.203	307.203	6	1	53	318 OK	96.60%
SNB-L5	SNB-LG21	154.035	307.405	0	267.358	0	0	307.405	6	1	53	318 OK	96.67%
SNB-L5	SNB-LG22	154.464	0	307.342	0	267.003	0	307.342	6	1	53	318 OK	96.65%
SNB-L5	SNB-LH1P	0	0	0	0	0	337.988	337.988	6	1	53	318 No Good - Replace Bolt	106%
SNB-L5	SNB-LH11	169.299	338.182	0	294.091	0	0	338.182	6	1	53	318 No Good - Replace Bolt	106%
SNB-L5	SNB-LH12	169.739	0	338.122	0	293.733	0	338.122	6	1	53	318 No Good - Replace Bolt	106%
SNB-L5	SNB-LH2P	0	0	0	0	0	369.807	369.807	6	1	53	318 No Good - Replace Bolt	116%
SNB-L5	SNB-LH21	185.64	369.997	0	321.885	0	0	369.997	6	1	53	318 No Good - Replace Bolt	116%
SNB-L5	SNB-LH22	186.092	0	369.928	0	321.51	0	369.928	6	1	53	318 No Good - Replace Bolt	116%
SNB-L6	SNB-LI1P	0	0	0	0	0	402.128	402.128	8	1	53	424 OK	95%
SNB-L6	SNB-LI11	201.804	402.309	0	350.012	0	0	402.309	8	1	53	424 OK	95%
SNB-L6	SNB-LI12	202.272	0	402.24	0	349.63	0	402.24	8	1	53	424 OK	95%
SNB-L6	SNB-LI2P	0	0	0	0	0	438.404	438.404	8	1	53	424 No Good - Replace Bolt	103%
SNB-L6	SNB-LI21	220.514	438.578	0	381.735	0	0	438.578	8	1	53	424 No Good - Replace Bolt	103%
SNB-L6	SNB-LI22	221.001	0	438.51	0	381.346	0	438.51	8	1	53	424 No Good - Replace Bolt	103%

Replaced Existing A325 Bolts with A490 Bolts

											Bolt Tension Capacity	Factored Tensile Capacity	
									# Bolts	Dia Bolt	LRFD		Cap Percentage
SNB-L5	SNB-LH1P	0	0	0	0	0	337.988	337.988	6	1	66.6	399.6 OK	85%
SNB-L5	SNB-LH11	169.299	338.182	0	294.091	0	0	338.182	6	1	66.6	399.6 OK	85%
SNB-L5	SNB-LH12	169.739	0	338.122	0	293.733	0	338.122	6	1	66.6	399.6 OK	85%
SNB-L5	SNB-LH2P	0	0	0	0	0	369.807	369.807	6	1	66.6	399.6 OK	93%
SNB-L5	SNB-LH21	185.64	369.997	0	321.885	0	0	369.997	6	1	66.6	399.6 OK	93%
SNB-L5	SNB-LH22	186.092	0	369.928	0	321.51	0	369.928	6	1	66.6	399.6 OK	93%
SNB-L6	SNB-LI1P	0	0	0	0	0	402.128	402.128	8	1	66.6	532.8 OK	75%
SNB-L6	SNB-LI11	201.804	402.309	0	350.012	0	0	402.309	8	1	66.6	532.8 OK	76%
SNB-L6	SNB-LI12	202.272	0	402.24	0	349.63	0	402.24	8	1	66.6	532.8 OK	75%
SNB-L6	SNB-LI2P	0	0	0	0	0	438.404	438.404	8	1	66.6	532.8 OK	82%
SNB-L6	SNB-LI21	220.514	438.578	0	381.735	0	0	438.578	8	1	66.6	532.8 OK	82%
SNB-L6	SNB-LI22	221.001	0	438.51	0	381.346	0	438.51	8	1	66.6	532.8 OK	82%

CONNECTION BETWEEN TOWERS EVALUATION

AECOM

				Page	of
Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Sheet	of
Description	Tower to Tower Connection Force	Computed by	MCD	Date	07/31/19
	TIA-222-G All Load Cases and with Ice Forces	Checked by		Date	

SUMMARY OF CONNECTION FORCES FOR ALL WIND ANGLES AND LOAD COMBINATIONS

Loads Without Ice (V.asd wind Speed = 101 MPH)

Wind Angle	Force @ "Connection"	
0 Deg	7.1481	kips
+60 Deg	5.5872	kips
−60 Deg	5.5922	kips
+90 Deg	6.0271	kips
−90 Deg	6.0291	kips

Loads With Design Ice 2.25 inch ("V" wind Speed = 50 MPH)

Wind Angle	Force @ "Connection"	
0 Deg	8.9903	kips
+60 Deg	8.1373	kips
−60 Deg	8.1383	kips
+90 Deg	8.6773	kips
−90 Deg	8.6823	kips

AECOM

Job Description	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich Tower Connection - TIA-222-G Loads on Conection	Project No. Computed by Checked by	Revision 4 MCD	Page Sheet 1 of 1 Date 07/31/19 Date	of

Bolt Diameter $Dia_{bolt} := \frac{3}{4}in$

Bolt Shear Capacity $Capacity_{bolt} := 6.64kip$ Per AISC 15th Edition p. 7-24 for 3/4" A325 slip critical bolt (Considered as Long Slotted Hole) - LRFD

Shear Plane Area $Area_{plate} := \frac{3}{8}in \cdot \left(\frac{3}{4}in + 1in\right)$ $Area_{plate} = 0.6563in^2$

Yield Strength of Plate $Fy_{plate} := 36ksi$ $\phi := 1.0$ LRFD Reduction Factor - AISC Chapter J

Plate Capacity $Capacity_{plate} := 0.6Area_{plate} \cdot Fy_{plate} \cdot \phi$ $Capacity_{plate} = 14.175kip$

U-Bolt Size $Dia_{ubolt} := \frac{1}{2}in$

U-Bolt Area $Area_{ubolt} := 2 \cdot \pi \left(\frac{Dia_{ubolt}}{2}\right)^2$ $Area_{ubolt} = 0.3927in^2$

$Fy_{ubolt} := 58ksi$

$\phi := 0.75$ LRFD Reduction Factor - AISC Chapter J

$Capacity_{ubolt} := \left(0.75Area_{ubolt} \cdot Fy_{ubolt}\right) \cdot \phi$ $Capacity_{ubolt} = 12.8118kip$

Connection Capacity $Capacity_{connection} := \min\left(Capacity_{bolt}, Capacity_{plate}, Capacity_{ubolt}\right)$

$Capacity_{connection} = 6.64kip$

Max Connection Spacing $Spacing := 5ft$

Connection Capacity per Foot $Capacity_{LF} := \frac{Capacity_{connection}}{Spacing}$ $Capacity_{LF} = 1.328\frac{kip}{ft}$

Max Connection Force (Tension): $F_{max} := 8.9903kip$ NOTE: Force obtained from TIA-222-G Load Combination #3 (PLS-TOWER program)

Connection Spacing in PLS-Tower $Spacing_{PLS.Tower} := 10ft$

Connection Force per Foot $Force_{LF} := \frac{F_{max}}{Spacing_{PLS.Tower}}$ $Force_{LF} = 0.899 \cdot kip$

Percent Capacity $Percent_{capacity} := \frac{Force_{LF}}{Capacity_{LF}}$ $Percent_{capacity} = 67.7 \cdot \%$

FOUNDATION EVALUATION

AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page / Sheet	of / of
Description	Overturning Moment Calculation	Computed by	MCD	Date	07/31/19
	TIA-222-G Load Case #2	Checked by		Date	

From PLS-Tower Output Summary

Summary of Joint Support Reactions For All Load Cases:

	Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
"-90"	2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	-0.64	3.89	14.64	3.95	-0.36	-0.21	0.01	0.42	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	-0.26	6.4	13.63	6.41	0.64	-0.37	0.05	0.74	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	10.99	22.09	295.57	24.67	-3.91	2.44	0.01	4.61	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	-10.29	20.94	-265.94	23.33	-3.7	-2.04	0.02	4.23	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	18.56	38.53	426.37	42.77	-9.48	6.04	-0.03	11.24	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	-18.3	38.08	-398.37	42.25	-9.08	-5.44	-0.02	10.59	0
"-60"	2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	-14.32	3.35	175.32	14.71	-0.21	-2.73	0.01	2.74	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	-24.45	5.46	249.58	25.05	0.73	-6.59	0.05	6.63	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	4.76	13.82	175.56	14.61	-2.32	1.45	0.01	2.74	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	-13.59	22.96	-306.61	26.68	-4.14	-2.56	0.01	4.87	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	7.53	23.93	249.98	25.09	-5.34	3.94	-0.05	6.64	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	-24.08	41.7	-457.94	48.16	-10.53	-6.08	0	12.16	0
"0"	2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	-29.23	0.11	347.71	29.23	-0.06	-5.45	-0.01	5.45	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	-50.83	0	503.36	50.83	0	-13.3	0	13.3	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	-9.58	-10.2	-151.56	13.99	1.95	-1.46	0	2.44	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	-9.78	10.11	-151.89	14.07	-1.9	-1.56	-0.01	2.46	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	-17.53	-18.77	-230.61	25.69	5.49	-2.76	-0.03	6.14	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	-17.55	18.81	-231.11	25.72	-5.5	-2.77	0.03	6.16	0
"60"	2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	-14.35	-3.24	175.73	14.71	0.16	-2.73	-0.02	2.74	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	-24.49	-5.46	250.14	25.09	-0.73	-6.6	-0.05	6.64	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	-13.5	-23.01	-306.69	26.68	4.17	-2.51	-0.01	4.86	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	4.66	-13.85	175.23	14.61	2.35	1.4	-0.01	2.73	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	-24.08	-41.7	-458.01	48.16	10.54	-6.08	0	12.16	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	7.51	-23.9	249.49	25.05	5.33	3.94	0.05	6.63	0
"90"	2: 0.9D + 1.0Dg + 1.6Wo	RohnJP	-0.67	-3.89	15.12	3.95	0.36	-0.22	-0.01	0.42	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-JP	-0.3	-6.4	14.26	6.41	-0.65	-0.39	-0.05	0.75	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ1	-10.3	-20.95	-266.25	23.34	3.7	-2.04	-0.02	4.23	0
	2: 0.9D + 1.0Dg + 1.6Wo	RohnJ2	10.98	-22.07	295.4	24.66	3.91	2.44	-0.01	4.61	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J1	-18.31	-38.1	-398.77	42.27	9.09	-5.44	0.01	10.6	0
	2: 0.9D + 1.0Dg + 1.6Wo	SNB-J2	18.55	-38.51	426.13	42.75	9.47	6.04	0.03	11.24	0
"0.9*DL"	0.9DL	RohnJP	-0.8	0	14.92	0.8	0	-0.21	0	0.21	0
	0.9DL	SNB-JP	-0.41	0	13.89	0.41	0	-0.36	0	0.36	0
	0.9DL	RohnJ1	0.4	0.69	14.77	0.8	-0.18	0.1	0	0.21	0
	0.9DL	RohnJ2	0.4	-0.69	14.84	0.8	0.18	0.1	0	0.21	0
	0.9DL	SNB-J1	0.21	0.35	13.71	0.41	-0.31	0.18	0	0.35	0
	0.9DL	SNB-J2	0.21	-0.36	13.78	0.41	0.31	0.18	0	0.36	0

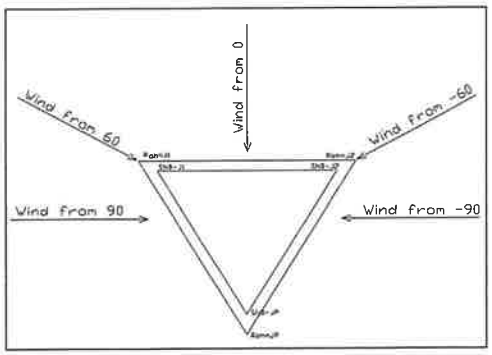
AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	TIA-222-G Load Case #2	Checked by		Date	07/31/19
				Date	

Load Case	Joint Label	Vert. Tower Forces (k)	Leg Moment Arm (ft)	Moment (ft-k)	Total Moment (ft-k)	Shear (k)	Total Shear (k)
-90 deg	RohnJP	-0.28	0.00	0.00	14183.0	3.95	143.4
-90 deg	SNB-JP	-0.26	0.00	0.00		6.41	
-90 deg	RohnJ1	280.8	11.42	3206.74		24.67	
-90 deg	RohnJ2	-280.78	-11.42	3206.51		23.33	
-90 deg	SNB-J1	412.66	9.42	3887.26		42.77	
-90 deg	SNB-J2	-412.15	-9.42	3882.45		42.25	
-60 deg	RohnJP	160.4	6.60	1058.64	14056.3	14.71	154.3
-60 deg	SNB-JP	235.69	5.44	1282.15		25.05	
-60 deg	RohnJ1	160.79	6.60	1061.21		14.61	
-60 deg	RohnJ2	-321.45	-13.18	4236.71		26.68	
-60 deg	SNB-J1	236.27	5.44	1285.31		25.09	
-60 deg	SNB-J2	-471.72	-10.88	5132.31		48.16	
0 deg	RohnJP	332.79	13.18	4386.17	14571.1	29.23	159.5
0 deg	SNB-JP	489.47	10.88	5325.43		50.83	
0 deg	RohnJ1	-166.33	-6.60	1097.78		13.99	
0 deg	RohnJ2	-166.73	-6.60	1100.42		14.07	
0 deg	SNB-J1	-244.32	-5.44	1329.10		25.69	
0 deg	SNB-J2	-244.89	-5.44	1332.20		25.72	
+60 deg	RohnJP	160.81	6.60	1061.35	14056.5	14.71	154.3
+60 deg	SNB-JP	236.25	5.44	1285.20		25.09	
+60 deg	RohnJ1	-321.46	-13.18	4236.84		26.68	
+60 deg	RohnJ2	160.39	6.60	1058.57		14.61	
+60 deg	SNB-J1	-471.72	-10.88	5132.31		48.16	
+60 deg	SNB-J2	235.71	5.44	1282.26		25.05	
+90 deg	RohnJP	0.2	0.00	0.00	14183.1	3.95	143.4
+90 deg	SNB-JP	0.37	0.00	0.00		6.41	
+90 deg	RohnJ1	-281.02	-11.42	3209.25		23.34	
+90 deg	RohnJ2	280.56	11.42	3204.00		24.66	
+90 deg	SNB-J1	-412.48	-9.42	3885.56		42.27	
+90 deg	SNB-J2	412.35	9.42	3884.34		42.75	

Forces taken from PLS-Tower output with 0.9*DL Only load case subtracted from Vertical Tower Forces

Dimensions taken from CAD drawing



AECOM

Job Description	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich Overturning Moment Calculation TIA-222-G Load Case #3	Project No. Computed by Checked by	Revision 4 MCD	Page Sheet Date Date	of of 07/31/19

From PLS-Tower Output Summary

Summary of Joint Support Reactions For All Load Cases:

	Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
"-90"	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJP	-1.09	1.54	188.79	1.88	0.03	1.15	0.01	1.15	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-JP	2.4	2.16	218.94	3.23	0.44	3.46	0.02	3.49	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ1	4.68	9.53	294.91	10.62	-0.37	0.28	0	0.46	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ2	-3.59	7.64	82.38	8.44	-2.38	-1.4	0	2.76	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J1	5.44	11.56	372.08	12.78	-0.31	0.47	-0.01	0.56	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J2	-7.84	15.73	65.45	17.57	-6.35	-3.89	-0.01	7.45	0
"-60"	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJP	-6.57	1.32	250.15	6.7	0.05	0.22	0.01	0.23	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-JP	-6.32	1.86	307.44	6.59	0.41	1.17	0.02	1.24	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ1	2.19	6.32	249.93	6.69	0.23	-0.05	0	0.24	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ2	-4.95	8.53	66	9.86	-2.6	-1.51	0	3	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J1	1.56	6.4	307.18	6.59	1.22	-0.23	-0.02	1.25	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J2	-9.92	17.19	41.85	19.85	-6.98	-4.03	0	8.05	0
"0"	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJP	-12.28	-0.01	313.75	12.28	0	-0.73	0	0.73	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-JP	-15.27	0	398.14	15.27	0	-1.19	0	1.19	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ1	-3.35	-3.15	127.28	4.6	1.82	-1.02	0	2.08	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ2	-3.33	3.16	127.4	4.59	-1.82	-1.01	0	2.08	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J1	-7.28	-8.83	129.15	11.44	5.18	-2.58	-0.01	5.79	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J2	-7.28	8.83	129.26	11.44	-5.18	-2.57	0.01	5.79	0
"60"	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJP	-6.57	-1.33	250.22	6.7	-0.05	0.22	-0.01	0.23	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-JP	-6.33	-1.86	307.54	6.59	-0.41	1.17	-0.02	1.24	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ1	-4.96	-8.52	65.81	9.86	2.59	-1.52	0	3	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ2	2.19	-6.31	250.05	6.68	-0.23	-0.04	0	0.24	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J1	-9.93	-17.19	41.64	19.85	6.98	-4.03	0	8.06	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J2	1.56	-6.4	307.29	6.58	-1.23	-0.23	0.01	1.25	0
"90"	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJP	-1.09	-1.53	188.88	1.88	-0.04	1.15	-0.01	1.15	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-JP	2.4	-2.16	219.05	3.22	-0.44	3.46	-0.02	3.49	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ1	-3.59	-7.65	82.15	8.45	2.38	-1.4	0	2.76	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	RohnJ2	4.68	-9.53	295.06	10.62	0.36	0.28	0	0.46	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J1	-7.85	-15.73	65.18	17.58	6.35	-3.9	0.01	7.45	0
	3: 1.2D + 1.0Dg + 1.0 Di + 1.0 Wi + 1.0 Ti	SNB-J2	5.44	-11.56	372.23	12.78	0.31	0.47	0.01	0.56	0
"1.2*DL"	1.2*DL	RohnJP	-2.09	0	30.92	2.09	0	-0.35	0	0.35	0
	1.2*DL	SNB-JP	-0.06	0	18.69	0.06	0	-0.67	0	0.67	0
	1.2*DL	RohnJ1	1.05	1.81	30.73	2.09	-0.3	0.17	0	0.34	0
	1.2*DL	RohnJ2	1.05	-1.81	30.92	2.09	0.3	0.17	0	0.35	0
	1.2*DL	SNB-J1	0.03	0.05	18.46	0.06	-0.58	0.33	0	0.67	0
	1.2*DL	SNB-J2	0.03	-0.05	18.66	0.06	0.58	0.34	0	0.67	0

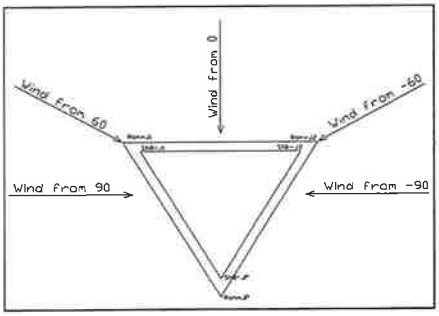
AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	TIA-222-G Load Case #3	Checked by		Date	07/31/19
				Date	

Load Case	Joint Label	Vert. Tower Forces (k)	Leg Moment Arm (ft)	Moment (ft-k)	Total Moment (ft-k)	Shear (k)	Total Shear (k)
-90 deg	RohnJP	157.87	0.00	0.00	5319.6	1.88	54.5
-90 deg	SNB-JP	200.25	0.00	0.00		3.23	
-90 deg	RohnJ1	264.18	11.42	3016.94		10.62	
-90 deg	RohnJ2	51.46	-11.42	-587.67		8.44	
-90 deg	SNB-J1	353.62	9.42	3331.10		12.78	
-90 deg	SNB-J2	46.79	-9.42	-440.76		17.57	
-60 deg	RohnJP	219.23	6.60	1446.92	5320.4	6.70	56.3
-60 deg	SNB-JP	288.75	5.44	1570.80		6.59	
-60 deg	RohnJ1	219.2	6.60	1446.72		6.69	
-60 deg	RohnJ2	35.08	-13.18	-462.35		9.86	
-60 deg	SNB-J1	288.72	5.44	1570.64		6.59	
-60 deg	SNB-J2	23.19	-10.88	-252.31		19.85	
0 deg	RohnJP	282.83	13.18	3727.70	5378.3	12.28	59.6
0 deg	SNB-JP	379.45	10.88	4128.42		15.27	
0 deg	RohnJ1	96.55	-6.60	-637.23		4.60	
0 deg	RohnJ2	96.48	-6.60	-636.77		4.59	
0 deg	SNB-J1	110.69	-5.44	-602.15		11.44	
0 deg	SNB-J2	110.6	-5.44	-601.66		11.44	
+60 deg	RohnJP	219.3	6.60	1447.38	5320.6	6.70	56.3
+60 deg	SNB-JP	288.85	5.44	1571.34		6.59	
+60 deg	RohnJ1	35.08	-13.18	-462.35		9.86	
+60 deg	RohnJ2	219.13	6.60	1446.26		6.68	
+60 deg	SNB-J1	23.18	-10.88	-252.20		19.85	
+60 deg	SNB-J2	288.63	5.44	1570.15		6.58	
+90 deg	RohnJP	157.96	0.00	0.00	5319.8	1.88	54.5
+90 deg	SNB-JP	200.36	0.00	0.00		3.22	
+90 deg	RohnJ1	51.42	-11.42	-587.22		8.45	
+90 deg	RohnJ2	264.14	11.42	3016.48		10.62	
+90 deg	SNB-J1	46.72	-9.42	-440.10		17.58	
+90 deg	SNB-J2	353.57	9.42	3330.63		12.78	

Forces taken from PLS-Tower output with 1.2*DL Only load case subtracted from Vertical Tower Forces

Dimensions taken from CAD drawing



AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	TIA-222-G Load Case #4	Checked by		Date	07/31/19
				Date	

From PLS-Tower Output Summary

Summary of Joint Support Reactions For All Load Cases:

	Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
"-90"	4: 1.2D + 1.0Dg + 1.0E	RohnJP	-1.07	0.1	19.89	1.07	0.04	-0.28	0	0.28	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-JP	-0.55	0.15	18.52	0.57	0.18	-0.48	0.01	0.51	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ1	1.14	2.02	38.37	2.32	-0.43	0.29	0	0.52	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ2	-0.07	0.19	1.1	0.2	0.04	-0.01	0	0.04	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J1	1.29	2.37	44.84	2.7	-0.89	0.62	0	1.08	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J2	-0.74	1.43	-8.19	1.61	-0.07	-0.14	0	0.15	0
"-60"	4: 1.2D + 1.0Dg + 1.0E	RohnJP	-1.79	0.09	30.67	1.79	0.04	-0.42	0	0.42	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-JP	-1.79	0.13	33.86	1.8	0.15	-0.82	0.01	0.84	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ1	0.84	1.58	30.47	1.79	-0.33	0.25	0	0.42	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ2	-0.21	0.33	-1.79	0.39	0	-0.01	0	0.01	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J1	0.79	1.61	33.62	1.79	-0.63	0.55	-0.01	0.84	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J2	-0.97	1.68	-12.3	1.94	-0.19	-0.11	0	0.22	0
"0"	4: 1.2D + 1.0Dg + 1.0E	RohnJP	-2.52	0	41.46	2.52	0	-0.56	0	0.56	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-JP	-3.04	0	49.2	3.04	0	-1.17	0	1.17	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ1	0.11	0.32	8.9	0.34	-0.09	0.11	0	0.14	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ2	0.1	-0.33	8.99	0.34	0.1	0.1	0	0.14	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J1	-0.46	-0.54	2.94	0.71	-0.03	0.2	-0.01	0.2	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J2	-0.45	0.54	3.04	0.71	0.03	0.2	0.01	0.2	0
"60"	4: 1.2D + 1.0Dg + 1.0E	RohnJP	-1.79	-0.08	30.67	1.79	-0.04	-0.42	0	0.42	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-JP	-1.79	-0.12	33.86	1.8	-0.16	-0.82	-0.01	0.84	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ1	-0.21	-0.34	-1.89	0.39	0	-0.01	0	0.01	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ2	0.84	-1.58	30.56	1.79	0.33	0.25	0	0.42	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J1	-0.97	-1.68	-12.4	1.94	0.19	-0.11	0	0.22	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J2	0.79	-1.61	33.72	1.8	0.63	0.55	0.01	0.84	0
"90"	4: 1.2D + 1.0Dg + 1.0E	RohnJP	-1.07	-0.1	19.89	1.07	-0.04	-0.28	0	0.28	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-JP	-0.55	-0.14	18.52	0.57	-0.18	-0.48	-0.01	0.51	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ1	-0.07	-0.19	1	0.2	-0.04	-0.01	0	0.04	0
	4: 1.2D + 1.0Dg + 1.0E	RohnJ2	1.14	-2.02	38.46	2.32	0.43	0.29	0	0.52	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J1	-0.74	-1.43	-8.29	1.61	0.07	-0.14	0	0.16	0
	4: 1.2D + 1.0Dg + 1.0E	SNB-J2	1.29	-2.37	44.95	2.7	0.89	0.62	0	1.08	0
"1.2*DL"	1.2*DL	RohnJP	-1.07	0	19.88	1.07	0	-0.28	0	0.28	0
	1.2*DL	SNB-JP	-0.55	0	18.52	0.55	0	-0.48	0	0.48	0
	1.2*DL	RohnJ1	0.53	0.92	19.69	1.06	-0.24	0.14	0	0.27	0
	1.2*DL	RohnJ2	0.53	-0.92	19.78	1.06	0.24	0.14	0	0.27	0
	1.2*DL	SNB-J1	0.27	0.47	18.28	0.55	-0.41	0.24	0	0.47	0
	1.2*DL	SNB-J2	0.28	-0.47	18.38	0.55	0.41	0.24	0	0.47	0

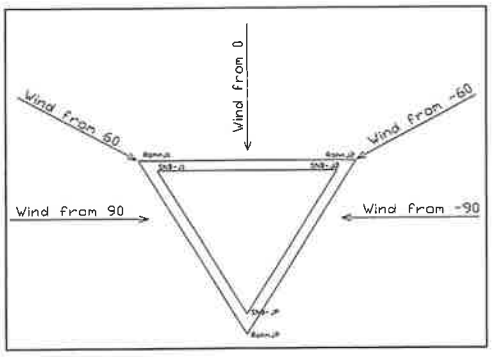
AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	TIA-222-G Load Case #4	Checked by		Date	07/31/19
				Date	

Load Case	Joint Label	Vert. Tower Forces (k)	Leg Moment Arm (ft)	Moment (ft-k)	Total Moment (ft-k)	Shear (k)	Total Shear (k)
-90 deg	RohnJP	0.01	0.00	0.00	927.1	1.07	8.5
-90 deg	SNB-JP	0	0.00	0.00		0.57	
-90 deg	RohnJ1	18.68	11.42	213.33		2.32	
-90 deg	RohnJ2	-18.68	-11.42	213.33		0.20	
-90 deg	SNB-J1	26.56	9.42	250.20		2.70	
-90 deg	SNB-J2	-26.57	-9.42	250.29		1.61	
-60 deg	RohnJP	10.79	6.60	71.21	927.4	1.79	9.5
-60 deg	SNB-JP	15.34	5.44	83.45		1.80	
-60 deg	RohnJ1	10.78	6.60	71.15		1.79	
-60 deg	RohnJ2	-21.57	-13.18	284.29		0.39	
-60 deg	SNB-J1	15.34	5.44	83.45		1.79	
-60 deg	SNB-J2	-30.68	-10.88	333.80		1.94	
0 deg	RohnJP	21.58	13.18	284.42	927.6	2.52	7.7
0 deg	SNB-JP	30.68	10.88	333.80		3.04	
0 deg	RohnJ1	-10.79	-6.60	71.21		0.34	
0 deg	RohnJ2	-10.79	-6.60	71.21		0.34	
0 deg	SNB-J1	-15.34	-5.44	83.45		0.71	
0 deg	SNB-J2	-15.34	-5.44	83.45		0.71	
+60 deg	RohnJP	10.79	6.60	71.21	927.5	1.79	9.5
+60 deg	SNB-JP	15.34	5.44	83.45		1.80	
+60 deg	RohnJ1	-21.58	-13.18	284.42		0.39	
+60 deg	RohnJ2	10.78	6.60	71.15		1.79	
+60 deg	SNB-J1	-30.68	-10.88	333.80		1.94	
+60 deg	SNB-J2	15.34	5.44	83.45		1.80	
+90 deg	RohnJP	0.01	0.00	0.00	927.3	1.07	8.5
+90 deg	SNB-JP	0	0.00	0.00		0.57	
+90 deg	RohnJ1	-18.69	-11.42	213.44		0.20	
+90 deg	RohnJ2	18.68	11.42	213.33		2.32	
+90 deg	SNB-J1	-26.57	-9.42	250.29		1.61	
+90 deg	SNB-J2	26.57	9.42	250.29		2.70	

Forces taken from PLS-Tower output with 1.2*DL Only load case subtracted from Vertical Tower Forces

Dimensions taken from CAD drawing



AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	TIA-222-G Load Case #5	Checked by		Date	07/31/19
				Date	

From PLS-Tower Output Summary

Summary of Joint Support Reactions For All Load Cases:

	Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
"-90"	5: 0.9D + 1.0Dg + 1.0E	RohnJP	-0.8	0.1	14.92	0.81	0.04	-0.21	0	0.21	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-JP	-0.41	0.15	13.89	0.44	0.18	-0.36	0.01	0.4	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ1	1	1.79	33.42	2.06	-0.37	0.25	0	0.45	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ2	-0.21	0.41	-3.82	0.46	-0.02	-0.04	0	0.05	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J1	1.22	2.26	40.24	2.57	-0.78	0.56	0	0.96	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J2	-0.81	1.55	-12.75	1.75	-0.17	-0.2	0	0.26	0
"-60"	5: 0.9D + 1.0Dg + 1.0E	RohnJP	-1.53	0.09	25.69	1.53	0.03	-0.35	0	0.35	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-JP	-1.66	0.13	29.21	1.66	0.15	-0.7	0.01	0.72	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ1	0.71	1.35	25.54	1.52	-0.27	0.22	0	0.35	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ2	-0.34	0.56	-6.7	0.66	-0.06	-0.04	0	0.07	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J1	0.72	1.49	29.02	1.66	-0.53	0.49	-0.01	0.72	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J2	-1.04	1.8	-16.85	2.08	-0.3	-0.17	0	0.34	0
"0"	5: 0.9D + 1.0Dg + 1.0E	RohnJP	-2.25	0	36.46	2.25	0	-0.49	0	0.49	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-JP	-2.9	0	44.53	2.9	0	-1.05	0	1.05	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ1	-0.03	0.09	4	0.1	-0.04	0.07	0	0.08	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ2	-0.03	-0.1	4.06	0.1	0.04	0.07	0	0.08	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J1	-0.52	-0.66	-1.61	0.84	0.07	0.14	-0.01	0.15	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J2	-0.52	0.66	-1.54	0.84	-0.07	0.14	0.01	0.16	0
"60"	5: 0.9D + 1.0Dg + 1.0E	RohnJP	-1.53	-0.08	25.69	1.53	-0.04	-0.35	0	0.35	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-JP	-1.66	-0.13	29.21	1.66	-0.16	-0.7	-0.01	0.72	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ1	-0.34	-0.56	-6.77	0.66	0.06	-0.04	0	0.07	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ2	0.71	-1.35	25.6	1.53	0.27	0.22	0	0.35	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J1	-1.04	-1.8	-16.93	2.08	0.3	-0.17	0	0.34	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J2	0.72	-1.49	29.1	1.66	0.53	0.49	0.01	0.72	0
"90"	5: 0.9D + 1.0Dg + 1.0E	RohnJP	-0.8	-0.1	14.92	0.81	-0.04	-0.21	0	0.21	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-JP	-0.41	-0.14	13.89	0.44	-0.18	-0.36	-0.01	0.4	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ1	-0.21	-0.42	-3.89	0.46	0.02	-0.05	0	0.05	0
	5: 0.9D + 1.0Dg + 1.0E	RohnJ2	1.01	-1.8	33.49	2.06	0.37	0.25	0	0.45	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J1	-0.81	-1.55	-12.83	1.75	0.17	-0.2	0	0.26	0
	5: 0.9D + 1.0Dg + 1.0E	SNB-J2	1.22	-2.26	40.31	2.57	0.78	0.56	0	0.96	0
"0.9*DL"	0.9DL	RohnJP	-0.8	0	14.92	0.8	0	-0.21	0	0.21	0
	0.9DL	SNB-JP	-0.41	0	13.89	0.41	0	-0.36	0	0.36	0
	0.9DL	RohnJ1	0.4	0.69	14.77	0.8	-0.18	0.1	0	0.21	0
	0.9DL	RohnJ2	0.4	-0.69	14.84	0.8	0.18	0.1	0	0.21	0
	0.9DL	SNB-J1	0.21	0.35	13.71	0.41	-0.31	0.18	0	0.35	0
	0.9DL	SNB-J2	0.21	-0.36	13.78	0.41	0.31	0.18	0	0.36	0

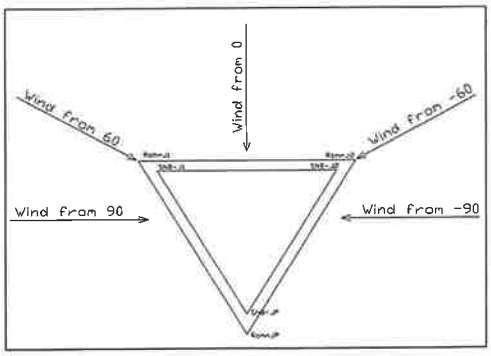
AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	TIA-222-G Load Case #5	Checked by		Date	07/31/19
				Date	

Load Case	Joint Label	Vert. Tower Forces (k)	Leg Moment Arm (ft)	Moment (ft-k)	Total Moment (ft-k)	Shear (k)	Total Shear (k)
-90 deg	RohnJP	0	0.00	0.00	925.9	0.81	8.1
-90 deg	SNB-JP	0	0.00	0.00		0.44	
-90 deg	RohnJ1	18.65	11.42	212.98		2.06	
-90 deg	RohnJ2	-18.66	-11.42	213.10		0.46	
-90 deg	SNB-J1	26.53	9.42	249.91		2.57	
-90 deg	SNB-J2	-26.53	-9.42	249.91		1.75	
-60 deg	RohnJP	10.77	6.60	71.08	925.9	1.53	9.1
-60 deg	SNB-JP	15.32	5.44	83.34		1.66	
-60 deg	RohnJ1	10.77	6.60	71.08		1.52	
-60 deg	RohnJ2	-21.54	-13.18	283.90		0.66	
-60 deg	SNB-J1	15.31	5.44	83.29		1.66	
-60 deg	SNB-J2	-30.63	-10.88	333.25		2.08	
0 deg	RohnJP	21.54	13.18	283.90	926.2	2.25	7.0
0 deg	SNB-JP	30.64	10.88	333.36		2.90	
0 deg	RohnJ1	-10.77	-6.60	71.08		0.10	
0 deg	RohnJ2	-10.78	-6.60	71.15		0.10	
0 deg	SNB-J1	-15.32	-5.44	83.34		0.84	
0 deg	SNB-J2	-15.32	-5.44	83.34		0.84	
+60 deg	RohnJP	10.77	6.60	71.08	926.0	1.53	9.1
+60 deg	SNB-JP	15.32	5.44	83.34		1.66	
+60 deg	RohnJ1	-21.54	-13.18	283.90		0.66	
+60 deg	RohnJ2	10.76	6.60	71.02		1.53	
+60 deg	SNB-J1	-30.64	-10.88	333.36		2.08	
+60 deg	SNB-J2	15.32	5.44	83.34		1.66	
+90 deg	RohnJP	0	0.00	0.00	926.0	0.81	8.1
+90 deg	SNB-JP	0	0.00	0.00		0.44	
+90 deg	RohnJ1	-18.66	-11.42	213.10		0.46	
+90 deg	RohnJ2	18.65	11.42	212.98		2.06	
+90 deg	SNB-J1	-26.54	-9.42	250.01		1.75	
+90 deg	SNB-J2	26.53	9.42	249.91		2.57	

Forces taken from PLS-Tower output with 0.9*DL Only load case subtracted from Vertical Tower Forces

Dimensions taken from CAD drawing



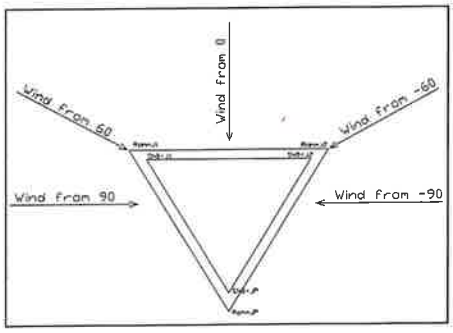
AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Overturning Moment Calculation	Computed by	MCD	Sheet	of
	Maximum Forces - All 5 Load Cases	Checked by		Date	07/31/19
				Date	

Load Case	Load Case 1 Total Moment (ft-k)	Load Case 1 Total Shear (k)	Load Case 2 Total Moment (ft-k)	Load Case 2 Total Shear (k)	Load Case 3 Total Moment (ft-k)	Load Case 3 Total Shear (k)	Load Case 4 Total Moment (ft-k)	Load Case 4 Total Shear (k)	Load Case 5 Total Moment (ft-k)	Load Case 5 Total Shear (k)
Wo -90 deg	14201	143.5	14183	143.4	5320	54.5	927.1	8.5	925.9	8.1
Wo -60 deg	14074	154.7	14056.3	154.3	5320	56.3	927.4	9.5	925.9	9.1
Wo 0 deg	14589	159.2	14576.1	159.5	5378	59.6	927.6	7.7	926.2	7
Wo 60 deg	14074	154.7	14056.5	154.3	5321	56.3	927.5	9.5	926	9.1
Wo 90 deg	14201	143.4	14183.1	143.4	5320	54.5	927.3	8.5	926	8.1

Maximum Moment = 14589 kip*ft

Maximum Shear = 159.5 kip



AECOM

				Page	of
Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Sheet 1	of 7
Description	Foundation Analysis (TIA-222-G)	Computed by	MCD	Date	07/31/19
		Checked by		Date	

PIER AND MAT FOUNDATION ANALYSIS - 3 PIERS

TOWER FORCES:

Moment Caused by Tower	$M_t := 14589\,kip\cdot ft$
Shear at Base of Tower	$S_t := 159.5\,kip$
Max Compressive Force	$C_t := 814\,kip$
Max Uplift	$U_t := 738\,kip$
Height of Tower	$H_t := 180\,ft$
Width of Tower at Base	$W_t := 22.833\,ft$
Weight of Tower	$WT_{t\_0.9} := 86.21\,kip$
	$WT_{t\_1.2} := 114.95\,kip$

NOTE: Information for "Weight of Tower" obtained from Load Combination Calculation Excel Sheets Summation of Factored DL.

FOOTING DIMENSIONS:

Width of Footing	$W_f := 36.5\,ft$
Overall Depth of Footing	$D_f := 3.5ft$
Thickness of Footing	$T_f := 6.0\,ft$
Reinforement Cover:	$Cvr := 3in$

MATERIAL PROPERTIES:

Compressive Strength of Concrete	$f'c := 3000\,psi$	Unit Weight of Soil	$\gamma_s := 130\,pcf$
Yield Strength of Steel Reinforcement	$fy := 60000\,psi$	Unit Weight of Concrete	$\gamma_c := 150\,pcf$
Internal Friction Angle of Soil	$\phi_s := 36\,deg$	Depth to Neglect	$n := 0\,ft$
Allowable Bearing Capacity	$q_s := 4000\,psf$	Cohesion of Clay Type Soil Note: Use 0 for Sandy Soil	$c := 0\,ksf$
Ultimate Bearing Capacity	$R_s := 2 \cdot q_s$		

Coefficient of Lateral Soil Pressure $K_p := \frac{1 + \sin(\phi_s)}{1 - \sin(\phi_s)}$ $K_p = 3.8518$

What is Position of Center of Tower with respect to Center of Pad? 1=Offset, 2=Not Offset $Pos_{tower} := 2$

STEEL REINFORCING:

PAD REINFORCEMENT (Considering Uplift Moment Resistance):

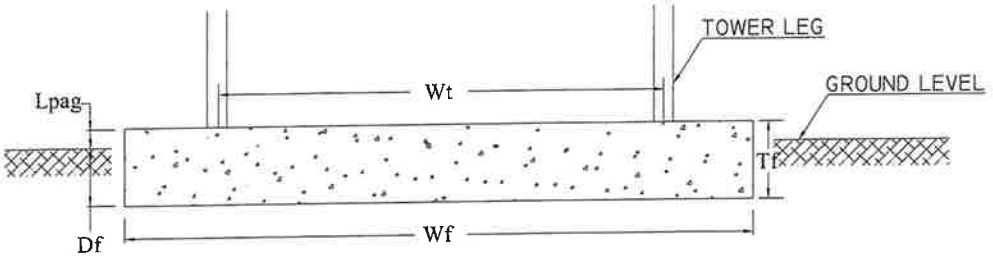
Bar Size	$BS_{pad} := 8$	Bar Diameter	$d_{bpad} := 1.00\,in$
Number of Bars	$NB_{pad} := 44$	Bar Area	$A_{bpad} := 0.95\,in^2$

NOTE: Area is for #8 @ 10in for uplift control ONLY.

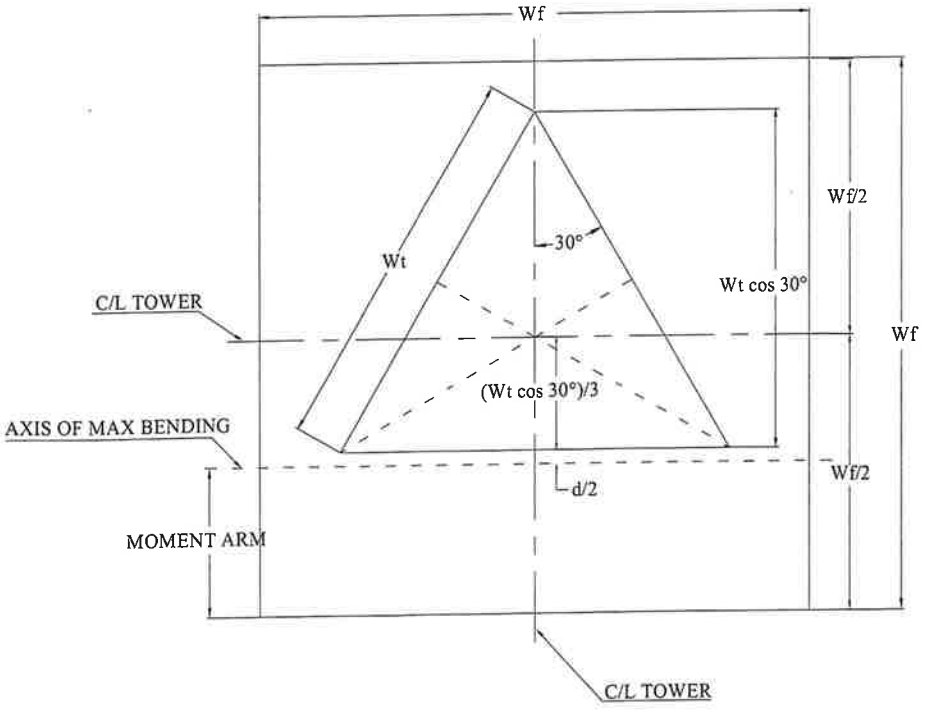
AECOM

Job Description	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich Foundation Analysis (TIA-222-G)	Project No. Computed by Checked by	Revision 4 MCD	Page Sheet 2 of 7 Date 07/31/19 Date	of

FOUNDATION OVERVIEW



ELEVATION



PLAN

AECOM

				Page	of
Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Sheet 3	of 7
Description	Foundation Analysis (TIA-222-G)	Computed by	MCD	Date	07/31/19
		Checked by		Date	

STABILITY OF FOOTING

NOTE: Reduction factor is implemented as 0.75 for pull-out/uplift of foundation. Reduction factor shall be applied to Overturning Moment in this case

Passive Pressure:

$P_{pn} := K_p \cdot \gamma_s \cdot n + c \cdot 2 \cdot \sqrt{K_p}$ $\quad P_{pn} = 0 \cdot ksf$

$P_{pt} := K_p \cdot \gamma_s \cdot (D_f - T_f) + c \cdot 2 \cdot \sqrt{K_p}$ $\quad P_{pt} = -1.2518 \cdot ksf$

$P_{top} := if[n < (D_f - T_f), P_{pt}, P_{pn}]$ $\quad P_{top} = 0 \cdot ksf$

$P_{bot} := K_p \cdot \gamma_s \cdot D_f + c \cdot 2 \cdot \sqrt{K_p}$ $\quad P_{bot} = 1.7526 \cdot ksf$

$P_{ave} := \frac{P_{top} + P_{bot}}{2}$ $\quad P_{ave} = 0.8763 \cdot ksf$

Shear:

$T_{pp} := if[n < (D_f - T_f), T_f, (D_f - n)]$ $\quad T_{pp} = 3.5 \cdot ft$

$A_{pp} := W_f \cdot T_{pp}$ $\quad A_{pp} = 127.75 \cdot ft^2$

Ultimate Shear:

$S_u := P_{ave} \cdot A_{pp}$ $\quad S_u = 111.9465 \cdot kip$

Weight of Concrete Pad:

$WT_c := \left(W_f^2 \cdot T_f\right) \cdot \gamma_c$ $\quad WT_c = 1199.025 \cdot kip$

Weight of Soil: above Footing:

$WT_{s1} := 0$ $\quad WT_{s1} = 0 \cdot kip$

Weight of Soil Wedge at back face:

$WT_{s2} := \left[\frac{(D_f - n)^2 \cdot \tan(\phi_s)}{2} \cdot W_f\right] \cdot \gamma_s$ $\quad WT_{s2} = 21.1156 \cdot kip$

Distance to center of Tower Leg from Edge of Footing:

$X_{t1} := \frac{W_f}{2} - \frac{W_t \cdot \cos(30 \cdot deg)}{2}$ $\qquad X_{t2} := \frac{W_f}{2} - \frac{W_t \cdot \cos(30 \cdot deg)}{3}$

$X_t := if(Pos_{tower} = 1, X_{t1}, X_{t2})$ $\quad X_t = 11.6587 \cdot ft$

Additional Offset of Footing:

$X_{off1} := \frac{W_f}{2} - \left(\frac{W_t \cdot \cos(30 \cdot deg)}{3} + X_t\right)$ $\qquad X_{off2} := 0$

$X_{off} := if(Pos_{tower} = 1, X_{off1}, X_{off2})$ $\quad X_{off} = 0 \cdot ft$

Resisting Moment:

$M_r := \left[0.9(WT_c + WT_{s1})\right] \cdot \frac{W_f}{2} + \left[WT_{t\_0.9} \cdot \left(\frac{W_f}{2} - X_{off}\right)\right] + 0.90 \cdot \left(S_u \cdot \frac{T_{pp}}{3}\right) \ldots$

$+ WT_{s2} \cdot 0.90 \cdot \left(W_f + \frac{T_{pp} \cdot \tan(\phi_s)}{3}\right)$

$\phi_{OT} := 0.75$ ***ANSI/TIA-222-G REDUCTION FACTOR*** $\quad M_r = 22094.6177 \cdot kip \cdot ft$

Overturning Moment:

$M_{ot} := M_t + S_t \cdot (T_f) + WT_{t\_1.2} \cdot X_{off}$ $\quad M_{ot} = 15546 \cdot kip \cdot ft$

Factor of Safety:

$Ratio_{Stability} := \frac{M_{ot}}{M_r \cdot \phi_{OT}}$ $\quad Ratio_{Stability} = 0.938$

$StabilityCheck := if(M_r \cdot \phi_{OT} > M_{ot}, "Okay", "No Good")$ $\quad StabilityCheck = "Okay"$

BEARING PRESSURE CHECK:

$LOAD_{tot} := (WT_c + WT_{s1}) \cdot 0.9 + WT_{t\_0.9}$ $\quad LOAD_{tot} = 1165.3325 \cdot kip$

$A_{mat} := W_f^2$ $\quad A_{mat} = 1332.25 \cdot ft^2$

$S := \frac{W_f^3}{6}$ $\quad S = 8104.5208 \cdot ft^3$

$P_{max} := \frac{LOAD_{tot}}{A_{mat}} + \frac{M_{ot}}{S}$ $\quad P_{max} = 2.7929 \cdot ksf$

$P_{min} := \frac{LOAD_{tot}}{A_{mat}} - \frac{M_{ot}}{S}$ $\quad P_{min} = -1.0435 \cdot ksf$

$MaxPressure := if(P_{max} < 0.75 R_s, "Okay", "No Good")$ $\quad MaxPressure = "Okay"$

$MinPressure := if[(P_{min} \geq 0) \cdot (P_{min} < 0.75 \cdot R_s), "Okay", "No Good"]$ $\quad MinPressure = "No Good"$

Distance to Resultant of Pressure Distribution:

$X_p := \frac{P_{max}}{\frac{P_{max} - P_{min}}{W_f}} \cdot \frac{1}{3}$ $\quad X_p = 8.8574 \cdot ft$

Distance to Kern: $X_k := \frac{W_f}{3}$ $\quad X_k = 12.1667 \cdot ft$

Since Resultant Force is Not in Kern, Area to which Pressure is Applied Must be Reduced.

Eccentricity: $e := \frac{M_{ot}}{LOAD_{tot}}$ $\quad e = 13.3404$

Adjusted Soil Pressure: $q_a := \frac{2 \cdot LOAD_{tot}}{3 \cdot W_f \cdot \left(\frac{W_f}{2} - e\right)}$ $\quad q_a = 4.3353 \cdot ksf$

Revised Maximum: $q_{max} := if(X_p < X_k, q_a, P_{max})$ $\quad q_{max} = 4.3353 \cdot ksf$

$PressureCheck := if(q_{max} < 0.75 \cdot R_s, "Okay", "No Good")$ $\quad PressureCheck = "Okay"$

CHECK PUNCHING AND BEAM SHEAR:

Beam Shear: (Critical section located at a distance d from the face of Pier) (ACI 11.3.1.1)

$\phi_c := 0.75$ (ACI 9.3.2.3)

$T_f := 4ft$ <-- OVERRIDE - Original Footing Thickness

$d := T_f - Cvr - .5 \cdot in$ $d = 44.5 \cdot in$

Factored load: $FL := \frac{C_t}{W_f^2}$ $FL = 0.611 \cdot ksf$

$V_{req} := \frac{FL \cdot (X_t - d) \cdot W_f}{\phi_c}$ $V_{req} = 236.4048 \cdot kip$

ACI 11.3.1.1 $V_{Avail} := 2 \cdot \sqrt{f'c \cdot psi} \cdot W_f \cdot d$ $V_{Avail} = 2135.1321 \cdot kip$

$BeamShearCheck := if(V_{req} < V_{Avail}, "Okay", "No Good")$ BeamShearCheck = "Okay"

Punching Shear: (Critical Section Located at a distance of d/2 from the face of pier) (ACI 11.12.2.1)

$b_o := (d) \cdot \pi$ $b_o = 11.6501 \cdot ft$

$V_{req} := FL \cdot \frac{W_f^2 - (d)^2 \cdot \frac{\pi}{4}}{\phi_c}$ $V_{req} = 1076.5345 \cdot kip$

$V_{Avail} := 4 \cdot \sqrt{f'c \cdot psi} \cdot b_o \cdot d$ $V_{Avail} = 1362.9832 \cdot kip$

$PunchingShearCheck := if(V_{req} < V_{Avail}, "Okay", "No Good")$

PunchingShearCheck = "Okay"

TENSILE REINFORCEMENT IN PAD: $\phi_m := 0.90$ per ACI 9.3.2.2

Applied Moments: ***NOTE: Existing 2 feet of concrete over original foundation considered in uplift reduction for design calculations shown below***

$0.9 \cdot \frac{\gamma_c \cdot (2ft \cdot 32.5ft \cdot 32.5ft)}{3} = 95.0625 \cdot kip$

$M_{nT} := \left[\left(U_t - 95kip\right) \cdot \left(W_t \cdot \sin(60 \cdot deg)\right) + S_t \cdot \left(D_f\right)\right] - WT_{t\_1.2} \cdot X_{off}$ $T_f := 4ft$ <-- OVERRIDE - Previously Modified Thickness

$$M_{nS} := -1 \cdot \left[\frac{1}{2} \cdot \left(\frac{W_f}{2} + \frac{W_t}{3} \cdot \cos(30 \cdot deg)\right)^2 \cdot 0.9 W_t \cdot \left[\gamma_s \cdot \left(T_{pp} - T_f\right)\right] + 0.9 WT_{s2} \cdot \left[\left(\frac{W_f}{2} + \frac{W_t}{3} \cdot \cos(30 \cdot deg)\right) + \left(D_f - n\right) \cdot \tan\left(\phi_s\right)\right]\right]$$

$$M_{nC} := -1 \cdot \left[\frac{1}{2} \cdot \left(\frac{W_f}{2} + \frac{W_t}{3} \cdot \cos(30 \cdot deg)\right)^2 \cdot 0.9 \cdot W_t \cdot \left(\gamma_c \cdot T_f\right)\right]$$ $d := 56.5in$ <-- OVERRIDE - Previously Modified Thickness

Design Moment: $M_n := \frac{M_{nT} + M_{nS} + M_{nC}}{\phi_m}$ $M_n = 10400.3519 \cdot kips \cdot ft$

Required Reinforcement:

ACI 10.2.7.3 $\beta := if\left[f'c \le 4000 \cdot psi, .85, if\left[f'c \ge 8000 \cdot psi, .65, .85 - \left(\frac{\frac{f'c}{psi} - 4000}{1000}\right) \cdot .05\right]\right]$ $\beta = 0.85$

Effective Width: $b_{eff} := W_t \cdot \cos(30 \cdot deg) + 0ft$ $b_{eff} = 237.2875 \cdot in$

$A_s := \frac{M_n}{\phi_m \cdot fy \cdot d}$ $A_s = 40.906 \cdot in^2$

$a := \frac{A_s \cdot fy}{\beta \cdot f'c \cdot b_{eff}}$ $a = 4.0562 \cdot in$

$A_s := \frac{M_n}{fy \cdot \left(d - \frac{a}{2}\right)}$ $A_s = 38.1861 \cdot in^2$

$\rho := \frac{A_s}{b_{eff} \cdot d}$ $\rho = 0.0028$

Temperature and Shrinkage: $\rho_{sh} := if(fy \ge 60000 \cdot psi, 0.0018, 0.0020)$ $\rho_{sh} = 0.0018$

(ACI 7.12.2.1b)

Area Required: $As := if\left(\rho \ge \rho_{sh}, A_s, \rho_{sh} \cdot \frac{b_{eff}}{2} \cdot d\right)$ $As = 38.1861 \cdot in^2$

Area Provided: $As_{prov} := A_{bpad} \cdot NB_{pad}$ $As_{prov} = 41.8 \cdot in^2$

$PadReinforcement := if\left(As_{prov} > As, "Okay", "No Good"\right)$ PadReinforcement = "Okay"

AECOM

Job	180' ROHN SSV Tower w/ SNB Reinf. - Greenwich	Project No.	Revision 4	Page	of
Description	Foundation Analysis (TIA-222-G)	Computed by	MCD	Sheet 7	of 7
		Checked by		Date 07/31/19	Date

DEVELOPMENT LENGTH OF PAD REINFORCEMENT:

TENSION (ACI 12.2.3)

Bar Spacing: $B_{sPad} := \frac{W_f - 2 \cdot Cvr - NB_{pad} \cdot d_{bpad}}{NB_{pad} - 1}$ $B_{sPad} = 9.0233 \cdot in$

Development Length Factors:

Reinforcement Location Factor	$\alpha := 1.0$
Coating Factor	$\beta := 1.0$
Concrete strength Factor	$\lambda := 1.0$
Reinforcement Size Factor	$\gamma := 1.0$

Spacing or Cover Dimension: $c := if\left(Cvr < \frac{B_{sPad}}{2}, Cvr, \frac{B_{sPad}}{2}\right)$ $c = 3 \cdot in$

Transverse Reinforcement Inde As allowed by ACI 12.2.4 $k_{tr} := 0$

Development Length: $L_{dbt} := \frac{3}{40} \cdot \frac{fy}{\sqrt{f'c \cdot psi}} \cdot \frac{\alpha \cdot \beta \cdot \gamma \cdot \lambda}{\frac{c + k_{tr}}{d_{bpad}}} \cdot d_{bpad}$ $L_{dbt} = 27.3861 \cdot in$

$L_{dbmin} := 12 \cdot in$

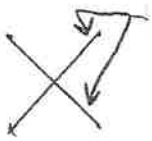
Minimum Development Length: (ACI 12.2.1) $L_{dbtCheck} := if\left(L_{dbt} \geq L_{dbmin}, "Use\ L.dbt", "Use\ L.dbmin"\right)$ $L_{dbtCheck} = "Use\ L.dbt"$

Available Length in Pad: $L_{Pad} := \frac{W_f}{2} - \frac{W_t}{2} - Cvr$ $L_{Pad} = 79.002 \cdot in$

$LpadTension := if\left(L_{Pad} > L_{dbt}, "Okay", "No\ Good"\right)$ LpadTension = "Okay"

AECOM

Job Greenwich CSP Modification Analysis | Project No. Revision 4 | Page 1 of 2
Description Custom Anchorage Design | Computed by MCD | Sheet 1 of 3
Check for Anchor Bolts | Checked by _____ | Date 7/31/19
Reference



Diagonal Members: SNB-D7

- Compression force = 21.355 k:P
- tension force = 21.030 k:P

- Convert to "XY" Plane forces

$\theta = 32.06°$ (CADD measured from PLS-Tower ".dxf" model)

- $21.355\ k:P \cdot \sin(32.06°) = 11.336\ k:PS$
- $21.355\ k:P \cdot \cos(32.06°) = 18.0982\ k:PS$

- for conservative considerations, Assume 18.0982 k:PS is controlling Compressive force.

- Convert to "XY" Plane forces

- $21.030\ k:P \cdot \sin(32.06°) = 11.1628\ k:PS$
- $21.030\ k:P \cdot \cos(32.06°) = 17.8228\ k:PS$

- for conservative considerations, Assume 17.8225 k:PS is controlling tension force

Prior to tower Modification — Bolt shear Check → (1) 3/4 A490N → 22.5 k:PS
Single Shear Assumed

22.5 k:PS > 18.0982 k:PS ∴ Bolt@connection → OK
80.4%

- For Anchorage Details, the following shall apply:
  - V(Shear) = 17.0982 kips (Conservative value) / 4 Anchors = 4.525 kips
  - ↑(Uplift) = 17.8228 kips / 4 Anchors = 4.4557 kips

- Apply (4) HILTI HIT-RE500V3 Epoxy Anchoring System
  - Consider "cracked concrete"
    - for 7/8" ϕ Anchor @ 7 7/8" effective embedment & 5'C concrete = 3000PSI (Hilti table 26)
      - epoxy tension capacity/anchor = 13,375 lbs (Prior to Reduction factor)
      - epoxy shear capacity/anchor = 28,810 lbs (prior to Reduction factor)
    - Apply "HAS-E" Anchor Bolts (table 29) (Steel)
      - Tension capacity/Anchor = 21,755 lbs (LRFD capacity – ACI 17.4.1.2 & 17.3.3)
      - Shear capacity/Anchor = 12,050 lbs (LRFD capacity – ACI 17.5.1.2b)
    - Apply Hilti Reductions to epoxy Anchors [table 39] & S=6in ∴
      - tension capacity = 13,375 lbs × 0.61 = 8,158 lbs/anchor = ϕN_n
      - Shear capacity = 28,810 lbs × 0.55 = 15,845 lbs/anchor = ϕV_n

- Apply Anchors Per Interaction Equation – ACI 17.6.3 & HILTI eq 3.1.6.7

$$\frac{N_{ua}}{\phi N_n} + \frac{V_{ua}}{\phi V_n} \leq 1.2 \rightarrow \left(\frac{4.4557}{8.158}\right) + \left(\frac{4.525}{15,845}\right) \leq 1.2 \rightarrow 0.832 \leq 1.2 \text{ (OK)}$$

$$\left(\frac{4.4557}{8.158}\right) = 0.546 \qquad \left(\frac{4.525}{15,845}\right) = 0.286 \qquad 69.8\%$$

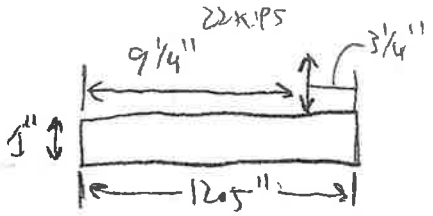
- NOTE: HILTI applications follow the Design criteria from IBC 2015, Section 1901.3 & ACI 318-14
  (Reference: ICC-ES Report "ESR-3814" – January 2017)

AECOM

Job Greenwich CSP Modification Analysis | Project No. Revision 4 | Page 1 of 1
Description Custom Anchorage Design Check | Computed by MCD | Sheet 3 of 3
Baseplate for anchor Bolts | Checked by _____ | Date 7/31/19
Reference

• tension/compression force applied to Baseplate = 22kips

-Per Design Sketch SK-5- Determine Plastic Bending Capacity of Baseplate



$m_{Applied} = \frac{Pab}{l} = \frac{22kips \times 9.25'' \times 3.25''}{12.5''} = 52.91 k\text{-}in$

- Plate Plastic capacity $= m_r = \sigma \times Z = 0.9 \times 50ksi \times \frac{bd^2}{4}$

$= 0.9 \times 50ksi \times \frac{(12.5in)(1in)^2}{4}$

$m_r = 140.625 k\text{-}in$

• Note: plate LTB is NOT considered for plate "minor" axis bend:

$\frac{53 k\text{-}in}{140.625 k\text{-}in} = 37.7\% \therefore$ OK

3.2.4 HIT-RE 500 V3 Epoxy Adhesive Anchoring System

Table 26 - Hilti HIT-RE 500 V3 adhesive design strength with concrete / bond failure for threaded rod in cracked concrete[1,2,3,4,5,6,7,8,9,11]

Nominal anchor diameter in.	Effective embedment in. (mm)	Tension — ΦN_a				Shear — ΦV_a			
		f'_c = 2,500 psi (17.2 MPa) lb (kN)	f'_c = 3,000 psi (20.7 MPa) lb (kN)	f'_c = 4,000 psi (27.6 MPa) lb (kN)	f'_c = 6,000 psi (41.4 MPa) lb (kN)	f'_c = 2,500 psi (17.2 MPa) lb (kN)	f'_c = 3,000 psi (20.7 MPa) lb (kN)	f'_c = 4,000 psi (27.6 MPa) lb (kN)	f'_c = 6,000 psi (41.4 MPa) lb (kN)
3/8	2-3/8 (60)	2,020 (9.0)	2,215 (9.9)	2,500 (11.1)	2,655 (11.8)	2,160 (9.7)	2,365 (10.6)	2,690 (12.0)	2,880 (12.7)
	3-3/8 (86)	3,310 (14.7)	3,400 (15.1)	3,550 (15.8)	3,770 (16.8)	7,125 (31.7)	7,325 (32.6)	7,645 (34.0)	8,125 (36.1)
	4-1/2 (114)	4,410 (19.6)	4,535 (20.2)	4,735 (21.1)	5,030 (22.4)	9,500 (42.3)	9,765 (43.4)	10,195 (45.3)	10,835 (48.2)
	7-1/2 (191)	7,350 (32.7)	7,555 (33.6)	7,890 (35.1)	8,385 (37.3)	15,835 (70.4)	16,275 (72.4)	16,990 (75.6)	18,055 (80.3)
1/2	2-3/4 (70)	2,520 (11.2)	2,760 (12.3)	3,185 (14.2)	3,905 (17.4)	5,425 (24.1)	5,845 (26.4)	6,865 (30.5)	8,405 (37.4)
	4-1/2 (114)	5,275 (23.5)	5,780 (25.7)	6,260 (27.8)	6,655 (29.6)	11,360 (50.5)	12,445 (55.4)	13,485 (60.0)	14,330 (63.7)
	6 (152)	7,780 (34.6)	7,995 (35.6)	8,350 (37.1)	8,870 (39.5)	16,755 (74.5)	17,220 (76.6)	17,960 (80.0)	19,110 (85.0)
	10 (254)	12,985 (57.7)	13,325 (59.3)	13,915 (61.9)	14,785 (65.8)	27,930 (124.2)	28,705 (127.7)	29,970 (133.3)	31,850 (141.7)
5/8	3-1/8 (79)	3,050 (13.6)	3,345 (14.9)	3,860 (17.2)	4,730 (21.0)	6,575 (29.2)	7,200 (32.0)	8,315 (37.0)	10,185 (45.3)
	5-5/8 (143)	7,370 (32.8)	8,075 (35.9)	9,325 (41.5)	10,315 (45.9)	15,875 (70.6)	17,390 (77.4)	20,080 (89.3)	22,215 (98.8)
	7-1/2 (191)	11,350 (50.5)	12,395 (55.1)	12,940 (57.6)	13,755 (61.2)	24,440 (108.7)	26,695 (118.7)	27,875 (124.0)	29,620 (131.8)
	12-1/2 (318)	20,100 (89.4)	20,660 (91.9)	21,570 (95.9)	22,920 (102.0)	43,295 (192.6)	44,495 (197.9)	46,460 (206.7)	49,370 (219.6)
3/4[10]	3-1/2 (89)	3,620 (16.1)	3,965 (17.6)	4,575 (20.4)	5,605 (24.9)	7,790 (34.7)	8,535 (38.0)	9,855 (43.8)	12,070 (53.7)
	6-3/4 (171)	9,690 (43.1)	10,615 (47.2)	12,255 (54.5)	14,735 (65.5)	20,870 (92.8)	22,860 (101.7)	26,395 (117.4)	31,740 (141.2)
	9 (229)	14,920 (66.4)	16,340 (72.7)	18,490 (82.2)	19,650 (87.4)	32,130 (142.9)	35,195 (156.6)	39,820 (177.1)	42,320 (188.2)
	15 (381)	28,715 (127.7)	29,510 (131.3)	30,815 (137.1)	32,745 (145.7)	61,850 (275.1)	63,565 (282.7)	66,370 (295.2)	70,530 (313.7)
7/8[10]	3-1/2 (89)	3,620 (16.1)	3,965 (17.6)	4,575 (20.4)	5,605 (24.9)	7,790 (34.7)	8,535 (38.0)	9,855 (43.8)	12,070 (53.7)
	7-7/8 (200)	12,210 (54.3)	13,375 (59.5)	15,445 (68.7)	18,915 (84.1)	26,300 (117.0)	28,810 (128.2)	33,265 (148.0)	40,740 (181.2)
	10-1/2 (267)	16,800 (83.6)	20,590 (91.6)	23,780 (105.8)	26,530 (118.0)	40,490 (180.1)	44,355 (197.3)	51,215 (227.8)	57,140 (254.2)
	17-1/2 (445)	38,775 (172.5)	39,850 (177.3)	41,605 (185.1)	44,215 (196.7)	83,510 (371.5)	85,825 (381.6)	89,610 (398.6)	95,230 (423.6)
1	4 (102)	4,420 (19.7)	4,840 (21.5)	5,590 (24.9)	6,845 (30.4)	9,520 (42.3)	10,430 (46.4)	12,040 (53.6)	14,750 (65.6)
	9 (229)	14,920 (66.4)	16,340 (72.7)	18,870 (83.9)	23,110 (102.8)	32,130 (142.9)	35,195 (156.6)	40,640 (180.8)	49,775 (221.4)
	12 (305)	22,985 (102.2)	25,160 (111.9)	29,050 (129.2)	34,650 (154.1)	49,465 (220.0)	54,190 (241.0)	62,570 (278.3)	74,630 (332.0)
	20 (508)	49,415 (219.8)	52,045 (231.5)	54,340 (241.7)	57,750 (256.9)	106,435 (473.4)	112,100 (498.6)	117,045 (520.6)	124,385 (553.3)
1-1/4[10]	5 (127)	6,175 (27.5)	6,785 (30.1)	7,815 (34.8)	9,570 (42.6)	13,305 (59.2)	14,575 (64.8)	16,830 (74.9)	20,610 (91.7)
	11-1/4 (286)	20,850 (92.7)	22,840 (101.6)	26,370 (117.3)	32,295 (143.7)	44,905 (199.7)	49,190 (218.8)	56,800 (252.7)	69,565 (309.4)
	15 (381)	32,095 (142.8)	35,160 (156.4)	40,600 (180.6)	49,725 (221.2)	69,135 (307.5)	75,730 (336.9)	87,445 (389.0)	107,100 (476.4)
	25 (635)	69,060 (307.2)	75,665 (336.5)	80,800 (359.4)	85,865 (381.9)	148,750 (661.7)	162,945 (724.8)	174,030 (774.1)	184,945 (822.7)

1 See Section 3.1.8 for explanation on development of load values.
2 See Section 3.1.8.6 to convert design strength value to ASD value.
3 Linear interpolation between embedment depths and concrete compressive strengths is not permitted.
4 Apply spacing, edge distance, and concrete thickness factors in tables 30-41 as necessary to the above values. Compare to the steel values in table 29. The lesser of the values is to be used for the design.
5 Data is for temperature range A: Max. short term temperature = 130°F (55°C), max. long term temperature = 110°F (43°C).
For temperature range B: Max. short term temperature = 176°F (80°C), max. long term temperature = 110°F (43°C) multiply above values by 0.89.
Short term elevated concrete temperatures are those that occur over brief intervals, e.g., as a result of diurnal cycling. Long term concrete temperatures are roughly constant over significant periods of time.
6 Tabular values are for dry or water saturated concrete conditions.
For water-filled drilled holes multiply design strength by 0.51.
For submerged (under water) applications multiply design strength by 0.44.
7 Tabular values are for short term loads only. For sustained loads including overhead use, see Section 3.1.8.8.
8 Tabular values are for normal-weight concrete only. For lightweight concrete multiply design strength by λ_a as follows:
For sand-lightweight, λ_a = 0.51. For all-lightweight, λ_a = 0.45.
9 Tabular values are for holes drilled in concrete with carbide tipped hammer drill bit. Diamond core drilling is not permitted in cracked concrete conditions except as indicated in note 10.
10 Diamond core drilling with Hilti TE-YRT roughening tool is permitted for 3/4", 7/8", and 1 1/4" diameter anchors for dry and water-saturated concrete conditions. See Table 28
11 Tabular values are for static loads only. For seismic loads, multiply cracked concrete tabular values in tension and shear by $\alpha_{eq,s}$ indicated below.
See section 3.1.8.7 for additional information on seismic applications.
3/8-in. diameter - $\alpha_{eq,s}$ = 0.69
1/2-in. diameter - $\alpha_{eq,s}$ = 0.70
5/8-in. diameter - $\alpha_{eq,s}$ = 0.71
3/4-in. diameter and larger - $\alpha_{eq,s}$ = 0.75

HIT-RE 500 V3 Epoxy Adhesive Anchoring System 3.2.4

Table 38 - Load adjustment factors for 7/8-in. diameter threaded rods in uncracked concrete[1,2,3]

7/8-in. uncracked concrete		Spacing factor in tension f_{AN}				Edge distance factor in tension f_{RN}				Spacing factor in shear[4] f_{AV}				Edge distance in shear: ⊥ Toward edge f_{RV}				Edge distance in shear: ∥ To and away from edge f_{RV}				Concrete thickness factor in shear[5] f_{HV}			
Embedment h_{ef}	in. (mm)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)
Spacing (s) / Edge Distance (c_a) / Concrete Thickness (h), - in. (mm)	1-3/4 (44)	n/a	n/a	n/a	n/a	0.39	0.24	0.18	0.10	n/a	n/a	n/a	n/a	0.09	0.03	0.02	0.01	0.18	0.05	0.04	0.02	n/a	n/a	n/a	n/a
	4-3/8 (111)	0.58	0.58	0.57	0.54	0.53	0.31	0.23	0.13	0.58	0.54	0.53	0.52	0.35	0.11	0.07	0.03	0.63	0.22	0.14	0.07	n/a	n/a	n/a	n/a
	5 (127)	0.59	0.59	0.58	0.55	0.56	0.33	0.24	0.13	0.59	0.54	0.53	0.52	0.43	0.13	0.09	0.04	0.70	0.27	0.17	0.08	n/a	n/a	n/a	n/a
	5-1/2 (140)	0.60	0.60	0.59	0.55	0.58	0.34	0.25	0.14	0.60	0.55	0.54	0.52	0.50	0.15	0.10	0.05	0.76	0.31	0.20	0.09	0.65	n/a	n/a	n/a
	6 (152)	0.61	0.61	0.60	0.56	0.61	0.36	0.26	0.15	0.61	0.55	0.54	0.52	0.57	0.17	0.11	0.05	0.83	0.35	0.23	0.11	0.68	n/a	n/a	n/a
	7 (178)	0.63	0.63	0.61	0.57	0.65	0.39	0.28	0.16	0.63	0.56	0.55	0.53	0.71	0.22	0.14	0.07	0.97	0.39	0.29	0.13	0.73	n/a	n/a	n/a
	8 (203)	0.65	0.65	0.63	0.58	0.71	0.42	0.31	0.17	0.65	0.57	0.55	0.53	0.87	0.27	0.17	0.08	1.00	0.42	0.33	0.16	0.78	n/a	n/a	n/a
	9 (229)	0.67	0.67	0.64	0.59	0.76	0.45	0.33	0.18	0.67	0.58	0.56	0.54	1.00	0.32	0.21	0.10		0.45	0.35	0.19	0.83	n/a	n/a	n/a
	9-7/8 (251)	0.69	0.69	0.66	0.59	0.80	0.48	0.35	0.19	0.69	0.59	0.56	0.54		0.37	0.24	0.11		0.48	0.37	0.22	0.87	0.59	n/a	n/a
	10 (254)	0.69	0.69	0.66	0.60	0.81	0.49	0.35	0.19	0.69	0.59	0.57	0.54		0.38	0.24	0.11		0.49	0.37	0.23	0.87	0.59	n/a	n/a
	11 (279)	0.71	0.71	0.67	0.60	0.87	0.52	0.38	0.21	0.71	0.60	0.57	0.54		0.43	0.28	0.13		0.52	0.40	0.26	0.91	0.62	n/a	n/a
	12 (305)	0.73	0.73	0.69	0.61	0.92	0.56	0.40	0.22	0.73	0.60	0.58	0.55		0.49	0.32	0.15		0.56	0.42	0.29	0.95	0.65	n/a	n/a
	12-1/2 (318)	0.74	0.74	0.70	0.62	0.95	0.59	0.41	0.23	0.74	0.61	0.58	0.55		0.52	0.34	0.16		0.59	0.43	0.29	0.97	0.66	0.57	n/a
	14 (356)	0.76	0.76	0.72	0.63	1.00	0.66	0.46	0.25	0.77	0.62	0.59	0.55		0.62	0.40	0.19		0.66	0.47	0.31	1.00	0.70	0.60	n/a
	16 (406)	0.80	0.80	0.75	0.65		0.75	0.52	0.29	0.80	0.64	0.60	0.56		0.76	0.49	0.23		0.75	0.52	0.34		0.75	0.65	n/a
	18 (457)	0.84	0.84	0.79	0.67		0.84	0.59	0.32	0.84	0.66	0.62	0.57		0.91	0.59	0.27		0.84	0.59	0.36		0.79	0.68	n/a
	19-1/2 (495)	0.87	0.87	0.81	0.69		0.92	0.64	0.35	0.87	0.67	0.63	0.58		1.00	0.66	0.31		0.92	0.64	0.38		0.82	0.71	0.55
	20 (508)	0.88	0.88	0.82	0.69		0.94	0.65	0.36	0.88	0.67	0.63	0.58			0.69	0.32		0.94	0.65	0.39		0.83	0.72	0.56
	22 (559)	0.91	0.91	0.85	0.71		1.00	0.72	0.40	0.92	0.69	0.64	0.59			0.80	0.37		1.00	0.72	0.41		0.87	0.76	0.59
	24 (610)	0.95	0.95	0.88	0.73			0.78	0.43	0.96	0.71	0.66	0.59			0.91	0.42			0.78	0.44		0.91	0.79	0.61
	26 (660)	0.99	0.99	0.91	0.75			0.85	0.47	0.99	0.73	0.67	0.60			1.00	0.48			0.85	0.47		0.95	0.82	0.64
	28 (711)	1.00	1.00	0.94	0.77			0.91	0.50	1.00	0.74	0.68	0.61				0.53			0.91	0.50		0.99	0.85	0.66
	30 (762)			0.98	0.79			0.98	0.54		0.76	0.70	0.62				0.59			0.98	0.54		1.00	0.88	0.68
	36 (914)			1.00	0.84			1.00	0.65		0.81	0.73	0.64				0.77			1.00	0.65			0.97	0.75
	> 48 (1219)				0.96				0.86		0.92	0.81	0.69				1.00				0.86			1.00	0.87

Table 39 - Load adjustment factors for 7/8-in. diameter threaded rods in cracked concrete[1,2,3]

7/8-in. cracked concrete		Spacing factor in tension f_{AN}				Edge distance factor in tension f_{RN}				Spacing factor in shear[4] f_{AV}				Edge distance in shear: ⊥ Toward edge f_{RV}				Edge distance in shear: ∥ To and away from edge f_{RV}				Concrete thickness factor in shear[5] f_{HV}			
Embedment h_{ef}	in. (mm)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)	3-1/2 (89)	7-7/8 (200)	10-1/2 (267)	17-1/2 (445)
Spacing (s) / Edge Distance (c_a) / Concrete Thickness (h), - in. (mm)	1-3/4 (44)	n/a	n/a	n/a	n/a	0.42	0.42	0.41	0.38	n/a	n/a	n/a	n/a	0.09	0.03	0.02	0.01	0.18	0.06	0.04	0.02	n/a	n/a	n/a	n/a
	4-3/8 (111)	0.58	0.58	0.57	0.54	0.53	0.53	0.50	0.44	0.58	0.54	0.53	0.52	0.36	0.11	0.07	0.03	0.71	0.22	0.14	0.07	n/a	n/a	n/a	n/a
	5 (127)	0.59	0.59	0.58	0.55	0.56	0.56	0.52	0.45	0.60	0.54	0.53	0.52	0.43	0.13	0.09	0.04	0.87	0.27	0.17	0.08	n/a	n/a	n/a	n/a
	5-1/2 (140)	0.60	0.60	0.59	0.55	0.58	0.58	0.54	0.46	0.61	0.55	0.54	0.52	0.50	0.15	0.10	0.05	1.00	0.31	0.20	0.10	0.65	n/a	n/a	n/a
	6 (152)	0.61	0.61	0.60	0.56	0.61	0.61	0.56	0.47	0.61	0.55	0.54	0.52	0.57	0.18	0.11	0.06		0.35	0.23	0.11	0.68	n/a	n/a	n/a
	7 (178)	0.63	0.63	0.61	0.57	0.65	0.65	0.60	0.49	0.63	0.56	0.55	0.53	0.72	0.22	0.14	0.07		0.44	0.29	0.14	0.73	n/a	n/a	n/a
	8 (203)	0.65	0.65	0.63	0.58	0.71	0.71	0.64	0.52	0.65	0.57	0.55	0.53	0.88	0.27	0.18	0.09		0.54	0.35	0.17	0.78	n/a	n/a	n/a
	9 (229)	0.67	0.67	0.64	0.59	0.76	0.76	0.68	0.54	0.67	0.58	0.56	0.54	1.00	0.32	0.21	0.10		0.65	0.42	0.20	0.83	n/a	n/a	n/a
	9-7/8 (251)	0.69	0.69	0.66	0.59	0.80	0.80	0.72	0.56	0.69	0.59	0.56	0.54		0.37	0.24	0.12		0.74	0.48	0.23	0.87	0.59	n/a	n/a
	10 (254)	0.69	0.69	0.66	0.60	0.81	0.81	0.73	0.56	0.69	0.59	0.57	0.54		0.38	0.25	0.12		0.76	0.49	0.24	0.87	0.59	n/a	n/a
	11 (279)	0.71	0.71	0.67	0.60	0.87	0.87	0.77	0.59	0.71	0.60	0.57	0.54		0.44	0.28	0.14		0.87	0.57	0.28	0.92	0.62	n/a	n/a
	12 (305)	0.73	0.73	0.69	0.61	0.92	0.92	0.82	0.61	0.73	0.60	0.58	0.55		0.50	0.32	0.16		1.00	0.65	0.31	0.96	0.65	n/a	n/a
	12-1/2 (318)	0.74	0.74	0.70	0.62	0.95	0.95	0.84	0.62	0.74	0.61	0.58	0.55		0.53	0.34	0.17			0.69	0.33	0.98	0.66	0.57	n/a
	14 (356)	0.76	0.76	0.72	0.63	1.00	1.00	0.91	0.66	0.77	0.62	0.59	0.56		0.63	0.41	0.20			0.82	0.40	1.00	0.70	0.61	n/a
	16 (406)	0.80	0.80	0.75	0.65			1.00	0.71	0.81	0.64	0.60	0.56		0.77	0.50	0.24			1.00	0.48		0.75	0.65	n/a
	18 (457)	0.84	0.84	0.79	0.67				0.76	0.84	0.66	0.62	0.57		0.91	0.59	0.29				0.58		0.79	0.69	n/a
	19-1/2 (495)	0.87	0.87	0.81	0.69				0.80	0.87	0.67	0.63	0.58		1.00	0.67	0.32				0.65		0.82	0.71	0.56
	20 (508)	0.88	0.88	0.82	0.69				0.82	0.88	0.67	0.63	0.58			0.70	0.34				0.67		0.84	0.72	0.57
	22 (559)	0.91	0.91	0.85	0.71				0.87	0.92	0.69	0.64	0.59			0.80	0.39				0.78		0.88	0.76	0.60
	24 (610)	0.95	0.95	0.88	0.73				0.93	0.96	0.71	0.66	0.60			0.91	0.44				0.89		0.92	0.79	0.62
	26 (660)	0.99	0.99	0.91	0.75				0.99	1.00	0.73	0.67	0.61			1.00	0.50				0.99		0.95	0.82	0.65
	28 (711)	1.00	1.00	0.94	0.77				1.00		0.74	0.68	0.61				0.56				1.00		0.99	0.86	0.67
	30 (762)			0.98	0.79						0.76	0.70	0.62				0.62						1.00	0.89	0.70
	36 (914)			1.00	0.84						0.81	0.74	0.65				0.81							0.97	0.76
	> 48 (1219)				0.96						0.92	0.81	0.69				1.00							1.00	0.88

1 Linear interpolation not permitted.
2 Shaded area with reduced edge distance is permitted provided the installation torque is reduced to 0.30 T_{max} for 5d ≤ s ≤ 16-in. and to 0.5 T_{max} for s > 16-in.
3 When combining multiple load adjustment factors (e.g. for a 4 anchor pattern in a corner with a thin concrete member) the design can become very conservative. To optimize the design, use Hilti PROFIS Anchor Design software or perform anchor calculation using the design equations from ACI 318 Chapter 17.
4 Spacing factor reduction in shear, f_{AV}, assumes an influence of a nearby edge. If no edge exists, then $f_{AV} = f_{AN}$.
5 Concrete thickness reduction factor in shear, f_{HV}, assumes an influence of a nearby edge. If no edge exists, then $f_{HV} = 1.0$.

3.2.4 HIT-RE 500 V3 Epoxy Adhesive Anchoring System

Table 29 - Steel design strength for Hilti HIT-V and HAS threaded rods[1]

Nominal anchor diameter in.	HIT-V ASTM A307 Grade A[2]			HAS-E ISO 898 Class 5.8[2]			HAS-E-B ASTM A193 B7[3]			HAS-R stainless steel ASTM F593 - AISI 304/316 SS[2]		
	Tensile[4] ϕN_{sa} lb (kN)	Shear[5] ϕV_{sa} lb (kN)	Seismic Shear[6] $\phi V_{sa,eq}$ lb (kN)	Tensile[4] ϕN_{sa} lb (kN)	Shear[5] ϕV_{sa} lb (kN)	Seismic Shear[6] $\phi V_{sa,eq}$ lb (kN)	Tensile[4] ϕN_{sa} lb (kN)	Shear[5] ϕV_{sa} lb (kN)	Seismic Shear[6] $\phi V_{sa,eq}$ lb (kN)	Tensile[4] ϕN_{sa} lb (kN)	Shear[5] ϕV_{sa} lb (kN)	Seismic Shear[6] $\phi V_{sa,eq}$ lb (kN)
3/8	3,025 (13.5)	1,675 (7.5)	1,175 (5.2)	3,655 (16.3)	2,020 (9.0)	1,415 (6.3)	7,265 (32.3)	3,775 (16.8)	2,645 (11.8)	5,040 (22.4)	2,790 (12.4)	1,955 (8.7)
1/2	5,535 (24.6)	3,065 (13.6)	2,145 (9.5)	6,690 (29.8)	3,705 (16.5)	2,595 (11.5)	13,300 (59.2)	6,915 (30.8)	4,840 (21.5)	9,225 (41.0)	5,110 (22.7)	3,575 (15.9)
5/8	8,815 (39.2)	4,880 (21.7)	3,415 (15.2)	10,650 (47.4)	5,900 (26.2)	4,130 (18.4)	21,190 (94.3)	11,020 (49.0)	7,715 (34.3)	14,690 (65.3)	8,135 (36.2)	5,695 (25.3)
3/4	13,045 (58.0)	7,225 (32.1)	5,060 (22.5)	15,765 (70.1)	8,730 (38.8)	6,110 (27.2)	31,360 (139.5)	16,305 (72.5)	11,415 (50.8)	18,480 (82.2)	10,235 (45.5)	7,165 (31.9)
7/8	-	-	-	21,755 (96.8)	12,050 (53.6)	8,435 (37.5)	43,285 (192.5)	22,505 (100.1)	15,755 (70.1)	25,510 (113.5)	14,125 (62.8)	9,890 (44.0)
1	23,620 (105.1)	13,085 (58.2)	9,160 (40.7)	28,540 (127.0)	15,805 (70.3)	11,065 (49.2)	56,785 (252.6)	29,525 (131.3)	20,670 (91.9)	33,465 (148.9)	18,535 (82.4)	12,975 (57.7)
1-1/4	-	-	-	45,670 (203.1)	25,295 (112.5)	17,705 (78.8)	90,850 (404.1)	47,240 (210.1)	33,070 (147.1)	53,540 (238.2)	29,655 (131.9)	20,760 (92.3)

[1] See Section 3.1.8.6 to convert design strength value to ASD value.

[2] HIT-V, HAS-E, and HAS-R threaded rods are considered brittle steel elements. HIT-V does not comply with % elongation requirements of ASTM A307 Grade A steel. HAS-E does not comply with % elongation requirements of ISO 898-1.

[3] HAS-E-B7 rods are considered ductile steel elements.

[4] Tensile = $\phi A_{se,N} f_{uta}$ as noted in ACI 318 Chapter 17.

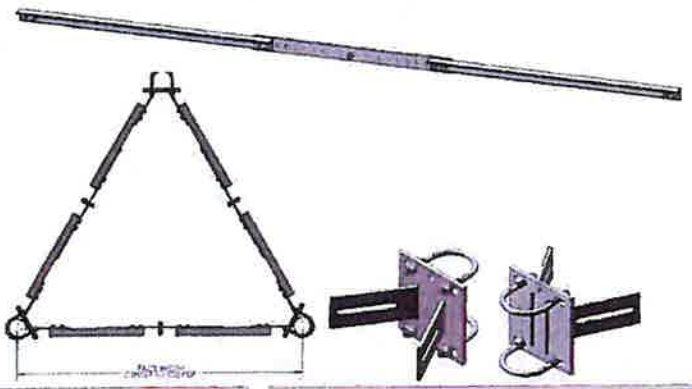
[5] Shear = $\phi 0.60 A_{se,V} f_{uta}$ as noted in ACI 318 Chapter 17.

[6] Seismic Shear = $\alpha_{V,seis} \phi V_{sa}$: Reduction for seismic shear only. See section 3.1.8.7 for additional information on seismic applications.

L=15' +/- ; to be field verified

Tapered Self-Support Tower Sub-Horizontals

- Designed to strengthen tower legs by reducing their KL/r value
- Complete kits contain (6) Angles, (3) Brackets, (3) Center Plates, (6) 5/8" U-bolts, (27) 5/8" Bolts
- All material is minimum A36, Hardware is A325X, Hot-Dip Galvanized
- Connections use Squirter® F959 DTI washers to ensure proper installed bolt tension
- Double bolted angle connections at both ends
- Brackets center themselves on legs with the welded solid rods on backside
- Specify leg butterfly bracket kit + angle / center plate kit [Qty: (3) per Kit]



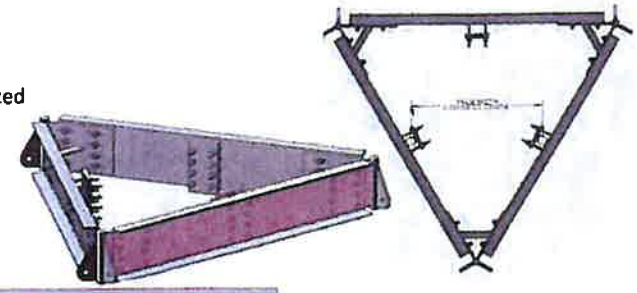
Sub Horizontal Angle & Center Plate						
Mfr	Tower Face Width Range (ft)	Center Plate Size	Sub-Horizontal Size	Φ Pn (kips)	Leg Pu* (kips)	Kit #
Structural Components	5 - 6	3/8" x 3"	2" x 2" x 3/16"	20.00	800	RSH-0605-06
	6 - 7	3/8" x 3"	2" x 2" x 3/16"	18.00	720	RSH-0606-07
	7 - 9	3/8" x 3"	2" x 2" x 1/4"	13.75	550	RSH-0607-09
	9 - 11	3/8" x 3"	2" x 2" x 1/4"	9.50	380	RSH-0609-11
	11 - 13	3/8" x 3"	2-1/2" x 2-1/2" x 1/4"	12.13	485	RSH-0611-13
	13 - 15	1/2" x 4"	2-1/2" x 2-1/2" x 1/4"	8.50	340	RSH-0613-15
	15 - 17	1/2" x 4"	3" x 3" x 1/4"	16.50	660	RSH-0615-17
	17 - 19	1/2" x 4"	3" x 3" x 1/4"	12.50	500	RSH-0617-19
	19 - 21	5/8" x 4"	3-1/2" x 3-1/2" x 1/4"	16.00	640	RSH-0619-21
	21 - 23	5/8" x 4"	3-1/2" x 3-1/2" x 1/4"	12.88	515	RSH-0621-23
	23 - 25	5/8" x 4"	4" x 4" x 1/4"	15.88	635	RSH-0623-25

*CAPACITY BASED ON FULLY LOADING HORIZONTAL WITH 2.5% OF LEG COMPRESSION
NOTE: Order (1) RSH-05##-## kit and (1) RSH-06##-## kit for (1) full sub-horizontal assembly

Leg Butterfly Bracket		
Leg Ø Range (O.D.) (in)	U-Bolt Size	Kit #
1.5 - 2.5	5/8" x 2-9/16"	RSH-0515-25
2.5 - 3.5	5/8" x 3-9/16"	RSH-0525-35
3.5 - 4.5	5/8" x 4-9/16"	RSH-0535-45
4.5 - 6.75	5/8" x 6-13/16"	RSH-0545-68
6.75 - 8.625	5/8" x 8-11/16"	RSH-0568-86
8.625 - 10.75	5/8" x 10-13/16"	RSH-0586-00

Guyed Tower Torque Arm

- Designed to provide torsion resistance to guyed towers when needed
- Kits contain all materials to bolt torque arm onto tower
- All material is minimum A572-50, Hardware is A325X, Hot-Dip Galvanized
- Connections use Squirter F959 DTI washers to ensure proper installed bolt tension
- Fits guyed towers with 1.25" - 3.5" OD Legs
- Add split pipe sleeve kit if tower leg is 2" SCH 40, 2.5" SCH 40 or 3" SCH 40 [Qty: (3) per kit]
- Use split pipe sleeves to avoid crimping thin wall pipe legs



Mfr	Face Width (C-C) (in)	EHS WIRE SIZE									
		< 5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	7/8"	1"
Structural Components	18	RTA-1135-18				RTA-1235-18					
	24	RTA-1135-24				RTA-1235-24				RTA-1335-24	
	30	RTA-1135-30				RTA-1235-30				RTA-1335-30	
	33	RTA-1135-33				RTA-1235-33				RTA-1335-33	
	36	RTA-1235-36								RTA-1335-36	
	39	RTA-1235-39								RTA-1335-39	
	41	RTA-1235-41								RTA-1335-41	
	42	RTA-1235-42								RTA-1335-42	
	45	RTA-1235-45								RTA-1335-45	
	48	RTA-1235-48								RTA-1335-48	
	54	RTA-1235-54								RTA-1335-54	
	57	RTA-1235-57								RTA-1335-57	
	60	RTA-1235-60								RTA-1335-60	
	72	RTA-1235-72								RTA-1335-72	

LIGHT	MEDIUM	HEAVY

Towers with SCH 40 Pipe Legs: Split Pipe Sleeves	
Leg OD	Kit #
2.375"	RGA-1000-23
2.875"	RGA-1000-28
3.5"	RGA-1000-35

About AECOM

AECOM (NYSE: ACM) is a global provider of professional technical and management support services to a broad range of markets, including transportation, facilities, environmental, energy, water and government. With approximately 45,000 employees around the world, AECOM is a leader in all of the key markets that it serves. AECOM provides a blend of global reach, local knowledge, innovation, and collaborative technical excellence in delivering solutions that enhance and sustain the world's built, natural, and social environments. A Fortune 500 company, AECOM serves clients in more than 100 countries and has annual revenue in excess of $6 billion.

More information on AECOM and its services can be found at www.aecom.com.

500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
860-529-8882
Fax: 860-529-3991

ATTACHMENT 5

ADMINISTRATIVE INFORMATION

PARCEL NUMBER
11-1142

Parent Parcel Number

Property Address
BUTTERNUT HOLLOW ROAD 0024

Neighborhood
2800 PARKWAY NORTH

Property Class
430 Hydro Plant

TAXING DISTRICT INFORMATION

Jurisdiction	57	Greenwich, CT
Area	001	
Corporation	057	
District	11	
Section & Plat	259	
Routing Number	1067E0011	

Site Description

Topography:

Public Utilities:
Electric

Street or Road:

Neighborhood:

Zoning:
RA-2 Single Family 2

Legal Acres:
161.9900

OWNERSHIP

AQUARION WATER COMPANY OF
CONNECTICUT
600 LINDLEY STREET
BRIDGEPORT, CT 06606

LOT NO 37 BUTTERNUT HOLLOW RD E 11

Tax ID 199/018 Printed 05/10/2018 Card No. 1 of 1

TRANSFER OF OWNERSHIP

Date		
05/21/2002	CONNECTICUT-AMERICAN WATER CO	Bk/Pg: 3862, 102 $0
04/12/1977	NA	Bk/Pg: 1012, 120 $0

UTILITY

VALUATION RECORD

Assessment Year		11/30/2010	10/01/2012	10/01/2013	10/01/2015	10/01/2015	10/01/2016	10/01/2017
Reason for Change		2010 BAA	2012 List	2013 List	2015 Prelim	2015 Final	2016 List	2017 List
VALUATION	L	6798700	12421000	10239700	9672500	9672500	9672500	9672500
Market	B	6739000	4684700	4039700	5407900	5407900	5407900	5407900
	T	13537700	17105700	14279400	15080400	15080400	15080400	15080400
VALUATION	L	4759090	8694700	7167790	6770750	6770750	6770750	6770750
70% Assessed	B	4717300	3279290	2827790	3785530	3785530	3785530	3785530
	T	9476390	11973990	9995580	10556280	10556280	10556280	10556280

LAND DATA AND CALCULATIONS

	Land Type	Rating Soil ID -or- Actual Frontage	Measured Acreage -or- Effective Frontage	Table Effective Depth	Prod. Factor -or- Depth Factor -or- Square Feet	Base Rate	Adjusted Rate	Extended Value	Influence Factor	Value
1	Primary Commercial		6.5886		1.00	247238.24	247238.24	1629000 0	200%	4887000
2	PA-490 Forest 2		44.6500		1.00	3000.00	3000.00	134000		134000
3	Open Space AQ		110.7500		1.00	42000.00	42000.00	4651500		4651500

BA10: Reduce unit val on Forest Land (21) frm $25,600/ac to $3,000/ac
BP12: 11-1118 ($521k) instl recycle line frm dwtrg bldg to plant wtr intk line, new gen, modif for effluent dschrg, 7 gas unit htrs, 2 oil tnks, piping. Chg eyb frm 2000 to 2005. Remaining is PP.
BP15: 15-0965 - nvc $157,090 Roof & elec
DBA: Water Treatment Facility; surface reservoir apprx. 80% of parcel
GEN: 2012 val mthd chg per LE (see land, RV12, & VO memos).
LAND: For 10/12 redef com'l portion of land, forest land and open spc Previously, per 10/5/04 Forest Land Application, revised 148.48 acres of OpenSpace (with a -40% wetlands influence factor) to 110.75 acres of Open Space (with no influence factor) and 51.24 acres of Forest Land - TG/RCS, 11/17/04.
O/O: Owner-Occupied Commercial
P: 20 spcs

Permit Number / Type	FilingDate	Est. Cost / Est. SqFt	Field Visit

Supplemental Cards

TRUE TAX VALUE 9672500

Supplemental Cards
TOTAL LAND VALUE 9672500

IMPROVEMENT DATA

PHYSICAL CHARACTERISTICS

ROOFING

Built-up

WALLS

	B	1	2	U
Frame		Yes		
Brick				
Metal				
Guard				

FRAMING

	B	1	2	U
R Conc	0	2592	0	0

FINISH

	UF	SF	FO	FD
1	0	0	0	2592
Total	0	0	0	2592

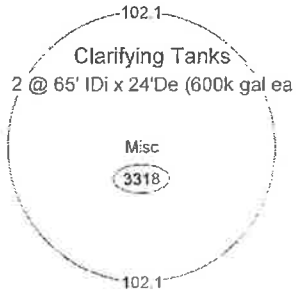
HEATING AND AIR CONDITIONING

	B	1	2	U
Heat	0	2592	0	0

Dewatering Bldg.

01 02 03 04

Water Treatment Plant
w/ max design capacity of
2.3 MGD



08 09

1 Thickening Tank samas clarifying tanks 06

2- 540k gal retention basins 07

(LCM: 150.00)

SPECIAL FEATURES

Description	Value
C : Remod 2012	

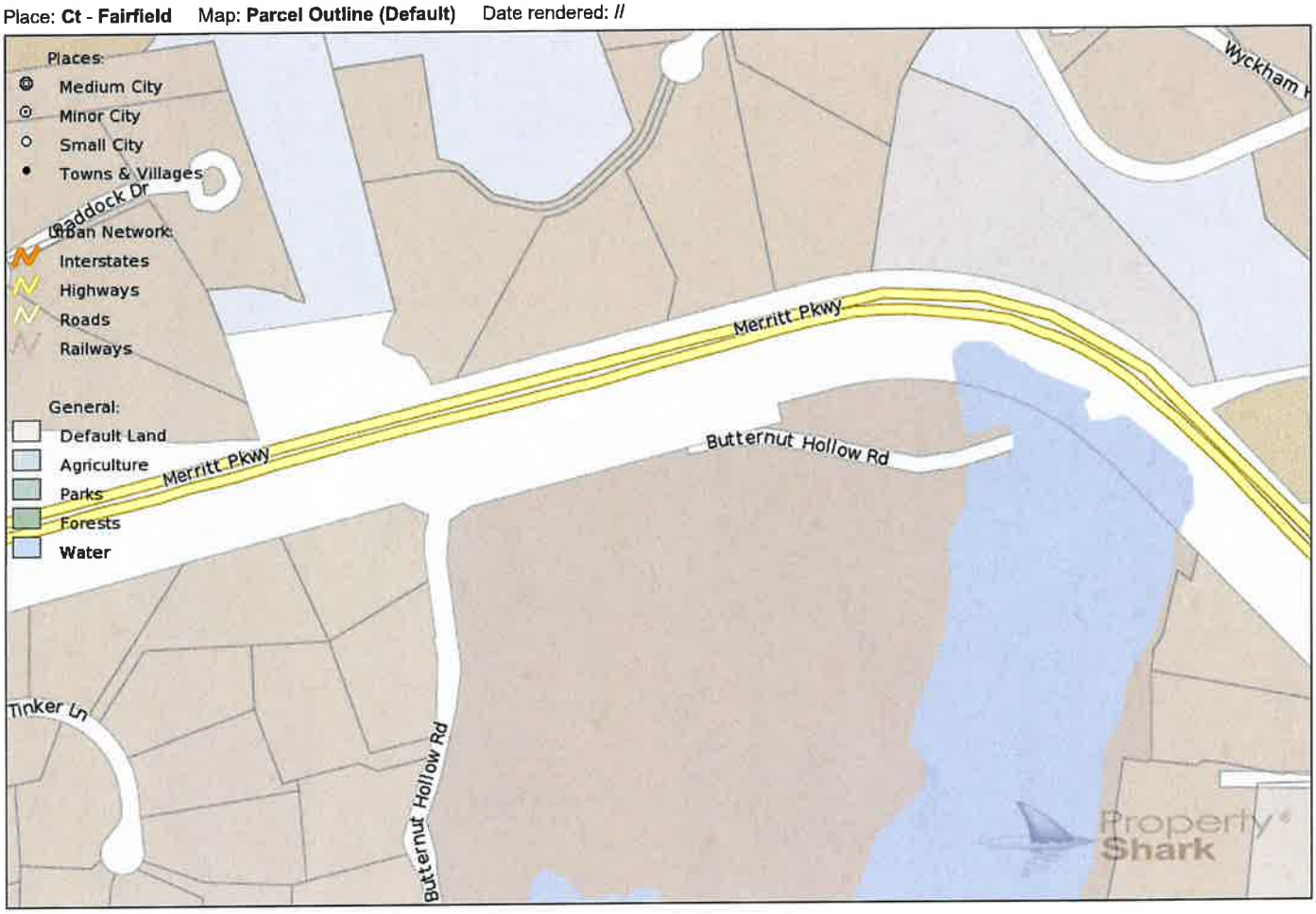
SUMMARY OF IMPROVEMENTS

ID	Use	Stry Hgt	Const Type	Grade	Year Const	Eff Year	Cond	Base Rate	Feat-ures	Adj Rate	Size or Area	Computed Value	Phys Depr	Obsol Depr	Market Adj	% Comp	Value
C	HUTLSTOR	0.00		Avg+	1999	2005	VG	0.00	N	0.00	2592	0	0	0	150	100	1018400
01	PAVING	0.00	85	Fair	1999	2000	VG	3.45	N	3.38	20000	67600	0	0	100	100	67600
02	UTLSHED	1.00	1	Avg	1960	1985	AV	44.50	N	66.75	14x 16	14950	13	0	100	100	13000
03	ELEVTANK	123.00		Avg	1960	1985	GD	3.08	N	4.62	500000	2310000	3	0	100	100	2240700
04	FENCECL	8.00	51C	Avg	1970	1990	AV	24.15	N	36.23	1603	58080	11	0	100	100	51700
05	Clfr. Tk	0.00		Good	1999	2000	VG	0.00	N	0.00	0	0	0	SV	100	100	1100000
06	Thkng Tk	0.00		Avg	1999	2000	VG	0.00	N	0.00	0	0	0	SV	100	100	550000
07	Ret. Bas	0.00		Avg	1999	2000	VG	0.00	N	0.00	0	0	0	SV	100	100	315000
08	Nxtl Bld	0.00		Good	2007	2007	AV	0.00	N	0.00	0	50000	4	SV	100	100	48000
09	FENCECL	6.00	51C	Avg	2007	2007	AV	18.50	N	27.75	132	3660	4	0	100	100	3500

Data Collector/Date	Appraiser/Date	Neighborhood	Supplemental Cards
bd 04/19/2012	TOG 10/01/2015	Neigh 2800 AV	

TOTAL IMPROVEMENT VALUE 5407900

Place: **Ct - Fairfield** Map: **Parcel Outline (Default)** Date rendered: //



Add notes here ...

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here ***Postmark with Date of Receipt.***
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103		Postmaster, per *(name of receiving employee)*	neopost 11/20/2019 US POSTAGE $003.15⁰ ZIP 06103 041L12203937

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Peter Tesei, First Selectman Town of Greenwich 101 Field Point Road Greenwich, CT 06830				
2.	Katie DeLuca, Director of Planning and Zoning Town of Greenwich 101 Field Point Road Greenwich, CT 06830				
3.	Aquarion Water Company of Connecticut 600 Lindley Street Bridgeport, CT 06606				
4.	State of Connecticut Department of Transportation 2800 Berlin Turnpike Newington, CT 06131				
5.					
6.					

OLD STATE HOUSE STATION 06103
NOV 20 2019
USPS

See Reverse for Instructions