

Calculations required to be provided by
the Permittee on site for all Inspections

**City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE**

SKinnear
03/25/2026
3:09:08 PM



PRCTI20260356

Structural Calculations

PREPARED FOR:

Washington State Fair
110 9th Ave SW
Puyallup, WA 98371

Marty Mattes, COO

PROJECT:

WSF Giant Slide

2250414.20

PREPARED BY:

Andy Pflueger, PE, SE
Senior Associate

REVIEWED BY:

Drew McEachern, PE, SE
Principal

DATE:

March, 2026

Structural Calculations

For



Washington State Fair – Giant Slide Puyallup, Washington

Project # 2250414.20

**Project Principal
Project Manager**

Drew McEachern, PE, SE
Andy Pflueger, PE, SE

Design Criteria

Design Codes and Standards

Codes and Standards: Structural design and construction shall be in accordance with the applicable sections of the following codes and standards as adopted and amended by the local building authority: International Building Code, 2021 Edition.

Structural Design Criteria:

Live Load Criteria:

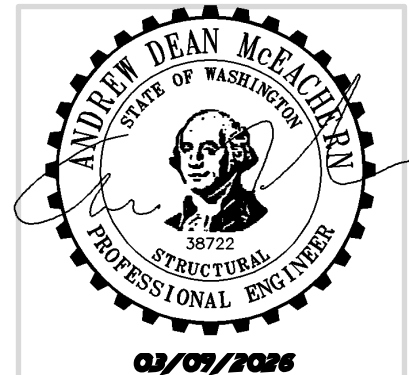
Minimum Snow Load	25 psf
Slide	50 psf or 300 lbs
Stair/Landing	100 psf or 300 lbs

Wind Load Criteria:

Basic Wind Speed	97 mph
Risk Category	II
Wind Exposure	B
Topographic Factor	1.0 (by Inspection)

Seismic Criteria:

Risk Category	II
Seismic Importance Factor	1.0
$S_s = 1.271$	$S_1 = 0.438$
$S_{ds} = 1.017$	$S_{d1} = \text{N/A}$
Site Class	= D-Default
Seismic Design Category	= D
Response Modification Coeff. (R):	2.0
Seismic Response Coeff. (C_s):	0.5085



Soil Criteria:

Based on presumptive values by IBC chapter 18, and existing building performance:

Allowable Soil Bearing Capacity: 1500 psf allow 33% increase for loads from wind or seismic origin.

Project Description

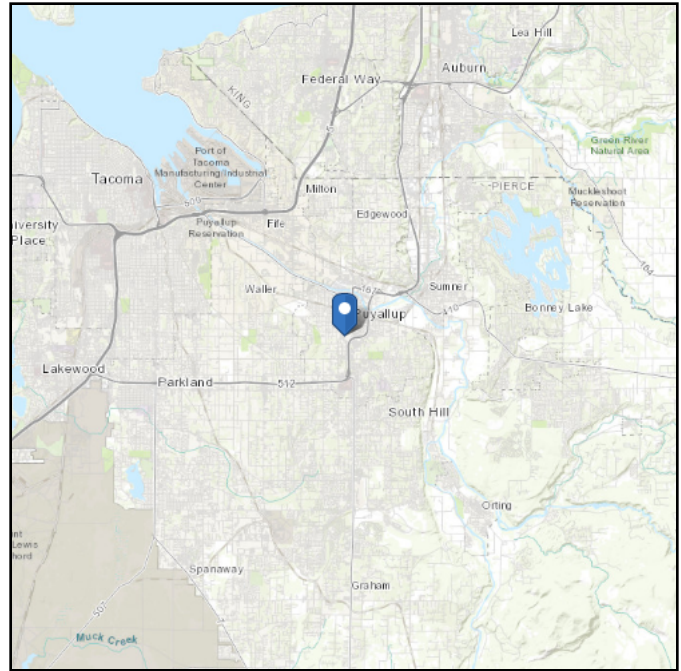
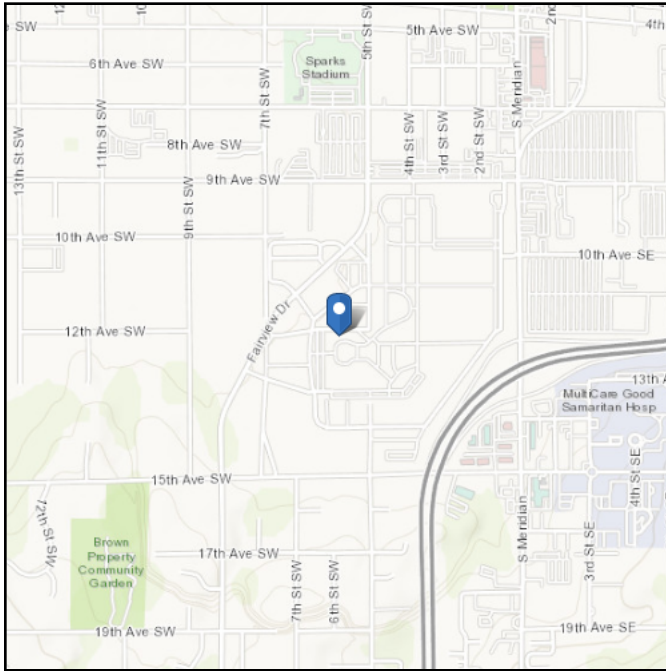
The project consists of replacing the scaffolding that supports the existing Giant Slide Ride at the Washington State Fair. The scaffolding will be a pre-engineered structure by Berg Equipment & Scaffolding Co., Inc. AHBL design includes review and design of the wind/seismic bracing, surface footing for the scaffolding column loads, and review and design of improvements to the existing dead-man foundations.

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Latitude: 47.180694
Longitude: -122.30002
Elevation: 39.79455582066984 ft (NAVD 88)



Wind

Results:

Wind Speed	97 Vmph
10-year MRI	67 Vmph
25-year MRI	73 Vmph
50-year MRI	78 Vmph
100-year MRI	83 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Wed Oct 29 2025

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_S :	1.271	S_{D1} :	N/A
S_1 :	0.438	T_L :	6
F_a :	1.2	PGA :	0.5
F_v :	N/A	PGA_M :	0.6
S_{MS} :	1.526	F_{PGA} :	1.2
S_{M1} :	N/A	I_e :	1
S_{DS} :	1.017	C_v :	1.354

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Wed Oct 29 2025

Date Source: [USGS Seismic Design Maps](#)

Results:

Ground Snow Load, p_g : 18 lb/ft²

Mapped Elevation: 39.8 ft

Data Source:

Date Accessed: Wed Oct 29 2025

Statutory requirements of the Authority Having Jurisdiction are not included.

Snow load values are mapped to a 0.5 mile resolution. This resolution can create a mismatch between the mapped elevation and the site-specific elevation in topographically complex areas. Engineers should consult the local authority having jurisdiction in locations where the reported 'elevation' and 'mapped elevation' differ significantly from each other.

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

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

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Project WSF GIANT SLIDE
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Structural Engineers

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Land Surveyors

PROJECT LOCATION:

LAT: 47.180694
LONG: -122.300020

DESIGN CRITERIA:

ISC 2021.

LIVE LOAD STEPS: 100 PSF OR 300#

LIVE LOAD SLIDE: 50 PSF OR 300#
SNOW LOAD: 25 PSF.

WIND LOAD:

97 MPH
EXP B
 $K_{zt} = 1.0$

SEISMIC LOAD:

$S_s = 1.271$
 $S_1 = 0.433$

$S_{DS} = 1.017$
 $S_{DI} = N/A.$

SITE CLASS D - DEFAULT
 $SDC = D$

CH. 15 $R = 2.0$ $\rho_o = 2.0$ $C_d = 2.0$
 $I_e = 1.0$

$$C_s = \frac{S_{DS}}{(R/I_e)} = \frac{1.017}{2} = \underline{0.5085}$$

$$C_{s \text{ MIN}} = 0.044 S_{DS} I_e \\ = 0.0447$$

$$\therefore \underline{V = E = 0.5085 \times W.}$$

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WIND LOAD:

$$q_z = 0.00256 K_z K_{zt} K_d K_e V^2$$

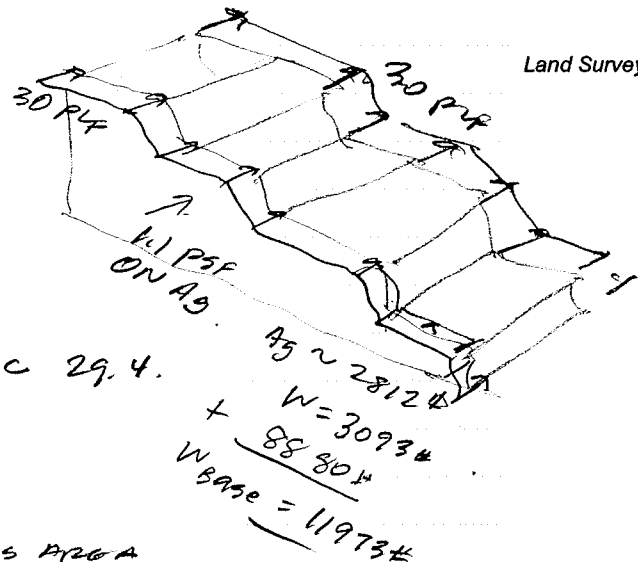
$$K_z = 0.76 @ 40 ft \quad V = 97 MPH$$

$$K_{zt} = 1.0$$

$$K_d = 0.85$$

$$K_e = 1.0$$

$$q_z = 15.56 \text{ psf}$$



TRANSVERSE LOAD: PER AISC 29.4.

$$F = q_z G C_f A_f$$

E = SOLID AREA TO CROSS AREA

SAY CHAIN LINK AREA = 68.21 % OPEN. $E = 0.3179$ @ Chainlink.
 SCAFFOLDING AREA = 2"/10ft. SOLID = 0.0167
 + $\frac{2" \times 2 \times 10ft}{10 \times 6'4"} \text{ SOLID} = 0.0524$

$E < 0.1 \quad D/T_{q_z} \leq 2.5$
 $C_f = 1.2$ FIGURE 29.4-2

$E = 0.0693$
 @ scaffold.

$\therefore$ USE $F = 15.56 (0.85) (1.20) (0.3179) A_g = 5.0955 \text{ psf}$
 FOR CHAINLINK

$F = 15.56 (0.85) (1.20) (0.0693) A_g = 1.099 \text{ psf}$
 FOR SCAFFOLDING

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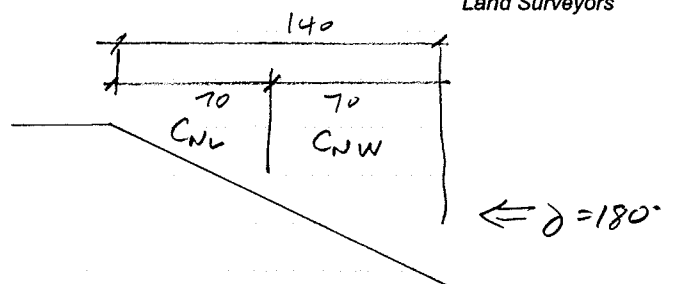
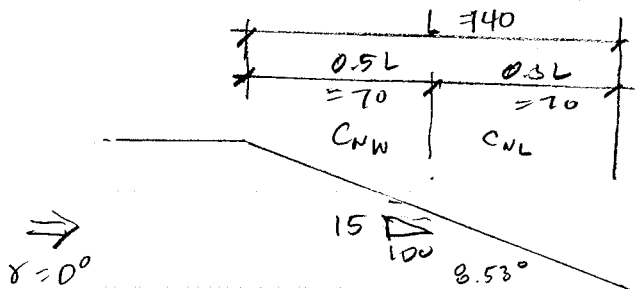
WIND LOAD ON OPEN STRUCTURE:

CH. 27 + 16 PSF MIN FOR OPEN BLDGS.

$P = q_h G C_N$ $h @ MRH$ $MRH = 19$ $q_h = 12.69 \text{ PSF}$

$K_h = 0.62$

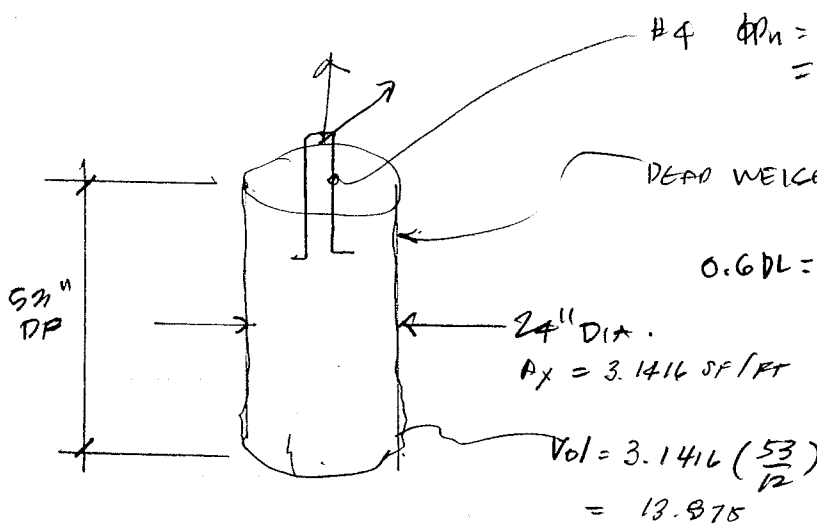
$G = 0.85$



CASE A $C_{NW} = -1.0$ $C_{NL} = -1.5$
 $P = -10.8 \text{ PSF}$ $P = -16.2 \text{ PSF}$

CASE B $C_{NW} = -1.7$ $C_{NL} = -0.8$
 $P = -18.3 \text{ PSF}$ $P = -8.6 \text{ PSF}$

$C_{NL} = -1.2$ $C_{NW} = -0.2$
 $P = -13.0 \text{ PSF}$ $P = -2.2 \text{ PSF}$
 $C_{NL} = -0.3$ $C_{NW} = 0.8$
 $P = -3.2 \text{ PSF}$ $P = 8.6 \text{ PSF}$



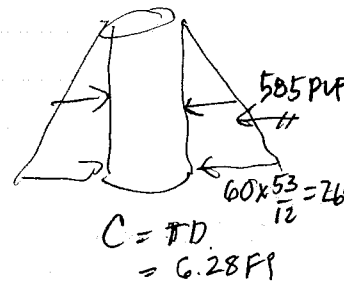
#4 $\phi_n = 0.9 \times 60 \times 0.20 \times 2$
 $= 21600 \text{ ULT.}$

DEAD WEIGHT $= 13.875 \text{ ft} \times 150 \text{ PCF}$
 $= 2081 \text{ #.}$

$0.6 DL = 1248 \text{ #}$

$24" \text{ DIA.}$
 $A_x = 3.1416 \text{ SF/FT}$

$Vol = 3.1416 \left(\frac{53}{12} \right)$
 $= 13.875$



$C = PD$
 $= 6.28 \text{ FT}$

$SP = 0.525 \times 585$
 $\times 6.28 \text{ FT}$
 $= 1929 \text{ #}$

SKIN FRICTION:
 $SP = f \cdot A_{\text{surface}}$
 $f = \mu \cdot \gamma \cdot K_0$
 $K_0 = 1 - \sin \phi$
 say $\phi = 30^\circ$
 $K_0 = 0.50$
 $\gamma = 120$
 $\gamma K_0 = 60 \text{ PCF}$
 $\mu = 0.35 \times 1.5 = 0.525$

IN-SITU DEAD MAN:

$= 1248 + 1157 \text{ #}$

O.G.D + ALLOW SKIN FRICT. = 2405 #

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

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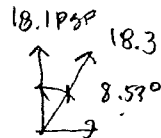
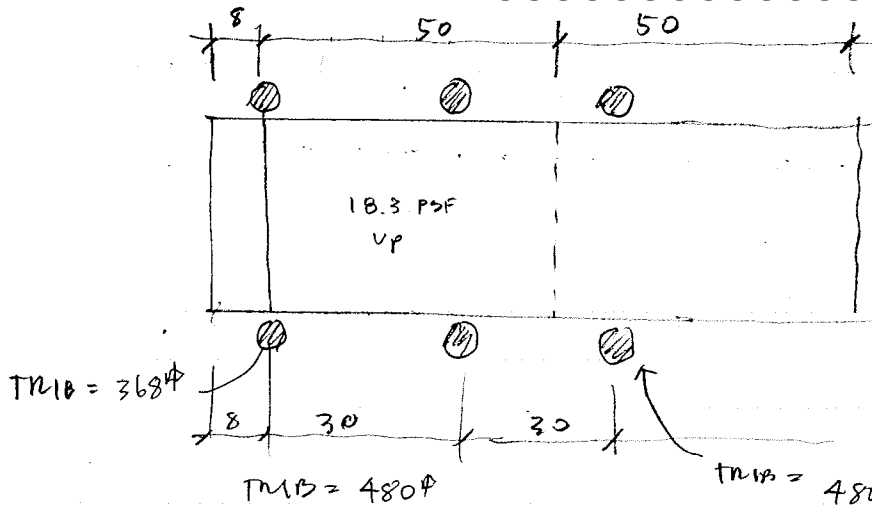
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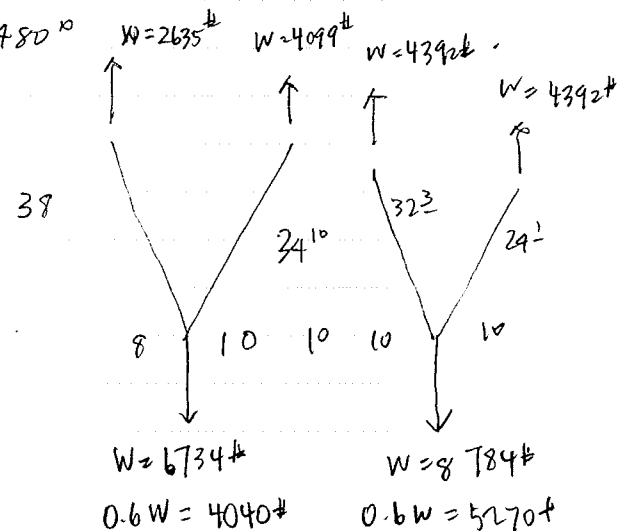
WIND LOAD DETAILS:

HAND CALC ESTIMATE / LAYOUT - SEE RISA DESIGN
 FOR UPDATED FORCES/REACTIONS



$$0.6W = 0.6 \cdot 18.3 \text{ PSF} \cdot 368 \text{ SF} = 4041\#$$

$$\text{or } 0.6 \cdot 18.3 \text{ PSF} \cdot 480 \text{ SF} = 5270\#$$



$$W = 1861\#$$

$$E = 4092\#$$

38

$$0.7E = 2864\#$$

$$0.6W = 1117\#$$

$$0.7E = 2563\#$$

$$0.6W = 999\#$$

27.8

$$0.7E = 3736\#$$

$$0.6W = 1355\#$$

$$0.7E = 3055$$

$$0.6W = 1108\#$$

$$W = 2259\#$$

$$E = 5337\#$$

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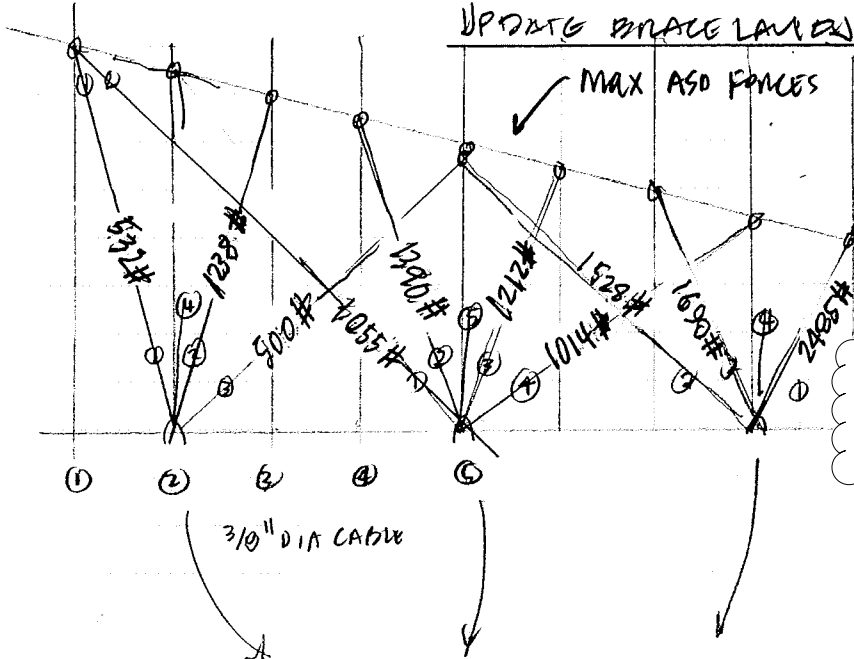
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RIGA MODEL RESULTS

UPDATE BRACE LAYOUT



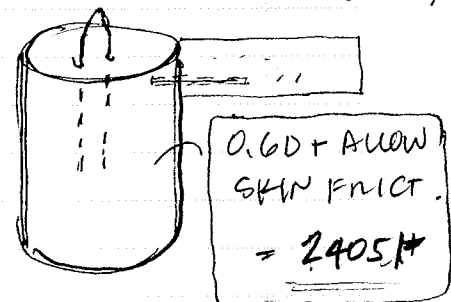
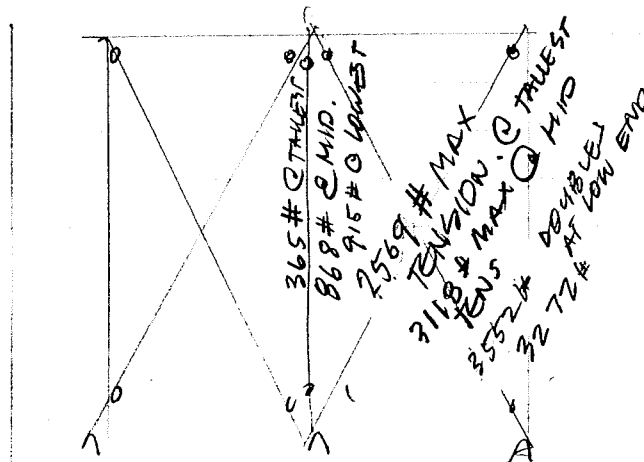
$7 \times 7 \text{ GALV } 3/8 = 13100$
 $7 \times 19 \text{ GALV } 3/8 = 14400$

PER BERG SCAFFOLDING - USE 5/16" DIA. 7X19 GALV WIRE. NOM STRENGTH = 9800 # ALLOW - 3267#

NOM STRENGTH

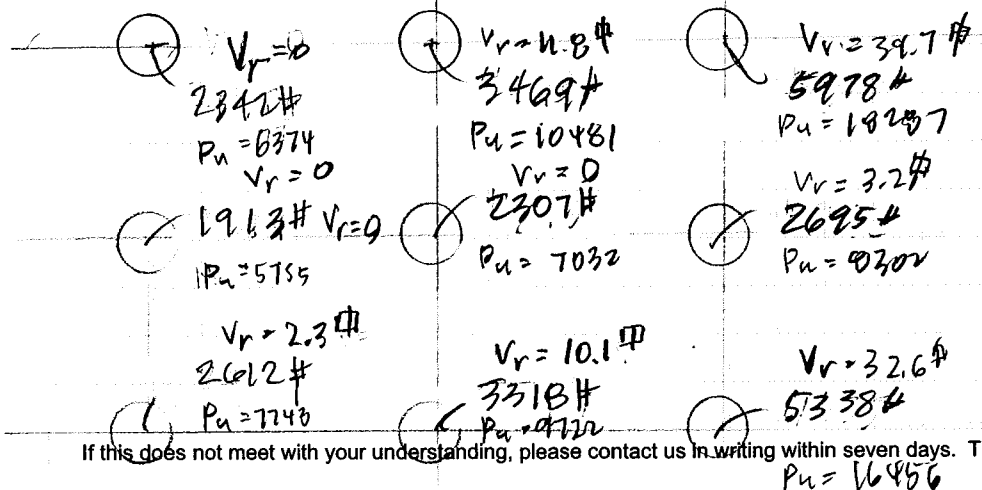
~~GLPS FIBRE CORE~~ - $0.90 \times 6.71 \text{ TONS}$
~~GALV.~~ = 12078 #

FS = 3.0 $\Rightarrow$ ~~4026# per~~
 5.0 $\Rightarrow$ ~~2415# per~~



$$V_r = \text{VOL REQ'D} = (P_u - 2405) / 0.6(450)$$

RISA ENVELOPE HPUFET (Pa ASD)



$$A_s = 0.31 \times 2$$

$$\phi R_n = 0.9 \times 0.31 \times 2 \times 60000 = 33480 \#$$

$P_u = \text{STRENGTH DESIGN}$
 FORCES W/ OVERSM.

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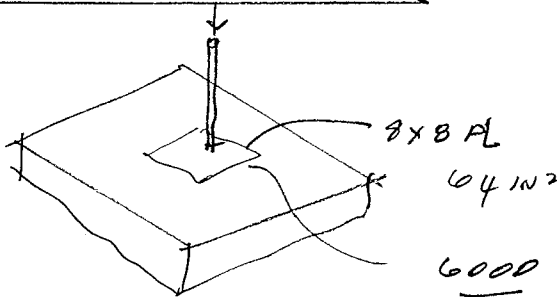
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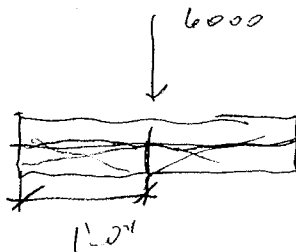
21.0" SQUARE FOOTING:



6000# w/ GRAVITY ON V
 8000# w/ SEISMIC/WIND

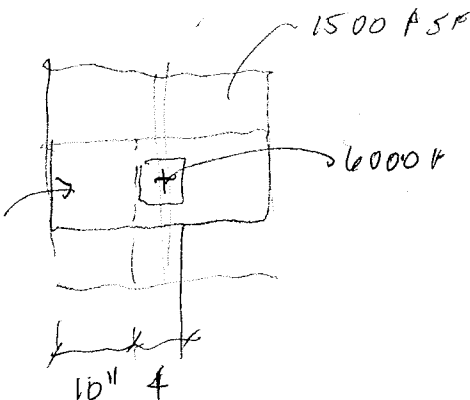
ASBP = 1500 PSI

$$\frac{6000}{625 \text{ PSI}} = 9.6 \text{ IN}^2 \text{ MIN}$$



$$\frac{6000}{2 \times 2} = 1500 \text{ PSI}$$

11 1/4 x 24
 22.2 PSI
 250# / IN
 3000 PSI



$$q = \frac{VQ}{I}$$

$$V = 3000 \left(\frac{10}{12} \right) = 2500 \text{#}$$

$$Q = A\bar{y} = 1 \frac{1}{2} \times 11 \frac{1}{4} \times 1 \frac{1}{2} = 25.3125 \text{ IN}^3$$

$$I = \frac{bh^3}{12} = \frac{1 \frac{1}{2} (1 \frac{1}{2})^3}{12} = 3.1641 \text{ IN}^4$$

$$q = \frac{2500 \text{#} \times 25.3125}{3.1641} = 20000 \text{#}$$

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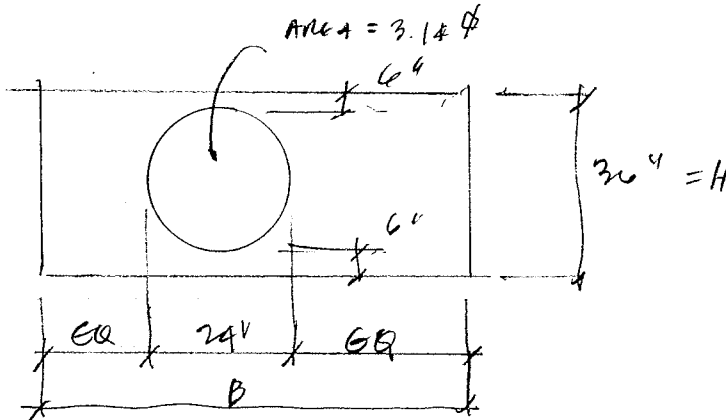
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B	H	T	AREA	VOL
4.0	3.0	0.50	8.96 CF	4.42 CF

TARGET = 3.7 CF

$$2405 + 0.6(150)(4.42) = 2802\#$$

B	H	T	AREA	VOL
6.67	3.0	0.67	16.86 CF	11.26 CF

TARGET = 11.8 CF

$$2405 + 0.6(150)(11.26) = 3418\#$$

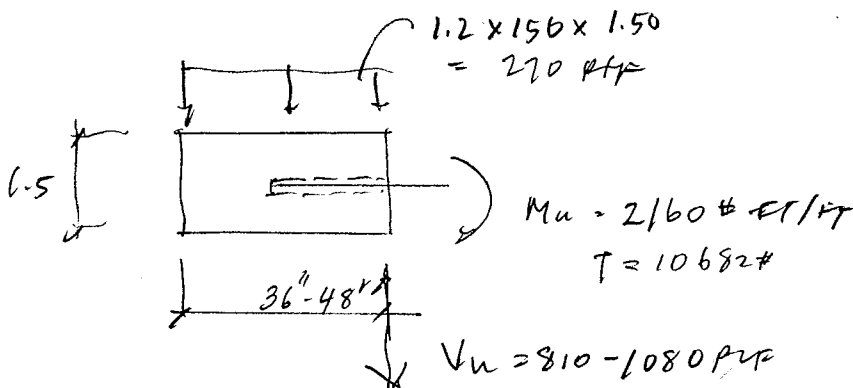
TARGET = 39.7 CF

$$(UNITY) = 1.015 OK$$

B	H	T	AREA	VOL
8.0	3.5	1.50	24.86 CF	37.3

$$2405 + 0.6(150)(37.3) = 5762$$

$$(UNITY) = 1.038 OK$$



$$A_s = 0.31$$

$$T \approx C = 18600\# \text{ FT/FT}$$

$$d = 3" \text{ MIN @ } 6"$$

$$4" \text{ MIN @ } 8"$$

$$9" \text{ MIN @ } 18"$$

$$a = 0.6078$$

$$\phi M_u = 3.78 \text{ K-FT/FT @ } 6"$$

$$5.16 \text{ K-FT/FT @ } 8"$$

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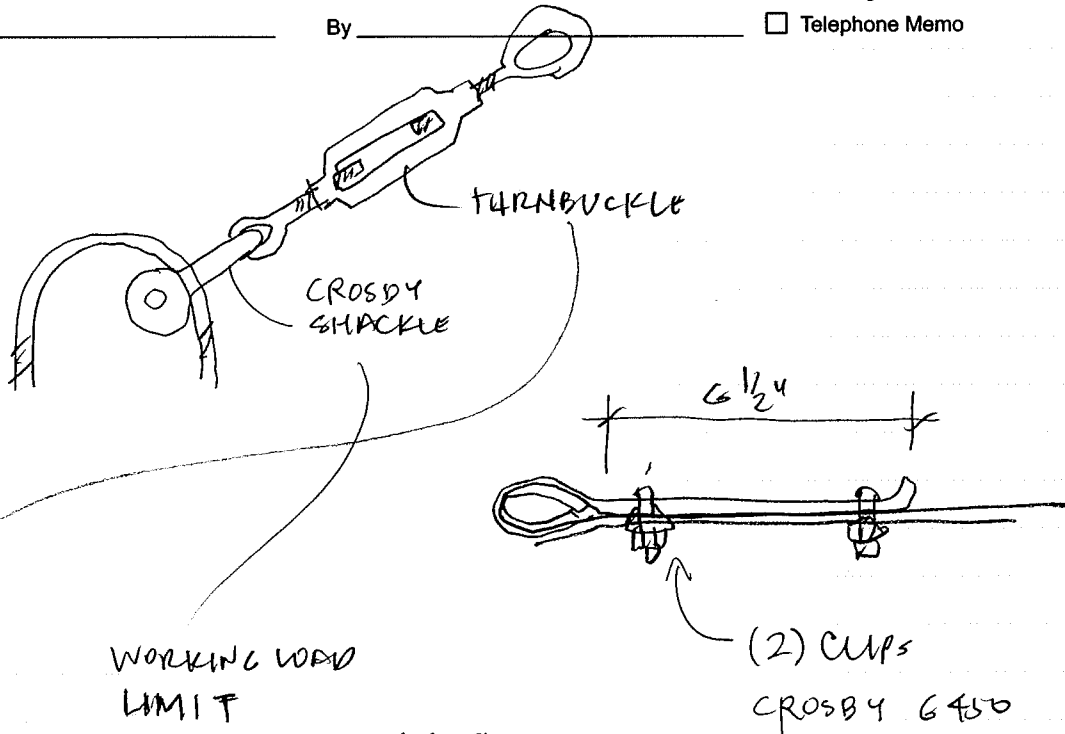
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WORKING LOAD
LIMIT

ANCHOR SHACKLE G.209

$3/8"$ size $\Rightarrow 1 \text{ Ton} = 2000\#$

$7/16"$ size $\Rightarrow 1 1/2 \text{ Ton} = 3000\#$

$1/2"$ size $\Rightarrow 2 \text{ Ton} = 4000\#$

PIN = $7/16 \phi$

PIN = $1/2 \phi$

PIN = $5/16 \phi$

BOLT type G2130

SAME RATING

H6226
EYE-EYE

$3/8 \phi \times 6$ 1200# WORKING LOAD LIMIT

$1/2 \phi \times 6$ 2200# WORKING LOAD LIMIT

BASED ON $\Omega = 5$

$\Omega = 3.0$ IN AISC $3/8" \text{ DIA} \Rightarrow R_n/\Omega = 3333\#$
 $1/2" \text{ DIA} \Rightarrow 3670\#$

Project Title:
Engineer:
Project ID:
Project Descr:

Wood Beam

Project File: WSF GIANT SLIDE.ec6

LIC# : KW-06014847, Build:20.26.02.06

AHBL, INC

(c) ENERCALC, LLC 1982-2026

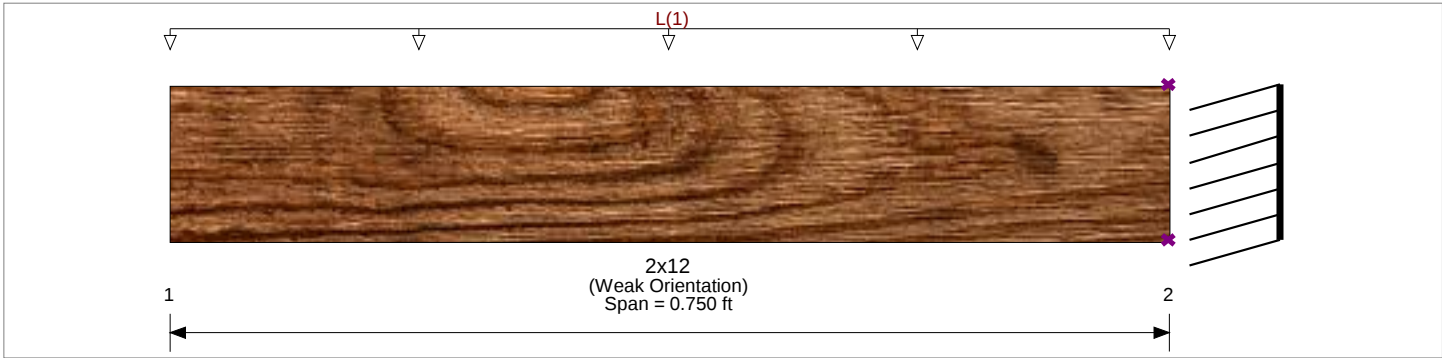
DESCRIPTION: (3) 2X BU (NOT COMPOSITE) W/ 6" FOOT

Code References

Governing Code : IBC 2024
Referenced Design Standard(s) : NDS 2024
Load Combination Set : IBC 2021

Material Properties

Analysis Method : Allowable Stress Design	Fb +	1200 psi	E : Modulus of Elasticity	
Load Combination : IBC 2021	Fb -	1200 psi	Ebend- xx	1600ksi
	Fc - Prll	1000 psi	Eminbend - xx	580ksi
Wood Species : Douglas Fir-Larch	Fc - Perp	625 psi		
Wood Grade : No.1	Fv	170 psi		
Beam Bracing : Completely Unbraced	Ft	825 psi	Density	31.21pcf



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added
Uniform Load : L = 1.0 , Tributary Width = 1.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.833 : 1	Maximum Shear Stress Ratio	=	0.410 : 1
Section used for this span		2x12	Section used for this span		2x12
		NDS2018			NDS2018
		(weak orientation)			(weak orientation)
fb: Actual	=	800.00psi	fv: Actual	=	55.72 psi
F'b	=	960.00psi	F'v	=	136.00 psi
Load Combination			Load Combination		
		L Only			L Only
Location of maximum on span	=	0.750ft	Location of maximum on span	=	0.627 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1
Maximum Deflection					
Max Downward Transient Deflection	0 in	Ratio = 0 >= 360	n/a		
Max Upward Transient Deflection	0 in	Ratio = 0 >= 360	n/a		
Max Downward Total Deflection	0.014 in	Ratio = 1262 >= 180	Span: 1 : L Only		
Max Upward Total Deflection	0 in	Ratio = 0 >= 180	n/a		

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios										Moment Values			Shear Values		
Segment Length	Span #	M	V	CD	CM	C _t	CLx	C _F	C _{fu}	C _i	C _r	M	fb	F'b	V	fv	F'v
Length = 0.750 ft	1			0.90	1.00	1.00	1.00	1.000	1.00	0.80	1.00			0.0	0.00	0.0	0.0
L Only					1.00	1.00	1.00	1.000	1.00	0.80	1.00			0.0	0.00	0.0	0.0
Length = 0.750 ft	1	0.833	0.410	1.00	1.00	1.00	1.00	1.000	1.00	0.80	1.00	0.28	800.0	960.0	0.63	55.7	136.0
+0.750L					1.00	1.00	1.00	1.000	1.00	0.80	1.00			0.0	0.00	0.0	0.0
Length = 0.750 ft	1	0.500	0.246	1.25	1.00	1.00	1.00	1.000	1.00	0.80	1.00	0.21	600.0	1,200.0	0.47	41.8	170.0

Project Title:
Engineer:
Project ID:
Project Descr:

Wood Beam

Project File: WSF GIANT SLIDE.ec6

LIC# : KW-06014847, Build:20.26.02.06

AHBL, INC

(c) ENERCALC, LLC 1982-2026

DESCRIPTION: (3) 2X BU (NOT COMPOSITE) W/ 6" FOOT

Overall Maximum Deflections

Span	Load Combination	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
1	L Only	0.0142	0.000		0.0000	0.000

Vertical Reactions

Support notation : Far left is #1 Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from all Load Conditions		0.750
Max Upward from Load Combinations		0.563
Max Upward from Load Cases		0.750
L Only		0.750
+0.750L		0.563

Project Title:
Engineer:
Project ID:
Project Descr:

Wood Beam

Project File: WSF GIANT SLIDE.ec6

LIC# : KW-06014847, Build:20.26.02.06

AHBL, INC

(c) ENERCALC, LLC 1982-2026

DESCRIPTION: 2x12 TRTD UNDER BU TRANSFER BU

Code References

Governing Code : IBC 2024
Referenced Design Standard(s) : NDS 2024
Load Combination Set : IBC 2021

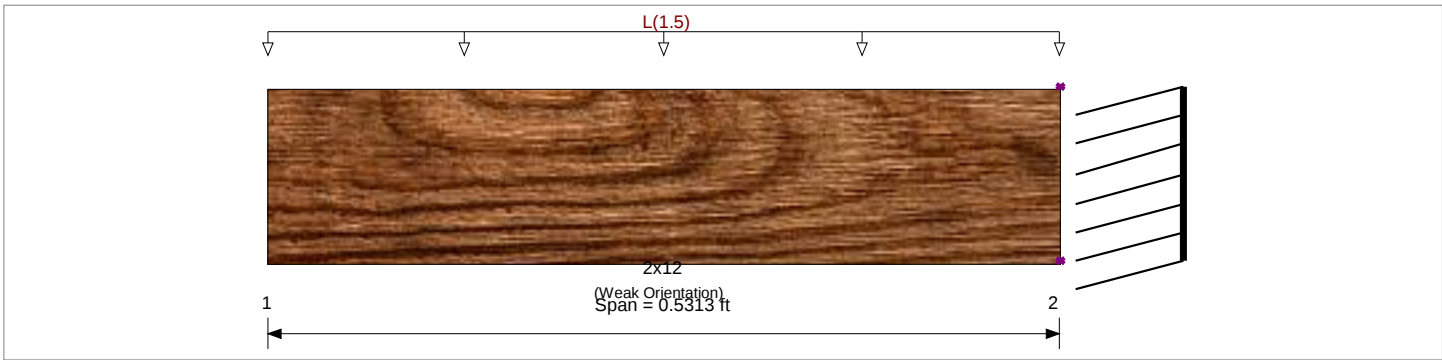
Material Properties

Analysis Method : Allowable Stress Design
Load Combination : IBC 2021

Wood Species : Douglas Fir-Larch
Wood Grade : No.1

Beam Bracing : Completely Unbraced

Fb +	1,200.0 psi	E : Modulus of Elasticity	
Fb -	1,200.0 psi	Ebend- xx	1,600.0ksi
Fc - Prll	1,000.0 psi	Eminbend - xx	580.0ksi
Fc - Perp	625.0 psi		
Fv	170.0 psi		
Ft	825.0 psi	Density	31.210pcf



Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added
Uniform Load : L = 1.50 , Tributary Width = 1.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.627 : 1	Maximum Shear Stress Ratio	=	0.399 : 1
Section used for this span		2x12	Section used for this span		2x12
		NDS2018			NDS2018
		(weak orientation)			(weak orientation)
fb: Actual	=	602.20psi	fv: Actual	=	54.29 psi
F'b	=	960.00psi	F'v	=	136.00 psi
Load Combination		L Only	Load Combination		L Only
Location of maximum on span	=	0.531ft	Location of maximum on span	=	0.407 ft
Span # where maximum occurs	=	Span # 1	Span # where maximum occurs	=	Span # 1
Maximum Deflection					
Max Downward Transient Deflection	0 in	Ratio = 0 >= 360	n/a		
Max Upward Transient Deflection	0 in	Ratio = 0 >= 360	n/a		
Max Downward Total Deflection	0.005 in	Ratio = 2368 >= 180	Span: 1 : L Only		
Max Upward Total Deflection	0 in	Ratio = 0 >= 180	n/a		

Maximum Forces & Stresses for Load Combinations

Load Combination		Max Stress Ratios										Moment Values			Shear Values		
Segment Length	Span #	M	V	CD	CM	C _t	CLx	C _F	C _{fu}	C _i	C _r	M	fb	F'b	V	fv	F'v
Length = 0.5313 ft	1			0.90	1.00	1.00	1.00	1.000	1.00	0.80	1.00			0.0	0.00	0.0	0.0
L Only					1.00	1.00	1.00	1.000	1.00	0.80	1.00			0.0	0.00	0.0	0.0
Length = 0.5313 ft	1	0.627	0.399	1.00	1.00	1.00	1.00	1.000	1.00	0.80	1.00	0.21	602.2	960.0	0.61	54.3	136.0
+0.750L					1.00	1.00	1.00	1.000	1.00	0.80	1.00			0.0	0.00	0.0	0.0
Length = 0.5313 ft	1	0.376	0.240	1.25	1.00	1.00	1.00	1.000	1.00	0.80	1.00	0.16	451.6	1,200.0	0.46	40.7	170.0

Project Title:
Engineer:
Project ID:
Project Descr:

Wood Beam

Project File: WSF GIANT SLIDE.ec6

LIC# : KW-06014847, Build:20.26.02.06

AHBL, INC

(c) ENERCALC, LLC 1982-2026

DESCRIPTION: 2x12 TRTD UNDER BU TRANSFER BU

Overall Maximum Deflections

Span	Load Combination	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
1	L Only	0.0054	0.000		0.0000	0.000

Vertical Reactions

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from all Load Conditions		0.797
Max Upward from Load Combinations		0.598
Max Upward from Load Cases		0.797
L Only		0.797
+0.750L		0.598



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Address:			
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1. Project information

Project description:

Location:

Design name: Design

Comment:

2. Input Data & Anchor Parameters

General

Design method: ACI 318-19

Units: Imperial units

Anchor Information:

Anchor type: Bonded anchor

Material: A615 Grade 60 Rebar

Diameter (inch): 0.625

Effective Embedment depth, h_{ef} (inch): 12.500

Code report: ESR-5026

Anchor category: -

Anchor ductility: Yes

h_{min} (inch): 14.00

c_{ac} (inch): 22.20

c_{min} (inch): 2.00

s_{min} (inch): 3.00

Base Material

Concrete: Normal-weight

Concrete thickness, h (inch): 48.00

State: Cracked

Compressive strength, f'_c (psi): 3000

$\Psi_{c,v}$: 1.0

Reinforcement condition: B tension, B shear

Supplemental edge reinforcement: Not applicable

Reinforcement provided at corners: No

Ignore concrete breakout in tension: No

Ignore concrete breakout in shear: No

Hole condition: Dry concrete

Inspection: Continuous

Temperature range, Short/Long: 150/110°F

Reduced installation torque (for AT-3G): No

Ignore 6do requirement: Not applicable

Build-up grout pad: No

Base Plate

Length x Width x Thickness (inch): 8.00 x 8.00 x 0.25

Recommended Anchor

Anchor Name: AT-3G™ - AT-3G w/ #5 A615 Gr. 60 Rebar

Code Report: ESR-5026





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Load and Geometry

Load factor source: ACI 318 Section 5.3

Load combination: not set

Seismic design: No

Anchors subjected to sustained tension: No

Apply entire shear load at front row: No

Anchors only resisting wind and/or seismic loads: No

Strength level loads:

N_{ua} [lb]: 18287

V_{uax} [lb]: 0

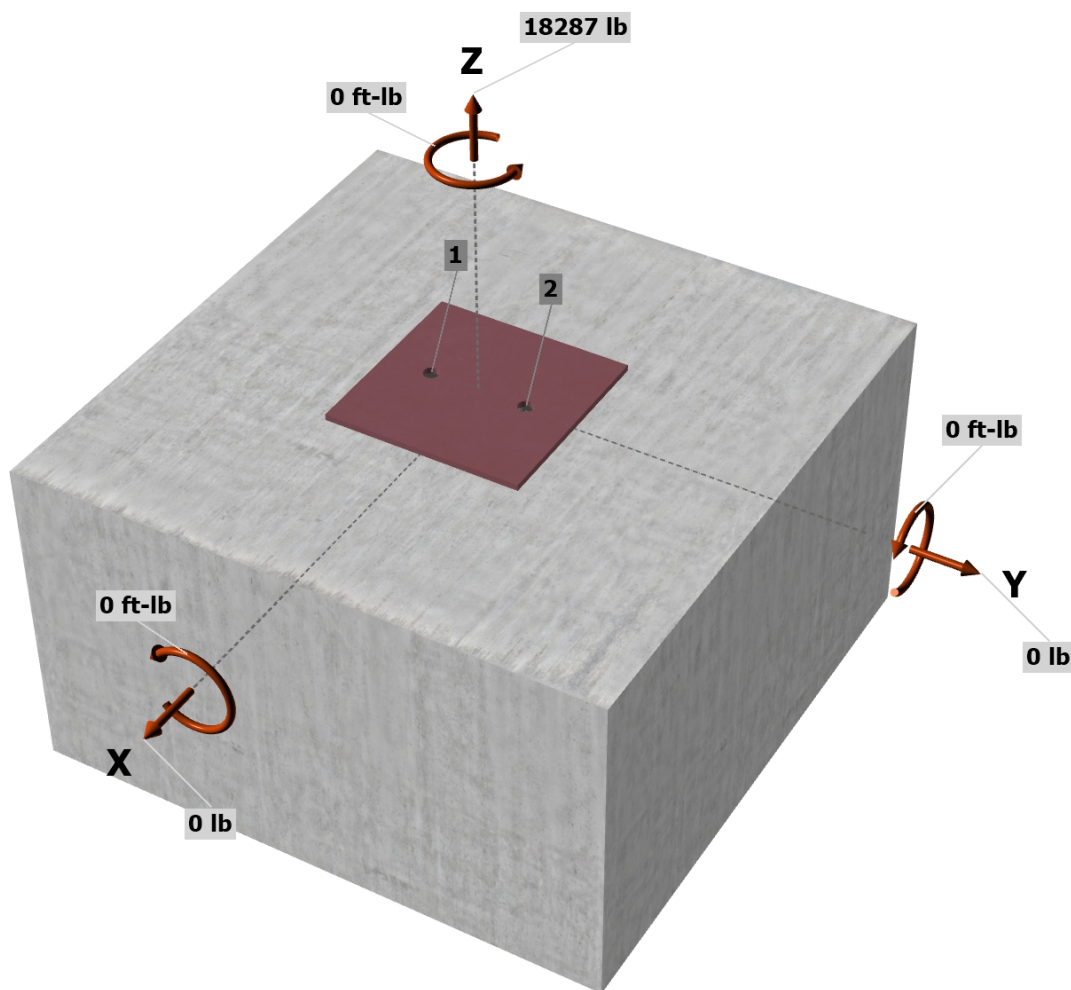
V_{uay} [lb]: 0

M_{ux} [ft-lb]: 0

M_{uy} [ft-lb]: 0

M_{uz} [ft-lb]: 0

<Figure 1>



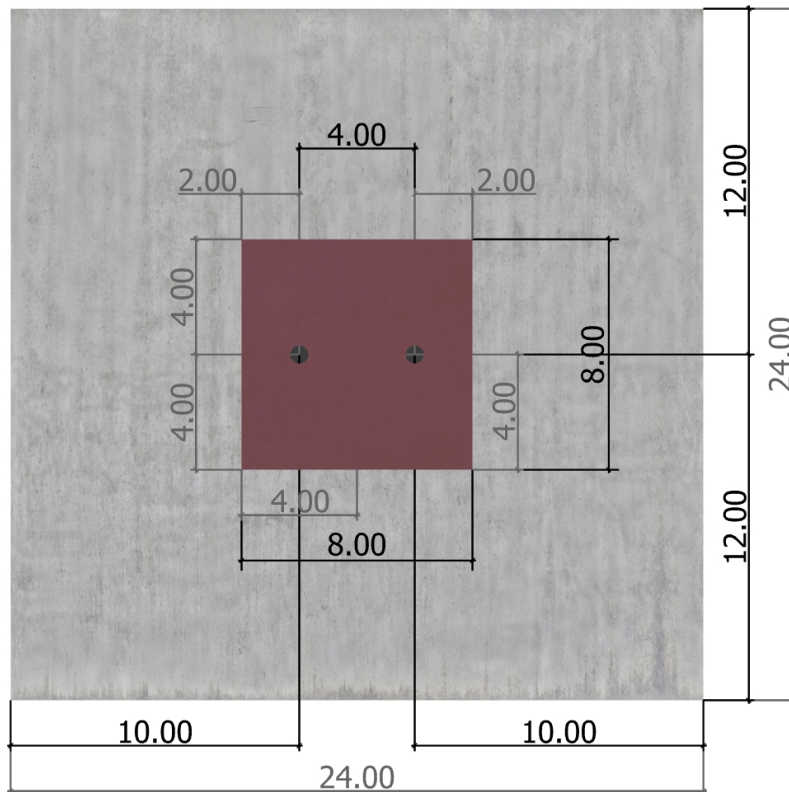
Input data and results must be checked for agreement with the existing circumstances, the standards and guidelines must be checked for plausibility.

Simpson Strong-Tie Company Inc. 5956 W. Las Positas Boulevard Pleasanton, CA 94588 Phone: 925.560.9000 Fax: 925.847.3871 www.strongtie.com



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<Figure 2>



3. Resulting Anchor Forces

Anchor	Tension load, N_{ua} (lb)	Shear load x, V_{uax} (lb)	Shear load y, V_{uay} (lb)	Shear load combined, $\sqrt{(V_{uax})^2 + (V_{uay})^2}$ (lb)
1	9143.5	0.0	0.0	0.0
2	9143.5	0.0	0.0	0.0
Sum	18287.0	0.0	0.0	0.0

Maximum concrete compression strain (‰): 0.00

Maximum concrete compression stress (psi): 0

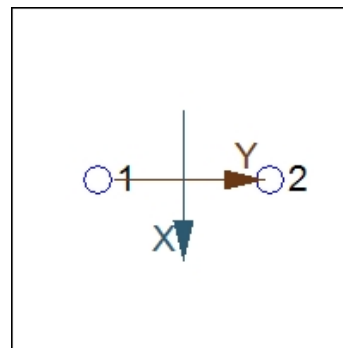
Resultant tension force (lb): 18287

Resultant compression force (lb): 0

Eccentricity of resultant tension forces in x-axis, e'_{Nx} (inch): 0.00

Eccentricity of resultant tension forces in y-axis, e'_{Ny} (inch): 0.00

<Figure 3>





Company:		Date:	2/16/2026
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4. Steel Strength of Anchor in Tension (Sec. 17.6.1)

N_{sa} (lb)	ϕ	ϕN_{sa} (lb)
24800	0.75	18600

5. Concrete Breakout Strength of Anchor in Tension (Sec. 17.6.2)

$$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5} \text{ (Eq. 17.6.2.2.1)}$$

k_c	λ_a	f'_c (psi)	h_{ef} (in)	N_b (lb)
17.0	1.00	3000	8.000	21069

$$\phi N_{cbg} = \phi (A_{Nc} / A_{Nco}) \psi_{ec,N} \psi_{ed,N} \psi_{cp,N} \psi_{cp,N} N_b \text{ (Sec. 17.5.1.2 & Eq. 17.6.2.1a)}$$

A_{Nc} (in ²)	A_{Nco} (in ²)	$C_{a,min}$ (in)	$\psi_{ec,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b (lb)	ϕ	ϕN_{cbg} (lb)
576.00	576.00	10.00	1.000	0.950	1.00	21069	0.65	13010

6. Adhesive Strength of Anchor in Tension (Sec. 17.6.5)

$$\tau_{k,cr} = \tau_{k,cr,short-term} K_{sat} (f'_c / 2,500)^n$$

$\tau_{k,cr}$ (psi)	$f_{short-term}$	K_{sat}	f'_c (psi)	n	$\tau_{k,cr}$ (psi)
1130	1.00	1.00	3000	0.10	1151

$$N_{ba} = \lambda_a \tau_{cr} \pi d_a h_{ef} \text{ (Eq. 17.6.5.2.1)}$$

λ_a	τ_{cr} (psi)	d_a (in)	h_{ef} (in)	N_{ba} (lb)
1.00	1151	0.63	12.500	28245

$$\phi N_{ag} = \phi (A_{Na} / A_{Na0}) \psi_{ec,Na} \psi_{ed,Na} \psi_{cp,Na} \psi_{cp,Na} N_{ba} \text{ (Sec. 17.5.1.2 & Eq. 17.6.5.1b)}$$

A_{Na} (in ²)	A_{Na0} (in ²)	C_{Na} (in)	$C_{a,min}$ (in)	$\psi_{ec,Na}$	$\psi_{ed,Na}$	$\psi_{cp,Na}$	N_{ba} (lb)	ϕ	ϕN_{ag} (lb)
362.20	293.66	8.57	10.00	1.000	1.000	1.000	28245	0.65	22644

7. Results

Interaction of Tensile and Shear Forces (Sec. 17.8)

Tension	Factored Load, N_{ua} (lb)	Design Strength, ϕN_n (lb)	Ratio	Status
Steel	9144	18600	0.49	Pass
Concrete breakout	18287	13010	1.41	Fail (Governs)
Adhesive	18287	22644	0.81	Pass

FAIL! Selected anchor type and embedment do not meet the selected design criteria.

8. Warnings

- Designer must exercise own judgement to determine if this design is suitable.
- Refer to manufacturer's product literature for hole cleaning and installation instructions.

[AHBL]: PROVIDE EXTERNAL
THREADED ROD ANCHORAGE
TO RESIST CONCRETE
BREAKOUT FAILURE
MECHANISM



Anchor Designer™ for Concrete Software

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Address:			
Phone:			
E-mail:			

1. Project information

Project description:

Location:

Design name: Design

Comment:

2. Input Data & Anchor Parameters

General

Design method: ACI 318-19

Units: Imperial units

Anchor Information:

Anchor type: Bonded anchor

Material: A615 Grade 60 Rebar

Diameter (inch): 0.625

Effective Embedment depth, h_{ef} (inch): 8.000

Code report: ESR-5026

Anchor category: -

Anchor ductility: Yes

h_{min} (inch): 9.50

c_{ac} (inch): 13.82

C_{min} (inch): 2.00

S_{min} (inch): 3.00

Base Material

Concrete: Normal-weight

Concrete thickness, h (inch): 24.00

State: Cracked

Compressive strength, f'_c (psi): 3000

$\Psi_{c,v}$: 1.0

Reinforcement condition: B tension, B shear

Supplemental edge reinforcement: Not applicable

Reinforcement provided at corners: No

Ignore concrete breakout in tension: No

Ignore concrete breakout in shear: No

Hole condition: Dry concrete

Inspection: Continuous

Temperature range, Short/Long: 150/110°F

Reduced installation torque (for AT-3G): No

Ignore 6do requirement: Not applicable

Build-up grout pad: No

Recommended Anchor

Anchor Name: AT-3G™ - AT-3G w/ #5 A615 Gr. 60 Rebar

Code Report: ESR-5026





Company:		Date:	2/16/2026
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Address:			
Phone:			
E-mail:			

Load and Geometry

Load factor source: ACI 318 Section 5.3

Load combination: not set

Seismic design: No

Anchors subjected to sustained tension: No

Apply entire shear load at front row: No

Anchors only resisting wind and/or seismic loads: No

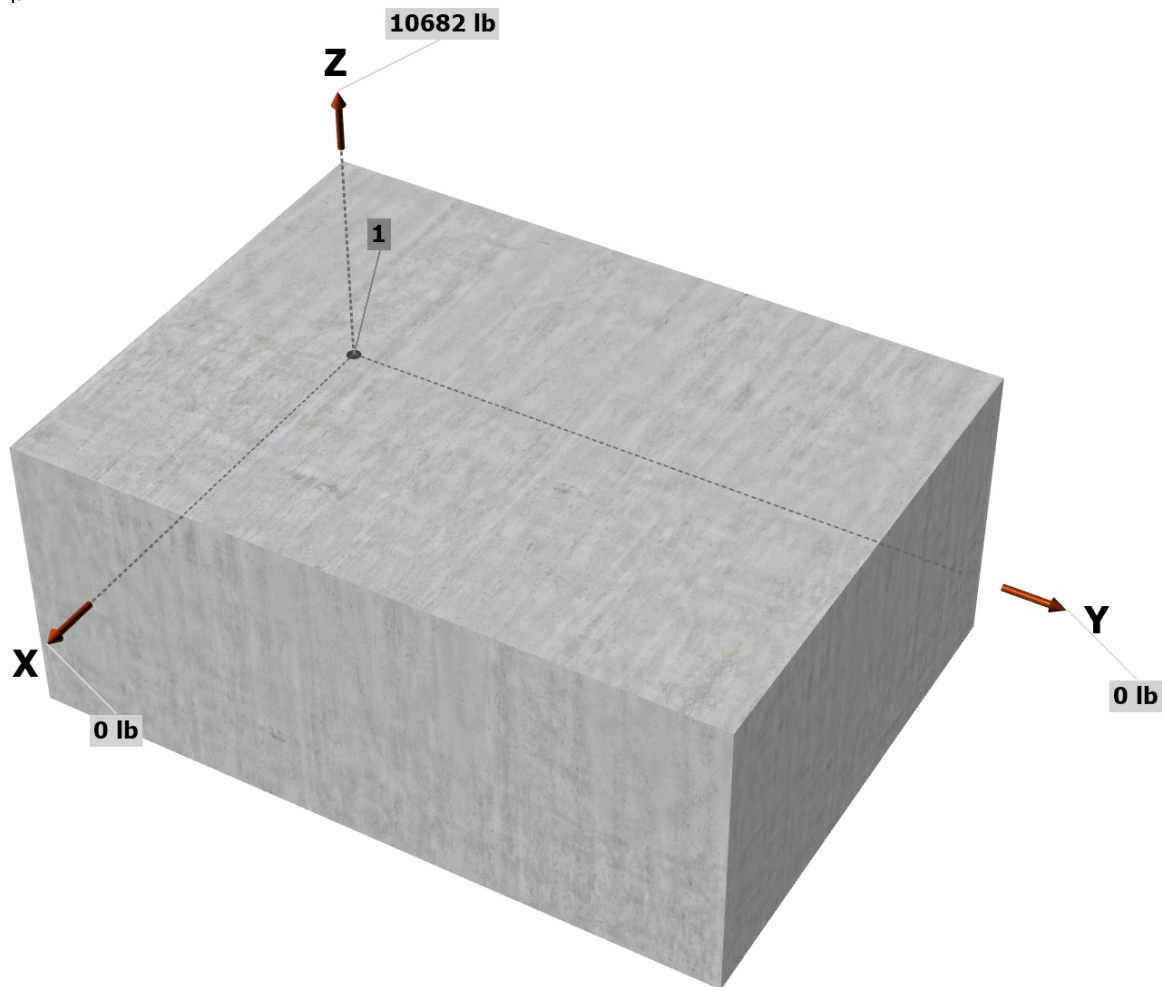
Strength level loads:

N_{ua} [lb]: 10682

V_{uax} [lb]: 0

V_{uay} [lb]: 0

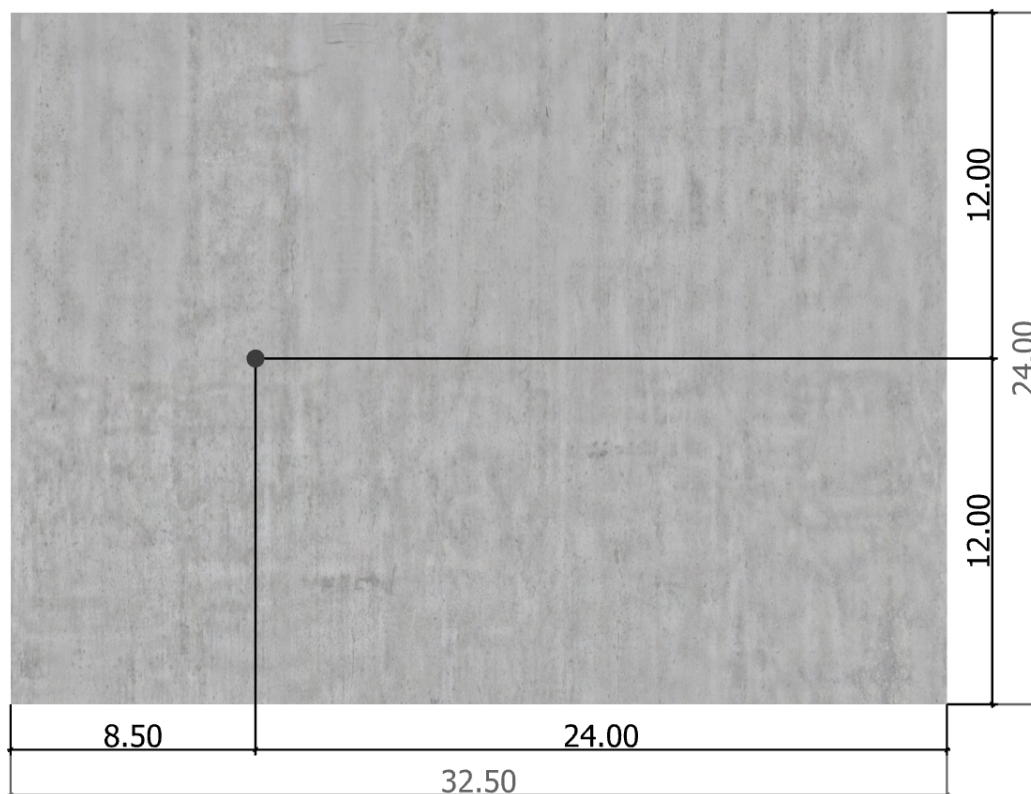
<Figure 1>





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<Figure 2>



3. Resulting Anchor Forces

Anchor	Tension load, N_{ua} (lb)	Shear load x, V_{uax} (lb)	Shear load y, V_{uay} (lb)	Shear load combined, $\sqrt{(V_{uax})^2 + (V_{uay})^2}$ (lb)
1	10682.0	0.0	0.0	0.0
Sum	10682.0	0.0	0.0	0.0

Maximum concrete compression strain (%): 0.00

Maximum concrete compression stress (psi): 0

Resultant tension force (lb): 10682

Resultant compression force (lb): 0

Eccentricity of resultant tension forces in x-axis, e'_{Nx} (inch): 0.00

Eccentricity of resultant tension forces in y-axis, e'_{Ny} (inch): 0.00



Anchor Designer™ for Concrete Software

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4. Steel Strength of Anchor in Tension (Sec. 17.6.1)

N_{sa} (lb)	ϕ	ϕN_{sa} (lb)
24800	0.75	18600

5. Concrete Breakout Strength of Anchor in Tension (Sec. 17.6.2)

$$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5} \text{ (Eq. 17.6.2.2.1)}$$

k_c	λ_a	f'_c (psi)	h_{ef} (in)	N_b (lb)
17.0	1.00	3000	8.000	21069

$$\phi N_{cb} = \phi (A_{Nc} / A_{Nco}) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \text{ (Sec. 17.5.1.2 \& Eq. 17.6.2.1a)}$$

A_{Nc} (in ²)	A_{Nco} (in ²)	$c_{a,min}$ (in)	$\psi_{ed,N}$	$\psi_{c,N}$	$\psi_{cp,N}$	N_b (lb)	ϕ	ϕN_{cb} (lb)
492.00	576.00	8.50	0.913	1.00	1.000	21069	0.65	10674

6. Adhesive Strength of Anchor in Tension (Sec. 17.6.5)

$$\tau_{k,cr} = \tau_{k,cr,short-term} K_{sat} (f'_c / 2,500)^n$$

$\tau_{k,cr}$ (psi)	$f_{short-term}$	K_{sat}	f'_c (psi)	n	$\tau_{k,cr}$ (psi)
1130	1.00	1.00	3000	0.10	1151

$$N_{ba} = \lambda_a \tau_{cr} \pi d_a h_{ef} \text{ (Eq. 17.6.5.2.1)}$$

λ_a	τ_{cr} (psi)	d_a (in)	h_{ef} (in)	N_{ba} (lb)
1.00	1151	0.63	8.000	18077

$$\phi N_a = \phi (A_{Na} / A_{Na0}) \psi_{ed,Na} \psi_{cp,Na} N_{ba} \text{ (Sec. 17.5.1.2 \& Eq. 17.6.5.1a)}$$

A_{Na} (in ²)	A_{Na0} (in ²)	c_{Na} (in)	$c_{a,min}$ (in)	$\psi_{ed,Na}$	$\psi_{cp,Na}$	N_{ba} (lb)	ϕ	ϕN_a (lb)
292.49	293.66	8.57	8.50	0.998	1.000	18077	0.65	11675

7. Results

Interaction of Tensile and Shear Forces (Sec. 17.8)

Tension	Factored Load, N_{ua} (lb)	Design Strength, ϕN_n (lb)	Ratio	Status
Steel	10682	18600	0.57	Pass
Concrete breakout	10682	10674	1.00	Fail (Governs)
Adhesive	10682	11675	0.91	Pass

FAIL! Selected anchor type and embedment do not meet the selected design criteria.

8. Warnings

- Designer must exercise own judgement to determine if this design is suitable.
- Refer to manufacturer's product literature for hole cleaning and installation instructions.

[AHBL]: 100% UNITY IS
ACCEPTABLE

Model Settings

Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in ²)	9
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes
Approximate Mesh Size (in)	24
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
Single	No
Multiple (Optimum)	Yes
Maximum	No

Global Axis corresponding to vertical direction	Y
Convert Existing Data	Yes
Default Global Plane for z-axis	XZ
Plate Local Axis Orientation	Global

Hot Rolled Steel	AISC 15th (360-16): ASD
Stiffness Adjustment	Yes (Iterative)
Notional Annex	None
Connections	AISC 15th (360-16): ASD
Cold Formed Steel	AISI S100-20: ASD
Stiffness Adjustment	Yes (Iterative)
Wood	AWC NDS-18 / SDPWS-21 ASD
Temperature	< 100F
Concrete	ACI 318-19
Masonry	TMS 402-16: ASD
Aluminum	AA ADM1-20: ASD
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	AISC 14th (360-10): ASD
Stiffness Adjustment	Yes (Iterative)

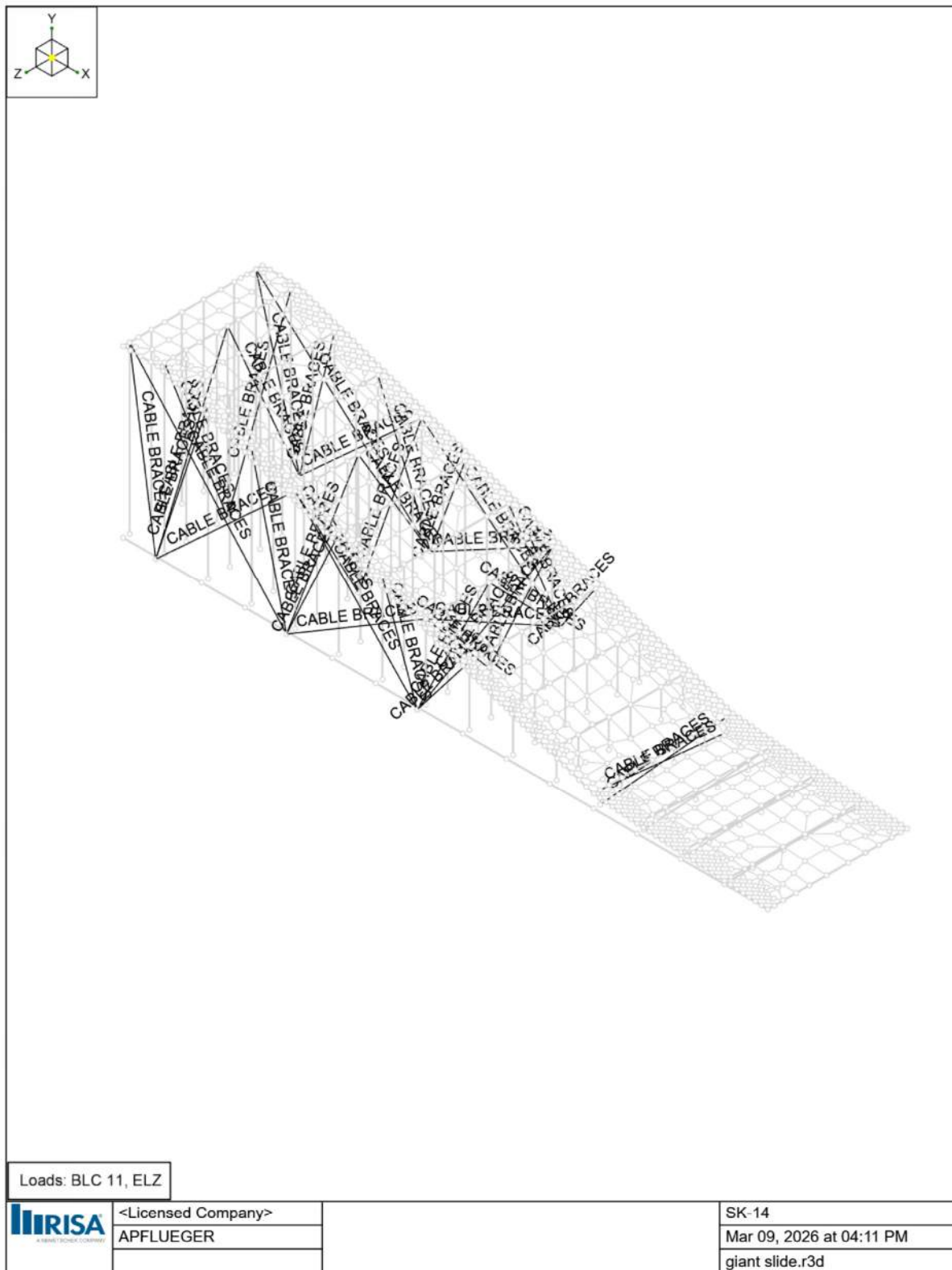
Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	No
List forces which were ignored for design in the Detail Report	Yes

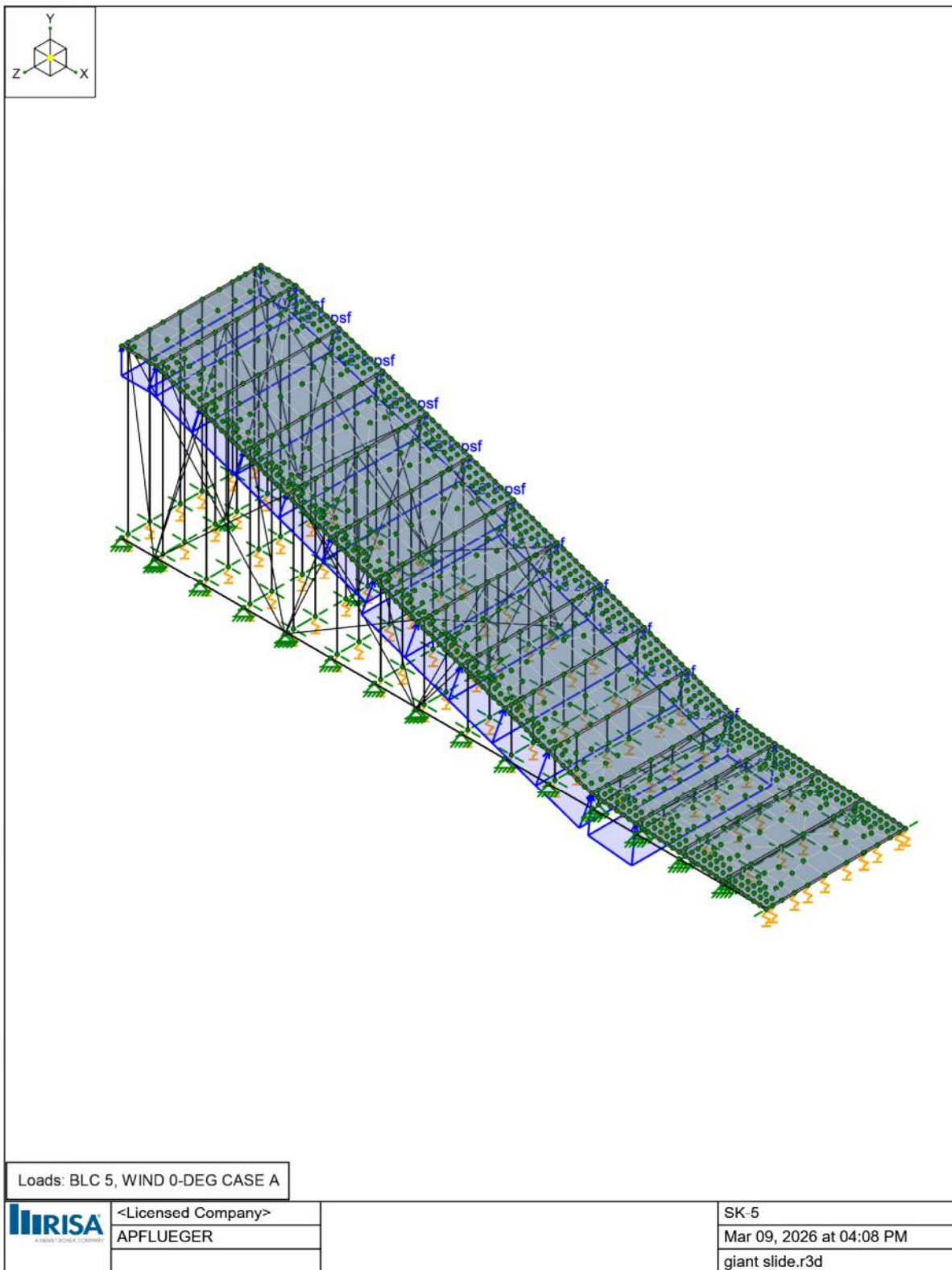
Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No
Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4

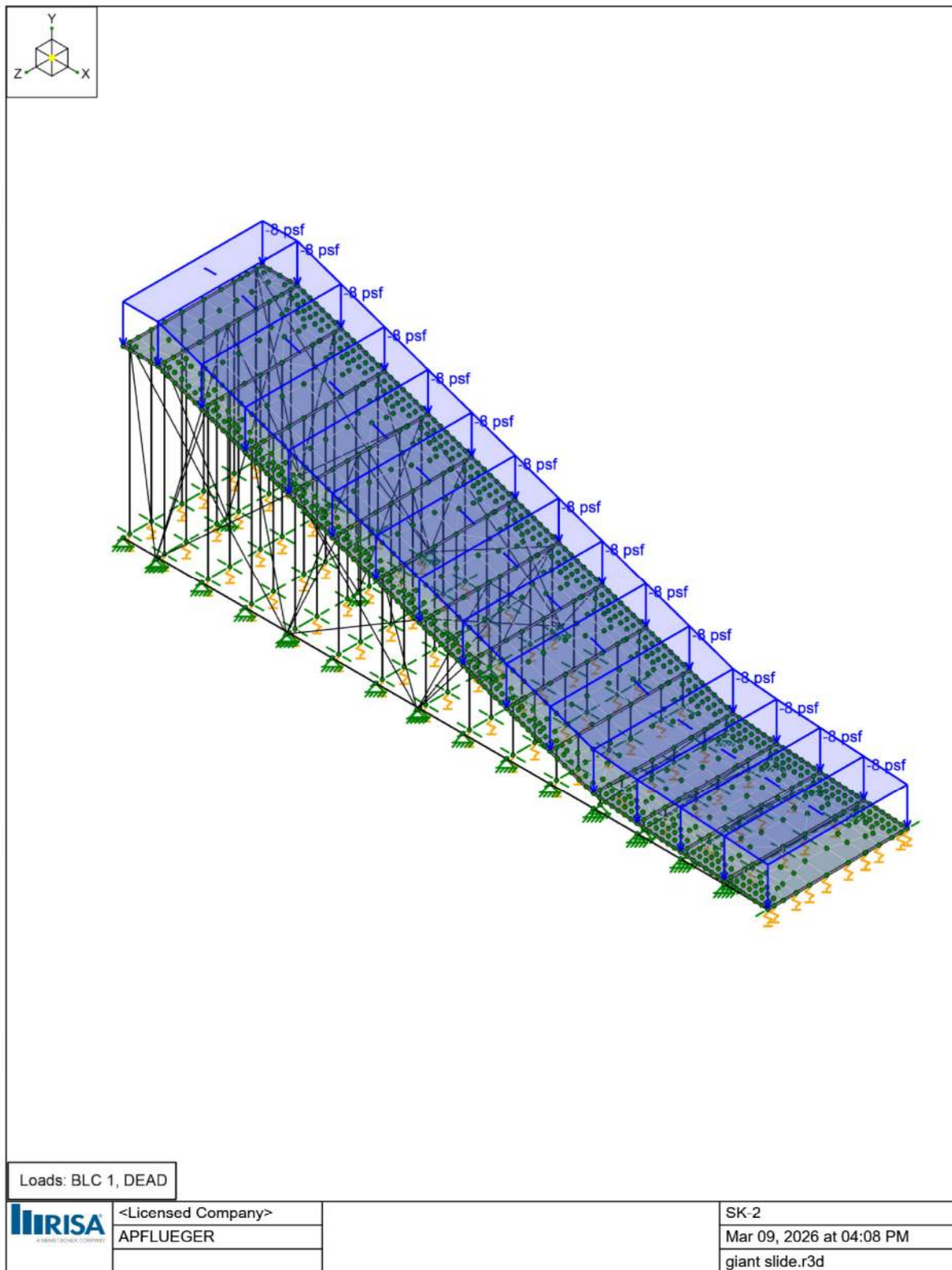
Code	ASCE 7-16
Risk Category	I or II
Drift Cat	Other

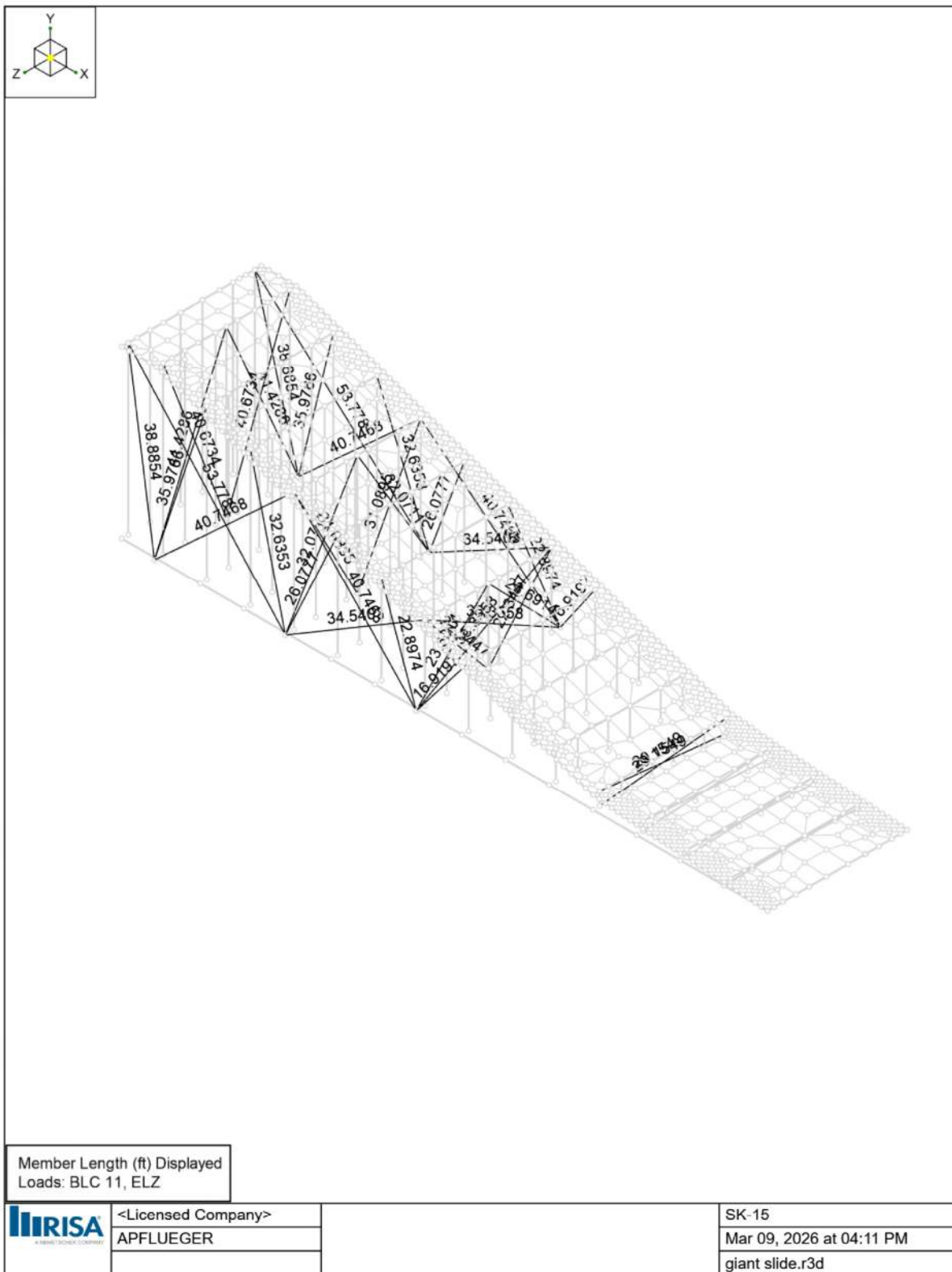
Model Settings (Continued)

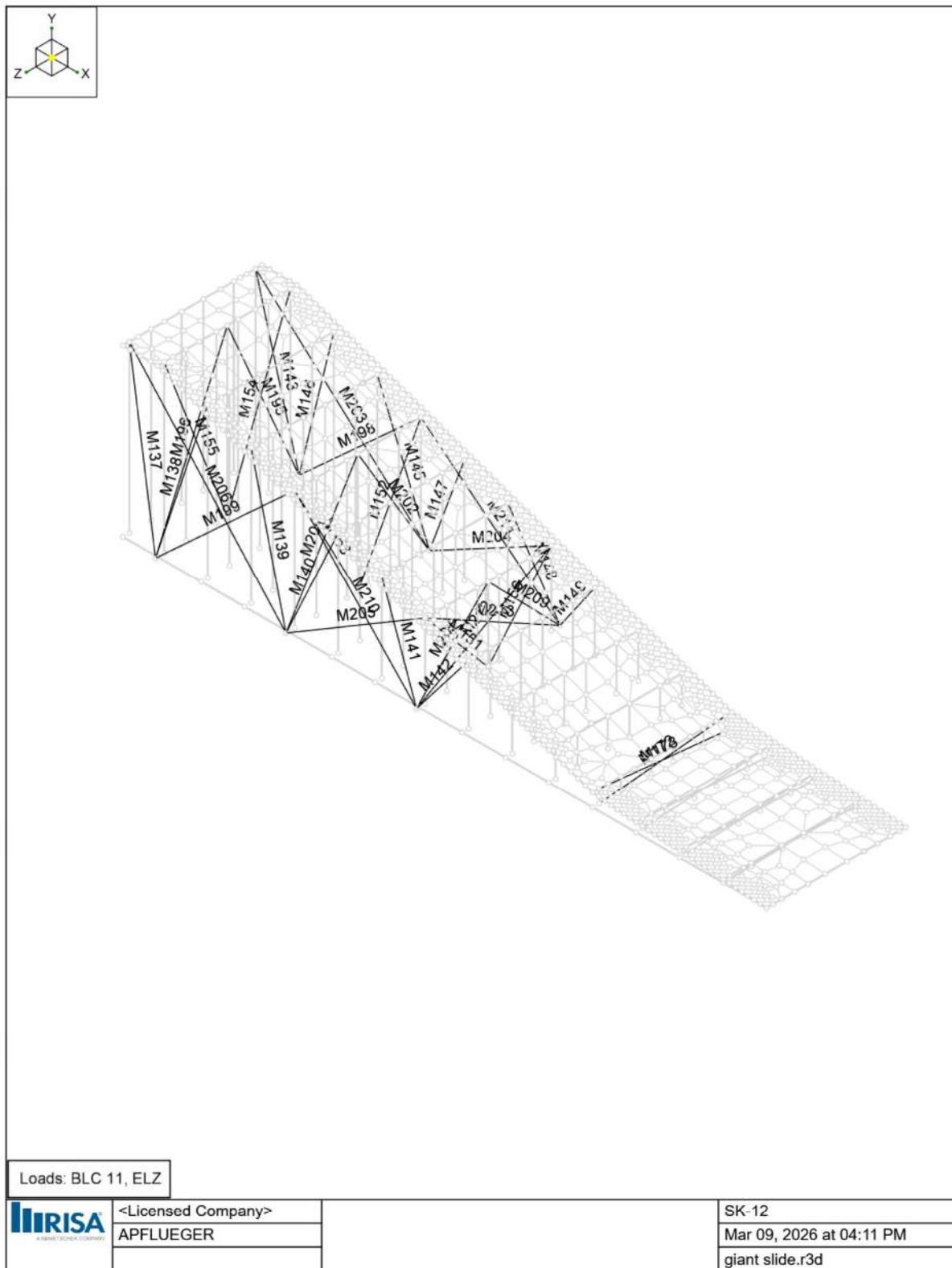
Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
S_s (g)	0.438
SD_1 (g)	0.438
SD_s (g)	1.017
T_1 (sec)	5
T Z (sec)	0.5
T X (sec)	0.5
C_z	0.02
C_x	0.02
$C_{Exp. Z}$	0.75
$C_{Exp. X}$	0.75
R Z	2
R X	2
$\Omega_0 Z$	2
$\Omega_0 X$	2
$C_0 Z$	2
$C_0 X$	2
ρZ	1
ρX	1

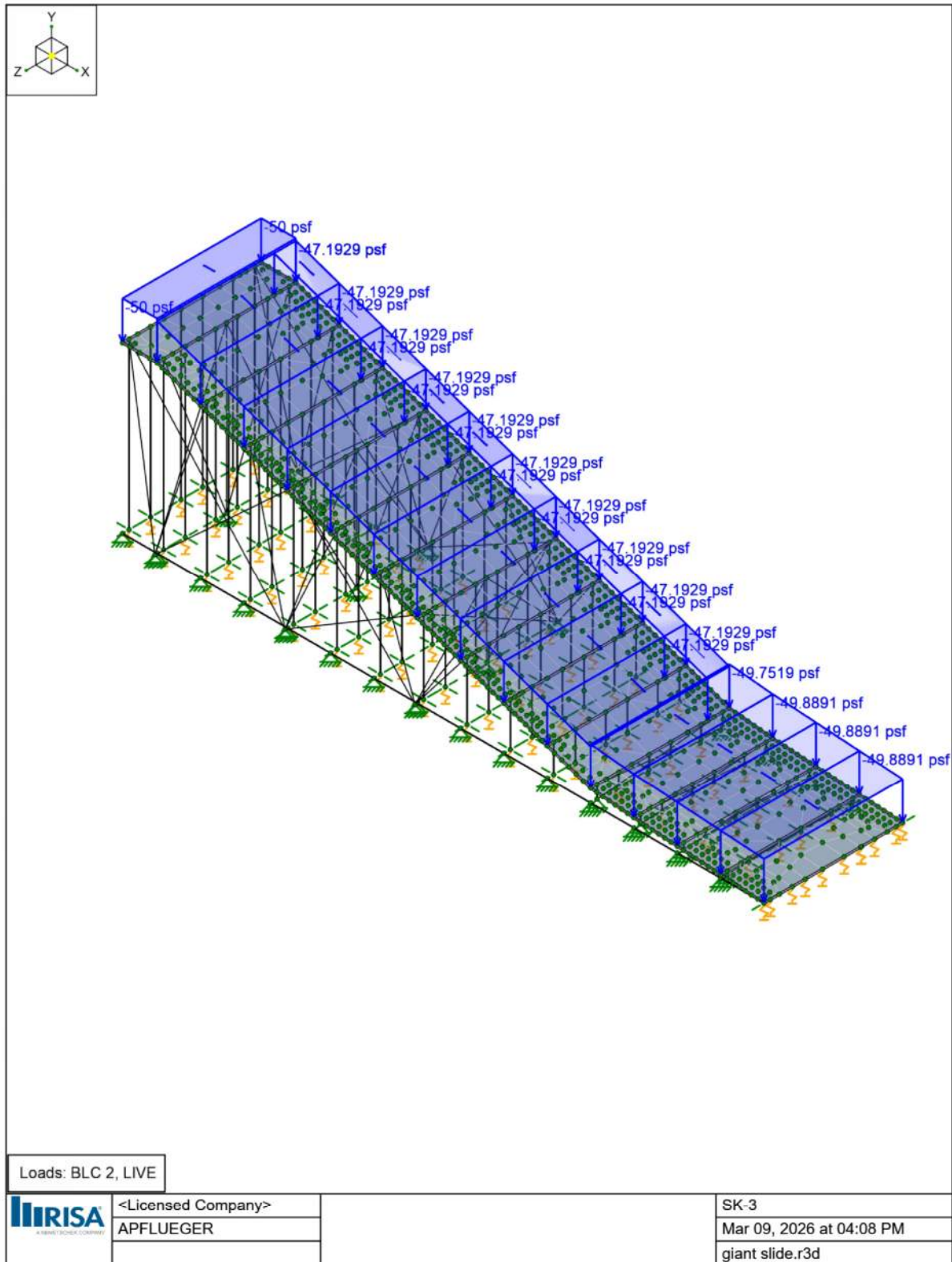


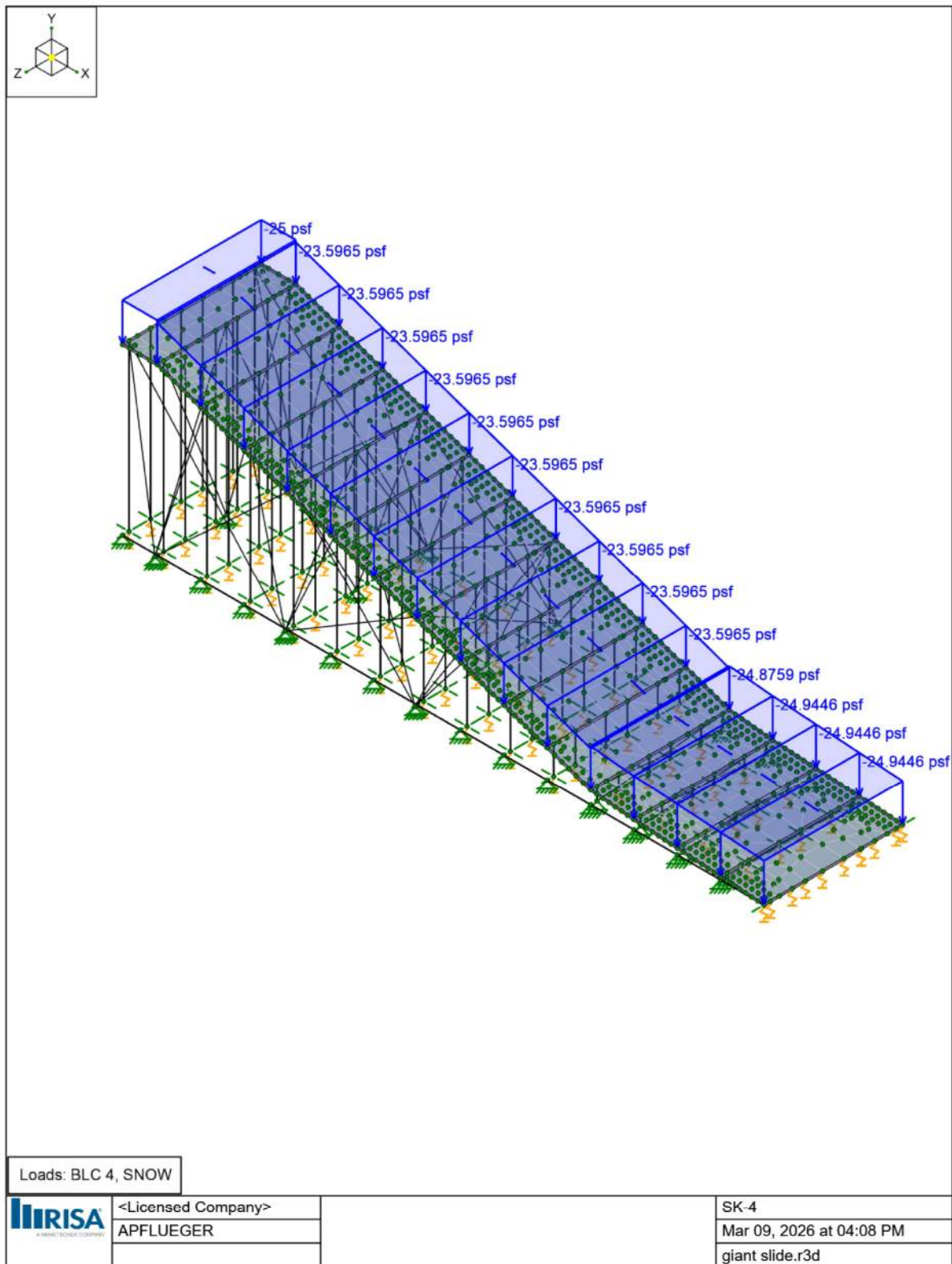


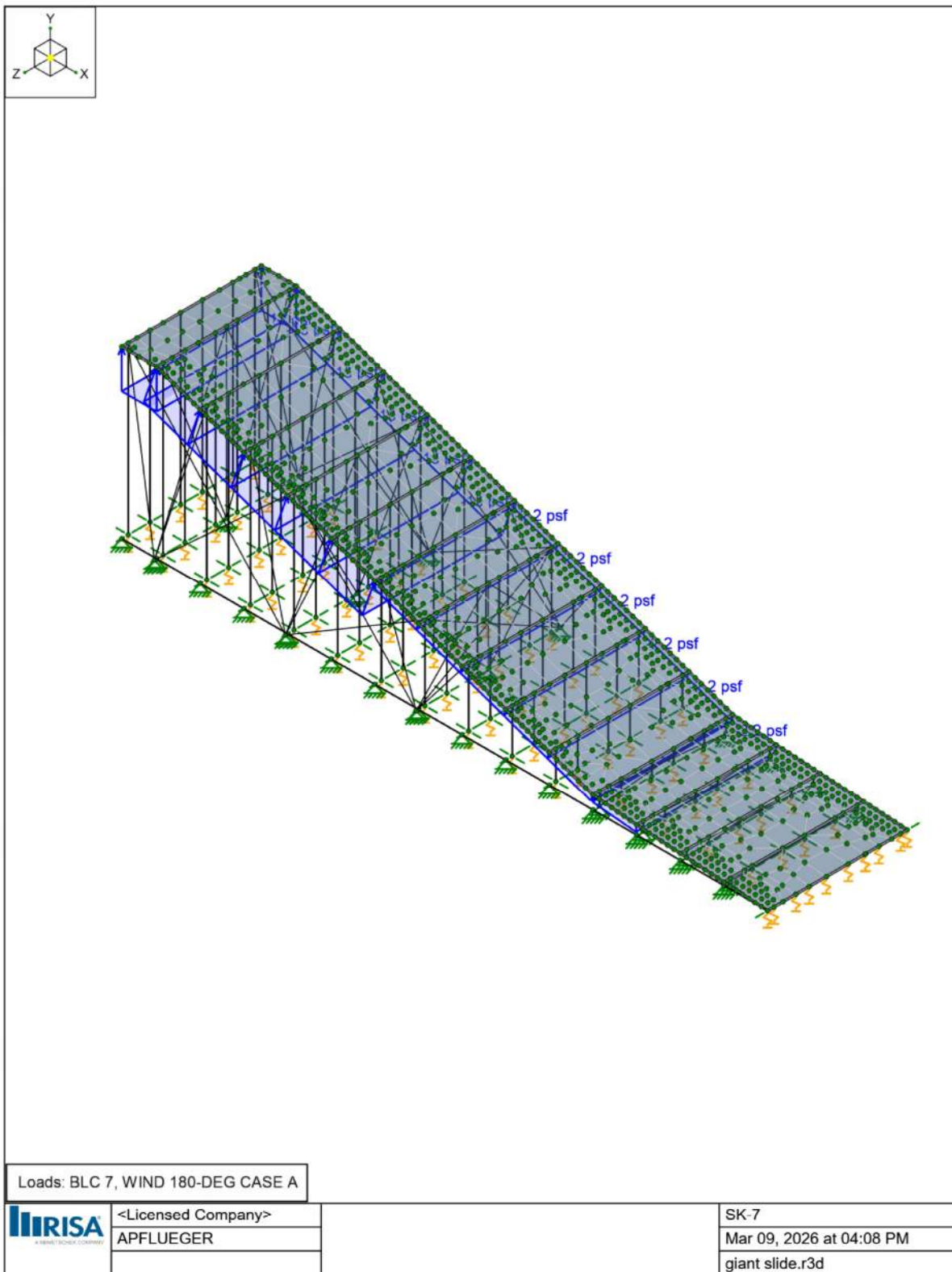


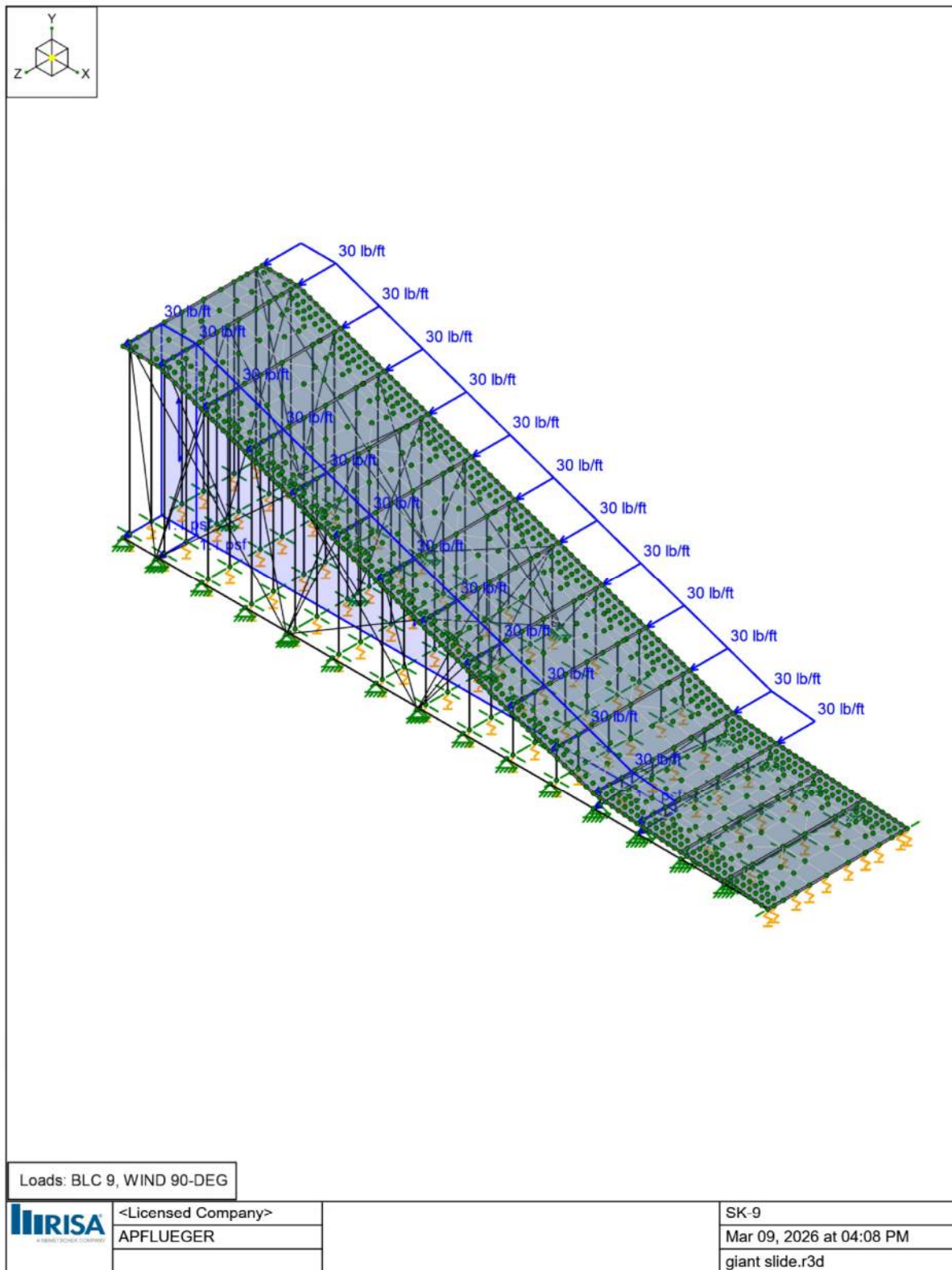


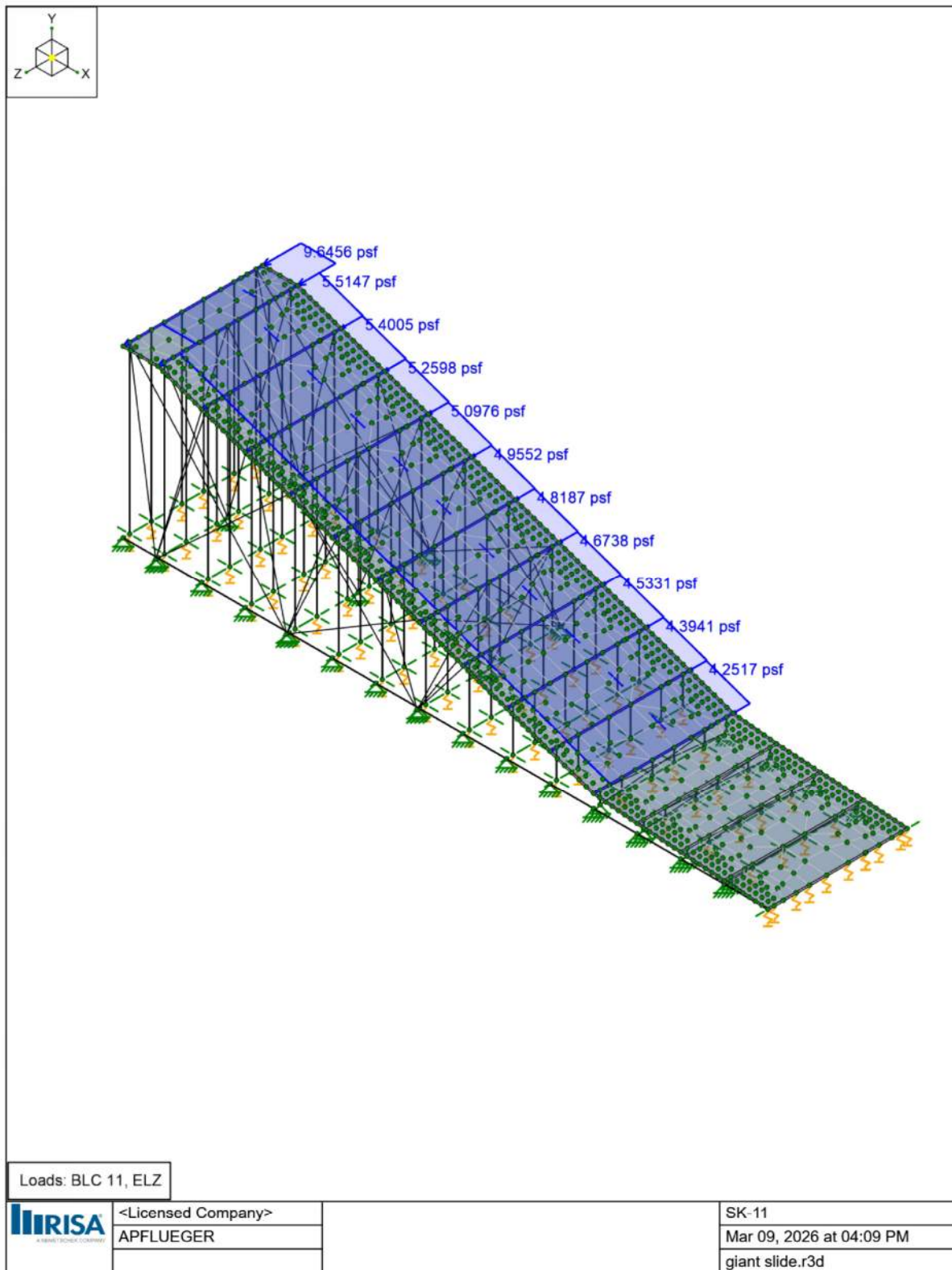


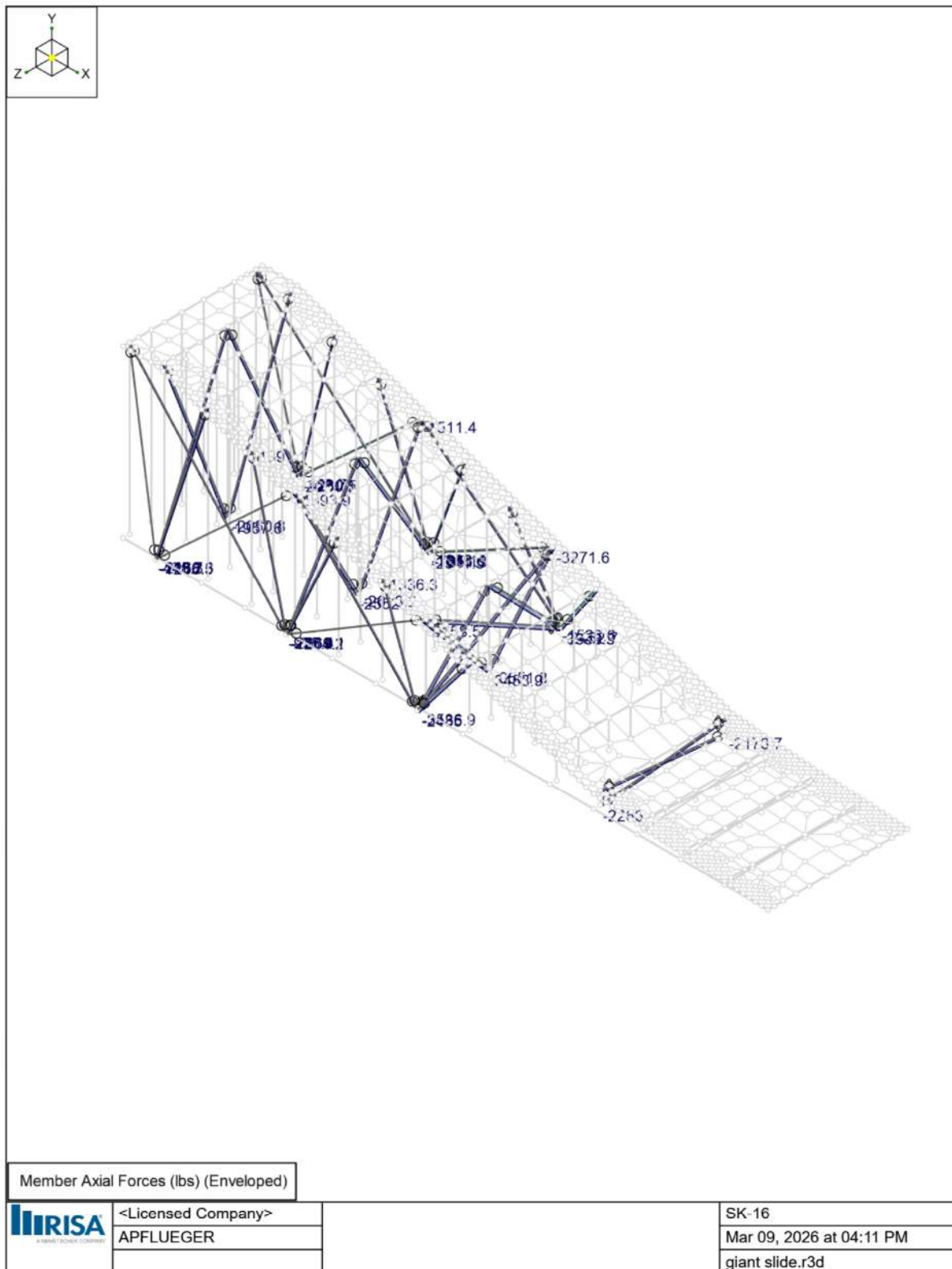


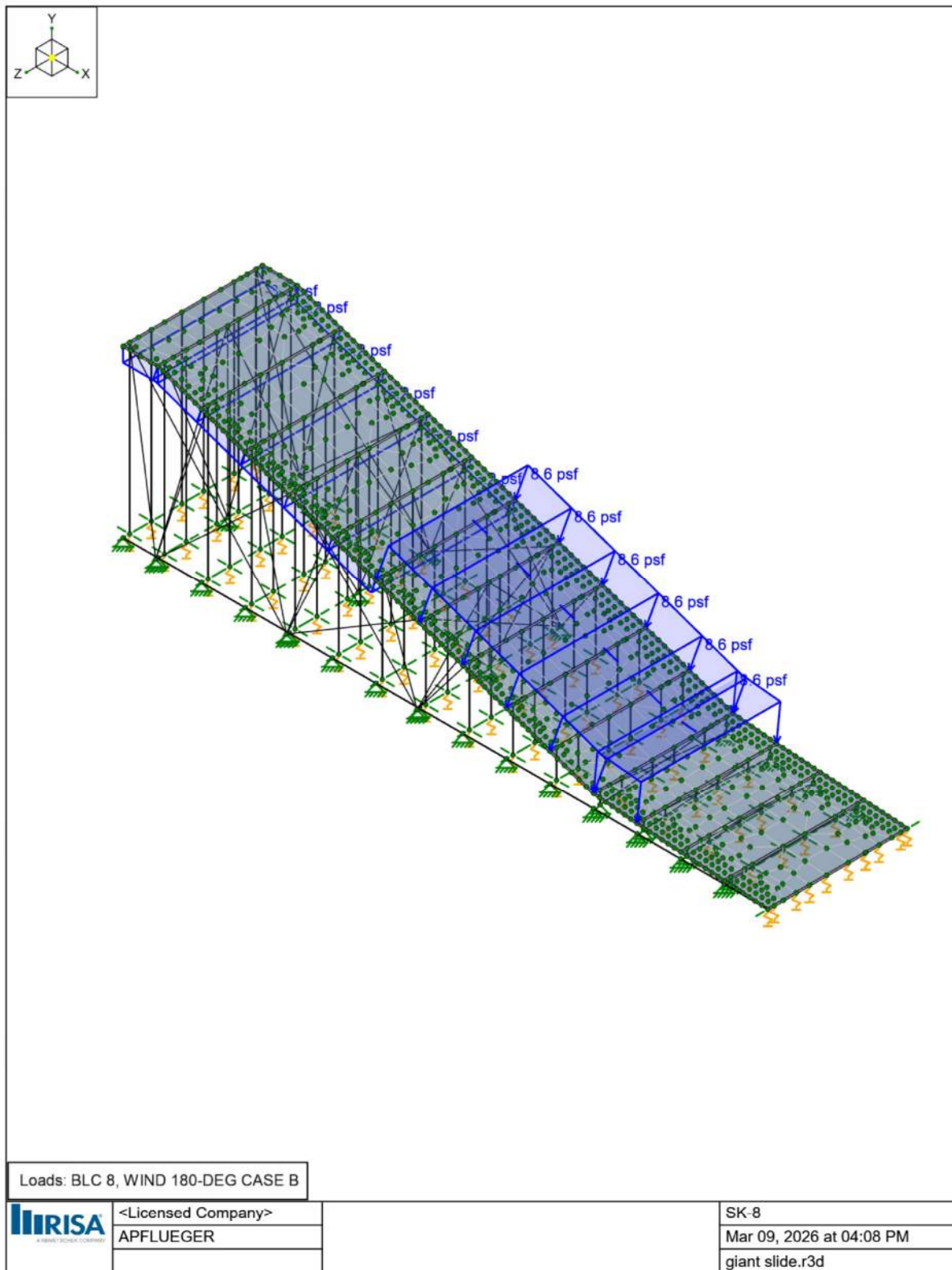


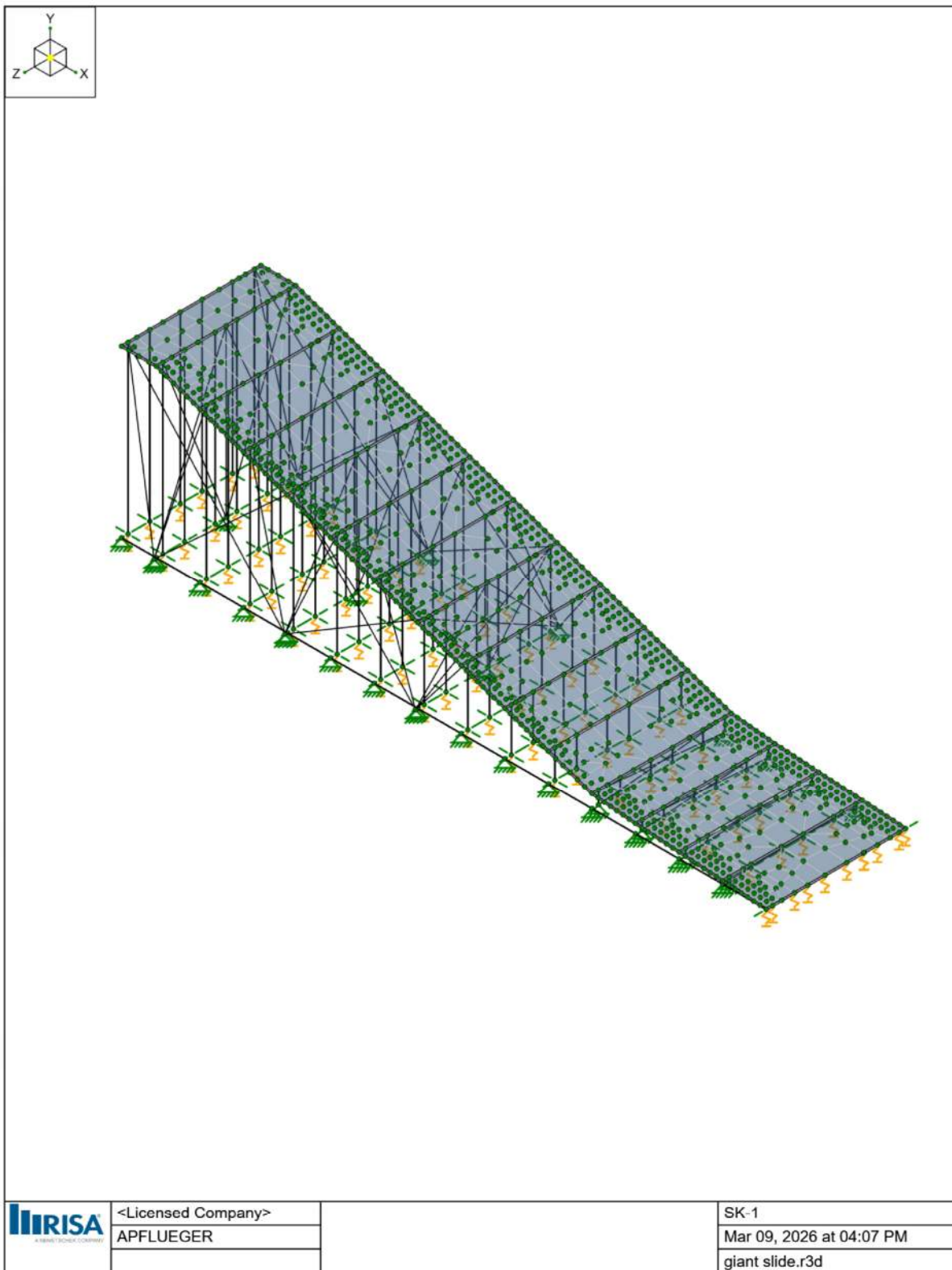


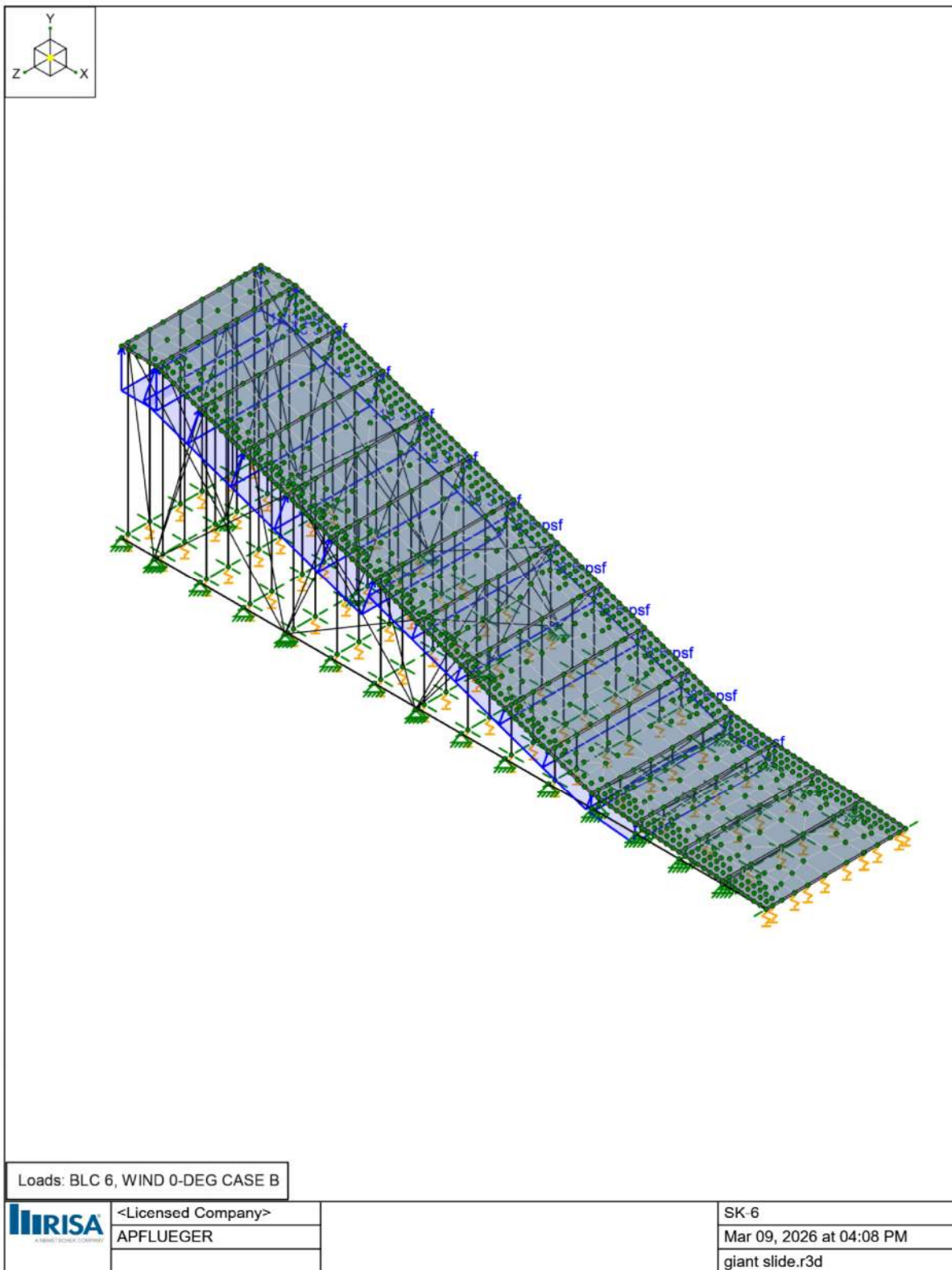


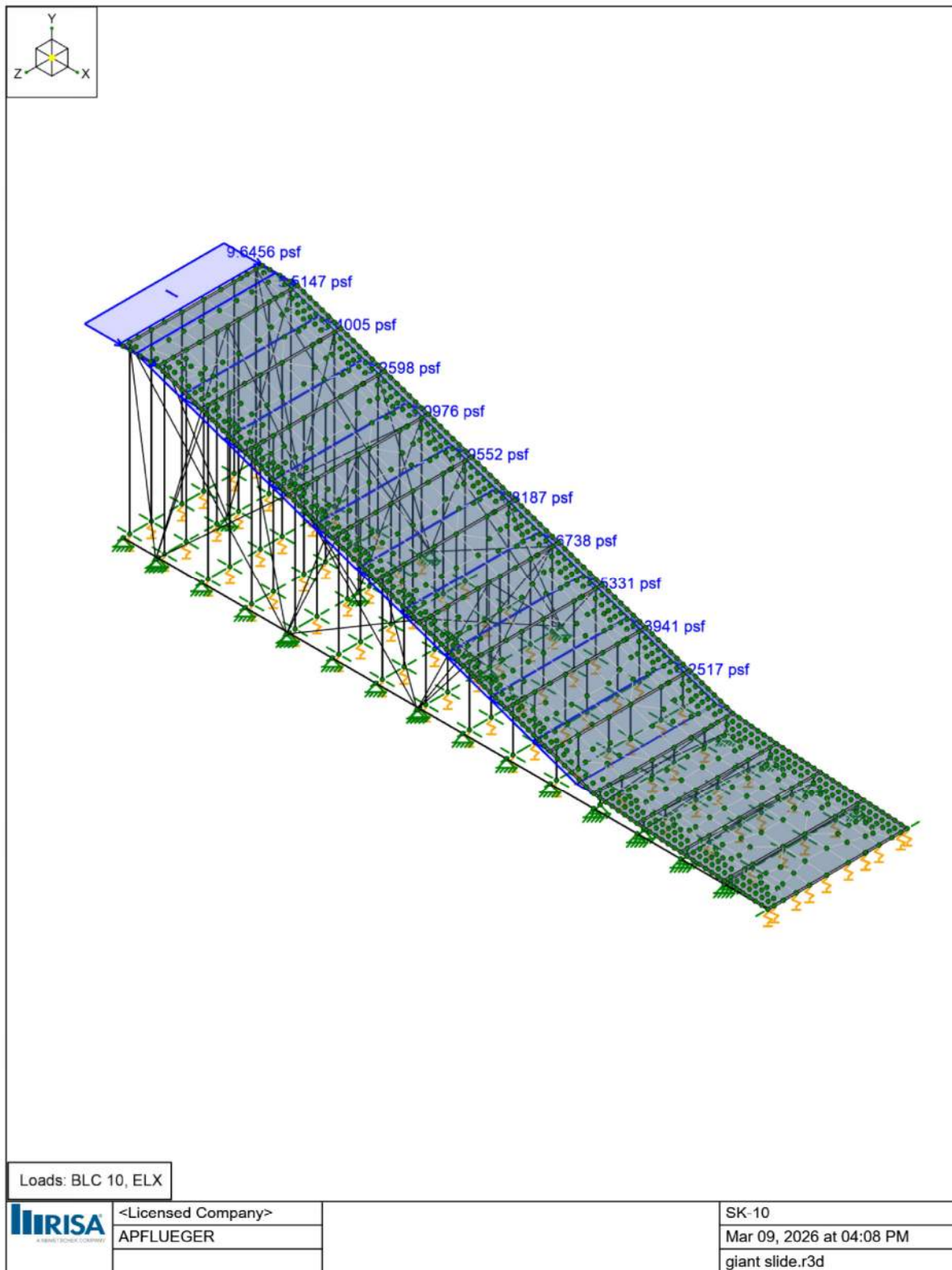












Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	0	38.001	0	
2	N2	8	38.001	0	
3	N3	18	34.501	0	
4	N4	28	31.001	0	
5	N5	38	27.501	0	
6	N6	48	24.001	0	
7	N7	58	20.501	0	
8	N8	68	17.001	0	
9	N9	78	13.501	0	
10	N10	88	10.001	0	
11	N11	98	6.501	0	
12	N12	108	3.001	0	
13	N13	118	2.001	0	
14	N14	128	1.334	0	
15	N15	138	0.667	0	
16	N16	148	0	0	
17	N17	0	38.001	1.5	
18	N18	8	38.001	1.5	
19	N19	18	34.501	1.5	
20	N20	28	31.001	1.5	
21	N21	38	27.501	1.5	
22	N22	48	24.001	1.5	
23	N23	58	20.501	1.5	
24	N24	68	17.001	1.5	
25	N25	78	13.501	1.5	
26	N26	88	10.001	1.5	
27	N27	98	6.501	1.5	
28	N28	108	3.001	1.5	
29	N29	118	2.001	1.5	
30	N30	128	1.334	1.5	
31	N31	138	0.667	1.5	
32	N32	148	0	1.5	
33	N33	0	38.001	6.5	
34	N34	8	38.001	6.5	
35	N35	18	34.501	6.5	
36	N36	28	31.001	6.5	
37	N37	38	27.501	6.5	
38	N38	48	24.001	6.5	
39	N39	58	20.501	6.5	
40	N40	68	17.001	6.5	
41	N41	78	13.501	6.5	
42	N42	88	10.001	6.5	
43	N43	98	6.501	6.5	
44	N44	108	3.001	6.5	
45	N45	118	2.001	6.5	
46	N46	128	1.334	6.5	
47	N47	138	0.667	6.5	
48	N48	148	0	6.5	
49	N49	0	38.001	13.5	
50	N50	8	38.001	13.5	
51	N51	18	34.501	13.5	
52	N52	28	31.001	13.5	
53	N53	38	27.501	13.5	
54	N54	48	24.001	13.5	
55	N55	58	20.501	13.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
56	N56	68	17.001	13.5	
57	N57	78	13.501	13.5	
58	N58	88	10.001	13.5	
59	N59	98	6.501	13.5	
60	N60	108	3.001	13.5	
61	N61	118	2.001	13.5	
62	N62	128	1.334	13.5	
63	N63	138	0.667	13.5	
64	N64	148	0	13.5	
65	N65	0	38.001	18.5	
66	N66	8	38.001	18.5	
67	N67	18	34.501	18.5	
68	N68	28	31.001	18.5	
69	N69	38	27.501	18.5	
70	N70	48	24.001	18.5	
71	N71	58	20.501	18.5	
72	N72	68	17.001	18.5	
73	N73	78	13.501	18.5	
74	N74	88	10.001	18.5	
75	N75	98	6.501	18.5	
76	N76	108	3.001	18.5	
77	N77	118	2.001	18.5	
78	N78	128	1.334	18.5	
79	N79	138	0.667	18.5	
80	N80	148	0	18.5	
81	N81	0	38.001	25.5	
82	N82	8	38.001	25.5	
83	N83	18	34.501	25.5	
84	N84	28	31.001	25.5	
85	N85	38	27.501	25.5	
86	N86	48	24.001	25.5	
87	N87	58	20.501	25.5	
88	N88	68	17.001	25.5	
89	N89	78	13.501	25.5	
90	N90	88	10.001	25.5	
91	N91	98	6.501	25.5	
92	N92	108	3.001	25.5	
93	N93	118	2.001	25.5	
94	N94	128	1.334	25.5	
95	N95	138	0.667	25.5	
96	N96	148	0	25.5	
97	N97	0	38.001	30.5	
98	N98	8	38.001	30.5	
99	N99	18	34.501	30.5	
100	N100	28	31.001	30.5	
101	N101	38	27.501	30.5	
102	N102	48	24.001	30.5	
103	N103	58	20.501	30.5	
104	N104	68	17.001	30.5	
105	N105	78	13.501	30.5	
106	N106	88	10.001	30.5	
107	N107	98	6.501	30.5	
108	N108	108	3.001	30.5	
109	N109	118	2.001	30.5	
110	N110	128	1.334	30.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
111	N111	138	0.667	30.5	
112	N112	148	0	30.5	
113	N113	0	38.001	32	
114	N114	8	38.001	32	
115	N115	18	34.501	32	
116	N116	28	31.001	32	
117	N117	38	27.501	32	
118	N118	48	24.001	32	
119	N119	58	20.501	32	
120	N120	68	17.001	32	
121	N121	78	13.501	32	
122	N122	88	10.001	32	
123	N123	98	6.501	32	
124	N124	108	3.001	32	
125	N125	118	2.001	32	
126	N126	128	1.334	32	
127	N127	138	0.667	32	
128	N128	148	0	32	
129	N129	0	0	1.5	
130	N130	0	0	6.5	
131	N131	0	0	13.5	
132	N132	0	0	18.5	
133	N133	0	0	25.5	
134	N134	0	0	30.5	
135	N135	8	0	13.5	
136	N136	8	0	25.5	
137	N137	8	0	1.5	
138	N138	8	0	6.5	
139	N139	8	0	18.5	
140	N140	8	0	30.5	
141	N141	18	0	6.5	
142	N142	18	0	13.5	
143	N143	18	0	25.5	
144	N144	18	0	1.5	
145	N145	18	0	18.5	
146	N146	18	0	30.5	
147	N153	28	0	6.5	
148	N154	28	0	13.5	
149	N155	28	0	25.5	
150	N156	28	0	1.5	
151	N157	28	0	18.5	
152	N158	28	0	30.5	
153	N165	38	0	6.5	
154	N166	38	0	13.5	
155	N167	38	0	25.5	
156	N168	38	0	1.5	
157	N169	38	0	18.5	
158	N170	38	0	30.5	
159	N177	48	0	6.5	
160	N178	48	0	25.5	
161	N179	48	0	30.5	
162	N180	48	0	13.5	
163	N181	48	0	1.5	
164	N182	48	0	18.5	
165	N189	58	0	6.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
166	N190	58	0	25.5	
167	N191	58	0	30.5	
168	N192	58	0	13.5	
169	N193	58	0	1.5	
170	N194	58	0	18.5	
171	N201	68	0	6.5	
172	N202	68	0	25.5	
173	N203	68	0	30.5	
174	N204	68	0	13.5	
175	N205	68	0	1.5	
176	N206	68	0	18.5	
177	N213	78	0	6.5	
178	N214	78	0	25.5	
179	N215	78	0	30.5	
180	N216	78	0	13.5	
181	N217	78	0	1.5	
182	N218	78	0	18.5	
183	N225	88	0	6.5	
184	N226	88	0	25.5	
185	N227	88	0	30.5	
186	N228	88	0	13.5	
187	N229	88	0	1.5	
188	N230	88	0	18.5	
189	N237	98	0	6.5	
190	N238	98	0	25.5	
191	N239	98	0	30.5	
192	N240	98	0	13.5	
193	N241	98	0	1.5	
194	N242	98	0	18.5	
195	N249	108	0	6.5	
196	N250	108	0	25.5	
197	N251	108	0	30.5	
198	N252	108	0	13.5	
199	N253	108	0	1.5	
200	N254	108	0	18.5	
201	N261	118	0	25.5	
202	N262	118	0	13.5	
203	N263	118	0	30.5	
204	N264	118	0	6.5	
205	N265	118	0	1.5	
206	N266	118	0	18.5	
207	N273	128	0	25.5	
208	N274	128	0	13.5	
209	N275	128	0	30.5	
210	N276	128	0	6.5	
211	N277	128	0	1.5	
212	N278	128	0	18.5	
213	N285	138	0	25.5	
214	N286	138	0	13.5	
215	N287	138	0	30.5	
216	N288	138	0	6.5	
217	N289	138	0	1.5	
218	N290	138	0	18.5	
219	N297	8	0	32.5	
220	N298	38	0	32.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
221	N299	68	0	32.5	
222	N222	8	0	-0.5	
223	N223	38	0	-0.5	
224	N224	68	0	-0.5	
225	N300	0	38.001	9.549377	
226	N301	4	38.001	9.932817	
227	N302	4	38.001	13.895107	
228	N303	4	38.001	18.108249	
229	N304	4	38.001	2.676696	
230	N305	8	38.001	3.538348	
231	N306	4	38.001	6.47312	
232	N307	8	38.001	9.549377	
233	N308	1.61411	38.001	1.285841	
234	N309	0	38.001	3.538348	
235	N310	6.38589	38.001	1.285841	
236	N311	4	38.001	0	
237	N312	6.315342	38.001	0	
238	N313	4	38.001	22.066815	
239	N314	4	38.001	25.525028	
240	N315	0	38.001	22.450623	
241	N316	4	38.001	29.322764	
242	N317	0	38.001	28.461652	
243	N318	6.38589	38.001	30.714069	
244	N319	8	38.001	28.461652	
245	N320	1.61411	38.001	30.714069	
246	N321	4	38.001	32	
247	N322	1.684658	38.001	32	
248	N323	8	38.001	22.450623	
249	N324	1.684658	38.001	0	
250	N325	6.315342	38.001	32	
251	N326	39.428571	27.001	0	
252	N327	39.428571	27.001	1.5	
253	N328	76.571429	14.001	1.5	
254	N329	76.571429	14.001	0	
255	N330	26.571429	31.501	1.5	
256	N331	26.571429	31.501	0	
257	N332	53.714286	22.001	0	
258	N333	53.714286	22.001	1.5	
259	N334	52.285714	22.501	1.5	
260	N335	52.285714	22.501	0	
261	N336	36.571429	28.001	1.5	
262	N337	36.571429	28.001	0	
263	N338	42.285714	26.001	1.5	
264	N339	42.285714	26.001	0	
265	N340	43.714286	25.501	0	
266	N341	43.714286	25.501	1.5	
267	N342	33.714286	29.001	0	
268	N343	33.714286	29.001	1.5	
269	N344	32.285714	29.501	1.5	
270	N345	32.285714	29.501	0	
271	N346	49.428571	23.501	0	
272	N347	49.428571	23.501	1.5	
273	N348	56.571429	21.001	1.5	
274	N349	56.571429	21.001	0	
275	N350	46.571429	24.501	1.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
276	N351	46.571429	24.501	0	
277	N352	50.857143	23.001	1.5	
278	N353	50.857143	23.001	0	
279	N354	45.142857	25.001	0	
280	N355	45.142857	25.001	1.5	
281	N356	12.285714	36.501	1.5	
282	N357	12.285714	36.501	0	
283	N358	13.714286	36.001	0	
284	N359	13.714286	36.001	1.5	
285	N360	29.428571	30.501	0	
286	N361	29.428571	30.501	1.5	
287	N362	23.714286	32.501	0	
288	N363	23.714286	32.501	1.5	
289	N364	22.285714	33.001	1.5	
290	N365	22.285714	33.001	0	
291	N366	30.857143	30.001	1.5	
292	N367	30.857143	30.001	0	
293	N368	16.571429	35.001	1.5	
294	N369	16.571429	35.001	0	
295	N370	9.428571	37.501	0	
296	N371	9.428571	37.501	1.5	
297	N372	19.428571	34.001	0	
298	N373	19.428571	34.001	1.5	
299	N374	15.142857	35.501	0	
300	N375	15.142857	35.501	1.5	
301	N376	20.857143	33.501	1.5	
302	N377	20.857143	33.501	0	
303	N378	89.428571	9.501	0	
304	N379	89.428571	9.501	1.5	
305	N380	62.285714	19.001	1.5	
306	N381	62.285714	19.001	0	
307	N382	63.714286	18.501	0	
308	N383	63.714286	18.501	1.5	
309	N384	79.428571	13.001	0	
310	N385	79.428571	13.001	1.5	
311	N386	73.714286	15.001	0	
312	N387	73.714286	15.001	1.5	
313	N388	72.285714	15.501	1.5	
314	N389	72.285714	15.501	0	
315	N390	82.285714	12.001	1.5	
316	N391	82.285714	12.001	0	
317	N392	83.714286	11.501	0	
318	N393	83.714286	11.501	1.5	
319	N394	66.571429	17.501	1.5	
320	N395	66.571429	17.501	0	
321	N396	59.428571	20.001	0	
322	N397	59.428571	20.001	1.5	
323	N398	69.428571	16.501	0	
324	N399	69.428571	16.501	1.5	
325	N400	65.142857	18.001	0	
326	N401	65.142857	18.001	1.5	
327	N402	70.857143	16.001	1.5	
328	N403	70.857143	16.001	0	
329	N404	103.714286	4.501	0	
330	N405	103.714286	4.501	1.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
331	N406	102.285714	5.001	1.5	
332	N407	102.285714	5.001	0	
333	N408	86.571429	10.501	1.5	
334	N409	86.571429	10.501	0	
335	N410	92.285714	8.501	1.5	
336	N411	92.285714	8.501	0	
337	N412	93.714286	8.001	0	
338	N413	93.714286	8.001	1.5	
339	N414	85.142857	11.001	0	
340	N415	85.142857	11.001	1.5	
341	N416	99.428571	6.001	0	
342	N417	99.428571	6.001	1.5	
343	N418	106.571429	3.501	1.5	
344	N419	106.571429	3.501	0	
345	N420	96.571429	7.001	1.5	
346	N421	96.571429	7.001	0	
347	N422	100.857143	5.501	1.5	
348	N423	100.857143	5.501	0	
349	N424	95.142857	7.501	0	
350	N425	95.142857	7.501	1.5	
351	N426	40.857143	26.501	0	
352	N427	40.857143	26.501	1.5	
353	N428	75.142857	14.501	1.5	
354	N429	75.142857	14.501	0	
355	N430	25.142857	32.001	1.5	
356	N431	25.142857	32.001	0	
357	N432	55.142857	21.501	0	
358	N433	55.142857	21.501	1.5	
359	N434	35.142857	28.501	1.5	
360	N435	35.142857	28.501	0	
361	N436	10.857143	37.001	1.5	
362	N437	10.857143	37.001	0	
363	N438	90.857143	9.001	0	
364	N439	90.857143	9.001	1.5	
365	N440	60.857143	19.501	1.5	
366	N441	60.857143	19.501	0	
367	N442	80.857143	12.501	0	
368	N443	80.857143	12.501	1.5	
369	N444	105.142857	4.001	0	
370	N445	105.142857	4.001	1.5	
371	N446	46.571922	24.500827	3.026818	
372	N447	48.010778	23.997228	4.649865	
373	N448	73.840243	14.956915	4.058044	
374	N449	72.453348	15.442328	4.061582	
375	N450	71.372632	15.820579	5.010602	
376	N451	74.915564	14.580552	4.994685	
377	N452	33.838264	28.957607	3.979851	
378	N453	32.456177	29.441338	3.997079	
379	N454	31.388646	29.814974	4.950026	
380	N455	34.919498	28.579176	4.913828	
381	N456	53.81771	21.964801	4.071914	
382	N457	52.416365	22.455272	4.0128	
383	N458	51.253529	22.862265	5.035132	
384	N459	54.907131	21.583504	5.02136	
385	N460	43.731909	25.494832	4.05631	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
386	N461	42.302762	25.995033	3.986111	
387	N462	41.094299	26.417995	5.01679	
388	N463	44.85671	25.101151	5.023032	
389	N464	44.917124	25.080006	6.5	
390	N465	38.00053	27.500815	4.651792	
391	N466	41.082876	26.421993	6.5	
392	N467	42.290716	25.999249	2.869414	
393	N468	40.866085	26.49787	3.024133	
394	N469	43.732269	25.494706	2.850489	
395	N470	45.139882	25.002041	3.026446	
396	N471	39.424246	27.002514	3.030174	
397	N472	56.57501	20.999746	3.011513	
398	N473	58.000007	20.500998	4.662618	
399	N474	51.082876	22.921993	6.5	
400	N475	54.917124	21.580006	6.5	
401	N476	52.300426	22.495851	2.827214	
402	N477	50.861921	22.999327	3.031932	
403	N478	53.733443	21.994295	2.815223	
404	N479	55.141171	21.50159	3.000467	
405	N480	49.422058	23.50328	3.034757	
406	N481	23.662818	32.519014	3.989073	
407	N482	22.293539	32.998261	3.995915	
408	N483	21.100272	33.415905	5.021786	
409	N484	24.84912	32.103808	5.027651	
410	N485	36.574233	28.000019	2.922508	
411	N486	28.009904	30.997534	4.802012	
412	N487	31.082876	29.921993	6.5	
413	N488	34.917124	28.580006	6.5	
414	N489	32.301724	29.495396	2.807501	
415	N490	30.873458	29.99529	3.032276	
416	N491	33.738452	28.992542	2.786038	
417	N492	35.142562	28.501103	2.948204	
418	N493	29.425592	30.502043	3.035794	
419	N494	14.57627	35.699306	5.021896	
420	N495	10.659038	37.070337	5.039275	
421	N496	10.970945	36.961169	6.5	
422	N497	14.80981	35.617566	6.5	
423	N498	26.569506	31.501673	3.035102	
424	N499	17.999666	34.501117	4.75461	
425	N500	21.082876	33.421993	6.5	
426	N501	24.917124	32.080006	6.5	
427	N502	22.286709	33.000652	2.861841	
428	N503	20.865551	33.498057	3.026252	
429	N504	23.71358	32.501247	2.858193	
430	N505	25.135633	32.003528	3.041098	
431	N506	19.425829	34.00196	3.022146	
432	N507	16.571992	35.000803	3.100963	
433	N508	13.430117	36.100459	4.01852	
434	N509	11.995143	36.6027	3.900173	
435	N510	13.694394	36.007962	2.772493	
436	N511	15.135997	35.503401	3.097577	
437	N512	12.265454	36.508091	2.772019	
438	N513	10.834881	37.008792	2.779097	
439	N514	9.429218	37.500774	2.663129	
440	N515	86.575756	10.499485	2.929365	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
441	N516	87.999753	10.001086	4.465582	
442	N517	66.5708	17.50122	3.045442	
443	N518	67.999361	17.001224	4.817604	
444	N519	76.570844	14.001204	2.960183	
445	N520	77.991734	13.503893	4.594618	
446	N521	71.082876	15.921993	6.5	
447	N522	74.917124	14.580006	6.5	
448	N523	72.295598	15.497541	2.781983	
449	N524	70.873381	15.995317	3.031939	
450	N525	73.731717	14.994899	2.771961	
451	N526	75.139063	14.502328	2.955661	
452	N527	69.429595	16.500642	3.026557	
453	N528	63.687897	18.510236	4.09928	
454	N529	62.266933	19.007574	4.066048	
455	N530	61.133106	19.404413	5.034658	
456	N531	64.773874	18.130144	5.03741	
457	N532	64.917124	18.080006	6.5	
458	N533	61.082876	19.421993	6.5	
459	N534	62.278837	19.003407	2.865677	
460	N535	60.863694	19.498707	3.031214	
461	N536	63.710334	18.502383	2.882499	
462	N537	65.136497	18.003226	3.041384	
463	N538	59.428947	20.000869	3.02956	
464	N539	96.570425	7.001351	3.017473	
465	N540	98.000428	6.50085	4.670829	
466	N541	83.803549	11.469758	4.042758	
467	N542	82.381187	11.967585	3.952797	
468	N543	81.13333	12.404335	5.020049	
469	N544	84.945958	11.069915	5.031802	
470	N545	84.917124	11.080006	6.5	
471	N546	81.082876	12.421993	6.5	
472	N547	82.296294	11.997297	2.880397	
473	N548	80.860497	12.499826	3.022873	
474	N549	83.74733	11.489435	2.840771	
475	N550	85.137481	11.002882	2.934354	
476	N551	79.430238	13.000417	3.013028	
477	N552	103.929416	4.425704	4.032558	
478	N553	102.470212	4.936426	4.046442	
479	N554	101.335325	5.333636	5.042453	
480	N555	105.094313	4.017991	5.039799	
481	N556	93.687676	8.010313	4.088894	
482	N557	92.277	8.50405	4.042613	
483	N558	91.126846	8.906604	5.026482	
484	N559	94.778755	7.628436	5.038929	
485	N560	94.917124	7.580006	6.5	
486	N561	91.082876	8.921993	6.5	
487	N562	92.277844	8.503755	2.866094	
488	N563	90.856528	9.001215	3.019135	
489	N564	93.704365	8.004472	2.87474	
490	N565	95.134463	7.503938	3.027865	
491	N566	89.425205	9.502178	3.011821	
492	N567	106.578883	3.498391	2.739449	
493	N568	108	3.001	3.541199	
494	N569	101.082876	5.421993	6.5	
495	N570	104.917124	4.080006	6.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
496	N571	102.304578	4.994398	2.779866	
497	N572	100.860102	5.499964	3.010932	
498	N573	103.721049	4.498633	2.772123	
499	N574	105.142351	4.001177	2.778038	
500	N575	99.429914	6.00053	3.00884	
501	N576	41.510626	26.272281	9.401292	
502	N577	74.489353	14.729727	9.402775	
503	N578	73	15.251	13.5	
504	N579	71.936166	15.623342	9.922663	
505	N580	21.510617	33.272284	9.401928	
506	N581	48	24.001	9.98057	
507	N582	51.936172	22.62334	9.922279	
508	N583	53	22.251	13.5	
509	N584	34.489353	28.729727	9.402775	
510	N585	33	29.251	13.5	
511	N586	31.936166	29.623342	9.922663	
512	N587	44.063828	25.37866	9.922279	
513	N588	27.999977	31.001008	9.978527	
514	N589	54.489374	21.729719	9.401292	
515	N590	14.412249	35.756713	9.393726	
516	N591	12.818148	36.314648	13.5	
517	N592	11.876394	36.644262	9.867888	
518	N593	24.063824	32.378662	9.922557	
519	N594	94.489353	7.729727	9.402775	
520	N595	93	8.251	13.5	
521	N596	91.936166	8.623342	9.922663	
522	N597	67.999977	17.001008	9.978527	
523	N598	64.063824	18.378662	9.922557	
524	N599	81.510617	12.272284	9.401928	
525	N600	87.999977	10.001008	9.978527	
526	N601	84.063824	11.378662	9.922557	
527	N602	61.510617	19.272284	9.401928	
528	N603	101.510626	5.272281	9.39435	
529	N604	108	3.001	9.573976	
530	N605	104.063828	4.37866	9.871041	
531	N606	43	25.751	13.5	
532	N607	23	32.751	13.5	
533	N608	63	18.751	13.5	
534	N609	83	11.751	13.5	
535	N610	103	4.751	13.5	
536	N611	33	29.251	18.5	
537	N612	83	11.751	18.5	
538	N613	43	25.751	18.5	
539	N614	53	22.251	18.5	
540	N615	23	32.751	18.5	
541	N616	13	36.251	18.5	
542	N617	73	15.251	18.5	
543	N618	63	18.751	18.5	
544	N619	93	8.251	18.5	
545	N620	103	4.751	18.5	
546	N621	43	25.751	22	
547	N622	38	27.501	22	
548	N623	73	15.251	22	
549	N624	78	13.501	22	
550	N625	73	15.251	25.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
551	N626	22.987467	32.755386	22.00092	
552	N627	28	31.001	22	
553	N628	23	32.751	25.5	
554	N629	48	24.001	22	
555	N630	43	25.751	25.5	
556	N631	33	29.251	22	
557	N632	33	29.251	25.5	
558	N633	53	22.251	22	
559	N634	53	22.251	25.5	
560	N635	58	20.501	22	
561	N636	17.899738	34.536092	22.007363	
562	N637	12.901937	36.285322	22.057248	
563	N638	12.315757	36.490485	25.5	
564	N639	92.955433	8.266599	22.001758	
565	N640	87.994845	10.002804	22.001142	
566	N641	68	17.001	22	
567	N642	83	11.751	22	
568	N643	63	18.751	22	
569	N644	63	18.751	25.5	
570	N645	97.648617	6.623984	22.01292	
571	N646	93	8.251	25.5	
572	N647	83	11.751	25.5	
573	N648	101.891428	5.139	22.076495	
574	N649	101.333333	5.334333	25.5	
575	N650	104.481905	4.232333	22.596082	
576	N651	104.666667	4.167667	25.5	
577	N652	33	29.251	30.5	
578	N653	83	11.751	30.5	
579	N654	43	25.751	30.5	
580	N655	53	22.251	30.5	
581	N656	23	32.751	30.5	
582	N657	13.554992	36.056753	30.5	
583	N659	10.313738	37.191192	30.5	
584	N660	73	15.251	30.5	
585	N661	63	18.751	30.5	
586	N662	93	8.251	30.5	
587	N663	104.666667	4.167667	30.5	
588	N664	101.333333	5.334333	30.5	
589	N665	43	25.751	32	
590	N666	41.75	26.1885	32	
591	N667	41.75	26.1885	30.5	
592	N668	64.25	18.3135	30.5	
593	N669	64.25	18.3135	32	
594	N670	63	18.751	32	
595	N671	15.036661	35.538169	30.5	
596	N672	15.036661	35.538169	32	
597	N673	13.554992	36.056753	32	
598	N674	49.25	23.5635	32	
599	N675	49.25	23.5635	30.5	
600	N676	50.5	23.126	30.5	
601	N677	50.5	23.126	32	
602	N678	36.75	27.9385	32	
603	N679	36.75	27.9385	30.5	
604	N680	40.5	26.626	32	
605	N681	40.5	26.626	30.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
606	N682	44.25	25.3135	32	
607	N683	44.25	25.3135	30.5	
608	N684	45.5	24.876	30.5	
609	N685	45.5	24.876	32	
610	N686	39.25	27.0635	30.5	
611	N687	39.25	27.0635	32	
612	N688	34.25	28.8135	30.5	
613	N689	34.25	28.8135	32	
614	N690	33	29.251	32	
615	N691	55.5	21.376	30.5	
616	N692	55.5	21.376	32	
617	N693	54.25	21.8135	32	
618	N694	54.25	21.8135	30.5	
619	N695	46.75	24.4385	30.5	
620	N696	46.75	24.4385	32	
621	N697	53	22.251	32	
622	N698	56.75	20.9385	32	
623	N699	56.75	20.9385	30.5	
624	N700	51.75	22.6885	30.5	
625	N701	51.75	22.6885	32	
626	N702	24.25	32.3135	32	
627	N703	24.25	32.3135	30.5	
628	N704	25.5	31.876	30.5	
629	N705	25.5	31.876	32	
630	N706	11.934365	36.623972	32	
631	N707	11.934365	36.623972	30.5	
632	N708	16.518331	35.019584	32	
633	N709	16.518331	35.019584	30.5	
634	N710	19.25	34.0635	32	
635	N711	19.25	34.0635	30.5	
636	N712	20.5	33.626	30.5	
637	N713	20.5	33.626	32	
638	N714	9.156869	37.596096	30.5	
639	N715	9.156869	37.596096	32	
640	N716	26.75	31.4385	30.5	
641	N717	26.75	31.4385	32	
642	N718	21.75	33.1885	30.5	
643	N719	21.75	33.1885	32	
644	N720	29.25	30.5635	30.5	
645	N721	29.25	30.5635	32	
646	N722	31.75	29.6885	32	
647	N723	31.75	29.6885	30.5	
648	N724	93	8.251	32	
649	N725	91.75	8.6885	32	
650	N726	91.75	8.6885	30.5	
651	N727	74.25	14.8135	32	
652	N728	74.25	14.8135	30.5	
653	N729	75.5	14.376	30.5	
654	N730	75.5	14.376	32	
655	N731	61.75	19.1885	32	
656	N732	61.75	19.1885	30.5	
657	N733	66.75	17.4385	30.5	
658	N734	66.75	17.4385	32	
659	N735	65.5	17.876	32	
660	N736	65.5	17.876	30.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
661	N737	69.25	16.5635	32	
662	N738	69.25	16.5635	30.5	
663	N739	70.5	16.126	30.5	
664	N740	70.5	16.126	32	
665	N741	59.25	20.0635	30.5	
666	N742	59.25	20.0635	32	
667	N743	76.75	13.9385	30.5	
668	N744	76.75	13.9385	32	
669	N745	71.75	15.6885	30.5	
670	N746	71.75	15.6885	32	
671	N747	79.25	13.0635	30.5	
672	N748	79.25	13.0635	32	
673	N749	81.75	12.1885	32	
674	N750	81.75	12.1885	30.5	
675	N751	83	11.751	32	
676	N752	99.666667	5.917667	32	
677	N753	99.666667	5.917667	30.5	
678	N754	101.333333	5.334333	32	
679	N755	86.75	10.4385	32	
680	N756	86.75	10.4385	30.5	
681	N757	90.5	9.126	32	
682	N758	90.5	9.126	30.5	
683	N759	94.25	7.8135	32	
684	N760	94.25	7.8135	30.5	
685	N761	95.5	7.376	30.5	
686	N762	95.5	7.376	32	
687	N763	89.25	9.5635	30.5	
688	N764	89.25	9.5635	32	
689	N765	84.25	11.3135	30.5	
690	N766	84.25	11.3135	32	
691	N767	103	4.751	30.5	
692	N768	103	4.751	32	
693	N769	96.75	6.9385	30.5	
694	N770	96.75	6.9385	32	
695	N771	106.333333	3.584333	32	
696	N772	106.333333	3.584333	30.5	
697	N773	35.5	28.376	32	
698	N774	35.5	28.376	30.5	
699	N775	23	32.751	32	
700	N776	10.313738	37.191192	32	
701	N777	30.5	30.126	30.5	
702	N778	30.5	30.126	32	
703	N779	73	15.251	32	
704	N780	60.5	19.626	32	
705	N781	60.5	19.626	30.5	
706	N782	80.5	12.626	30.5	
707	N783	80.5	12.626	32	
708	N784	85.5	10.876	32	
709	N785	85.5	10.876	30.5	
710	N786	104.666667	4.167667	32	
711	N787	43	25.751	27.720203	
712	N788	40.5	26.626	28.435152	
713	N789	40.5	26.626	25.5	
714	N790	74.041667	14.886417	29.507354	
715	N791	75.5	14.376	28.435135	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
716	N792	24.042331	32.386184	29.50424	
717	N793	25.500383	31.875866	28.434052	
718	N794	49.041667	23.636417	29.50741	
719	N795	50.5	23.126	28.435188	
720	N796	38	27.501	27.720658	
721	N797	35.5	28.376	28.435221	
722	N798	35.5	28.376	25.5	
723	N799	44.041667	25.386417	29.506629	
724	N800	45.5	24.876	28.435364	
725	N801	41.958333	26.115583	29.506974	
726	N802	43	25.751	29.38804	
727	N803	45.5	24.876	25.5	
728	N804	33	29.251	27.720742	
729	N805	39.041667	27.136417	29.507086	
730	N806	36.958333	27.865583	29.507097	
731	N807	38	27.501	29.388152	
732	N808	34.041667	28.886417	29.507121	
733	N809	54.041667	21.886417	29.507398	
734	N810	55.5	21.376	28.435203	
735	N811	48	24.001	27.721129	
736	N812	50.5	23.126	25.5	
737	N813	46.958333	24.365583	29.507177	
738	N814	48	24.001	29.388143	
739	N815	56.958333	20.865583	29.506842	
740	N816	58	20.501	27.721231	
741	N817	58	20.501	29.388074	
742	N818	53	22.251	27.721073	
743	N819	55.5	21.376	25.5	
744	N820	51.958333	22.615583	29.507123	
745	N821	53	22.251	29.388114	
746	N822	16.207071	35.128525	25.5	
747	N823	16.311261	35.092059	27.334371	
748	N824	13.82662	35.961683	27.544545	
749	N825	14.134402	35.853959	25.5	
750	N826	29.041672	30.636415	29.506397	
751	N827	30.500003	30.125999	28.435397	
752	N828	23.003049	32.749933	27.714031	
753	N829	20.517913	33.619731	28.395716	
754	N830	20.5	33.626	25.5	
755	N831	25.5	31.876	25.5	
756	N832	21.961291	33.114548	29.498006	
757	N833	23.002477	32.750133	29.380236	
758	N834	31.958334	29.615583	29.507151	
759	N835	33	29.251	29.388204	
760	N836	28.000054	31.000981	27.720976	
761	N837	30.5	30.126	25.5	
762	N838	26.958409	31.365557	29.506926	
763	N839	28.000065	31.000977	29.387968	
764	N840	12.717155	36.349996	26.938234	
765	N841	19.075392	34.124613	29.43535	
766	N842	15.037463	35.537888	29.149585	
767	N843	16.508578	35.022998	28.950342	
768	N844	18.039934	34.487023	29.191596	
769	N845	18.144506	34.450423	27.524785	
770	N846	10.795865	37.022447	27.216215	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
771	N847	9.275647	37.554524	26.833514	
772	N848	10.459114	37.14031	28.670042	
773	N849	9.156876	37.596094	28.468901	
774	N850	93.005574	8.249049	27.71951	
775	N851	90.501043	9.125635	28.435204	
776	N852	90.5	9.126	25.5	
777	N853	68	17.001	27.720534	
778	N854	65.5	17.876	28.435393	
779	N855	65.5	17.876	25.5	
780	N856	79.041667	13.136417	29.507402	
781	N857	80.5	12.626	28.435216	
782	N858	73	15.251	27.720883	
783	N859	70.5	16.126	28.435501	
784	N860	70.5	16.126	25.5	
785	N861	75.5	14.376	25.5	
786	N862	71.958333	15.615583	29.507158	
787	N863	73	15.251	29.388106	
788	N864	81.958333	12.115583	29.506847	
789	N865	83.000001	11.751	27.721235	
790	N866	83.000001	11.751	29.388077	
791	N867	78	13.501	27.721082	
792	N868	80.5	12.626	25.5	
793	N869	76.958333	13.865583	29.507122	
794	N870	78	13.501	29.388113	
795	N871	63	18.751	27.721162	
796	N872	60.5	19.626	28.434575	
797	N873	60.5	19.626	25.5	
798	N874	69.041667	16.636417	29.507144	
799	N875	66.958333	17.365583	29.507126	
800	N876	68	17.001	29.388212	
801	N877	64.041667	18.386417	29.507307	
802	N878	61.958333	19.115583	29.506158	
803	N879	63	18.751	29.387285	
804	N880	59.041667	20.136417	29.506738	
805	N881	99.323799	6.03767	29.475746	
806	N882	100.62371	5.582701	28.298735	
807	N883	88.000159	10.000944	27.721139	
808	N884	85.500006	10.875998	28.434581	
809	N885	85.5	10.876	25.5	
810	N886	94.048773	7.883929	29.505656	
811	N887	95.532933	7.364473	28.430304	
812	N888	91.960332	8.614884	29.506757	
813	N889	93.006082	8.248871	29.387179	
814	N890	95.5	7.376	25.5	
815	N891	89.041884	9.636341	29.50727	
816	N892	86.958347	10.365579	29.506166	
817	N893	88.0001	10.000965	29.38728	
818	N894	84.041668	11.386416	29.506741	
819	N895	102.603564	4.889753	28.465953	
820	N896	98.18245	6.437143	27.694202	
821	N897	97.016399	6.84526	29.496917	
822	N898	98.136631	6.453179	29.361541	
823	N899	106.611111	3.487111	28.485273	
824	N900	108	3.001	28.41164	
825	N1063	108	3.001	9.651387	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
826	N1071	148	0	9.651387	
827	N1136	108	3.001	28.464713	
828	N1137	112.285714	2.572429	1.5	
829	N1138	112.285714	2.572429	0	
830	N1139	113.714286	2.429571	0	
831	N1140	113.714286	2.429571	1.5	
832	N1141	115.142857	2.286714	0	
833	N1142	115.142857	2.286714	1.5	
834	N1143	109.428571	2.858143	0	
835	N1144	109.428571	2.858143	1.5	
836	N1145	116.571429	2.143857	1.5	
837	N1146	116.571429	2.143857	0	
838	N1147	110.857143	2.715286	1.5	
839	N1148	110.857143	2.715286	0	
840	N1149	129.428571	1.238714	0	
841	N1150	129.428571	1.238714	1.5	
842	N1151	143.714286	0.285857	0	
843	N1152	143.714286	0.285857	1.5	
844	N1153	142.285714	0.381143	1.5	
845	N1154	142.285714	0.381143	0	
846	N1155	123.714286	1.619857	0	
847	N1156	123.714286	1.619857	1.5	
848	N1157	122.285714	1.715143	1.5	
849	N1158	122.285714	1.715143	0	
850	N1159	132.285714	1.048143	1.5	
851	N1160	132.285714	1.048143	0	
852	N1161	133.714286	0.952857	0	
853	N1162	133.714286	0.952857	1.5	
854	N1163	120.857143	1.810429	1.5	
855	N1164	120.857143	1.810429	0	
856	N1165	126.571429	1.429286	1.5	
857	N1166	126.571429	1.429286	0	
858	N1167	119.428571	1.905714	0	
859	N1168	119.428571	1.905714	1.5	
860	N1169	139.428571	0.571714	0	
861	N1170	139.428571	0.571714	1.5	
862	N1171	146.571429	0.095286	1.5	
863	N1172	146.571429	0.095286	0	
864	N1173	136.571429	0.762286	1.5	
865	N1174	136.571429	0.762286	0	
866	N1175	140.857143	0.476429	1.5	
867	N1176	140.857143	0.476429	0	
868	N1177	135.142857	0.857571	0	
869	N1178	135.142857	0.857571	1.5	
870	N1179	130.857143	1.143429	0	
871	N1180	130.857143	1.143429	1.5	
872	N1181	145.142857	0.190571	0	
873	N1182	145.142857	0.190571	1.5	
874	N1183	125.142857	1.524571	0	
875	N1184	125.142857	1.524571	1.5	
876	N1185	112.2325	2.57775	4.164455	
877	N1186	113.691465	2.431854	4.10985	
878	N1187	114.913404	2.30966	5.104893	
879	N1188	111.07941	2.693059	5.096317	
880	N1189	109.419595	2.85904	2.757701	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
881	N1190	108	3.001	3.524298	
882	N1191	118	2.001	3.524298	
883	N1192	114.91141	2.309859	6.5	
884	N1193	111.08859	2.692141	6.5	
885	N1194	113.720459	2.428954	2.917073	
886	N1195	115.142505	2.286749	2.947965	
887	N1196	112.270045	2.573995	2.895919	
888	N1197	110.856005	2.715399	2.942837	
889	N1198	116.581666	2.142833	2.82234	
890	N1199	132.241079	1.05112	4.121293	
891	N1200	133.716791	0.95269	4.118822	
892	N1201	134.897859	0.873913	5.108777	
893	N1202	131.074386	1.128938	5.041203	
894	N1203	121.995746	1.734484	4.018044	
895	N1204	123.483663	1.63524	4.027162	
896	N1205	124.638279	1.558227	4.982051	
897	N1206	120.811411	1.813479	5.007416	
898	N1207	139.432078	0.57148	3.098248	
899	N1208	137.998566	0.667096	4.672567	
900	N1209	129.425403	1.238926	2.937623	
901	N1210	127.999734	1.334018	4.562799	
902	N1211	134.911111	0.873029	6.5	
903	N1212	131.088889	1.127971	6.5	
904	N1213	133.729816	0.951821	2.905091	
905	N1214	135.133366	0.858204	2.950621	
906	N1215	132.266778	1.049406	2.889088	
907	N1216	130.857241	1.143422	2.93577	
908	N1217	136.566299	0.762628	2.948319	
909	N1218	142.465695	0.369138	3.986855	
910	N1219	143.939051	0.270865	4.025484	
911	N1220	145.173296	0.188541	5.035461	
912	N1221	141.203576	0.453321	5.016217	
913	N1222	141.088889	0.460971	6.5	
914	N1223	148	0	3.523406	
915	N1224	144.911111	0.206029	6.5	
916	N1225	143.754731	0.283159	2.791303	
917	N1226	145.16156	0.189324	2.784139	
918	N1227	142.289614	0.380883	2.87058	
919	N1228	140.861448	0.476141	3.097825	
920	N1229	146.565746	0.095665	2.680019	
921	N1230	119.412571	1.906781	2.7624	
922	N1232	124.911111	1.540029	6.5	
923	N1233	121.088889	1.794971	6.5	
924	N1234	123.698979	1.620878	2.822609	
925	N1235	125.124013	1.525828	3.073846	
926	N1236	122.267441	1.716362	2.773578	
927	N1237	120.847712	1.811058	2.789699	
928	N1238	126.567621	1.42954	2.97355	
929	N1239	111.264338	2.674566	9.948326	
930	N1240	111.032005	2.697799	13.5	
931	N1241	114.490814	2.351919	13.5	
932	N1242	114.598395	2.341161	9.935411	
933	N1243	118	2.001	9.534965	
934	N1244	134.495233	0.900768	9.403626	
935	N1245	133	1.0005	13.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
936	N1246	131.973463	1.06897	9.92407	
937	N1247	124.666667	1.556333	13.5	
938	N1248	124.701674	1.553998	9.989714	
939	N1249	128.292468	1.314492	9.988934	
940	N1250	141.510658	0.432839	9.393338	
941	N1251	148	0	9.533129	
942	N1252	144.063832	0.262542	9.865808	
943	N1254	121.337709	1.778375	9.940355	
944	N1255	121.333333	1.778667	13.5	
945	N1256	143	0.3335	13.5	
946	N1257	113.714286	2.429571	30.5	
947	N1258	113.714286	2.429571	32	
948	N1259	112.285714	2.572429	32	
949	N1260	112.285714	2.572429	30.5	
950	N1261	110.857143	2.715286	32	
951	N1262	110.857143	2.715286	30.5	
952	N1263	116.571429	2.143857	32	
953	N1264	116.571429	2.143857	30.5	
954	N1265	109.428571	2.858143	30.5	
955	N1266	109.428571	2.858143	32	
956	N1267	115.142857	2.286714	30.5	
957	N1268	115.142857	2.286714	32	
958	N1269	129.428571	1.238714	30.5	
959	N1270	129.428571	1.238714	32	
960	N1271	143.714286	0.285857	30.5	
961	N1272	143.714286	0.285857	32	
962	N1273	142.285714	0.381143	32	
963	N1274	142.285714	0.381143	30.5	
964	N1275	123.714286	1.619857	30.5	
965	N1276	123.714286	1.619857	32	
966	N1277	122.285714	1.715143	32	
967	N1278	122.285714	1.715143	30.5	
968	N1279	132.285714	1.048143	32	
969	N1280	132.285714	1.048143	30.5	
970	N1281	133.714286	0.952857	30.5	
971	N1282	133.714286	0.952857	32	
972	N1283	120.857143	1.810429	32	
973	N1284	120.857143	1.810429	30.5	
974	N1285	126.571429	1.429286	32	
975	N1286	126.571429	1.429286	30.5	
976	N1287	119.428571	1.905714	30.5	
977	N1288	119.428571	1.905714	32	
978	N1289	139.428571	0.571714	30.5	
979	N1290	139.428571	0.571714	32	
980	N1291	146.571429	0.095286	32	
981	N1292	146.571429	0.095286	30.5	
982	N1293	136.571429	0.762286	32	
983	N1294	136.571429	0.762286	30.5	
984	N1295	140.857143	0.476429	32	
985	N1296	140.857143	0.476429	30.5	
986	N1297	135.142857	0.857571	30.5	
987	N1298	135.142857	0.857571	32	
988	N1299	130.857143	1.143429	30.5	
989	N1300	130.857143	1.143429	32	
990	N1301	145.142857	0.190571	30.5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
991	N1302	145.142857	0.190571	32	
992	N1303	125.142857	1.524571	30.5	
993	N1304	125.142857	1.524571	32	
994	N1305	113.767861	2.424214	27.940746	
995	N1306	112.307983	2.570202	27.969574	
996	N1307	111.0466	2.69634	26.942629	
997	N1308	114.986223	2.302378	26.922319	
998	N1309	116.577025	2.143298	29.252419	
999	N1310	118	2.001	28.475702	
1000	N1311	108	3.001	28.475702	
1001	N1312	111.08859	2.692141	25.5	
1002	N1313	114.91141	2.309859	25.5	
1003	N1314	112.281706	2.572829	29.108183	
1004	N1315	110.859503	2.71505	29.050811	
1005	N1316	113.737438	2.427256	29.144219	
1006	N1317	115.143335	2.286666	29.099416	
1007	N1318	109.424259	2.858574	29.2287	
1008	N1319	126.559275	1.430096	29.047194	
1009	N1320	127.994353	1.334377	27.542283	
1010	N1321	136.571934	0.762252	28.982637	
1011	N1322	137.997842	0.667144	27.323869	
1012	N1323	123.758576	1.616903	27.836806	
1013	N1324	122.289527	1.714889	27.870564	
1014	N1325	121.091557	1.794793	26.891898	
1015	N1326	124.909018	1.540168	26.899658	
1016	N1327	124.911111	1.540029	25.5	
1017	N1329	121.088889	1.794971	25.5	
1018	N1330	122.270278	1.716172	29.084254	
1019	N1331	120.86391	1.809977	29.061134	
1020	N1332	123.73414	1.618533	29.107795	
1021	N1333	125.140393	1.524736	29.044863	
1022	N1334	119.412041	1.906817	29.164193	
1023	N1335	143.801237	0.280058	28.047866	
1024	N1336	142.359902	0.376195	27.917598	
1025	N1337	141.163382	0.456002	26.936049	
1026	N1338	145.147136	0.190286	26.917602	
1027	N1339	133.607826	0.959958	27.931698	
1028	N1340	132.238519	1.051291	27.981649	
1029	N1341	131.114863	1.126239	27.087275	
1030	N1342	134.667311	0.88929	27.057309	
1031	N1343	134.911111	0.873029	25.5	
1032	N1344	131.088889	1.127971	25.5	
1033	N1345	132.265801	1.049471	29.158244	
1034	N1346	130.856399	1.143478	29.065038	
1035	N1347	133.717228	0.952661	29.129181	
1036	N1348	135.138592	0.857856	28.979223	
1037	N1349	129.42818	1.23874	29.069973	
1038	N1350	146.573516	0.095146	29.261413	
1039	N1351	148	0	28.476594	
1040	N1352	141.088889	0.460971	25.5	
1041	N1353	144.911111	0.206029	25.5	
1042	N1354	142.296624	0.380415	29.1373	
1043	N1355	140.866271	0.47582	29.065991	
1044	N1356	143.743449	0.283912	29.183712	
1045	N1357	145.146629	0.19032	29.214478	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1046	N1358	139.427916	0.571758	29.068285	
1047	N1359	114.666441	2.334356	22.065934	
1048	N1360	118	2.001	22.465035	
1049	N1361	108	3.001	22.465035	
1050	N1362	111.333305	2.667669	22.066371	
1051	N1363	114.666667	2.334333	18.5	
1052	N1364	111.333333	2.667667	18.5	
1053	N1365	124.644831	1.55779	22.009104	
1054	N1366	128.266981	1.316192	22.012885	
1055	N1367	134.494662	0.900806	22.598087	
1056	N1368	121.281576	1.782119	22.059949	
1057	N1369	124.525359	1.565759	18.5	
1058	N1370	121.084736	1.795248	18.5	
1059	N1371	141.510658	0.432839	22.606662	
1060	N1372	143	0.3335	18.5	
1061	N1373	144.063832	0.262542	22.134192	
1062	N1374	131.970205	1.069187	22.076371	
1063	N1375	148	0	22.466871	
1064	N1376	133	1.0005	18.5	
1065	N1066	118	0	32	
1066	N1067	0	0	32	
1067	N1068	8	0	32	
1068	N1069	18	0	32	
1069	N1070	38	0	32	
1070	N1072	28	0	32	
1071	N1073	48	0	32	
1072	N1074	58	0	32	
1073	N1075	68	0	32	
1074	N1076	78	0	32	
1075	N1077	88	0	32	
1076	N1078	98	0	32	
1077	N1079	108	0	32	
1078	N1080	138	0	32	
1079	N1081	128	0	32	
1080	N1082	8	0	16	
1081	N1083	38	0	16	
1082	N1084	68	0	16	
1083	N1085	8	38.001	16	
1084	N1087	38	27.501	16	
1085	N1088	68	17.001	16	
1086	N1089	0	38.001	5	
1087	N1090	8	38.001	5	
1088	N1091	18	34.501	5	
1089	N1092	28	31.001	5	
1090	N1093	38	27.501	5	
1091	N1094	48	24.001	5	
1092	N1095	58	20.501	5	
1093	N1096	68	17.001	5	
1094	N1097	78	13.501	5	
1095	N1098	88	10.001	5	
1096	N1099	98	6.501	5	
1097	N1100	108	3.001	5	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N112		CS9999	
2	N32		CS9999	
3	N1251		CS9999	
4	N1071		CS9999	
5	N1375		CS9999	
6	N1			
7	N2			
8	N3			
9	N4			
10	N5			
11	N6			
12	N7			
13	N8			
14	N9			
15	N10			
16	N11			
17	N12			
18	N16		CS9999	Reaction
19	N17			
20	N18			
21	N19			
22	N20			
23	N21			
24	N22			
25	N23			
26	N24			
27	N25			
28	N26			
29	N27			
30	N28			
31	N29			
32	N30			
33	N31			
34	N33			
35	N34			
36	N35			
37	N36			
38	N37			
39	N38			
40	N39			
41	N40			
42	N41			
43	N42			
44	N43			
45	N44			
46	N45			
47	N46			
48	N48		CS9999	
49	N49			
50	N50			
51	N51			
52	N52			
53	N53			
54	N54			
55	N55			

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
56	N56			
57	N57			
58	N58			
59	N59			
60	N60			
61	N61			
62	N62			
63	N64		CS9999	
64	N65			
65	N66			
66	N67			
67	N68			
68	N69			
69	N70			
70	N71			
71	N72			
72	N73			
73	N74			
74	N75			
75	N76			
76	N77			
77	N78			
78	N80		CS9999	
79	N81			
80	N82			
81	N83			
82	N84			
83	N85			
84	N86			
85	N87			
86	N88			
87	N89			
88	N90			
89	N91			
90	N92			
91	N93			
92	N94			
93	N96		CS9999	
94	N97			
95	N98			
96	N99			
97	N100			
98	N101			
99	N102			
100	N103			
101	N104			
102	N105			
103	N106			
104	N107			
105	N108			
106	N109			
107	N110			
108	N111			
109	N113			
110	N114			

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
111	N115			
112	N116			
113	N117			
114	N118			
115	N119			
116	N120			
117	N121			
118	N122			
119	N123			
120	N124			
121	N128		CS9999	Reaction
122	N129	Reaction	CS9999	Reaction
123	N130	Reaction	CS9999	Reaction
124	N131	Reaction	CS9999	Reaction
125	N133	Reaction	CS9999	Reaction
126	N132	Reaction	CS9999	Reaction
127	N134	Reaction	CS9999	Reaction
128	N135	Reaction	CS9999	Reaction
129	N136	Reaction	CS9999	Reaction
130	N137	Reaction	CS9999	Reaction
131	N138	Reaction	CS9999	Reaction
132	N139	Reaction	CS9999	Reaction
133	N140	Reaction	CS9999	Reaction
134	N141	Reaction	CS9999	Reaction
135	N142	Reaction	CS9999	Reaction
136	N143	Reaction	CS9999	Reaction
137	N144	Reaction	CS9999	Reaction
138	N145	Reaction	CS9999	Reaction
139	N146	Reaction	CS9999	Reaction
140	N153	Reaction	CS9999	Reaction
141	N154	Reaction	CS9999	Reaction
142	N155	Reaction	CS9999	Reaction
143	N156	Reaction	CS9999	Reaction
144	N157	Reaction	CS9999	Reaction
145	N158	Reaction	CS9999	Reaction
146	N165	Reaction	CS9999	Reaction
147	N166	Reaction	CS9999	Reaction
148	N167	Reaction	CS9999	Reaction
149	N168	Reaction	CS9999	Reaction
150	N169	Reaction	CS9999	Reaction
151	N170	Reaction	CS9999	Reaction
152	N177	Reaction	CS9999	Reaction
153	N178	Reaction	CS9999	Reaction
154	N179	Reaction	CS9999	Reaction
155	N180	Reaction	CS9999	Reaction
156	N181	Reaction	CS9999	Reaction
157	N182	Reaction	CS9999	Reaction
158	N189	Reaction	CS9999	Reaction
159	N190	Reaction	CS9999	Reaction
160	N191	Reaction	CS9999	Reaction
161	N192	Reaction	CS9999	Reaction
162	N193	Reaction	CS9999	Reaction
163	N194	Reaction	CS9999	Reaction
164	N201	Reaction	CS9999	Reaction
165	N202	Reaction	CS9999	Reaction

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
166	N203	Reaction	CS9999	Reaction
167	N204	Reaction	CS9999	Reaction
168	N205	Reaction	CS9999	Reaction
169	N206	Reaction	CS9999	Reaction
170	N213	Reaction	CS9999	Reaction
171	N214	Reaction	CS9999	Reaction
172	N215	Reaction	CS9999	Reaction
173	N216	Reaction	CS9999	Reaction
174	N217	Reaction	CS9999	Reaction
175	N218	Reaction	CS9999	Reaction
176	N225	Reaction	CS9999	Reaction
177	N226	Reaction	CS9999	Reaction
178	N227	Reaction	CS9999	Reaction
179	N228	Reaction	CS9999	Reaction
180	N229	Reaction	CS9999	Reaction
181	N230	Reaction	CS9999	Reaction
182	N237	Reaction	CS9999	Reaction
183	N238	Reaction	CS9999	Reaction
184	N239	Reaction	CS9999	Reaction
185	N240	Reaction	CS9999	Reaction
186	N241	Reaction	CS9999	Reaction
187	N242	Reaction	CS9999	Reaction
188	N249	Reaction	CS9999	Reaction
189	N250	Reaction	CS9999	Reaction
190	N251	Reaction	Reaction	Reaction
191	N252	Reaction	CS9999	Reaction
192	N253	Reaction	Reaction	Reaction
193	N254	Reaction	CS9999	Reaction
194	N261	Reaction	CS9999	Reaction
195	N262	Reaction	CS9999	Reaction
196	N263	Reaction	Reaction	Reaction
197	N264	Reaction	CS9999	Reaction
198	N265	Reaction	Reaction	Reaction
199	N266	Reaction	CS9999	Reaction
200	N273	Reaction	CS9999	Reaction
201	N274	Reaction	CS9999	Reaction
202	N275	Reaction	Reaction	Reaction
203	N276	Reaction	CS9999	Reaction
204	N277	Reaction	Reaction	Reaction
205	N278	Reaction	CS9999	Reaction
206	N285	Reaction	CS9999	Reaction
207	N286	Reaction	CS9999	Reaction
208	N287	Reaction	Reaction	Reaction
209	N288	Reaction	CS9999	Reaction
210	N289	Reaction	Reaction	Reaction
211	N290	Reaction	CS9999	Reaction
212	N297	Reaction	Reaction	Reaction
213	N298	Reaction	Reaction	Reaction
214	N299	Reaction	Reaction	Reaction
215	N222	Reaction	Reaction	Reaction
216	N223	Reaction	Reaction	Reaction
217	N224	Reaction	Reaction	Reaction
218	N1066	Reaction	Reaction	Reaction
219	N1067	Reaction	Reaction	Reaction
220	N1068	Reaction	Reaction	Reaction

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
221	N1069	Reaction	Reaction	Reaction
222	N1070	Reaction	Reaction	Reaction
223	N1072	Reaction	Reaction	Reaction
224	N1073	Reaction	Reaction	Reaction
225	N1074	Reaction	Reaction	Reaction
226	N1075	Reaction	Reaction	Reaction
227	N1076	Reaction	Reaction	Reaction
228	N1077	Reaction	Reaction	Reaction
229	N1078	Reaction	Reaction	Reaction
230	N1079	Reaction	Reaction	Reaction
231	N1080	Reaction	Reaction	Reaction
232	N1081	Reaction	Reaction	Reaction
233	N1082	Reaction	Reaction	Reaction
234	N1083	Reaction	Reaction	Reaction
235	N1084	Reaction	Reaction	Reaction
236	N1089			
237	N1090			
238	N1091			
239	N1092			
240	N1093			
241	N1094			
242	N1095			
243	N1096			
244	N1097			
245	N1098			
246	N1099			
247	N1100			

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [10^{-6}F^{-1}]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [10^{-6}F^{-1}]	Density [k/ft ³]	Plate Methodology
1	gen Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen Plywood	1800	38	0	0.3	0.035	Isotropic
8	RIGID	1e+6		0.3	0	0	Isotropic
9	gen Ortho				0.65	0.49	Orthotropic

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	CABLE BRACES	3/8"DIA	HBrace	BAR	A36 Gr.36	Typical	0.1104	0.0009707	0.0009707	0.0019
2	SHORING TOWER COLUMNS	PIPE 1.25	Beam	Pipe	A53 Gr.B	Typical	0.625	0.184	0.184	0.368
3	PIPE BEAM	PIPE 3.5	Beam	HSS Pipe	A53 Gr.B	Typical	2.5	4.52	4.52	9.04

General Section Sets

	Label	Shape	Type	Material	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	GEN1	RE4X4	Beam	gen Conc3NW	16	21.3333	21.3333	31.5733
2	RIGID		None	RIGID	1e+6	1e+6	1e+6	1e+6

Member Primary Data

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N113	N1	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
2	M2	N114	N2	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
3	M3	N115	N3	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
4	M4	N116	N4	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
5	M5	N117	N5	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
6	M6	N118	N6	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
7	M7	N119	N7	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
8	M8	N120	N8	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
9	M9	N121	N9	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
10	M10	N122	N10	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
11	M11	N123	N11	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
12	M12	N124	N12	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
13	M13	N125	N13	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
14	M14	N126	N14	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
15	M15	N127	N15	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
16	M16	N128	N16	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
17	M17	N134	N97	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
18	M18	N133	N81	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
19	M19	N132	N65	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
20	M20	N131	N49	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
21	M21	N130	N33	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
22	M22	N129	N17	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
23	M23	N140	N98	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
24	M24	N136	N82	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
25	M25	N139	N66	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
26	M26	N135	N50	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
27	M27	N138	N34	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
28	M28	N137	N18	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
29	M29	N145	N67	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
30	M30	N143	N83	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
31	M31	N141	N35	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
32	M32	N144	N19	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
33	M33	N146	N99	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
34	M34	N142	N51	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
35	M35	N157	N68	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
36	M36	N155	N84	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
37	M37	N153	N36	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
38	M38	N156	N20	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
39	M39	N158	N100	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
40	M40	N154	N52	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
41	M41	N169	N69	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
42	M42	N167	N85	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
43	M43	N165	N37	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
44	M44	N168	N21	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
45	M45	N170	N101	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
46	M46	N166	N53	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
47	M47	N181	N22	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
48	M48	N177	N38	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
49	M49	N179	N102	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
50	M50	N180	N54	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
51	M51	N182	N70	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
52	M52	N178	N86	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
53	M53	N193	N23	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
54	M54	N189	N39	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
55	M55	N191	N103	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
56	M56	N192	N55	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
57	M57	N194	N71	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
58	M58	N190	N87	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
59	M59	N205	N24	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
60	M60	N201	N40	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
61	M61	N203	N104	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
62	M62	N204	N56	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
63	M63	N206	N72	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
64	M64	N202	N88	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
65	M65	N217	N25	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
66	M66	N213	N41	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
67	M67	N215	N105	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
68	M68	N216	N57	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
69	M69	N218	N73	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
70	M70	N214	N89	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
71	M71	N229	N26	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
72	M72	N225	N42	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
73	M73	N227	N106	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
74	M74	N228	N58	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
75	M75	N230	N74	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
76	M76	N226	N90	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
77	M77	N241	N27	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
78	M78	N237	N43	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
79	M79	N239	N107	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
80	M80	N240	N59	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
81	M81	N242	N75	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
82	M82	N238	N91	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
83	M83	N253	N28	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
84	M84	N249	N44	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
85	M85	N251	N108	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
86	M86	N252	N60	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
87	M87	N254	N76	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
88	M88	N250	N92	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
89	M89	N266	N77	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
90	M90	N263	N109	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
91	M91	N262	N61	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
92	M92	N265	N29	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
93	M93	N264	N45	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
94	M94	N261	N93	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
95	M95	N278	N78	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
96	M96	N275	N110	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
97	M97	N274	N62	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
98	M98	N277	N30	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
99	M99	N276	N46	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
100	M100	N273	N94	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
101	M101	N290	N79	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
102	M102	N287	N111	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
103	M103	N286	N63	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
104	M104	N289	N31	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
105	M105	N288	N47	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
106	M106	N285	N95	SHORING TOWER COLUMNS	Beam	Pipe	A53 Gr.B	Typical
107	M107	N113	N114	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
108	M108	N114	N115	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
109	M109	N115	N116	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
110	M110	N116	N117	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
111	M111	N117	N118	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
112	M112	N118	N119	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
113	M113	N119	N120	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
114	M114	N120	N121	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
115	M115	N121	N122	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
116	M116	N122	N123	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
117	M117	N123	N124	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
118	M118	N124	N125	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
119	M119	N125	N126	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
120	M120	N126	N127	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
121	M121	N127	N128	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
122	M122	N16	N15	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
123	M123	N15	N14	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
124	M124	N14	N13	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
125	M125	N13	N12	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
126	M126	N12	N11	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
127	M127	N11	N10	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
128	M128	N10	N9	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
129	M129	N9	N8	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
130	M130	N8	N7	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
131	M131	N7	N6	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
132	M132	N6	N5	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
133	M133	N5	N4	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
134	M134	N4	N3	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
135	M135	N3	N2	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
136	M136	N2	N1	PIPE BEAM	Beam	HSS Pipe	A53 Gr.B	Typical
137	M137	N297	N97	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
138	M138	N297	N99	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
139	M139	N100	N298	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
140	M140	N298	N102	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
141	M141	N103	N299	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
142	M142	N299	N105	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
143	M143	N222	N17	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
144	M145	N223	N20	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
145	M146	N222	N19	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
146	M147	N223	N22	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
147	M148	N224	N23	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
148	M149	N224	N25	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
149	M151	N1084	N104	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
150	M152	N1083	N21	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
151	M153	N1083	N101	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
152	M154	N1082	N18	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
153	M155	N1082	N98	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
154	M156	N1084	N24	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
155	M172	N251	N28	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
156	M173	N253	N108	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
157	M174	N1067	N1068	RIGID	None	None	RIGID	Typical
158	M175	N1068	N1069	RIGID	None	None	RIGID	Typical
159	M176	N1069	N1072	RIGID	None	None	RIGID	Typical
160	M177	N1072	N1070	RIGID	None	None	RIGID	Typical
161	M178	N1070	N1073	RIGID	None	None	RIGID	Typical
162	M179	N1073	N1074	RIGID	None	None	RIGID	Typical
163	M180	N1074	N1075	RIGID	None	None	RIGID	Typical
164	M181	N1075	N1076	RIGID	None	None	RIGID	Typical
165	M182	N1076	N1077	RIGID	None	None	RIGID	Typical
166	M183	N1077	N1078	RIGID	None	None	RIGID	Typical
167	M184	N1078	N1079	RIGID	None	None	RIGID	Typical
168	M185	N1079	N1066	RIGID	None	None	RIGID	Typical
169	M186	N1066	N1081	RIGID	None	None	RIGID	Typical
170	M187	N1081	N1080	RIGID	None	None	RIGID	Typical
171	M188	N1080	N128	RIGID	None	None	RIGID	Typical
172	M189	N263	N29	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
173	M190	N265	N109	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
174	M191	N275	N30	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
175	M192	N277	N110	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
176	M193	N111	N289	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
177	M194	N31	N287	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
178	M195	N222	N1085	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
179	M196	N297	N1085	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
180	M197	N1085	N1082	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
181	M198	N222	N21	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
182	M199	N297	N101	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
183	M200	N1083	N1087	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
184	M201	N298	N1087	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
185	M202	N223	N1087	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
186	M203	N223	N17	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
187	M204	N223	N24	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
188	M205	N298	N104	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
189	M206	N298	N97	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
190	M207	N299	N1088	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
191	M208	N1084	N1088	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
192	M209	N224	N1088	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
193	M210	N101	N299	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
194	M211	N21	N224	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
195	M212	N24	N299	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical
196	M213	N104	N224	CABLE BRACES	HBrace	BAR	A36 Gr.36	Typical

Member Advanced Data

	Label	Release	J Release	Col-Wall	Vert Release	T/C Only	Physical	Deflection Ratio Options	Activation	Seismic DR
1	M1						Yes	Default	Exclude	None
2	M2						Yes	Default	Exclude	None
3	M3						Yes	Default	Exclude	None
4	M4						Yes	Default	Exclude	None
5	M5						Yes	Default	Exclude	None
6	M6						Yes	Default	Exclude	None
7	M7						Yes	Default	Exclude	None

Member Advanced Data (Continued)

	Label	ReleaseJ	ReleaseCol	Wall Vert	Release	T/C Only	Physical	Deflection Ratio Options	Activation	Seismic DR
8	M8						Yes	Default	Exclude	None
9	M9						Yes	Default	Exclude	None
10	M10						Yes	Default	Exclude	None
11	M11						Yes	Default	Exclude	None
12	M12						Yes	Default	Exclude	None
13	M13						Yes	Default	Exclude	None
14	M14						Yes	Default	Exclude	None
15	M15						Yes	Default	Exclude	None
16	M16						Yes	Default	Exclude	None
17	M17		BenPIN				Yes	Default	Exclude	None
18	M18		BenPIN				Yes	Default	Exclude	None
19	M19		BenPIN				Yes	Default	Exclude	None
20	M20		BenPIN				Yes	Default	Exclude	None
21	M21		BenPIN				Yes	Default	Exclude	None
22	M22		BenPIN				Yes	Default	Exclude	None
23	M23		BenPIN				Yes	Default	Exclude	None
24	M24		BenPIN				Yes	Default	Exclude	None
25	M25		BenPIN				Yes	Default	Exclude	None
26	M26		BenPIN				Yes	Default	Exclude	None
27	M27		BenPIN				Yes	Default	Exclude	None
28	M28		BenPIN				Yes	Default	Exclude	None
29	M29		BenPIN				Yes	Default	Exclude	None
30	M30		BenPIN				Yes	Default	Exclude	None
31	M31		BenPIN				Yes	Default	Exclude	None
32	M32		BenPIN				Yes	Default	Exclude	None
33	M33		BenPIN				Yes	Default	Exclude	None
34	M34		BenPIN				Yes	Default	Exclude	None
35	M35		BenPIN				Yes	Default	Exclude	None
36	M36		BenPIN				Yes	Default	Exclude	None
37	M37		BenPIN				Yes	Default	Exclude	None
38	M38		BenPIN				Yes	Default	Exclude	None
39	M39		BenPIN				Yes	Default	Exclude	None
40	M40		BenPIN				Yes	Default	Exclude	None
41	M41		BenPIN				Yes	Default	Exclude	None
42	M42		BenPIN				Yes	Default	Exclude	None
43	M43		BenPIN				Yes	Default	Exclude	None
44	M44		BenPIN				Yes	Default	Exclude	None
45	M45		BenPIN				Yes	Default	Exclude	None
46	M46		BenPIN				Yes	Default	Exclude	None
47	M47		BenPIN				Yes	Default	Exclude	None
48	M48		BenPIN				Yes	Default	Exclude	None
49	M49		BenPIN				Yes	Default	Exclude	None
50	M50		BenPIN				Yes	Default	Exclude	None
51	M51		BenPIN				Yes	Default	Exclude	None
52	M52		BenPIN				Yes	Default	Exclude	None
53	M53		BenPIN				Yes	Default	Exclude	None
54	M54		BenPIN				Yes	Default	Exclude	None
55	M55		BenPIN				Yes	Default	Exclude	None
56	M56		BenPIN				Yes	Default	Exclude	None
57	M57		BenPIN				Yes	Default	Exclude	None
58	M58		BenPIN				Yes	Default	Exclude	None
59	M59		BenPIN				Yes	Default	Exclude	None
60	M60		BenPIN				Yes	Default	Exclude	None
61	M61		BenPIN				Yes	Default	Exclude	None
62	M62		BenPIN				Yes	Default	Exclude	None

Member Advanced Data (Continued)

	Label	Release	J Release	Col-Wall	Vert Release	T/C Only	Physical	Deflection Ratio	Options	Activation	Seismic DR
63	M63		BenPIN				Yes	Default		Exclude	None
64	M64		BenPIN				Yes	Default		Exclude	None
65	M65		BenPIN				Yes	Default		Exclude	None
66	M66		BenPIN				Yes	Default		Exclude	None
67	M67		BenPIN				Yes	Default		Exclude	None
68	M68		BenPIN				Yes	Default		Exclude	None
69	M69		BenPIN				Yes	Default		Exclude	None
70	M70		BenPIN				Yes	Default		Exclude	None
71	M71		BenPIN				Yes	Default		Exclude	None
72	M72		BenPIN				Yes	Default		Exclude	None
73	M73		BenPIN				Yes	Default		Exclude	None
74	M74		BenPIN				Yes	Default		Exclude	None
75	M75		BenPIN				Yes	Default		Exclude	None
76	M76		BenPIN				Yes	Default		Exclude	None
77	M77		BenPIN				Yes	Default		Exclude	None
78	M78		BenPIN				Yes	Default		Exclude	None
79	M79		BenPIN				Yes	Default		Exclude	None
80	M80		BenPIN				Yes	Default		Exclude	None
81	M81		BenPIN				Yes	Default		Exclude	None
82	M82		BenPIN				Yes	Default		Exclude	None
83	M83		BenPIN				Yes	Default		Exclude	None
84	M84		BenPIN				Yes	Default		Exclude	None
85	M85		BenPIN				Yes	Default		Exclude	None
86	M86		BenPIN				Yes	Default		Exclude	None
87	M87		BenPIN				Yes	Default		Exclude	None
88	M88		BenPIN				Yes	Default		Exclude	None
89	M89		BenPIN				Yes	Default		Exclude	None
90	M90		BenPIN				Yes	Default		Exclude	None
91	M91		BenPIN				Yes	Default		Exclude	None
92	M92		BenPIN				Yes	Default		Exclude	None
93	M93		BenPIN				Yes	Default		Exclude	None
94	M94		BenPIN				Yes	Default		Exclude	None
95	M95		BenPIN				Yes	Default		Exclude	None
96	M96		BenPIN				Yes	Default		Exclude	None
97	M97		BenPIN				Yes	Default		Exclude	None
98	M98		BenPIN				Yes	Default		Exclude	None
99	M99		BenPIN				Yes	Default		Exclude	None
100	M100		BenPIN				Yes	Default		Exclude	None
101	M101		BenPIN				Yes	Default		Exclude	None
102	M102		BenPIN				Yes	Default		Exclude	None
103	M103		BenPIN				Yes	Default		Exclude	None
104	M104		BenPIN				Yes	Default		Exclude	None
105	M105		BenPIN				Yes	Default		Exclude	None
106	M106		BenPIN				Yes	Default		Exclude	None
107	M107	BenPIN	BenPIN				Yes	Default		Exclude	None
108	M108	BenPIN	BenPIN				Yes	Default		Exclude	None
109	M109	BenPIN	BenPIN				Yes	Default		Exclude	None
110	M110	BenPIN	BenPIN				Yes	Default		Exclude	None
111	M111	BenPIN	BenPIN				Yes	Default		Exclude	None
112	M112	BenPIN	BenPIN				Yes	Default		Exclude	None
113	M113	BenPIN	BenPIN				Yes	Default		Exclude	None
114	M114	BenPIN	BenPIN				Yes	Default		Exclude	None
115	M115	BenPIN	BenPIN				Yes	Default		Exclude	None
116	M116	BenPIN	BenPIN				Yes	Default		Exclude	None
117	M117	BenPIN	BenPIN				Yes	Default		Exclude	None

Member Advanced Data (Continued)

	Label	ReleaseJ	ReleaseCol	Wall Vert Release	T/C Only	Physical	Deflection Ratio Options	Activation	Seismic DR
118	M118	BenPIN	BenPIN			Yes	Default	Exclude	None
119	M119	BenPIN	BenPIN			Yes	Default	Exclude	None
120	M120	BenPIN	BenPIN			Yes	Default	Exclude	None
121	M121	BenPIN	BenPIN			Yes	Default	Exclude	None
122	M122	BenPIN	BenPIN			Yes	Default	Exclude	None
123	M123	BenPIN	BenPIN			Yes	Default	Exclude	None
124	M124	BenPIN	BenPIN			Yes	Default	Exclude	None
125	M125	BenPIN	BenPIN			Yes	Default	Exclude	None
126	M126	BenPIN	BenPIN			Yes	Default	Exclude	None
127	M127	BenPIN	BenPIN			Yes	Default	Exclude	None
128	M128	BenPIN	BenPIN			Yes	Default	Exclude	None
129	M129	BenPIN	BenPIN			Yes	Default	Exclude	None
130	M130	BenPIN	BenPIN			Yes	Default	Exclude	None
131	M131	BenPIN	BenPIN			Yes	Default	Exclude	None
132	M132	BenPIN	BenPIN			Yes	Default	Exclude	None
133	M133	BenPIN	BenPIN			Yes	Default	Exclude	None
134	M134	BenPIN	BenPIN			Yes	Default	Exclude	None
135	M135	BenPIN	BenPIN			Yes	Default	Exclude	None
136	M136	BenPIN	BenPIN			Yes	Default	Exclude	None
137	M137	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
138	M138	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
139	M139	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
140	M140	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
141	M141	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
142	M142	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
143	M143	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
144	M145	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
145	M146	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
146	M147	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
147	M148	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
148	M149	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
149	M151	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
150	M152	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
151	M153	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
152	M154	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
153	M155	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
154	M156	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
155	M172	BenPIN	AIIPIN		Tension Only	Yes	** NA **		None
156	M173	BenPIN	AIIPIN		Tension Only	Yes	** NA **		None
157	M174	BenPIN	AIIPIN			Yes	** NA **		None
158	M175	BenPIN	AIIPIN			Yes	** NA **		None
159	M176	BenPIN	AIIPIN			Yes	** NA **		None
160	M177	BenPIN	AIIPIN			Yes	** NA **		None
161	M178	BenPIN	AIIPIN			Yes	** NA **		None
162	M179	BenPIN	AIIPIN			Yes	** NA **		None
163	M180	BenPIN	AIIPIN			Yes	** NA **		None
164	M181	BenPIN	AIIPIN			Yes	** NA **		None
165	M182	BenPIN	AIIPIN			Yes	** NA **		None
166	M183	BenPIN	AIIPIN			Yes	** NA **		None
167	M184	BenPIN	AIIPIN			Yes	** NA **		None
168	M185	BenPIN	AIIPIN			Yes	** NA **		None
169	M186	BenPIN	AIIPIN			Yes	** NA **		None
170	M187	BenPIN	AIIPIN			Yes	** NA **		None
171	M188	BenPIN	AIIPIN			Yes	** NA **		None
172	M189	BenPIN	AIIPIN		Tension Only	Yes	** NA **	Exclude	None

Member Advanced Data (Continued)

	Label	ReleaseJ	ReleaseCol-Wall	Vert Release	T/C Only	Physical	Deflection Ratio Options	Activation	Seismic DR
173	M190	BenPIN	AlIPIN		Tension Only	Yes	** NA **	Exclude	None
174	M191	BenPIN	AlIPIN		Tension Only	Yes	** NA **	Exclude	None
175	M192	BenPIN	AlIPIN		Tension Only	Yes	** NA **	Exclude	None
176	M193	BenPIN	AlIPIN		Tension Only	Yes	** NA **	Exclude	None
177	M194	BenPIN	AlIPIN		Tension Only	Yes	** NA **	Exclude	None
178	M195	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
179	M196	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
180	M197	BenPIN	BenPIN		Tension Only	Yes	** NA **	Exclude	None
181	M198	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
182	M199	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
183	M200	BenPIN	BenPIN		Tension Only	Yes	** NA **	Exclude	None
184	M201	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
185	M202	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
186	M203	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
187	M204	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
188	M205	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
189	M206	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
190	M207	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
191	M208	BenPIN	BenPIN		Tension Only	Yes	** NA **	Exclude	None
192	M209	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
193	M210	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
194	M211	BenPIN	BenPIN		Tension Only	Yes	** NA **		None
195	M212	BenPIN	AlIPIN		Tension Only	Yes	** NA **		None
196	M213	BenPIN	AlIPIN		Tension Only	Yes	** NA **		None

Nodal Loads and Enforced Displacements

No Data to Print...

Member Point Loads

No Data to Print...

Member Distributed Loads (BLC 9 : WIND 90-DEG)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M107	Z	30	30	0	%100
2	M108	Z	30	30	0	%100
3	M109	Z	30	30	0	%100
4	M110	Z	30	30	0	%100
5	M111	Z	30	30	0	%100
6	M112	Z	30	30	0	%100
7	M113	Z	30	30	0	%100
8	M114	Z	30	30	0	%100
9	M115	Z	30	30	0	%100
10	M116	Z	30	30	0	%100
11	M117	Z	30	30	0	%100
12	M118	Z	30	30	0	%100
13	M125	Z	30	30	0	%100
14	M126	Z	30	30	0	%100
15	M127	Z	30	30	0	%100
16	M128	Z	30	30	0	%100
17	M129	Z	30	30	0	%100
18	M130	Z	30	30	0	%100
19	M131	Z	30	30	0	%100
20	M132	Z	30	30	0	%100
21	M133	Z	30	30	0	%100

Member Distributed Loads (BLC 9 : WIND 90-DEG) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
22	M134	Z	30	30	0	%100
23	M135	Z	30	30	0	%100
24	M136	Z	30	30	0	%100

Member Distributed Loads (BLC 12 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M1	Y	-32	-32	0	32
2	M2	Y	-32	-32	1.776e-15	32
3	M2	Y	-42.3792	-42.3792	7.008e-15	32
4	M3	Y	-42.3792	-42.3792	1.796e-14	32
5	M3	Y	-42.3792	-42.3792	1.441e-14	32
6	M4	Y	-42.3792	-42.3792	1.962e-14	32
7	M4	Y	-42.3792	-42.3792	2.362e-14	32
8	M5	Y	-42.3792	-42.3792	7.702e-15	32
9	M5	Y	-42.3792	-42.3792	3.081e-14	32
10	M6	Y	-42.3792	-42.3792	9.207e-14	32
11	M6	Y	-42.3792	-42.3792	5.457e-14	32
12	M7	Y	-42.3792	-42.3792	9.409e-14	32
13	M7	Y	-42.3792	-42.3792	1.044e-13	32
14	M8	Y	-42.3792	-42.3792	1.081e-13	32
15	M8	Y	-42.3792	-42.3792	1.777e-13	32
16	M9	Y	-42.3792	-42.3792	2.359e-16	32
17	M9	Y	-42.3792	-42.3792	2.832e-14	32
18	M10	Y	-42.3792	-42.3792	8.341e-15	32
19	M10	Y	-42.3792	-42.3792	8.758e-14	32
20	M11	Y	-42.3792	-42.3792	2.999e-14	32
21	M11	Y	-42.3792	-42.3792	2.952e-14	32
22	M12	Y	-42.3792	-42.3792	4.065e-14	32
23	M12	Y	-40.1995	-40.1995	2.433e-14	32
24	M13	Y	-40.1995	-40.1995	2.516e-13	32
25	M13	Y	-40.0889	-40.0889	1.557e-13	32
26	M14	Y	-40.0889	-40.0889	6.88e-13	32
27	M14	Y	-40.0889	-40.0889	2.037e-13	32
28	M15	Y	-40.0889	-40.0889	1.38e-13	32
29	M15	Y	-40.0889	-40.0889	1.998e-13	32
30	M16	Y	-40.0889	-40.0889	2.942e-13	32

Member Distributed Loads (BLC 13 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M8	Y	-250	-250	1.081e-13	32
2	M8	Y	-250	-250	1.777e-13	32
3	M9	Y	-250	-250	2.359e-16	32
4	M9	Y	-250	-250	2.832e-14	32
5	M10	Y	-250	-250	8.341e-15	32
6	M10	Y	-250	-250	8.758e-14	32
7	M11	Y	-250	-250	2.999e-14	32
8	M11	Y	-250	-250	2.952e-14	32
9	M12	Y	-250	-250	4.065e-14	32
10	M12	Y	-250	-250	2.433e-14	32
11	M13	Y	-250	-250	2.516e-13	32
12	M13	Y	-250	-250	1.557e-13	32
13	M14	Y	-250	-250	6.88e-13	32
14	M14	Y	-250	-250	2.037e-13	32

Member Distributed Loads (BLC 13 : BLC 2 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
15	M15	Y	-250	-250	1.38e-13	32
16	M15	Y	-250	-250	1.998e-13	32
17	M16	Y	-250	-250	2.942e-13	32
18	M1	Y	-200	-200	1.776e-15	32
19	M2	Y	-200	-200	0	32
20	M2	Y	-250	-250	27	32
21	M3	Y	-500	-500	27	32
22	M4	Y	-500	-500	27	32
23	M5	Y	-500	-500	27	32
24	M6	Y	-500	-500	27	32
25	M7	Y	-500	-500	27	32
26	M8	Y	-500	-500	27	32
27	M9	Y	-500	-500	27	32
28	M10	Y	-500	-500	27	32
29	M11	Y	-500	-500	27	32
30	M12	Y	-250	-250	27	32
31	M1	Y	-200	-200	0	32
32	M2	Y	-200	-200	1.776e-15	32
33	M2	Y	-250	-250	7.008e-15	32
34	M3	Y	-250	-250	1.796e-14	32
35	M3	Y	-250	-250	1.441e-14	32
36	M4	Y	-250	-250	1.962e-14	32
37	M4	Y	-250	-250	2.362e-14	32
38	M5	Y	-250	-250	7.702e-15	32
39	M5	Y	-250	-250	3.081e-14	32
40	M6	Y	-250	-250	9.207e-14	32
41	M6	Y	-250	-250	5.457e-14	32
42	M7	Y	-250	-250	9.409e-14	32
43	M7	Y	-250	-250	1.044e-13	32

Member Distributed Loads (BLC 14 : BLC 4 Transient Area Loads)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M1	Y	-100	-100	0	32
2	M2	Y	-100	-100	1.776e-15	32
3	M2	Y	-125	-125	7.008e-15	32
4	M3	Y	-125	-125	1.796e-14	32
5	M3	Y	-125	-125	1.441e-14	32
6	M4	Y	-125	-125	1.962e-14	32
7	M4	Y	-125	-125	2.362e-14	32
8	M5	Y	-125	-125	7.702e-15	32
9	M5	Y	-125	-125	3.081e-14	32
10	M6	Y	-125	-125	9.207e-14	32
11	M6	Y	-125	-125	5.457e-14	32
12	M7	Y	-125	-125	9.409e-14	32
13	M7	Y	-125	-125	1.044e-13	32
14	M8	Y	-125	-125	1.081e-13	32
15	M8	Y	-125	-125	1.777e-13	32
16	M9	Y	-125	-125	2.359e-16	32
17	M9	Y	-125	-125	2.832e-14	32
18	M10	Y	-125	-125	8.341e-15	32
19	M10	Y	-125	-125	8.758e-14	32
20	M11	Y	-125	-125	2.999e-14	32
21	M11	Y	-125	-125	2.952e-14	32
22	M12	Y	-125	-125	4.065e-14	32
23	M12	Y	-125	-125	2.433e-14	32

Member Distributed Loads (BLC 14 : BLC 4 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
24	M13	Y	-125	-125	2.516e-13	32
25	M13	Y	-125	-125	1.557e-13	32
26	M14	Y	-125	-125	6.88e-13	32
27	M14	Y	-125	-125	2.037e-13	32
28	M15	Y	-125	-125	1.38e-13	32
29	M15	Y	-125	-125	1.998e-13	32
30	M16	Y	-125	-125	2.942e-13	32

Member Distributed Loads (BLC 15 : BLC 5 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M3	Y	54	54	1.441e-14	32
2	M4	X	18.9	18.9	1.962e-14	32
3	M4	Y	54	54	1.962e-14	32
4	M4	X	18.9	18.9	2.362e-14	32
5	M4	Y	54	54	2.362e-14	32
6	M5	X	18.9	18.9	7.702e-15	32
7	M5	Y	54	54	7.702e-15	32
8	M5	X	18.9	18.9	3.081e-14	32
9	M5	Y	54	54	3.081e-14	32
10	M6	X	18.9	18.9	9.207e-14	32
11	M6	Y	54	54	9.207e-14	32
12	M6	X	18.9	18.9	5.457e-14	32
13	M6	Y	54	54	5.457e-14	32
14	M7	X	18.9	18.9	9.409e-14	32
15	M7	Y	54	54	9.409e-14	32
16	M7	X	28.35	28.35	1.044e-13	32
17	M7	Y	81	81	1.044e-13	32
18	M8	X	28.35	28.35	1.081e-13	32
19	M8	Y	81	81	1.081e-13	32
20	M8	X	28.35	28.35	1.777e-13	32
21	M8	Y	81	81	1.777e-13	32
22	M9	X	28.35	28.35	2.359e-16	32
23	M9	Y	81	81	2.359e-16	32
24	M9	X	28.35	28.35	2.832e-14	32
25	M9	Y	81	81	2.832e-14	32
26	M10	X	28.35	28.35	8.341e-15	32
27	M10	Y	81	81	8.341e-15	32
28	M10	X	28.35	28.35	8.758e-14	32
29	M10	Y	81	81	8.758e-14	32
30	M10	Z	1.255e-15	1.255e-15	8.758e-14	32
31	M11	X	28.35	28.35	2.999e-14	32
32	M11	Y	81	81	2.999e-14	32
33	M11	Z	1.255e-15	1.255e-15	2.999e-14	32
34	M11	X	28.35	28.35	2.952e-14	32
35	M11	Y	81	81	2.952e-14	32
36	M12	X	28.35	28.35	4.065e-14	32
37	M12	Y	81	81	4.065e-14	32
38	M12	X	8.1	8.1	2.433e-14	32
39	M12	Y	81	81	2.433e-14	32
40	M13	X	8.1	8.1	2.516e-13	32
41	M13	Y	81	81	2.516e-13	32
42	M1	Y	43.2	43.2	0	32
43	M2	Y	43.2	43.2	1.776e-15	32
44	M2	X	18.9	18.9	7.008e-15	32
45	M2	Y	54	54	7.008e-15	32

Member Distributed Loads (BLC 15 : BLC 5 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
46	M3	X	18.9	18.9	1.796e-14	32
47	M3	Y	54	54	1.796e-14	32
48	M3	X	18.9	18.9	1.441e-14	32

Member Distributed Loads (BLC 16 : BLC 6 Transient Area Loads)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M1	Y	73.2	73.2	0	32
2	M2	Y	73.2	73.2	1.776e-15	32
3	M2	X	32.025	32.025	7.008e-15	32
4	M2	Y	91.5	91.5	7.008e-15	32
5	M3	X	32.025	32.025	1.796e-14	32
6	M3	Y	91.5	91.5	1.796e-14	32
7	M3	X	32.025	32.025	1.441e-14	32
8	M3	Y	91.5	91.5	1.441e-14	32
9	M4	X	32.025	32.025	1.962e-14	32
10	M4	Y	91.5	91.5	1.962e-14	32
11	M4	X	32.025	32.025	2.362e-14	32
12	M4	Y	91.5	91.5	2.362e-14	32
13	M5	X	32.025	32.025	7.702e-15	32
14	M5	Y	91.5	91.5	7.702e-15	32
15	M5	X	32.025	32.025	3.081e-14	32
16	M5	Y	91.5	91.5	3.081e-14	32
17	M6	X	32.025	32.025	9.207e-14	32
18	M6	Y	91.5	91.5	9.207e-14	32
19	M6	X	32.025	32.025	5.457e-14	32
20	M6	Y	91.5	91.5	5.457e-14	32
21	M7	X	32.025	32.025	9.409e-14	32
22	M7	Y	91.5	91.5	9.409e-14	32
23	M7	X	15.05	15.05	1.044e-13	32
24	M7	Y	43	43	1.044e-13	32
25	M8	X	15.05	15.05	1.081e-13	32
26	M8	Y	43	43	1.081e-13	32
27	M8	X	15.05	15.05	1.777e-13	32
28	M8	Y	43	43	1.777e-13	32
29	M9	X	15.05	15.05	2.359e-16	32
30	M9	Y	43	43	2.359e-16	32
31	M9	X	15.05	15.05	2.832e-14	32
32	M9	Y	43	43	2.832e-14	32
33	M10	X	15.05	15.05	8.341e-15	32
34	M10	Y	43	43	8.341e-15	32
35	M10	X	15.05	15.05	8.758e-14	32
36	M10	Y	43	43	8.758e-14	32
37	M10	Z	6.66e-16	6.66e-16	8.758e-14	32
38	M11	X	15.05	15.05	2.999e-14	32
39	M11	Y	43	43	2.999e-14	32
40	M11	Z	6.66e-16	6.66e-16	2.999e-14	32
41	M11	X	15.05	15.05	2.952e-14	32
42	M11	Y	43	43	2.952e-14	32
43	M12	X	15.05	15.05	4.065e-14	32
44	M12	Y	43	43	4.065e-14	32
45	M12	X	4.3	4.3	2.433e-14	32
46	M12	Y	43	43	2.433e-14	32
47	M13	X	4.3	4.3	2.516e-13	32
48	M13	Y	43	43	2.516e-13	32

Member Distributed Loads (BLC 17 : BLC 7 Transient Area Loads)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M1	Y	52	52	0 32
2	M2	Y	52	52	1.776e-15 32
3	M2	X	22.75	22.75	7.008e-15 32
4	M2	Y	65	65	7.008e-15 32
5	M3	X	22.75	22.75	1.796e-14 32
6	M3	Y	65	65	1.796e-14 32
7	M3	X	22.75	22.75	1.441e-14 32
8	M3	Y	65	65	1.441e-14 32
9	M4	X	22.75	22.75	1.962e-14 32
10	M4	Y	65	65	1.962e-14 32
11	M4	X	22.75	22.75	2.362e-14 32
12	M4	Y	65	65	2.362e-14 32
13	M5	X	22.75	22.75	7.702e-15 32
14	M5	Y	65	65	7.702e-15 32
15	M5	X	22.75	22.75	3.081e-14 32
16	M5	Y	65	65	3.081e-14 32
17	M6	X	22.75	22.75	9.207e-14 32
18	M6	Y	65	65	9.207e-14 32
19	M6	X	22.75	22.75	5.457e-14 32
20	M6	Y	65	65	5.457e-14 32
21	M7	X	22.75	22.75	9.409e-14 32
22	M7	Y	65	65	9.409e-14 32
23	M7	X	3.85	3.85	1.044e-13 32
24	M7	Y	11	11	1.044e-13 32
25	M8	X	3.85	3.85	1.081e-13 32
26	M8	Y	11	11	1.081e-13 32
27	M8	X	3.85	3.85	1.777e-13 32
28	M8	Y	11	11	1.777e-13 32
29	M9	X	3.85	3.85	2.359e-16 32
30	M9	Y	11	11	2.359e-16 32
31	M9	X	3.85	3.85	2.832e-14 32
32	M9	Y	11	11	2.832e-14 32
33	M10	X	3.85	3.85	8.341e-15 32
34	M10	Y	11	11	8.341e-15 32
35	M10	X	3.85	3.85	8.758e-14 32
36	M10	Y	11	11	8.758e-14 32
37	M10	Z	1.704e-16	1.704e-16	8.758e-14 32
38	M11	X	3.85	3.85	2.999e-14 32
39	M11	Y	11	11	2.999e-14 32
40	M11	Z	1.704e-16	1.704e-16	2.999e-14 32
41	M11	X	3.85	3.85	2.952e-14 32
42	M11	Y	11	11	2.952e-14 32
43	M12	X	3.85	3.85	4.065e-14 32
44	M12	Y	11	11	4.065e-14 32
45	M12	X	1.1	1.1	2.433e-14 32
46	M12	Y	11	11	2.433e-14 32
47	M13	X	1.1	1.1	2.516e-13 32
48	M13	Y	11	11	2.516e-13 32

Member Distributed Loads (BLC 18 : BLC 8 Transient Area Loads)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M1	Y	12.8	12.8	0 32
2	M2	Y	12.8	12.8	1.776e-15 32
3	M2	X	5.6	5.6	7.008e-15 32

Member Distributed Loads (BLC 18 : BLC 8 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
4	M2	Y	16	7.008e-15	32
5	M3	X	5.6	1.796e-14	32
6	M3	Y	16	1.796e-14	32
7	M3	X	5.6	1.441e-14	32
8	M3	Y	16	1.441e-14	32
9	M4	X	5.6	1.962e-14	32
10	M4	Y	16	1.962e-14	32
11	M4	X	5.6	2.362e-14	32
12	M4	Y	16	2.362e-14	32
13	M5	X	5.6	7.702e-15	32
14	M5	Y	16	7.702e-15	32
15	M5	X	5.6	3.081e-14	32
16	M5	Y	16	3.081e-14	32
17	M6	X	5.6	9.207e-14	32
18	M6	Y	16	9.207e-14	32
19	M6	X	5.6	5.457e-14	32
20	M6	Y	16	5.457e-14	32
21	M7	X	5.6	9.409e-14	32
22	M7	Y	16	9.409e-14	32
23	M7	X	-15.05	1.044e-13	32
24	M7	Y	-43	1.044e-13	32
25	M8	X	-15.05	1.081e-13	32
26	M8	Y	-43	1.081e-13	32
27	M8	X	-15.05	1.777e-13	32
28	M8	Y	-43	1.777e-13	32
29	M9	X	-15.05	2.359e-16	32
30	M9	Y	-43	2.359e-16	32
31	M9	X	-15.05	2.832e-14	32
32	M9	Y	-43	2.832e-14	32
33	M10	X	-15.05	8.341e-15	32
34	M10	Y	-43	8.341e-15	32
35	M10	X	-15.05	8.758e-14	32
36	M10	Y	-43	8.758e-14	32
37	M10	Z	-6.66e-16	8.758e-14	32
38	M11	X	-15.05	2.999e-14	32
39	M11	Y	-43	2.999e-14	32
40	M11	Z	-6.66e-16	2.999e-14	32
41	M11	X	-15.05	2.952e-14	32
42	M11	Y	-43	2.952e-14	32
43	M12	X	-15.05	4.065e-14	32
44	M12	Y	-43	4.065e-14	32
45	M12	X	-4.3	2.433e-14	32
46	M12	Y	-43	2.433e-14	32
47	M13	X	-4.3	2.516e-13	32
48	M13	Y	-43	2.516e-13	32

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M107	Z	20.9005	0	8
2	M174	Z	20.9005	1.347e-13	8
3	M108	Z	20.555	0	0.5045
4	M108	Z	20.2655	0.5045	1.009
5	M108	Z	20.1543	1.009	1.5135
6	M108	Z	20.09	1.5135	2.0181
7	M108	Z	19.9355	2.0181	2.5226

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
8	M108	Z	17.3131	16.7414	2.5226	3.0271
9	M108	Z	16.7414	18.8046	3.0271	3.5316
10	M108	Z	18.8046	19.1986	3.5316	4.0361
11	M108	Z	19.1986	19.4401	4.0361	4.5406
12	M108	Z	19.4401	19.4515	4.5406	5.0451
13	M108	Z	19.4515	19.4267	5.0451	5.5497
14	M108	Z	19.4267	19.2655	5.5497	6.0542
15	M108	Z	19.2655	19.1895	6.0542	6.5587
16	M108	Z	19.1895	19.3094	6.5587	7.0632
17	M108	Z	19.3094	17.5746	7.0632	7.5677
18	M108	Z	17.5746	16.6406	7.5677	8.0722
19	M108	Z	16.6406	17.576	8.0722	8.5768
20	M108	Z	17.576	18.1157	8.5768	9.0813
21	M108	Z	18.1157	18.6275	9.0813	9.5858
22	M108	Z	18.6275	18.5593	9.5858	10.0903
23	M108	Z	18.5593	18.5178	10.0903	10.5948
24	M109	Z	19.6498	18.2018	0	0.5045
25	M109	Z	18.2018	17.2202	0.5045	1.009
26	M109	Z	17.2202	17.3704	1.009	1.5135
27	M109	Z	17.3704	17.66	1.5135	2.0181
28	M109	Z	17.66	17.5636	2.0181	2.5226
29	M109	Z	17.5636	16.9997	2.5226	3.0271
30	M109	Z	16.9997	17.1846	3.0271	3.5316
31	M109	Z	17.1846	17.183	3.5316	4.0361
32	M109	Z	17.183	16.7988	4.0361	4.5406
33	M109	Z	16.7988	16.821	4.5406	5.0451
34	M109	Z	16.821	16.5625	5.0451	5.5497
35	M109	Z	16.5625	17.0191	5.5497	6.0542
36	M109	Z	17.0191	17.065	6.0542	6.5587
37	M109	Z	17.065	16.9374	6.5587	7.0632
38	M109	Z	16.9374	16.5614	7.0632	7.5677
39	M109	Z	16.5614	16.5858	7.5677	8.0722
40	M109	Z	16.5858	16.7014	8.0722	8.5768
41	M109	Z	16.7014	16.3011	8.5768	9.0813
42	M109	Z	16.3011	16.3318	9.0813	9.5858
43	M109	Z	16.3318	16.2056	9.5858	10.0903
44	M109	Z	16.2056	16.0123	10.0903	10.5948
45	M110	Z	15.6802	15.7666	0	0.5045
46	M110	Z	15.7666	16.2366	0.5045	1.009
47	M110	Z	16.2366	16.014	1.009	1.5135
48	M110	Z	16.014	15.4463	1.5135	2.0181
49	M110	Z	15.4463	15.7393	2.0181	2.5226
50	M110	Z	15.7393	15.5461	2.5226	3.0271
51	M110	Z	15.5461	15.4258	3.0271	3.5316
52	M110	Z	15.4258	15.4936	3.5316	4.0361
53	M110	Z	15.4936	15.2078	4.0361	4.5406
54	M110	Z	15.2078	15.1589	4.5406	5.0451
55	M110	Z	15.1589	14.9504	5.0451	5.5497
56	M110	Z	14.9504	15.0617	5.5497	6.0542
57	M110	Z	15.0617	15.1851	6.0542	6.5587
58	M110	Z	15.1851	14.8315	6.5587	7.0632
59	M110	Z	14.8315	14.6756	7.0632	7.5677
60	M110	Z	14.6756	14.7013	7.5677	8.0722
61	M110	Z	14.7013	14.7158	8.0722	8.5768
62	M110	Z	14.7158	14.6857	8.5768	9.0813

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
63	M110	Z	14.6857	14.6249	9.0813	9.5858
64	M110	Z	14.6249	14.2507	9.5858	10.0903
65	M110	Z	14.2507	13.6245	10.0903	10.5948
66	M111	Z	14.0268	14.1444	0	0.5045
67	M111	Z	14.1444	14.1067	0.5045	1.009
68	M111	Z	14.1067	14.1519	1.009	1.5135
69	M111	Z	14.1519	14.0856	1.5135	2.0181
70	M111	Z	14.0856	13.878	2.0181	2.5226
71	M111	Z	13.878	13.8506	2.5226	3.0271
72	M111	Z	13.8506	13.4651	3.0271	3.5316
73	M111	Z	13.4651	13.5682	3.5316	4.0361
74	M111	Z	13.5682	13.9786	4.0361	4.5406
75	M111	Z	13.9786	13.6255	4.5406	5.0451
76	M111	Z	13.6255	13.0365	5.0451	5.5497
77	M111	Z	13.0365	13.2809	5.5497	6.0542
78	M111	Z	13.2809	13.4876	6.0542	6.5587
79	M111	Z	13.4876	12.9581	6.5587	7.0632
80	M111	Z	12.9581	12.7807	7.0632	7.5677
81	M111	Z	12.7807	12.7523	7.5677	8.0722
82	M111	Z	12.7523	12.9904	8.0722	8.5768
83	M111	Z	12.9904	12.6642	8.5768	9.0813
84	M111	Z	12.6642	12.3428	9.0813	9.5858
85	M111	Z	12.3428	12.3858	9.5858	10.0903
86	M111	Z	12.3858	11.8729	10.0903	10.5948
87	M112	Z	12.8053	12.6462	0	0.5045
88	M112	Z	12.6462	12.4934	0.5045	1.009
89	M112	Z	12.4934	12.2866	1.009	1.5135
90	M112	Z	12.2866	12.151	1.5135	2.0181
91	M112	Z	12.151	12.0378	2.0181	2.5226
92	M112	Z	12.0378	11.8841	2.5226	3.0271
93	M112	Z	11.8841	11.9576	3.0271	3.5316
94	M112	Z	11.9576	11.9379	3.5316	4.0361
95	M112	Z	11.9379	11.5073	4.0361	4.5406
96	M112	Z	11.5073	11.3923	4.5406	5.0451
97	M112	Z	11.3923	11.6009	5.0451	5.5497
98	M112	Z	11.6009	11.4101	5.5497	6.0542
99	M112	Z	11.4101	11.1128	6.0542	6.5587
100	M112	Z	11.1128	11.2879	6.5587	7.0632
101	M112	Z	11.2879	11.2073	7.0632	7.5677
102	M112	Z	11.2073	11.1657	7.5677	8.0722
103	M112	Z	11.1657	11.0932	8.0722	8.5768
104	M112	Z	11.0932	10.8636	8.5768	9.0813
105	M112	Z	10.8636	10.9982	9.0813	9.5858
106	M112	Z	10.9982	10.7374	9.5858	10.0903
107	M112	Z	10.7374	10.2165	10.0903	10.5948
108	M113	Z	10.7405	10.55	0	0.5045
109	M113	Z	10.55	10.4517	0.5045	1.009
110	M113	Z	10.4517	10.5822	1.009	1.5135
111	M113	Z	10.5822	10.1772	1.5135	2.0181
112	M113	Z	10.1772	9.8644	2.0181	2.5226
113	M113	Z	9.8644	9.9348	2.5226	3.0271
114	M113	Z	9.9348	10.0553	3.0271	3.5316
115	M113	Z	10.0553	10.2711	3.5316	4.0361
116	M113	Z	10.2711	9.7814	4.0361	4.5406
117	M113	Z	9.7814	9.2233	4.5406	5.0451

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
118	M113	Z	9.2233	9.4315	5.0451	5.5497
119	M113	Z	9.4315	9.9339	5.5497	6.0542
120	M113	Z	9.9339	9.8703	6.0542	6.5587
121	M113	Z	9.8703	9.5869	6.5587	7.0632
122	M113	Z	9.5869	9.5112	7.0632	7.5677
123	M113	Z	9.5112	9.3265	7.5677	8.0722
124	M113	Z	9.3265	8.8979	8.0722	8.5768
125	M113	Z	8.8979	8.8284	8.5768	9.0813
126	M113	Z	8.8284	8.8533	9.0813	9.5858
127	M113	Z	8.8533	8.724	9.5858	10.0903
128	M113	Z	8.724	8.8074	10.0903	10.5948
129	M114	Z	8.4867	8.8768	0	0.5045
130	M114	Z	8.8768	8.9301	0.5045	1.009
131	M114	Z	8.9301	8.86	1.009	1.5135
132	M114	Z	8.86	8.7024	1.5135	2.0181
133	M114	Z	8.7024	8.3429	2.0181	2.5226
134	M114	Z	8.3429	8.2146	2.5226	3.0271
135	M114	Z	8.2146	8.1214	3.0271	3.5316
136	M114	Z	8.1214	8.0424	3.5316	4.0361
137	M114	Z	8.0424	7.9987	4.0361	4.5406
138	M114	Z	7.9987	7.8481	4.5406	5.0451
139	M114	Z	7.8481	7.9806	5.0451	5.5497
140	M114	Z	7.9806	8.0475	5.5497	6.0542
141	M114	Z	8.0475	7.7517	6.0542	6.5587
142	M114	Z	7.7517	7.489	6.5587	7.0632
143	M114	Z	7.489	6.8614	7.0632	7.5677
144	M114	Z	6.8614	6.9796	7.5677	8.0722
145	M114	Z	6.9796	7.4859	8.0722	8.5768
146	M114	Z	7.4859	7.4428	8.5768	9.0813
147	M114	Z	7.4428	7.5377	9.0813	9.5858
148	M114	Z	7.5377	7.4906	9.5858	10.0903
149	M114	Z	7.4906	7.3531	10.0903	10.5948
150	M115	Z	6.7939	6.803	0	0.5045
151	M115	Z	6.803	6.6205	0.5045	1.009
152	M115	Z	6.6205	6.5499	1.009	1.5135
153	M115	Z	6.5499	6.7094	1.5135	2.0181
154	M115	Z	6.7094	6.697	2.0181	2.5226
155	M115	Z	6.697	6.6324	2.5226	3.0271
156	M115	Z	6.6324	6.5044	3.0271	3.5316
157	M115	Z	6.5044	6.2842	3.5316	4.0361
158	M115	Z	6.2842	6.3303	4.0361	4.5406
159	M115	Z	6.3303	6.452	4.5406	5.0451
160	M115	Z	6.452	6.2102	5.0451	5.5497
161	M115	Z	6.2102	5.9316	5.5497	6.0542
162	M115	Z	5.9316	5.7991	6.0542	6.5587
163	M115	Z	5.7991	5.7628	6.5587	7.0632
164	M115	Z	5.7628	5.6691	7.0632	7.5677
165	M115	Z	5.6691	5.5085	7.5677	8.0722
166	M115	Z	5.5085	5.5597	8.0722	8.5768
167	M115	Z	5.5597	5.5806	8.5768	9.0813
168	M115	Z	5.5806	5.3103	9.0813	9.5858
169	M115	Z	5.3103	5.1677	9.5858	10.0903
170	M115	Z	5.1677	5.2961	10.0903	10.5948
171	M116	Z	4.6105	4.9709	0	0.5045
172	M116	Z	4.9709	5.0061	0.5045	1.009

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
173	M116	Z	5.0061	4.8858	1.009	1.5135
174	M116	Z	4.8858	4.8734	1.5135	2.0181
175	M116	Z	4.8734	4.8042	2.0181	2.5226
176	M116	Z	4.8042	4.7414	2.5226	3.0271
177	M116	Z	4.7414	4.5426	3.0271	3.5316
178	M116	Z	4.5426	4.4159	3.5316	4.0361
179	M116	Z	4.4159	4.5155	4.0361	4.5406
180	M116	Z	4.5155	4.4246	4.5406	5.0451
181	M116	Z	4.4246	4.2971	5.0451	5.5497
182	M116	Z	4.2971	4.2132	5.5497	6.0542
183	M116	Z	4.2132	4.0114	6.0542	6.5587
184	M116	Z	4.0114	3.9113	6.5587	7.0632
185	M116	Z	3.9113	3.7867	7.0632	7.5677
186	M116	Z	3.7867	3.6504	7.5677	8.0722
187	M116	Z	3.6504	3.6872	8.0722	8.5768
188	M116	Z	3.6872	3.6908	8.5768	9.0813
189	M116	Z	3.6908	3.5202	9.0813	9.5858
190	M116	Z	3.5202	3.5535	9.5858	10.0903
191	M116	Z	3.5535	3.8632	10.0903	10.5948
192	M117	Z	3.6511	3.2242	0	0.5045
193	M117	Z	3.2242	3.0957	0.5045	1.009
194	M117	Z	3.0957	2.9851	1.009	1.5135
195	M117	Z	2.9851	2.83	1.5135	2.0181
196	M117	Z	2.83	2.8838	2.0181	2.5226
197	M117	Z	2.8838	2.9269	2.5226	3.0271
198	M117	Z	2.9269	2.881	3.0271	3.5316
199	M117	Z	2.881	2.7323	3.5316	4.0361
200	M117	Z	2.7323	2.5911	4.0361	4.5406
201	M117	Z	2.5911	2.5299	4.5406	5.0451
202	M117	Z	2.5299	2.4696	5.0451	5.5497
203	M117	Z	2.4696	2.1866	5.5497	6.0542
204	M117	Z	2.1866	2.1019	6.0542	6.5587
205	M117	Z	2.1019	2.2041	6.5587	7.0632
206	M117	Z	2.2041	2.163	7.0632	7.5677
207	M117	Z	2.163	2.1181	7.5677	8.0722
208	M117	Z	2.1181	2.0297	8.0722	8.5768
209	M117	Z	2.0297	1.8968	8.5768	9.0813
210	M117	Z	1.8968	1.6707	9.0813	9.5858
211	M117	Z	1.6707	1.5896	9.5858	10.0903
212	M117	Z	1.5896	1.7254	10.0903	10.5948
213	M175	Z	20.9134	20.7766	0	0.5
214	M175	Z	20.7766	20.6398	0.5	1
215	M175	Z	20.6398	20.5714	1	1.5
216	M175	Z	20.5714	20.503	1.5	2
217	M175	Z	20.503	20.3663	2	2.5
218	M175	Z	20.3663	20.2979	2.5	3
219	M175	Z	20.2979	20.1611	3	3.5
220	M175	Z	20.1611	20.0243	3.5	4
221	M175	Z	20.0243	20.0243	4	4.5
222	M175	Z	20.0243	19.8875	4.5	5
223	M175	Z	19.8875	19.7507	5	5.5
224	M175	Z	19.7507	19.7507	5.5	6
225	M175	Z	19.7507	19.6139	6	6.5
226	M175	Z	19.6139	19.4916	6.5	7
227	M175	Z	19.4916	19.5306	7	7.5

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
228	M175	Z	19.5306	19.4432	7.5 8
229	M175	Z	19.4432	19.3551	8 8.5
230	M175	Z	19.3551	19.3255	8.5 9
231	M175	Z	19.3255	19.2041	9 9.5
232	M175	Z	19.2041	19.0683	9.5 10
233	M176	Z	19.2118	19.0744	0 0.5
234	M176	Z	19.0744	18.938	0.5 1
235	M176	Z	18.938	18.8696	1 1.5
236	M176	Z	18.8696	18.5747	1.5 2
237	M176	Z	18.5747	18.4558	2 2.5
238	M176	Z	18.4558	18.8362	2.5 3
239	M176	Z	18.8362	18.8262	3 3.5
240	M176	Z	18.8262	18.1871	3.5 4
241	M176	Z	18.1871	17.8406	4 4.5
242	M176	Z	17.8406	18.008	4.5 5
243	M176	Z	18.008	17.7067	5 5.5
244	M176	Z	17.7067	17.4863	5.5 6
245	M176	Z	17.4863	17.634	6 6.5
246	M176	Z	17.634	17.5483	6.5 7
247	M176	Z	17.5483	17.2643	7 7.5
248	M176	Z	17.2643	17.4105	7.5 8
249	M176	Z	17.4105	17.456	8 8.5
250	M176	Z	17.456	17.3192	8.5 9
251	M176	Z	17.3192	17.2099	9 9.5
252	M176	Z	17.2099	16.6222	9.5 10
253	M177	Z	17.5642	16.8355	0 0.5
254	M177	Z	16.8355	16.5367	0.5 1
255	M177	Z	16.5367	16.7205	1 1.5
256	M177	Z	16.7205	16.7698	1.5 2
257	M177	Z	16.7698	16.6277	2 2.5
258	M177	Z	16.6277	16.6035	2.5 3
259	M177	Z	16.6035	16.3627	3 3.5
260	M177	Z	16.3627	16.0849	3.5 4
261	M177	Z	16.0849	16.429	4 4.5
262	M177	Z	16.429	16.3537	4.5 5
263	M177	Z	16.3537	15.7132	5 5.5
264	M177	Z	15.7132	15.6639	5.5 6
265	M177	Z	15.6639	15.7305	6 6.5
266	M177	Z	15.7305	15.4767	6.5 7
267	M177	Z	15.4767	15.8057	7 7.5
268	M177	Z	15.8057	15.9435	7.5 8
269	M177	Z	15.9435	15.2914	8 8.5
270	M177	Z	15.2914	15.1077	8.5 9
271	M177	Z	15.1077	15.2866	9 9.5
272	M177	Z	15.2866	15.3626	9.5 10
273	M178	Z	15.4848	14.9911	0 0.5
274	M178	Z	14.9911	14.8551	0.5 1
275	M178	Z	14.8551	14.7351	1 1.5
276	M178	Z	14.7351	14.7202	1.5 2
277	M178	Z	14.7202	14.8061	2 2.5
278	M178	Z	14.8061	14.6126	2.5 3
279	M178	Z	14.6126	14.1722	3 3.5
280	M178	Z	14.1722	14.155	3.5 4
281	M178	Z	14.155	14.3176	4 4.5
282	M178	Z	14.3176	14.1773	4.5 5

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
283	M178	Z	14.1773	14.0559	5	5.5
284	M178	Z	14.0559	14.0095	5.5	6
285	M178	Z	14.0095	13.8781	6	6.5
286	M178	Z	13.8781	13.7596	6.5	7
287	M178	Z	13.7596	13.6081	7	7.5
288	M178	Z	13.6081	13.5434	7.5	8
289	M178	Z	13.5434	13.6394	8	8.5
290	M178	Z	13.6394	13.636	8.5	9
291	M178	Z	13.636	13.4872	9	9.5
292	M178	Z	13.4872	12.9269	9.5	10
293	M179	Z	12.9033	13.1501	0	0.5
294	M179	Z	13.1501	12.9647	0.5	1
295	M179	Z	12.9647	12.7457	1	1.5
296	M179	Z	12.7457	12.7964	1.5	2
297	M179	Z	12.7964	12.6607	2	2.5
298	M179	Z	12.6607	12.4852	2.5	3
299	M179	Z	12.4852	12.6277	3	3.5
300	M179	Z	12.6277	12.6528	3.5	4
301	M179	Z	12.6528	12.2612	4	4.5
302	M179	Z	12.2612	12.1554	4.5	5
303	M179	Z	12.1554	12.2637	5	5.5
304	M179	Z	12.2637	11.982	5.5	6
305	M179	Z	11.982	11.9533	6	6.5
306	M179	Z	11.9533	12.0327	6.5	7
307	M179	Z	12.0327	11.7508	7	7.5
308	M179	Z	11.7508	11.5153	7.5	8
309	M179	Z	11.5153	11.3996	8	8.5
310	M179	Z	11.3996	11.4283	8.5	9
311	M179	Z	11.4283	11.312	9	9.5
312	M179	Z	11.312	11.0828	9.5	10
313	M180	Z	10.6017	11.081	0	0.5
314	M180	Z	11.081	11.4013	0.5	1
315	M180	Z	11.4013	11.3054	1	1.5
316	M180	Z	11.3054	10.9807	1.5	2
317	M180	Z	10.9807	10.9021	2	2.5
318	M180	Z	10.9021	10.9122	2.5	3
319	M180	Z	10.9122	10.9138	3	3.5
320	M180	Z	10.9138	10.6345	3.5	4
321	M180	Z	10.6345	10.1962	4	4.5
322	M180	Z	10.1962	10.2217	4.5	5
323	M180	Z	10.2217	10.2029	5	5.5
324	M180	Z	10.2029	10.1223	5.5	6
325	M180	Z	10.1223	10.0854	6	6.5
326	M180	Z	10.0854	10.0398	6.5	7
327	M180	Z	10.0398	9.9184	7	7.5
328	M180	Z	9.9184	9.8279	7.5	8
329	M180	Z	9.8279	9.5891	8	8.5
330	M180	Z	9.5891	9.3528	8.5	9
331	M180	Z	9.3528	9.4785	9	9.5
332	M180	Z	9.4785	9.5574	9.5	10
333	M181	Z	9.3615	9.183	0	0.5
334	M181	Z	9.183	9.0458	0.5	1
335	M181	Z	9.0458	9.0672	1	1.5
336	M181	Z	9.0672	9.0424	1.5	2
337	M181	Z	9.0424	8.7725	2	2.5

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
338	M181	Z	8.7725	8.5269	2.5	3
339	M181	Z	8.5269	8.5006	3	3.5
340	M181	Z	8.5006	8.7944	3.5	4
341	M181	Z	8.7944	8.5663	4	4.5
342	M181	Z	8.5663	8.3352	4.5	5
343	M181	Z	8.3352	8.738	5	5.5
344	M181	Z	8.738	8.4512	5.5	6
345	M181	Z	8.4512	7.9871	6	6.5
346	M181	Z	7.9871	7.9434	6.5	7
347	M181	Z	7.9434	7.8398	7	7.5
348	M181	Z	7.8398	7.6841	7.5	8
349	M181	Z	7.6841	7.6074	8	8.5
350	M181	Z	7.6074	7.5376	8.5	9
351	M181	Z	7.5376	7.4032	9	9.5
352	M181	Z	7.4032	7.269	9.5	10
353	M182	Z	7.3545	7.2916	0	0.5
354	M182	Z	7.2916	7.2008	0.5	1
355	M182	Z	7.2008	7.1655	1	1.5
356	M182	Z	7.1655	7.2419	1.5	2
357	M182	Z	7.2419	7.0455	2	2.5
358	M182	Z	7.0455	6.6861	2.5	3
359	M182	Z	6.6861	6.6671	3	3.5
360	M182	Z	6.6671	6.5097	3.5	4
361	M182	Z	6.5097	6.3436	4	4.5
362	M182	Z	6.3436	6.3465	4.5	5
363	M182	Z	6.3465	6.2321	5	5.5
364	M182	Z	6.2321	6.0855	5.5	6
365	M182	Z	6.0855	6.0825	6	6.5
366	M182	Z	6.0825	6.2341	6.5	7
367	M182	Z	6.2341	6.1338	7	7.5
368	M182	Z	6.1338	5.8938	7.5	8
369	M182	Z	5.8938	5.8723	8	8.5
370	M182	Z	5.8723	5.8318	8.5	9
371	M182	Z	5.8318	5.7296	9	9.5
372	M182	Z	5.7296	5.7574	9.5	10
373	M183	Z	5.2545	5.5288	0	0.5
374	M183	Z	5.5288	5.3686	0.5	1
375	M183	Z	5.3686	5.2892	1	1.5
376	M183	Z	5.2892	5.2828	1.5	2
377	M183	Z	5.2828	4.9877	2	2.5
378	M183	Z	4.9877	4.8811	2.5	3
379	M183	Z	4.8811	4.7464	3	3.5
380	M183	Z	4.7464	4.6115	3.5	4
381	M183	Z	4.6115	4.5244	4	4.5
382	M183	Z	4.5244	4.3739	4.5	5
383	M183	Z	4.3739	4.4721	5	5.5
384	M183	Z	4.4721	4.6068	5.5	6
385	M183	Z	4.6068	4.3782	6	6.5
386	M183	Z	4.3782	4.2405	6.5	7
387	M183	Z	4.2405	4.1893	7	7.5
388	M183	Z	4.1893	3.9488	7.5	8
389	M183	Z	3.9488	3.7911	8	8.5
390	M183	Z	3.7911	3.7381	8.5	9
391	M183	Z	3.7381	3.6114	9	9.5
392	M183	Z	3.6114	3.4712	9.5	10

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
393	M184	Z	3.4158	3.5136	0	0.5
394	M184	Z	3.5136	3.4726	0.5	1
395	M184	Z	3.4726	3.3219	1	1.5
396	M184	Z	3.3219	3.2379	1.5	2
397	M184	Z	3.2379	3.1712	2	2.5
398	M184	Z	3.1712	3.0482	2.5	3
399	M184	Z	3.0482	2.9063	3	3.5
400	M184	Z	2.9063	2.7801	3.5	4
401	M184	Z	2.7801	2.6471	4	4.5
402	M184	Z	2.6471	2.5784	4.5	5
403	M184	Z	2.5784	2.4718	5	5.5
404	M184	Z	2.4718	2.4183	5.5	6
405	M184	Z	2.4183	2.404	6	6.5
406	M184	Z	2.404	2.0938	6.5	7
407	M184	Z	2.0938	1.9705	7	7.5
408	M184	Z	1.9705	2.1105	7.5	8
409	M184	Z	2.1105	2.0015	8	8.5
410	M184	Z	2.0015	1.7935	8.5	9
411	M184	Z	1.7935	1.6751	9	9.5
412	M184	Z	1.6751	1.5941	9.5	10
413	M118	Z	1.6429	1.6155	0	0.5025
414	M118	Z	1.6155	1.588	0.5025	1.005
415	M118	Z	1.588	1.5567	1.005	1.5075
416	M118	Z	1.5567	1.5094	1.5075	2.01
417	M118	Z	1.5094	1.4211	2.01	2.5125
418	M118	Z	1.4211	1.3517	2.5125	3.015
419	M118	Z	1.3517	1.489	3.015	3.5175
420	M118	Z	1.489	1.5623	3.5175	4.02
421	M118	Z	1.5623	1.4504	4.02	4.5224
422	M118	Z	1.4504	1.3901	4.5224	5.0249
423	M118	Z	1.3901	1.3486	5.0249	5.5274
424	M118	Z	1.3486	1.3157	5.5274	6.0299
425	M118	Z	1.3157	1.2845	6.0299	6.5324
426	M118	Z	1.2845	1.2379	6.5324	7.0349
427	M118	Z	1.2379	1.1499	7.0349	7.5374
428	M118	Z	1.1499	1.1426	7.5374	8.0399
429	M118	Z	1.1426	1.2675	8.0399	8.5424
430	M118	Z	1.2675	1.2682	8.5424	9.0449
431	M118	Z	1.2682	1.1595	9.0449	9.5474
432	M118	Z	1.1595	1.0895	9.5474	10.0499
433	M185	Z	1.6502	1.6227	0	0.5
434	M185	Z	1.6227	1.5953	0.5	1
435	M185	Z	1.5953	1.5696	1	1.5
436	M185	Z	1.5696	1.551	1.5	2
437	M185	Z	1.551	1.5477	2	2.5
438	M185	Z	1.5477	1.5678	2.5	3
439	M185	Z	1.5678	1.4628	3	3.5
440	M185	Z	1.4628	1.3487	3.5	4
441	M185	Z	1.3487	1.3582	4	4.5
442	M185	Z	1.3582	1.3552	4.5	5
443	M185	Z	1.3552	1.3411	5	5.5
444	M185	Z	1.3411	1.319	5.5	6
445	M185	Z	1.319	1.2941	6	6.5
446	M185	Z	1.2941	1.2738	6.5	7
447	M185	Z	1.2738	1.27	7	7.5

Member Distributed Loads (BLC 19 : BLC 9 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
448	M185	Z	1.27	1.2285	7.5	8
449	M185	Z	1.2285	1.1343	8	8.5
450	M185	Z	1.1343	1.0934	8.5	9
451	M185	Z	1.0934	1.1011	9	9.5
452	M185	Z	1.1011	1.1012	9.5	10

Member Distributed Loads (BLC 20 : BLC 10 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M3	X	28.6086	28.6086	1.441e-14	32
2	M4	X	28.6086	28.6086	1.962e-14	32
3	M4	X	27.8633	27.8633	2.362e-14	32
4	M5	X	27.8633	27.8633	7.702e-15	32
5	M5	X	27.0041	27.0041	3.081e-14	32
6	M6	X	27.0041	27.0041	9.207e-14	32
7	M6	X	26.2497	26.2497	5.457e-14	32
8	M7	X	26.2497	26.2497	9.409e-14	32
9	M7	X	25.5266	25.5266	1.044e-13	32
10	M8	X	25.5266	25.5266	1.081e-13	32
11	M8	X	24.759	24.759	1.777e-13	32
12	M9	X	24.759	24.759	2.359e-16	32
13	M9	X	24.0137	24.0137	2.832e-14	32
14	M10	X	24.0137	24.0137	8.341e-15	32
15	M10	X	23.2773	23.2773	8.758e-14	32
16	M11	X	23.2773	23.2773	2.999e-14	32
17	M11	X	22.523	22.523	2.952e-14	32
18	M12	X	22.523	22.523	4.065e-14	32
19	M1	X	38.5824	38.5824	0	32
20	M2	X	38.5824	38.5824	1.776e-15	32
21	M2	X	29.2136	29.2136	7.008e-15	32
22	M3	X	29.2136	29.2136	1.796e-14	32

Member Distributed Loads (BLC 21 : BLC 11 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M7	Z	26.2497	26.2497	9.409e-14	32
2	M7	Z	25.5266	25.5266	1.044e-13	32
3	M8	Z	25.5266	25.5266	1.081e-13	32
4	M8	Z	24.759	24.759	1.777e-13	32
5	M9	Z	24.759	24.759	2.359e-16	32
6	M9	Z	24.0137	24.0137	2.832e-14	32
7	M10	Z	24.0137	24.0137	8.341e-15	32
8	M10	Z	23.2773	23.2773	8.758e-14	32
9	M11	Z	23.2773	23.2773	2.999e-14	32
10	M11	Z	22.523	22.523	2.952e-14	32
11	M12	Z	22.523	22.523	4.065e-14	32
12	M1	Z	38.5824	38.5824	0	32
13	M2	Z	38.5824	38.5824	1.776e-15	32
14	M2	Z	29.2136	29.2136	7.008e-15	32
15	M3	Z	29.2136	29.2136	1.796e-14	32
16	M3	Z	28.6086	28.6086	1.441e-14	32
17	M4	Z	28.6086	28.6086	1.962e-14	32
18	M4	Z	27.8633	27.8633	2.362e-14	32
19	M5	Z	27.8633	27.8633	7.702e-15	32
20	M5	Z	27.0041	27.0041	3.081e-14	32

Member Distributed Loads (BLC 21 : BLC 11 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
21	M6	Z	27.0041	27.0041	9.207e-14	32
22	M6	Z	26.2497	26.2497	5.457e-14	32

Member Area Loads (BLC 1 : DEAD)

Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	Y	A-B	-8	-8	-8	Yes
2	N2	N3	N115	N114	Y	A-B	-8	-8	-8	Yes
3	N3	N4	N116	N115	Y	A-B	-8	-8	-8	Yes
4	N4	N5	N117	N116	Y	A-B	-8	-8	-8	Yes
5	N5	N6	N118	N117	Y	A-B	-8	-8	-8	Yes
6	N6	N7	N119	N118	Y	A-B	-8	-8	-8	Yes
7	N7	N8	N120	N119	Y	A-B	-8	-8	-8	Yes
8	N8	N9	N121	N120	Y	A-B	-8	-8	-8	Yes
9	N9	N10	N122	N121	Y	A-B	-8	-8	-8	Yes
10	N10	N11	N123	N122	Y	A-B	-8	-8	-8	Yes
11	N11	N12	N124	N123	Y	A-B	-8	-8	-8	Yes
12	N12	N13	N125	N124	Y	A-B	-8	-8	-8	Yes
13	N13	N14	N126	N125	Y	A-B	-8	-8	-8	Yes
14	N14	N15	N127	N126	Y	A-B	-8	-8	-8	Yes
15	N15	N16	N128	N127	Y	A-B	-8	-8	-8	Yes

Member Area Loads (BLC 2 : LIVE)

Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	PY	A-B	-50	-50	-50	Yes
2	N2	N3	N115	N114	PY	A-B	-50	-50	-50	Yes
3	N3	N4	N116	N115	PY	A-B	-50	-50	-50	Yes
4	N4	N5	N117	N116	PY	A-B	-50	-50	-50	Yes
5	N5	N6	N118	N117	PY	A-B	-50	-50	-50	Yes
6	N6	N7	N119	N118	PY	A-B	-50	-50	-50	Yes
7	N7	N8	N120	N119	PY	A-B	-50	-50	-50	Yes
8	N8	N9	N121	N120	PY	A-B	-50	-50	-50	Yes
9	N9	N10	N122	N121	PY	A-B	-50	-50	-50	Yes
10	N10	N11	N123	N122	PY	A-B	-50	-50	-50	Yes
11	N11	N12	N124	N123	PY	A-B	-50	-50	-50	Yes
12	N12	N13	N125	N124	PY	A-B	-50	-50	-50	Yes
13	N13	N14	N126	N125	PY	A-B	-50	-50	-50	Yes
14	N14	N15	N127	N126	PY	A-B	-50	-50	-50	Yes
15	N15	N16	N128	N127	PY	A-B	-50	-50	-50	Yes
16	N113	N114	N2	N1	PY	A-B	-50	-50	-50	Yes
17	N2	N3	N1091	N1090	PY	A-B	-50	-50	-50	Yes
18	N1091	N1092	N4	N3	PY	A-B	-50	-50	-50	Yes
19	N1092	N1093	N5	N4	PY	A-B	-50	-50	-50	Yes
20	N1093	N1094	N6	N5	PY	A-B	-50	-50	-50	Yes
21	N1094	N1095	N7	N6	PY	A-B	-50	-50	-50	Yes
22	N1095	N1096	N8	N7	PY	A-B	-50	-50	-50	Yes
23	N1096	N1097	N9	N8	PY	A-B	-50	-50	-50	Yes
24	N1097	N1098	N10	N9	PY	A-B	-50	-50	-50	Yes
25	N1098	N1099	N11	N10	PY	A-B	-50	-50	-50	Yes
26	N1099	N1100	N12	N11	PY	A-B	-50	-50	-50	Yes

Member Area Loads (BLC 4 : SNOW)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	PY	A-B		-25	-25	-25	-25	Yes
2	N2	N3	N115	N114	PY	A-B		-25	-25	-25	-25	Yes
3	N3	N4	N116	N115	PY	A-B		-25	-25	-25	-25	Yes
4	N4	N5	N117	N116	PY	A-B		-25	-25	-25	-25	Yes
5	N5	N6	N118	N117	PY	A-B		-25	-25	-25	-25	Yes
6	N6	N7	N119	N118	PY	A-B		-25	-25	-25	-25	Yes
7	N7	N8	N120	N119	PY	A-B		-25	-25	-25	-25	Yes
8	N8	N9	N121	N120	PY	A-B		-25	-25	-25	-25	Yes
9	N9	N10	N122	N121	PY	A-B		-25	-25	-25	-25	Yes
10	N10	N11	N123	N122	PY	A-B		-25	-25	-25	-25	Yes
11	N11	N12	N124	N123	PY	A-B		-25	-25	-25	-25	Yes
12	N12	N13	N125	N124	PY	A-B		-25	-25	-25	-25	Yes
13	N13	N14	N126	N125	PY	A-B		-25	-25	-25	-25	Yes
14	N14	N15	N127	N126	PY	A-B		-25	-25	-25	-25	Yes
15	N15	N16	N128	N127	PY	A-B		-25	-25	-25	-25	Yes

Member Area Loads (BLC 5 : WIND 0-DEG CASE A)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	Perp	A-B		-10.8	-10.8	-10.8	-10.8	Yes
2	N2	N3	N115	N114	Perp	A-B		-10.8	-10.8	-10.8	-10.8	Yes
3	N3	N4	N116	N115	Perp	A-B		-10.8	-10.8	-10.8	-10.8	Yes
4	N4	N5	N117	N116	Perp	A-B		-10.8	-10.8	-10.8	-10.8	Yes
5	N5	N6	N118	N117	Perp	A-B		-10.8	-10.8	-10.8	-10.8	Yes
6	N6	N7	N119	N118	Perp	A-B		-10.8	-10.8	-10.8	-10.8	Yes
7	N7	N8	N120	N119	Perp	A-B		-16.2	-16.2	-16.2	-16.2	Yes
8	N8	N9	N121	N120	Perp	A-B		-16.2	-16.2	-16.2	-16.2	Yes
9	N9	N10	N122	N121	Perp	A-B		-16.2	-16.2	-16.2	-16.2	Yes
10	N10	N11	N123	N122	Perp	A-B		-16.2	-16.2	-16.2	-16.2	Yes
11	N11	N12	N124	N123	Perp	A-B		-16.2	-16.2	-16.2	-16.2	Yes
12	N12	N13	N125	N124	Perp	A-B		-16.2	-16.2	-16.2	-16.2	Yes

Member Area Loads (BLC 6 : WIND 0-DEG CASE B)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	Perp	A-B		-18.3	-18.3	-18.3	-18.3	Yes
2	N2	N3	N115	N114	Perp	A-B		-18.3	-18.3	-18.3	-18.3	Yes
3	N3	N4	N116	N115	Perp	A-B		-18.3	-18.3	-18.3	-18.3	Yes
4	N4	N5	N117	N116	Perp	A-B		-18.3	-18.3	-18.3	-18.3	Yes
5	N5	N6	N118	N117	Perp	A-B		-18.3	-18.3	-18.3	-18.3	Yes
6	N6	N7	N119	N118	Perp	A-B		-18.3	-18.3	-18.3	-18.3	Yes
7	N7	N8	N120	N119	Perp	A-B		-8.6	-8.6	-8.6	-8.6	Yes
8	N8	N9	N121	N120	Perp	A-B		-8.6	-8.6	-8.6	-8.6	Yes
9	N9	N10	N122	N121	Perp	A-B		-8.6	-8.6	-8.6	-8.6	Yes
10	N10	N11	N123	N122	Perp	A-B		-8.6	-8.6	-8.6	-8.6	Yes
11	N11	N12	N124	N123	Perp	A-B		-8.6	-8.6	-8.6	-8.6	Yes
12	N12	N13	N125	N124	Perp	A-B		-8.6	-8.6	-8.6	-8.6	Yes

Member Area Loads (BLC 7 : WIND 180-DEG CASE A)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A	Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	Perp	A-B		-13	-13	-13	-13	Yes
2	N2	N3	N115	N114	Perp	A-B		-13	-13	-13	-13	Yes
3	N3	N4	N116	N115	Perp	A-B		-13	-13	-13	-13	Yes

Member Area Loads (BLC 7 : WIND 180-DEG CASE A) (Continued)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
4	N4	N5	N117	N116	Perp	A-B	-13	-13	-13	-13	Yes
5	N5	N6	N118	N117	Perp	A-B	-13	-13	-13	-13	Yes
6	N6	N7	N119	N118	Perp	A-B	-13	-13	-13	-13	Yes
7	N7	N8	N120	N119	Perp	A-B	-2.2	-2.2	-2.2	-2.2	Yes
8	N8	N9	N121	N120	Perp	A-B	-2.2	-2.2	-2.2	-2.2	Yes
9	N9	N10	N122	N121	Perp	A-B	-2.2	-2.2	-2.2	-2.2	Yes
10	N10	N11	N123	N122	Perp	A-B	-2.2	-2.2	-2.2	-2.2	Yes
11	N11	N12	N124	N123	Perp	A-B	-2.2	-2.2	-2.2	-2.2	Yes
12	N12	N13	N125	N124	Perp	A-B	-2.2	-2.2	-2.2	-2.2	Yes

Member Area Loads (BLC 8 : WIND 180-DEG CASE B)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	Perp	A-B	-3.2	-3.2	-3.2	-3.2	Yes
2	N2	N3	N115	N114	Perp	A-B	-3.2	-3.2	-3.2	-3.2	Yes
3	N3	N4	N116	N115	Perp	A-B	-3.2	-3.2	-3.2	-3.2	Yes
4	N4	N5	N117	N116	Perp	A-B	-3.2	-3.2	-3.2	-3.2	Yes
5	N5	N6	N118	N117	Perp	A-B	-3.2	-3.2	-3.2	-3.2	Yes
6	N6	N7	N119	N118	Perp	A-B	-3.2	-3.2	-3.2	-3.2	Yes
7	N7	N8	N120	N119	Perp	A-B	8.6	8.6	8.6	8.6	Yes
8	N8	N9	N121	N120	Perp	A-B	8.6	8.6	8.6	8.6	Yes
9	N9	N10	N122	N121	Perp	A-B	8.6	8.6	8.6	8.6	Yes
10	N10	N11	N123	N122	Perp	A-B	8.6	8.6	8.6	8.6	Yes
11	N11	N12	N124	N123	Perp	A-B	8.6	8.6	8.6	8.6	Yes
12	N12	N13	N125	N124	Perp	A-B	8.6	8.6	8.6	8.6	Yes

Member Area Loads (BLC 9 : WIND 90-DEG)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1067	N113	N114	N1068	Z	A-B	1.1	1.1	1.1	1.1	Yes
2	N1068	N114	N124	N1079	Z	A-B	1.1	1.1	1.1	1.1	Yes
3	N1079	N124	N125	N1066	Z	A-B	1.1	1.1	1.1	1.1	Yes

Member Area Loads (BLC 10 : ELX)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	X	A-B	9.6456	9.6456	9.6456	9.6456	Yes
2	N2	N3	N115	N114	X	A-B	5.5147	5.5147	5.5147	5.5147	Yes
3	N3	N4	N116	N115	X	A-B	5.4005	5.4005	5.4005	5.4005	Yes
4	N4	N5	N117	N116	X	A-B	5.2598	5.2598	5.2598	5.2598	Yes
5	N5	N6	N118	N117	X	A-B	5.0976	5.0976	5.0976	5.0976	Yes
6	N6	N7	N119	N118	X	A-B	4.9552	4.9552	4.9552	4.9552	Yes
7	N7	N8	N120	N119	X	A-B	4.8187	4.8187	4.8187	4.8187	Yes
8	N8	N9	N121	N120	X	A-B	4.6738	4.6738	4.6738	4.6738	Yes
9	N9	N10	N122	N121	X	A-B	4.5331	4.5331	4.5331	4.5331	Yes
10	N10	N11	N123	N122	X	A-B	4.3941	4.3941	4.3941	4.3941	Yes
11	N11	N12	N124	N123	X	A-B	4.2517	4.2517	4.2517	4.2517	Yes

Member Area Loads (BLC 11 : ELZ)

	Node A	Node B	Node C	Node D	Direction	Load	Direction A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N1	N2	N114	N113	Z	A-B	9.6456	9.6456	9.6456	9.6456	Yes
2	N2	N3	N115	N114	Z	A-B	5.5147	5.5147	5.5147	5.5147	Yes
3	N3	N4	N116	N115	Z	A-B	5.4005	5.4005	5.4005	5.4005	Yes

Member Area Loads (BLC 11 : ELZ) (Continued)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
4	N4	N5	N117	N116	Z	A-B	5.2598	5.2598	5.2598	5.2598	Yes
5	N5	N6	N118	N117	Z	A-B	5.0976	5.0976	5.0976	5.0976	Yes
6	N6	N7	N119	N118	Z	A-B	4.9552	4.9552	4.9552	4.9552	Yes
7	N7	N8	N120	N119	Z	A-B	4.8187	4.8187	4.8187	4.8187	Yes
8	N8	N9	N121	N120	Z	A-B	4.6738	4.6738	4.6738	4.6738	Yes
9	N9	N10	N122	N121	Z	A-B	4.5331	4.5331	4.5331	4.5331	Yes
10	N10	N11	N123	N122	Z	A-B	4.3941	4.3941	4.3941	4.3941	Yes
11	N11	N12	N124	N123	Z	A-B	4.2517	4.2517	4.2517	4.2517	Yes

Plate Surface Loads

No Data to Print...											
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Basic Load Cases

	BLC Description	Category	Distributed	Area(Member)
1	DEAD	DL		15
2	LIVE	LL		26
3	ROOF LIVE	RLL		
4	SNOW	SL		15
5	WIND 0-DEG CASE A	WL+X		12
6	WIND 0-DEG CASE B	WL-X		12
7	WIND 180-DEG CASE A	WL+Z		12
8	WIND 180-DEG CASE B	WL-Z		12
9	WIND 90-DEG	WL	24	3
10	ELX	ELX		11
11	ELZ	ELZ		11
12	BLC 1 Transient Area Loads	None	30	
13	BLC 2 Transient Area Loads	None	43	
14	BLC 4 Transient Area Loads	None	30	
15	BLC 5 Transient Area Loads	None	48	
16	BLC 6 Transient Area Loads	None	48	
17	BLC 7 Transient Area Loads	None	48	
18	BLC 8 Transient Area Loads	None	48	
19	BLC 9 Transient Area Loads	None	452	
20	BLC 10 Transient Area Loads	None	22	
21	BLC 11 Transient Area Loads	None	22	

Load Combinations

	Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	EX		Y	ELX	1											
2	** ASD GRAVITY LOAD **															
3																
4	Deflection 1	Yes	Y	DL	1											
5	Deflection 2	Yes	Y	LL	1											
6	Deflection 3	Yes	Y	DL	1	LL	1									
7	IBC 21/ASCE ASD 1 (DL)	Yes	Y	DL	1											
8	IBC 21/ASCE ASD 2 (DL+LL)	Yes	Y	DL	1	LL	1	LLS	1							
9	IBC 21/ASCE ASD 3 (a) (DL+RLL)	Yes	Y	DL	1	RLL	1									
10	IBC 21/ASCE ASD 3 (b) (DL+SL)	Yes	Y	DL	1	SL	1	SLN	1							
11	IBC 21/ASCE ASD 4 (a) (DL+RLL+SL)	Yes	Y	DL	1	LL	0.75	LLS	0.75	RLL	0.75					
12	IBC 21/ASCE ASD 4 (b) (DL+LL+SL)	Yes	Y	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75			
13																
14	** ASD WIND LOAD CASES **															
15																

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
16	IBC 21/ASCE ASD 5 (a) (a)	Yes	Y	DL	1	WL	0.6										
17	IBC 21/ASCE ASD 5 (a) (b)	Yes	Y	DL	1	WL+X	0.6										
18	IBC 21/ASCE ASD 5 (a) (c)	Yes	Y	DL	1	WL-X	0.6										
19	IBC 21/ASCE ASD 5 (a) (d)	Yes	Y	DL	1	WL+Z	0.6										
20	IBC 21/ASCE ASD 5 (a) (e)	Yes	Y	DL	1	WL-Z	0.6										
21	IBC 21/ASCE ASD 6 (a) (a)	Yes	Y	DL	1	WL	0.45	LL	0.75	LLS	0.75	RLL	0.75				
22	IBC 21/ASCE ASD 6 (a) (b)	Yes	Y	DL	1	WL+X	0.45	LL	0.75	LLS	0.75	RLL	0.75				
23	IBC 21/ASCE ASD 6 (a) (c)	Yes	Y	DL	1	WL-X	0.45	LL	0.75	LLS	0.75	RLL	0.75				
24	IBC 21/ASCE ASD 6 (a) (d)	Yes	Y	DL	1	WL+Z	0.45	LL	0.75	LLS	0.75	RLL	0.75				
25	IBC 21/ASCE ASD 6 (a) (e)	Yes	Y	DL	1	WL-Z	0.45	LL	0.75	LLS	0.75	RLL	0.75				
26	IBC 21/ASCE ASD 6 (b) (a)	Yes	Y	DL	1	WL	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
27	IBC 21/ASCE ASD 6 (b) (b)	Yes	Y	DL	1	WL+X	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
28	IBC 21/ASCE ASD 6 (b) (c)	Yes	Y	DL	1	WL-X	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
29	IBC 21/ASCE ASD 6 (b) (d)	Yes	Y	DL	1	WL+Z	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
30	IBC 21/ASCE ASD 6 (b) (e)	Yes	Y	DL	1	WL-Z	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
31	IBC 21/ASCE ASD 6 (c) (a)	Yes	Y	DL	1	WL	0.45	LL	0.75	LLS	0.75						
32	IBC 21/ASCE ASD 6 (c) (b)	Yes	Y	DL	1	WL+X	0.45	LL	0.75	LLS	0.75						
33	IBC 21/ASCE ASD 6 (c) (c)	Yes	Y	DL	1	WL-X	0.45	LL	0.75	LLS	0.75						
34	IBC 21/ASCE ASD 6 (c) (d)	Yes	Y	DL	1	WL+Z	0.45	LL	0.75	LLS	0.75						
35	IBC 21/ASCE ASD 6 (c) (e)	Yes	Y	DL	1	WL-Z	0.45	LL	0.75	LLS	0.75						
36	IBC 21/ASCE ASD 7 (a)	Yes	Y	DL	0.6	WL	0.6										
37	IBC 21/ASCE ASD 7 (b)	Yes	Y	DL	0.6	WL+X	0.6										
38	IBC 21/ASCE ASD 7 (c)	Yes	Y	DL	0.6	WL-X	0.6										
39	IBC 21/ASCE ASD 7 (d)	Yes	Y	DL	0.6	WL+Z	0.6										
40	IBC 21/ASCE ASD 7 (e)	Yes	Y	DL	0.6	WL-Z	0.6										
41																	
42	** ASD SEISMIC LOAD CASES **																
43																	
44	IBC 21/ASCE ASD 8 (a)	Yes	Y	DL	1			ELX	0.7								
45	IBC 21/ASCE ASD 8 (b)	Yes	Y	DL	1			ELZ	0.7								
46	IBC 21/ASCE ASD 8 (c)	Yes	Y	DL	1			ELX	-0.7								
47	IBC 21/ASCE ASD 8 (d)	Yes	Y	DL	1			ELZ	-0.7								
48	IBC 21/ASCE ASD 9 (a)	Yes	Y	DL	1			ELX	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
49	IBC 21/ASCE ASD 9 (b)	Yes	Y	DL	1			ELZ	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
50	IBC 21/ASCE ASD 9 (c)	Yes	Y	DL	1			ELX	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
51	IBC 21/ASCE ASD 9 (d)	Yes	Y	DL	1			ELZ	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
52	IBC 21/ASCE ASD 10 (a)	Yes	Y	DL	0.6			ELX	0.7								
53	IBC 21/ASCE ASD 10 (b)	Yes	Y	DL	0.6			ELZ	0.7								
54	IBC 21/ASCE ASD 10 (c)	Yes	Y	DL	0.6			ELX	-0.7								
55	IBC 21/ASCE ASD 10 (d)	Yes	Y	DL	0.6			ELZ	-0.7								
56																	
57	** LRFD COMBINATIONS FOR ANCHORAGE **																
58																	
59	IBC 21/ASCE Strength 1		Y	DL	1.4	NL	1										
60	IBC 21/ASCE Strength 2 (a)		Y	DL	1.2	LL	1.6	LLS	1.6	RLL	0.5	NL	1				
61	IBC 21/ASCE Strength 2 (b)		Y	DL	1.2	LL	1.6	LLS	1.6	SL	0.5	SLN	0.5	NL	1		
62	IBC 21/ASCE Strength 2 (c)		Y	DL	1.2	LL	1.6	LLS	1.6		1						
63	IBC 21/ASCE Strength 3 (a)		Y	DL	1.2	RLL	1.6	LL	0.5	LLS	1	NL	1				
64	IBC 21/ASCE Strength 3 (c)		Y	DL	1.2	SL	1.6	SLN	1.6	LL	0.5	LLS	1	NL	1		
65	IBC 21/ASCE Strength 3 (b) (a)		Y	DL	1.2	RLL	1.6	WL	0.5								
66	IBC 21/ASCE Strength 3 (b) (b)		Y	DL	1.2	RLL	1.6	WL+X	0.5								
67	IBC 21/ASCE Strength 3 (b) (c)		Y	DL	1.2	RLL	1.6	WL-X	0.5								
68	IBC 21/ASCE Strength 3 (b) (d)		Y	DL	1.2	RLL	1.6	WL+Z	0.5								
69	IBC 21/ASCE Strength 3 (b) (e)		Y	DL	1.2	RLL	1.6	WL-Z	0.5								
70	IBC 21/ASCE Strength 3 (b) (g)		Y	DL	1.2	RLL	1.6	WL	-0.5								

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
71	IBC 21/ASCE Strength 3 (b) (h)		Y	DL	1.2	RLL	1.6	WL+X	-0.5								
72	IBC 21/ASCE Strength 3 (b) (i)		Y	DL	1.2	RLL	1.6	WL-X	-0.5								
73	IBC 21/ASCE Strength 3 (b) (j)		Y	DL	1.2	RLL	1.6	WL+Z	-0.5								
74	IBC 21/ASCE Strength 3 (b) (k)		Y	DL	1.2	RLL	1.6	WL-Z	-0.5								
75	IBC 21/ASCE Strength 3 (d) (a)		Y	DL	1.2	SL	1.6	SLN	1.6	WL	0.5						
76	IBC 21/ASCE Strength 3 (d) (b)		Y	DL	1.2	SL	1.6	SLN	1.6	WL+X	0.5						
77	IBC 21/ASCE Strength 3 (d) (c)		Y	DL	1.2	SL	1.6	SLN	1.6	WL-X	0.5						
78	IBC 21/ASCE Strength 3 (d) (d)		Y	DL	1.2	SL	1.6	SLN	1.6	WL+Z	0.5						
79	IBC 21/ASCE Strength 3 (d) (e)		Y	DL	1.2	SL	1.6	SLN	1.6	WL-Z	0.5						
80	IBC 21/ASCE Strength 3 (d) (g)		Y	DL	1.2	SL	1.6	SLN	1.6	WL	-0.5						
81	IBC 21/ASCE Strength 3 (d) (h)		Y	DL	1.2	SL	1.6	SLN	1.6	WL+X	-0.5						
82	IBC 21/ASCE Strength 3 (d) (i)		Y	DL	1.2	SL	1.6	SLN	1.6	WL-X	-0.5						
83	IBC 21/ASCE Strength 3 (d) (j)		Y	DL	1.2	SL	1.6	SLN	1.6	WL+Z	-0.5						
84	IBC 21/ASCE Strength 3 (d) (k)		Y	DL	1.2	SL	1.6	SLN	1.6	WL-Z	-0.5						
85	IBC 21/ASCE Strength 3 (f) (a)		Y	DL	1.2	WL	0.5										
86	IBC 21/ASCE Strength 3 (f) (b)		Y	DL	1.2	WL+X	0.5										
87	IBC 21/ASCE Strength 3 (f) (c)		Y	DL	1.2	WL-X	0.5										
88	IBC 21/ASCE Strength 3 (f) (d)		Y	DL	1.2	WL+Z	0.5										
89	IBC 21/ASCE Strength 3 (f) (e)		Y	DL	1.2	WL-Z	0.5										
90	IBC 21/ASCE Strength 3 (f) (g)		Y	DL	1.2	WL	-0.5										
91	IBC 21/ASCE Strength 3 (f) (h)		Y	DL	1.2	WL+X	-0.5										
92	IBC 21/ASCE Strength 3 (f) (i)		Y	DL	1.2	WL-X	-0.5										
93	IBC 21/ASCE Strength 3 (f) (j)		Y	DL	1.2	WL+Z	-0.5										
94	IBC 21/ASCE Strength 3 (f) (k)		Y	DL	1.2	WL-Z	-0.5										
95	IBC 21/ASCE Strength 4 (a) (a)		Y	DL	1.2	WL	1	LL	0.5	LLS	1	RLL	0.5				
96	IBC 21/ASCE Strength 4 (a) (b)		Y	DL	1.2	WL+X	1	LL	0.5	LLS	1	RLL	0.5				
97	IBC 21/ASCE Strength 4 (a) (c)		Y	DL	1.2	WL-X	1	LL	0.5	LLS	1	RLL	0.5				
98	IBC 21/ASCE Strength 4 (a) (d)		Y	DL	1.2	WL+Z	1	LL	0.5	LLS	1	RLL	0.5				
99	IBC 21/ASCE Strength 4 (a) (e)		Y	DL	1.2	WL-Z	1	LL	0.5	LLS	1	RLL	0.5				
100	IBC 21/ASCE Strength 4 (a) (g)		Y	DL	1.2	WL	-1	LL	0.5	LLS	1	RLL	0.5				
101	IBC 21/ASCE Strength 4 (a) (h)		Y	DL	1.2	WL+X	-1	LL	0.5	LLS	1	RLL	0.5				
102	IBC 21/ASCE Strength 4 (a) (i)		Y	DL	1.2	WL-X	-1	LL	0.5	LLS	1	RLL	0.5				
103	IBC 21/ASCE Strength 4 (a) (j)		Y	DL	1.2	WL+Z	-1	LL	0.5	LLS	1	RLL	0.5				
104	IBC 21/ASCE Strength 4 (a) (k)		Y	DL	1.2	WL-Z	-1	LL	0.5	LLS	1	RLL	0.5				
105	IBC 21/ASCE Strength 4 (b) (a)		Y	DL	1.2	WL	1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
106	IBC 21/ASCE Strength 4 (b) (b)		Y	DL	1.2	WL+X	1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
107	IBC 21/ASCE Strength 4 (b) (c)		Y	DL	1.2	WL-X	1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
108	IBC 21/ASCE Strength 4 (b) (d)		Y	DL	1.2	WL+Z	1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
109	IBC 21/ASCE Strength 4 (b) (e)		Y	DL	1.2	WL-Z	1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
110	IBC 21/ASCE Strength 4 (b) (f)		Y	DL	1.2	WLZP2	1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
111	IBC 21/ASCE Strength 4 (b) (h)		Y	DL	1.2	WL	-1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
112	IBC 21/ASCE Strength 4 (b) (i)		Y	DL	1.2	WL+X	-1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
113	IBC 21/ASCE Strength 4 (b) (j)		Y	DL	1.2	WL-X	-1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
114	IBC 21/ASCE Strength 4 (b) (k)		Y	DL	1.2	WL+Z	-1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
115	IBC 21/ASCE Strength 4 (b) (l)		Y	DL	1.2	WL-Z	-1	LL	0.5	LLS	1	SL	0.5	SLN	0.5		
116	IBC 21/ASCE Strength 4 (c) (b)		Y	DL	1.2	WL	1	LL	0.5	LLS	1						
117	IBC 21/ASCE Strength 4 (c) (c)		Y	DL	1.2	WL+X	1	LL	0.5	LLS	1						
118	IBC 21/ASCE Strength 4 (c) (d)		Y	DL	1.2	WL-X	1	LL	0.5	LLS	1						
119	IBC 21/ASCE Strength 4 (c) (e)		Y	DL	1.2	WL+Z	1	LL	0.5	LLS	1						
120	IBC 21/ASCE Strength 4 (c) (f)		Y	DL	1.2	WL-Z	1	LL	0.5	LLS	1						
121	IBC 21/ASCE Strength 4 (c) (g)		Y	DL	1.2	WL	-1	LL	0.5	LLS	1						
122	IBC 21/ASCE Strength 4 (c) (h)		Y	DL	1.2	WL+X	-1	LL	0.5	LLS	1						
123	IBC 21/ASCE Strength 4 (c) (i)		Y	DL	1.2	WL-X	-1	LL	0.5	LLS	1						
124	IBC 21/ASCE Strength 4 (c) (j)		Y	DL	1.2	WL+Z	-1	LL	0.5	LLS	1						
125	IBC 21/ASCE Strength 4 (c) (k)		Y	DL	1.2	WL-Z	-1	LL	0.5	LLS	1						

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
126	IBC 21/ASCE Strength 5 (a)		Y	DL	0.9	WL	1										
127	IBC 21/ASCE Strength 5 (b)		Y	DL	0.9	WL+X	1										
128	IBC 21/ASCE Strength 5 (c)		Y	DL	0.9	WL-X	1										
129	IBC 21/ASCE Strength 5 (d)		Y	DL	0.9	WL+Z	1										
130	IBC 21/ASCE Strength 5 (e)		Y	DL	0.9	WL-Z	1										
131	IBC 21/ASCE Strength 5 (g)		Y	DL	0.9	WL	-1										
132	IBC 21/ASCE Strength 5 (h)		Y	DL	0.9	WL+X	-1										
133	IBC 21/ASCE Strength 5 (i)		Y	DL	0.9	WL-X	-1										
134	IBC 21/ASCE Strength 5 (j)		Y	DL	0.9	WL+Z	-1										
135	IBC 21/ASCE Strength 5 (k)		Y	DL	0.9	WL-Z	-1										
136	IBC 21/ASCE Strength 6 (a)		Y	DL	1.2	Sds*DL	0.2	ELX	2	LL	0.5	LLS	1	SL	0.2	SLN	0.2
137	IBC 21/ASCE Strength 6 (b)		Y	DL	1.2	Sds*DL	0.2	ELZ	2	LL	0.5	LLS	1	SL	0.2	SLN	0.2
138	IBC 21/ASCE Strength 6 (c)		Y	DL	1.2	Sds*DL	0.2	ELX	-2	LL	0.5	LLS	1	SL	0.2	SLN	0.2
139	IBC 21/ASCE Strength 6 (d)		Y	DL	1.2	Sds*DL	0.2	ELZ	-2	LL	0.5	LLS	1	SL	0.2	SLN	0.2
140	IBC 21/ASCE Strength 7 (a)		Y	DL	0.9	Sds*DL	-0.2	ELX	2								
141	IBC 21/ASCE Strength 7 (b)		Y	DL	0.9	Sds*DL	-0.2	ELZ	2								
142	IBC 21/ASCE Strength 7 (c)		Y	DL	0.9	Sds*DL	-0.2	ELX	-2								
143	IBC 21/ASCE Strength 7 (d)		Y	DL	0.9	Sds*DL	-0.2	ELZ	-2								

Load Combination Design

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	EX			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	** ASD GRAVITY LOAD **			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	Deflection 1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	Deflection 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	Deflection 3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 21/ASCE ASD 1 (DL)	0.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	IBC 21/ASCE ASD 2 (DL+LL)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	IBC 21/ASCE ASD 3 (a) (DL+RLL)	1.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 21/ASCE ASD 3 (b) (DL+SL)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 21/ASCE ASD 4 (a) (DL+RLL+SL)	1.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 21/ASCE ASD 4 (b) (DL+LL+SL)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13		1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	** ASD WIND LOAD CASES **	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15		1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 21/ASCE ASD 5 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 21/ASCE ASD 5 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 21/ASCE ASD 5 (a) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 21/ASCE ASD 5 (a) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	IBC 21/ASCE ASD 5 (a) (e)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	IBC 21/ASCE ASD 6 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22	IBC 21/ASCE ASD 6 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	IBC 21/ASCE ASD 6 (a) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24	IBC 21/ASCE ASD 6 (a) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25	IBC 21/ASCE ASD 6 (a) (e)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26	IBC 21/ASCE ASD 6 (b) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	IBC 21/ASCE ASD 6 (b) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28	IBC 21/ASCE ASD 6 (b) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29	IBC 21/ASCE ASD 6 (b) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30	IBC 21/ASCE ASD 6 (b) (e)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	IBC 21/ASCE ASD 6 (c) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
32	IBC 21/ASCE ASD 6 (c) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
33	IBC 21/ASCE ASD 6 (c) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
34	IBC 21/ASCE ASD 6 (c) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Load Combination Design (Continued)

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
35	IBC 21/ASCE ASD 6 (c) (e)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
36	IBC 21/ASCE ASD 7 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
37	IBC 21/ASCE ASD 7 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
38	IBC 21/ASCE ASD 7 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
39	IBC 21/ASCE ASD 7 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
40	IBC 21/ASCE ASD 7 (e)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
41		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
42	** ASD SEISMIC LOAD CASES **	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
43		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
44	IBC 21/ASCE ASD 8 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
45	IBC 21/ASCE ASD 8 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
46	IBC 21/ASCE ASD 8 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
47	IBC 21/ASCE ASD 8 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
48	IBC 21/ASCE ASD 9 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
49	IBC 21/ASCE ASD 9 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
50	IBC 21/ASCE ASD 9 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
51	IBC 21/ASCE ASD 9 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
52	IBC 21/ASCE ASD 10 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
53	IBC 21/ASCE ASD 10 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
54	IBC 21/ASCE ASD 10 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
55	IBC 21/ASCE ASD 10 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
56		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
57	** LRFD COMBINATIONS FOR ANCHORAGE **	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
58		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
59	IBC 21/ASCE Strength 1			Yes	Yes		Yes	Yes	Yes	Yes	Yes
60	IBC 21/ASCE Strength 2 (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
61	IBC 21/ASCE Strength 2 (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
62	IBC 21/ASCE Strength 2 (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
63	IBC 21/ASCE Strength 3 (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
64	IBC 21/ASCE Strength 3 (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
65	IBC 21/ASCE Strength 3 (b) (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
66	IBC 21/ASCE Strength 3 (b) (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
67	IBC 21/ASCE Strength 3 (b) (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
68	IBC 21/ASCE Strength 3 (b) (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
69	IBC 21/ASCE Strength 3 (b) (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
70	IBC 21/ASCE Strength 3 (b) (g)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
71	IBC 21/ASCE Strength 3 (b) (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
72	IBC 21/ASCE Strength 3 (b) (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
73	IBC 21/ASCE Strength 3 (b) (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
74	IBC 21/ASCE Strength 3 (b) (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
75	IBC 21/ASCE Strength 3 (d) (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
76	IBC 21/ASCE Strength 3 (d) (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
77	IBC 21/ASCE Strength 3 (d) (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
78	IBC 21/ASCE Strength 3 (d) (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
79	IBC 21/ASCE Strength 3 (d) (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
80	IBC 21/ASCE Strength 3 (d) (g)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
81	IBC 21/ASCE Strength 3 (d) (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
82	IBC 21/ASCE Strength 3 (d) (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
83	IBC 21/ASCE Strength 3 (d) (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
84	IBC 21/ASCE Strength 3 (d) (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
85	IBC 21/ASCE Strength 3 (f) (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
86	IBC 21/ASCE Strength 3 (f) (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
87	IBC 21/ASCE Strength 3 (f) (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
88	IBC 21/ASCE Strength 3 (f) (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
89	IBC 21/ASCE Strength 3 (f) (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes

Load Combination Design (Continued)

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
90	IBC 21/ASCE Strength 3 (f) (g)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
91	IBC 21/ASCE Strength 3 (f) (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
92	IBC 21/ASCE Strength 3 (f) (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
93	IBC 21/ASCE Strength 3 (f) (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
94	IBC 21/ASCE Strength 3 (f) (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
95	IBC 21/ASCE Strength 4 (a) (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
96	IBC 21/ASCE Strength 4 (a) (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
97	IBC 21/ASCE Strength 4 (a) (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
98	IBC 21/ASCE Strength 4 (a) (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
99	IBC 21/ASCE Strength 4 (a) (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
100	IBC 21/ASCE Strength 4 (a) (g)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
101	IBC 21/ASCE Strength 4 (a) (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
102	IBC 21/ASCE Strength 4 (a) (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
103	IBC 21/ASCE Strength 4 (a) (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
104	IBC 21/ASCE Strength 4 (a) (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
105	IBC 21/ASCE Strength 4 (b) (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
106	IBC 21/ASCE Strength 4 (b) (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
107	IBC 21/ASCE Strength 4 (b) (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
108	IBC 21/ASCE Strength 4 (b) (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
109	IBC 21/ASCE Strength 4 (b) (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
110	IBC 21/ASCE Strength 4 (b) (f)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
111	IBC 21/ASCE Strength 4 (b) (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
112	IBC 21/ASCE Strength 4 (b) (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
113	IBC 21/ASCE Strength 4 (b) (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
114	IBC 21/ASCE Strength 4 (b) (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
115	IBC 21/ASCE Strength 4 (b) (l)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
116	IBC 21/ASCE Strength 4 (c) (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
117	IBC 21/ASCE Strength 4 (c) (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
118	IBC 21/ASCE Strength 4 (c) (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
119	IBC 21/ASCE Strength 4 (c) (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
120	IBC 21/ASCE Strength 4 (c) (f)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
121	IBC 21/ASCE Strength 4 (c) (g)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
122	IBC 21/ASCE Strength 4 (c) (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
123	IBC 21/ASCE Strength 4 (c) (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
124	IBC 21/ASCE Strength 4 (c) (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
125	IBC 21/ASCE Strength 4 (c) (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
126	IBC 21/ASCE Strength 5 (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
127	IBC 21/ASCE Strength 5 (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
128	IBC 21/ASCE Strength 5 (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
129	IBC 21/ASCE Strength 5 (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
130	IBC 21/ASCE Strength 5 (e)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
131	IBC 21/ASCE Strength 5 (g)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
132	IBC 21/ASCE Strength 5 (h)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
133	IBC 21/ASCE Strength 5 (i)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
134	IBC 21/ASCE Strength 5 (j)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
135	IBC 21/ASCE Strength 5 (k)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
136	IBC 21/ASCE Strength 6 (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
137	IBC 21/ASCE Strength 6 (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
138	IBC 21/ASCE Strength 6 (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
139	IBC 21/ASCE Strength 6 (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
140	IBC 21/ASCE Strength 7 (a)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
141	IBC 21/ASCE Strength 7 (b)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
142	IBC 21/ASCE Strength 7 (c)			Yes	Yes		Yes	Yes	Yes	Yes	Yes
143	IBC 21/ASCE Strength 7 (d)			Yes	Yes		Yes	Yes	Yes	Yes	Yes

Envelope Node Reactions

Node Label	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N112	max	0	55	1301.875	48	0	55	0	55	0	55
2		min	0	4	0	20	0	4	0	4	0	4
3	N32	max	0	55	1217.046	50	0	55	0	55	0	55
4		min	0	4	0	54	0	4	0	4	0	4
5	N1251	max	0	55	0.09	55	0	55	0	55	0	55
6		min	0	4	0	4	0	4	0	4	0	4
7	N1071	max	0	55	812.911	50	0	55	0	55	0	55
8		min	0	4	0	54	0	4	0	4	0	4
9	N1375	max	0	55	690.094	48	0	55	0	55	0	55
10		min	0	4	0	46	0	4	0	4	0	4
11	N16	max	0	55	0	55	2112.305	53	0	55	0	55
12		min	0	4	0	4	-2147.886	47	0	4	0	4
13	N48	max	0	55	1629.35	48	0	55	0	55	0	55
14		min	0	4	120.749	37	0	4	0	4	0	4
15	N64	max	0	55	1590.81	48	0	55	0	55	0	55
16		min	0	4	0	46	0	4	0	4	0	4
17	N80	max	0	55	1857.524	50	0	55	0	55	0	55
18		min	0	4	0	46	0	4	0	4	0	4
19	N96	max	0	55	2134.85	50	0	55	0	55	0	55
20		min	0	4	0	40	0	4	0	4	0	4
21	N128	max	0	55	800.169	44	3205.887	50	0	55	0	55
22		min	0	4	0	4	-3671.668	44	0	4	0	4
23	N129	max	1.078	51	2243.571	49	9.353	49	0	55	0	55
24		min	-2.204	49	0	18	-6.661	51	0	4	0	4
25	N130	max	1.467	51	2769.374	8	11.066	49	0	55	0	55
26		min	-2.248	49	0	18	-11.696	51	0	4	0	4
27	N131	max	0.826	51	2592.861	8	10.101	49	0	55	0	55
28		min	-1.568	49	0	18	-10.961	51	0	4	0	4
29	N133	max	0.075	48	2773.174	8	10.911	49	0	55	0	55
30		min	-0.854	50	0	18	-11.751	51	0	4	0	4
31	N132	max	0.444	51	2592.332	8	10.239	49	0	55	0	55
32		min	-1.222	49	0	18	-10.908	51	0	4	0	4
33	N134	max	0.018	44	1700.227	51	6.195	49	0	55	0	55
34		min	-1.296	54	0	18	-7.605	51	0	4	0	4
35	N135	max	1.688	51	4995.814	51	19.016	49	0	55	0	55
36		min	-3.127	49	0	18	-21.139	51	0	4	0	4
37	N136	max	0.111	48	4524.915	49	17.797	49	0	55	0	55
38		min	-1.346	50	0	18	-17.591	51	0	4	0	4
39	N137	max	3.572	51	4914.02	51	15.046	49	0	55	0	55
40		min	-3.746	49	0	18	-20.774	51	0	4	0	4
41	N138	max	2.764	51	4890.672	51	17.457	49	0	55	0	55
42		min	-3.75	49	0	18	-20.682	51	0	4	0	4
43	N139	max	0.879	51	4857.947	49	19.123	49	0	55	0	55
44		min	-2.421	49	0	18	-20.396	51	0	4	0	4
45	N140	max	0.034	48	4261.294	49	16.755	49	0	55	0	55
46		min	-0.945	50	0	18	-13.888	51	0	4	0	4
47	N141	max	3.071	51	4783.22	50	18.877	49	0	55	0	55
48		min	-4.368	49	0	18	-20.253	51	0	4	0	4
49	N142	max	1.645	51	3801.987	50	14.963	49	0	55	0	55
50		min	-2.441	49	0	18	-16.074	51	0	4	0	4
51	N143	max	0.159	48	4223.961	50	16.625	49	0	55	0	55
52		min	-1.462	50	0	18	-17.871	51	0	4	0	4
53	N144	max	3.26	51	3999.736	8	14.988	49	0	55	0	55
54		min	-3.963	49	0	18	-16.162	51	0	4	0	4
55	N145	max	0.994	51	3992.729	50	15.728	49	0	55	0	55

Envelope Node Reactions (Continued)

Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
56		min	-1.943	49	0	18	-16.889	51	0	4	0	4	0	4
57	N146	max	0.15	48	2379.245	50	9.404	49	0	55	0	55	0	55
58		min	-0.583	50	0	18	-10.05	51	0	4	0	4	0	4
59	N153	max	3.493	51	4767.552	50	19.229	49	0	55	0	55	0	55
60		min	-4.763	49	0	18	-20.541	51	0	4	0	4	0	4
61	N154	max	1.9	51	3853.811	50	15.443	49	0	55	0	55	0	55
62		min	-2.707	49	0	18	-16.612	51	0	4	0	4	0	4
63	N155	max	0.227	48	4278.37	50	17.145	49	0	55	0	55	0	55
64		min	-1.577	50	0	18	-18.466	51	0	4	0	4	0	4
65	N156	max	3.678	51	3974.457	8	16.15	49	0	55	0	55	0	55
66		min	-4.616	49	0	18	-16.399	51	0	4	0	4	0	4
67	N157	max	1.155	51	3939.054	50	15.834	49	0	55	0	55	0	55
68		min	-2.074	49	0	18	-16.967	51	0	4	0	4	0	4
69	N158	max	0.189	48	2349.076	51	9.389	49	0	55	0	55	0	55
70		min	-1.227	54	0	18	-10.289	51	0	4	0	4	0	4
71	N165	max	4.011	51	4815.836	50	19.08	49	0	55	0	55	0	55
72		min	-5.06	49	0	18	-20.873	51	0	4	0	4	0	4
73	N166	max	2.616	51	4825.788	49	20.155	49	0	55	0	55	0	55
74		min	-3.996	49	0	18	-21.62	51	0	4	0	4	0	4
75	N167	max	0.329	48	4275.294	50	17.47	49	0	55	0	55	0	55
76		min	-1.673	50	0	18	-18.282	51	0	4	0	4	0	4
77	N168	max	5.963	51	5706.436	51	17.275	49	0	55	0	55	0	55
78		min	-5.364	49	120.915	39	-25.566	51	0	4	0	4	0	4
79	N169	max	1.555	51	4984.749	51	20.159	49	0	55	0	55	0	55
80		min	-3.004	49	0	18	-22.335	51	0	4	0	4	0	4
81	N170	max	0.232	48	4155.014	49	17.351	49	0	55	0	55	0	55
82		min	-1.741	54	26.225	39	-10.629	51	0	4	0	4	0	4
83	N177	max	4.731	51	4783.139	50	20.328	49	0	55	0	55	0	55
84		min	-5.881	49	0	18	-21.738	51	0	4	0	4	0	4
85	N178	max	0.453	48	4291.249	50	18.173	49	0	55	0	55	0	55
86		min	-1.805	50	0	18	-19.55	51	0	4	0	4	0	4
87	N179	max	0.285	48	2374.425	51	9.894	49	0	55	0	55	0	55
88		min	-0.684	50	0	18	-10.97	51	0	4	0	4	0	4
89	N180	max	2.595	51	3837.446	50	16.284	49	0	55	0	55	0	55
90		min	-3.332	49	0	18	-17.459	51	0	4	0	4	0	4
91	N181	max	4.851	51	3971.173	8	16.067	49	0	55	0	55	0	55
92		min	-5.377	49	0	18	-17.254	51	0	4	0	4	0	4
93	N182	max	1.663	51	3930.662	50	16.692	49	0	55	0	55	0	55
94		min	-2.523	49	0	18	-17.867	51	0	4	0	4	0	4
95	N189	max	5.722	51	4894.878	30	21.768	49	0	55	0	55	0	55
96		min	-6.92	49	0	17	-22.995	51	0	4	0	4	0	4
97	N190	max	0.619	48	4311.573	30	18.88	49	0	55	0	55	0	55
98		min	-1.96	50	0	17	-20.361	51	0	4	0	4	0	4
99	N191	max	0.353	48	2501.358	51	10.34	49	0	55	0	55	0	55
100		min	-2.971	54	0	17	-12.034	51	0	4	0	4	0	4
101	N192	max	3.059	51	3757.13	30	16.376	49	0	55	0	55	0	55
102		min	-3.653	49	0	17	-17.71	51	0	4	0	4	0	4
103	N193	max	5.692	51	4382.288	49	19.679	49	0	55	0	55	0	55
104		min	-7.36	49	0	17	-17.858	51	0	4	0	4	0	4
105	N194	max	2.071	51	4010.306	30	17.71	49	0	55	0	55	0	55
106		min	-2.935	49	0	17	-18.848	51	0	4	0	4	0	4
107	N201	max	6.857	51	4993.594	30	21.544	49	0	55	0	55	0	55
108		min	-7.529	49	0	17	-23.653	51	0	4	0	4	0	4
109	N202	max	0.848	48	4535.158	30	19.876	49	0	55	0	55	0	55
110		min	-2.188	50	0	17	-20.626	51	0	4	0	4	0	4

Envelope Node Reactions (Continued)

Node Label			X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
111	N203	max	0.454	48	5995.012	49	28.384	49	0	55	0	55	0	55
112		min	-2.134	46	283.931	39	-12.072	51	0	4	0	4	0	4
113	N204	max	4.898	51	5027.53	49	23.892	49	0	55	0	55	0	55
114		min	-6.189	49	0	17	-25.488	51	0	4	0	4	0	4
115	N205	max	13.528	51	8012.861	51	18.003	49	0	55	0	55	0	55
116		min	-7.388	49	203.31	36	-40.631	51	0	4	0	4	0	4
117	N206	max	3.244	51	5201.325	51	23.824	49	0	55	0	55	0	55
118		min	-4.563	49	0	17	-26.459	51	0	4	0	4	0	4
119	N213	max	9.111	51	5136.784	30	25.216	49	0	55	0	55	0	55
120		min	-9.935	49	0	17	-26.875	51	0	4	0	4	0	4
121	N214	max	1.192	51	4520.289	30	21.915	49	0	55	0	55	0	55
122		min	-2.502	50	0	17	-23.594	51	0	4	0	4	0	4
123	N215	max	0.603	48	2720.054	51	11.947	49	0	55	0	55	0	55
124		min	-1.054	46	0	17	-15.114	51	0	4	0	4	0	4
125	N216	max	4.844	51	3889.524	30	18.864	49	0	55	0	55	0	55
126		min	-5.237	49	0	17	-20.156	51	0	4	0	4	0	4
127	N217	max	9.659	51	4141.797	51	19.008	49	0	55	0	55	0	55
128		min	-8.766	49	0	17	-23.006	51	0	4	0	4	0	4
129	N218	max	3.513	51	4202.066	30	20.491	49	0	55	0	55	0	55
130		min	-4.179	49	0	17	-21.857	51	0	4	0	4	0	4
131	N225	max	12.269	51	5033.034	30	28.313	49	0	55	0	55	0	55
132		min	-12.741	49	0	17	-30.172	51	0	4	0	4	0	4
133	N226	max	1.947	51	4556.892	30	25.436	49	0	55	0	55	0	55
134		min	-3.059	50	0	17	-27.17	51	0	4	0	4	0	4
135	N227	max	0.789	48	2401.205	30	13.375	49	0	55	0	55	0	55
136		min	-1.387	46	0	17	-14.348	51	0	4	0	4	0	4
137	N228	max	6.901	51	4014.886	30	22.384	49	0	55	0	55	0	55
138		min	-7.15	49	0	17	-23.889	51	0	4	0	4	0	4
139	N229	max	11.809	51	3965.225	8	22.097	49	0	55	0	55	0	55
140		min	-11.729	49	0	17	-23.527	51	0	4	0	4	0	4
141	N230	max	4.889	51	4115.27	30	22.994	49	0	55	0	55	0	55
142		min	-5.33	49	0	17	-24.543	51	0	4	0	4	0	4
143	N237	max	19.737	51	5174.571	30	37.046	49	0	55	0	55	0	55
144		min	-19.6	49	0	17	-39.267	51	0	4	0	4	0	4
145	N238	max	3.487	51	4498.57	30	31.82	49	0	55	0	55	0	55
146		min	-4.098	46	0	17	-34.051	51	0	4	0	4	0	4
147	N239	max	1.228	48	2428.382	30	17.305	49	0	55	0	55	0	55
148		min	-2.067	46	0	17	-18.33	51	0	4	0	4	0	4
149	N240	max	10.422	51	3832.638	30	27.068	49	0	55	0	55	0	55
150		min	-10.153	49	0	17	-28.891	51	0	4	0	4	0	4
151	N241	max	18.122	51	3908.875	8	27.639	49	0	55	0	55	0	55
152		min	-17.359	49	0	17	-29.505	51	0	4	0	4	0	4
153	N242	max	8.097	51	4244.596	30	30.155	49	0	55	0	55	0	55
154		min	-8.222	49	0	17	-32.091	51	0	4	0	4	0	4
155	N249	max	40.026	51	4475.487	51	52.054	49	0	55	0	55	0	55
156		min	-33.688	49	0	37	-61.698	51	0	4	0	4	0	4
157	N250	max	8.375	51	4940.91	48	60.341	49	0	55	0	55	0	55
158		min	-9.162	49	0	46	-55.999	51	0	4	0	4	0	4
159	N251	max	10.611	54	3132.364	49	2261.509	47	0	55	0	55	0	55
160		min	-2.56	47	-1256.362	37	-1.267	54	0	4	0	4	0	4
161	N252	max	24.011	51	4033.09	48	47.311	49	0	55	0	55	0	55
162		min	-21.899	49	0	37	-51.472	51	0	4	0	4	0	4
163	N253	max	43.299	51	4020.203	51	2.524	37	0	55	0	55	0	55
164		min	-27.523	49	-1997.212	37	-2166.248	45	0	4	0	4	0	4
165	N254	max	17.128	51	4210.977	48	51.553	49	0	55	0	55	0	55

Envelope Node Reactions (Continued)

Node Label		X [lb]		LC	Y [lb]		LC	Z [lb]		LC	MX [lb-ft]	LC	MY [lb-ft]		LC	MZ [lb-ft]	LC	
166		min	-17.166	49	0		37	-51.179		51	0	4	0		4	0		4
167	N261	max	13.642	51	4359.246		30	61.389		49	0	55	0		55	0		55
168		min	-12.75	49	0		37	-64.92		51	0	4	0		4	0		4
169	N262	max	36.766	51	3911.789		30	54.628		49	0	55	0		55	0		55
170		min	-34.11	49	0		37	-58.667		51	0	4	0		4	0		4
171	N263	max	3.211	48	2438.992		49	1681.413		47	0	55	0		55	0		55
172		min	-3.389	50	-69.541		55	-0.111		54	0	4	0		4	0		4
173	N264	max	56.6	51	4355.788		30	60.958		49	0	55	0		55	0		55
174		min	-52.833	49	0		37	-65.024		51	0	4	0		4	0		4
175	N265	max	39.079	51	2437.242		51	-0.026		11	0	55	0		55	0		55
176		min	-32.529	49	-37.264		53	-1612.164		45	0	4	0		4	0		4
177	N266	max	26.343	51	3914.885		30	55.363		49	0	55	0		55	0		55
178		min	-24.948	49	0		37	-58.155		51	0	4	0		4	0		4
179	N273	max	20.982	51	4249.577		50	60.407		49	0	55	0		55	0		55
180		min	-19.403	49	265.385		54	-64.72		51	0	4	0		4	0		4
181	N274	max	54.931	51	3807.762		49	54.39		49	0	55	0		55	0		55
182		min	-51.343	49	281.538		54	-57.888		51	0	4	0		4	0		4
183	N275	max	3.917	48	2292.64		49	1108.012		47	0	55	0		55	0		55
184		min	-25.836	54	41.66		37	0.001		4	0	4	0		4	0		4
185	N276	max	84.466	51	4243.32		49	60.692		49	0	55	0		55	0		55
186		min	-79.247	49	307.734		37	-64.259		51	0	4	0		4	0		4
187	N277	max	54.874	51	2294.268		51	-0.022		11	0	55	0		55	0		55
188		min	-50.141	49	68.175		37	-1061.606		45	0	4	0		4	0		4
189	N278	max	39.829	51	3805.396		49	54.306		49	0	55	0		55	0		55
190		min	-37.165	49	282.943		55	-57.893		51	0	4	0		4	0		4
191	N285	max	43.062	51	4352.823		50	60.514		49	0	55	0		55	0		55
192		min	-87.838	46	308.995		37	-64.857		51	0	4	0		4	0		4
193	N286	max	108.901	51	3792.189		50	53.239		49	0	55	0		55	0		55
194		min	-101.646	49	281.251		52	-56.614		51	0	4	0		4	0		4
195	N287	max	121.313	54	2220.444		49	543.566		47	0	55	0		55	0		55
196		min	-6.957	50	-1691.058		54	-4.561		54	0	4	0		4	0		4
197	N288	max	171.398	51	4316.475		49	60.943		49	0	55	0		55	0		55
198		min	-160.75	49	260.156		54	-64.474		51	0	4	0		4	0		4
199	N289	max	105.459	51	2211.488		51	-0.021		11	0	55	0		55	0		55
200		min	-98.395	49	153.281		53	-519.257		45	0	4	0		4	0		4
201	N290	max	79.255	51	3778.001		49	53.209		49	0	55	0		55	0		55
202		min	-73.758	49	0		46	-56.735		51	0	4	0		4	0		4
203	N297	max	49.535	54	0		49	909.551		55	0	55	0		55	0		55
204		min	-354.622	38	-2611.514		55	0		49	0	17	0		17	0		17
205	N298	max	880.774	54	0		49	1452.658		47	0	55	0		55	0		55
206		min	-269.824	52	-3317.669		38	0		49	0	4	0		17	0		17
207	N299	max	1613.216	54	0		49	5491.01		47	0	55	0		55	0		55
208		min	-1013.141	37	-5338.24		47	0		49	0	17	0		17	0		17
209	N222	max	94.301	53	0		48	0		48	0	55	0		55	0		39
210		min	-350.466	38	-2342.278		53	-858.203		53	0	16	0		16	0		18
211	N223	max	959.677	54	0		29	0		29	0	55	0		55	0		54
212		min	-736.782	47	-3469.401		45	-1406.753		45	0	4	0		16	0		16
213	N224	max	1783.377	54	0		48	0		48	0	55	0		54	0		54
214		min	-997.135	37	-5977.565		45	-5330.632		45	0	16	0		16	0		16
215	N1066	max	0	50	0		46	0		53	LOCKED		LOCKED			LOCKED		
216		min	0	44	0		49	-3.819		16	LOCKED		LOCKED			LOCKED		
217	N1067	max	0	50	0		55	0		55	LOCKED		LOCKED			LOCKED		
218		min	0	44	0		4	-50.161		16	LOCKED		LOCKED			LOCKED		
219	N1068	max	0	50	0		55	0		55	LOCKED		LOCKED			LOCKED		
220		min	0	44	0		4	-110.842		16	LOCKED		LOCKED			LOCKED		

Envelope Node Reactions (Continued)

Node Label	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
221 N1069	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
222	min	0	44	0	4	-114.146	16	LOCKED	LOCKED	LOCKED	LOCKED	
223 N1070	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
224	min	0	44	0	4	-90.748	16	LOCKED	LOCKED	LOCKED	LOCKED	
225 N1072	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
226	min	0	44	0	4	-102.171	16	LOCKED	LOCKED	LOCKED	LOCKED	
227 N1073	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
228	min	0	44	0	4	-79.173	16	LOCKED	LOCKED	LOCKED	LOCKED	
229 N1074	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
230	min	0	44	0	4	-67.74	16	LOCKED	LOCKED	LOCKED	LOCKED	
231 N1075	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
232	min	0	44	0	4	-56.172	16	LOCKED	LOCKED	LOCKED	LOCKED	
233 N1076	max	0	50	0	55	0	55	LOCKED	LOCKED	LOCKED	LOCKED	
234	min	0	44	0	4	-44.374	16	LOCKED	LOCKED	LOCKED	LOCKED	
235 N1077	max	0	50	0	27	0	46	LOCKED	LOCKED	LOCKED	LOCKED	
236	min	0	44	0	46	-33.105	16	LOCKED	LOCKED	LOCKED	LOCKED	
237 N1078	max	0	50	0	46	0	49	LOCKED	LOCKED	LOCKED	LOCKED	
238	min	0	44	0	49	-21.487	16	LOCKED	LOCKED	LOCKED	LOCKED	
239 N1079	max	0	50	0	48	0	50	LOCKED	LOCKED	LOCKED	LOCKED	
240	min	0	44	0	46	-11.217	16	LOCKED	LOCKED	LOCKED	LOCKED	
241 N1080	max	10215.049	50	572.855	54	0	53	LOCKED	LOCKED	LOCKED	LOCKED	
242	min	-12207.065	44	-0.009	51	0	44	LOCKED	LOCKED	LOCKED	LOCKED	
243 N1081	max	0	50	0	44	0	26	LOCKED	LOCKED	LOCKED	LOCKED	
244	min	0	44	0	46	0	36	LOCKED	LOCKED	LOCKED	LOCKED	
245 N1082	max	0.191	54	0	50	738.47	47	LOCKED	0	55	0	39
246	min	-1.634	47	-1913.219	47	-704.61	45	LOCKED	0	16	0	18
247 N1083	max	0.275	46	0	12	1227.382	47	LOCKED	0	55	0	39
248	min	-2.639	47	-2307.055	47	-1198.227	45	LOCKED	0	16	0	18
249 N1084	max	0.854	54	0	12	2313.66	47	LOCKED	0	38	0	55
250	min	-4.816	47	-2694.859	47	-2252.707	45	LOCKED	0	17	0	16
251 Totals:	max	13333.433	46	338948.307	30	13333.433	47					
252	min	-13333.433	52	-7024.952	37	-13333.433	45					

Envelope Maximum Member Section Forces

Member	Axial[lb]	Loc[ft]	LC y	Shear[lb]	Loc[ft]	LC z	Shear[lb]	Loc[ft]	LC Torque[lb-ft]	Loc[ft]	LC y-y Moment[lb-ft]	Loc[ft]	LC z-z Moment[lb-ft]	Loc[ft]	LC
1 M137	max	0	38.885	53	0	38.885	55	0	38.885	55	0	38.885	55	0	38.885
2	min	-445.656	0	38	0	0	4	0	0	4	-0.008	0	38	0	4
3 M138	max	0	35.977	54	0	35.977	55	0	35.977	55	0.013	35.977	38	0	35.977
4	min	-1236.505	0	38	0	0	4	0	0	4	0	0	4	0	4
5 M139	max	0	32.635	53	0	32.635	55	0	32.635	55	0.062	32.635	38	0	32.635
6	min	-1391.071	0	38	0	0	4	0	0	4	-0.001	0	51	0	4
7 M140	max	0	26.078	54	0	26.078	55	0	26.078	55	0	26.078	51	0	26.078
8	min	-1204.158	0	38	0	0	4	0	0	4	-0.05	0	38	0	4
9 M141	max	0	22.897	53	0	22.897	55	0	22.897	55	0.001	22.897	51	0	22.897
10	min	-1336.28	0	54	0	0	4	0	0	4	0	0	17	0	4
11 M142	max	0	16.92	54	0	16.92	55	0	16.92	55	0	16.92	54	0	16.92
12	min	-2485.037	0	37	0	0	4	0	0	4	0	0	51	0	4
13 M143	max	0	38.885	55	0	38.885	55	0	38.885	55	0.008	38.885	38	0	38.885
14	min	-452.728	0	53	0	0	4	0	0	4	0	0	4	0	4
15 M145	max	0	32.635	55	0	32.635	55	0	32.635	55	0	32.635	37	0	32.635
16	min	-1389.552	0	38	0	0	4	0	0	4	-0.061	0	38	0	4
17 M146	max	0	35.977	54	0	35.977	55	0	35.977	55	0	35.977	55	0	35.977
18	min	-1230.549	0	38	0	0	4	0	0	4	-0.013	0	38	0	4
19 M147	max	0	26.078	54	0	26.078	55	0	26.078	55	0.049	26.078	38	0	26.078
20	min	-1211.341	0	38	0	0	4	0	0	4	0	0	37	0	4

Envelope Maximum Member Section Forces (Continued)

Member	Axial[lb]	Loc[ft]	LC y	Shear[lb]	Loc[ft]	LC z	Shear[lb]	Loc[ft]	LC Torque[lb-ft]	Loc[ft]	LC y-y Moment[lb-ft]	Loc[ft]	LC z-z Moment[lb-ft]	Loc[ft]	LC
21	M148	max	0	22.897	55	0	22.897	55	0	22.897	55	0	22.897	55	22.897
22		min	-1523.552	0	54	0	0	4	0	0	4	0	0	4	0
23	M149	max	0	16.92	54	0	16.92	55	0	16.92	55	0	16.92	55	16.92
24		min	-2452.746	0	37	0	0	4	0	0	4	0	0	4	0
25	M151	max	0	22.345	55	0	22.345	55	0	22.345	55	0	22.345	55	22.345
26		min	-3458.864	0	45	0	0	4	0	0	4	0	0	4	0
27	M152	max	0	31.089	54	0	31.089	55	0	31.089	55	0	31.089	55	31.089
28		min	-2613.212	0	47	0	0	4	0	0	4	0	0	4	0
29	M153	max	0	31.089	55	0	31.089	55	0	31.089	55	0	31.089	55	31.089
30		min	-2551.96	0	45	0	0	4	0	0	4	0	0	4	0
31	M154	max	0	40.673	54	0	40.673	55	0	40.673	55	0	40.673	55	40.673
32		min	-2050.776	0	47	0	0	4	0	0	38	0	0	4	0
33	M155	max	0	40.673	55	0	40.673	55	0	40.673	55	0	40.673	55	40.673
34		min	-1957.587	0	45	0	0	4	0	0	38	0	0	4	0
35	M156	max	0	22.345	54	0	22.345	55	0	22.345	55	0	22.345	55	22.345
36		min	-3551.782	0	47	0	0	4	0	0	4	0	0	4	0
37	M172	max	0	29.155	54	0	29.155	55	0	29.155	55	0	29.155	55	29.155
38		min	-2265.951	0	47	0	0	4	0	0	4	0	0	4	0
39	M173	max	0	29.155	55	0	29.155	55	0	29.155	55	0	29.155	55	29.155
40		min	-2173.662	0	45	0	0	4	0	0	4	0	0	4	0
41	M174	max	0	8	55	0	8	55	50.161	8	36	0	8	55	8
42		min	0	0	4	0	0	4	-50.161	0	16	0	0	4	-100.323
43	M175	max	0	10	55	0	10	55	58.931	10	36	0	10	55	10
44		min	0	0	4	0	0	4	-60.681	0	16	0	0	4	-149.34
45	M176	max	0	10	55	0	10	55	52.954	10	36	0	10	55	10
46		min	0	0	4	0	0	4	-55.215	0	16	0	0	4	-134.95
47	M177	max	0	10	55	0	10	55	47.325	10	36	0	10	55	10
48		min	0	0	4	0	0	4	-49.217	0	16	0	0	4	-120.639
49	M178	max	0	10	55	0	10	55	41.587	10	36	0	10	55	10
50		min	0	0	4	0	0	4	-43.423	0	16	0	0	4	-106.107
51	M179	max	0	10	55	0	10	55	35.653	10	36	0	10	55	10
52		min	0	0	4	0	0	4	-37.587	0	16	0	0	4	-91.77
53	M180	max	0	10	55	0	10	55	30.086	10	36	0	10	55	10
54		min	0	0	4	0	0	4	-32.087	0	16	0	0	4	-77.768
55	M181	max	0	10	55	0	10	55	24.117	10	36	0	10	55	10
56		min	0	0	4	0	0	4	-26.085	0	16	0	0	4	-63.094
57	M182	max	0	10	55	0	10	55	18.488	10	36	0	10	55	10
58		min	0	0	4	0	0	4	-20.257	0	16	0	0	4	-48.092
59	M183	max	0	10	55	0	10	55	12.663	10	36	0	10	55	10
60		min	0	0	4	0	0	4	-14.617	0	16	0	0	4	-34.111
61	M184	max	0	10	55	0	10	55	6.813	10	36	0	10	55	10
62		min	0	0	4	0	0	4	-8.823	0	16	0	0	4	-19.6
63	M185	max	0	10	55	0	10	55	3.819	10	36	0	10	55	10
64		min	0	0	4	0	0	4	-4.404	0	16	0	0	4	-10.282
65	M186	max	0	10	55	0	10	55	0	10	55	0	10	55	10
66		min	0	0	4	0	0	4	0	0	4	0	0	4	0
67	M187	max	0	10	55	0	10	55	0	10	55	0	10	55	10
68		min	0	0	4	0	0	4	0	0	4	0	0	4	0
69	M188	max	10215.049	10	50	0	10	55	0	10	55	0	10	55	10
70		min	-12207.065	0	44	0	0	4	0	0	4	0	0	4	0
71	M195	max	0	41.429	55	0	41.429	55	0	41.429	55	0	41.429	55	41.429
72		min	-2074.589	0	53	0	0	4	0	0	38	0	0	4	0
73	M196	max	0	41.429	54	0	41.429	55	0	41.429	38	0	41.429	55	41.429
74		min	-2168.256	0	55	0	0	4	0	0	17	0	0	4	0
75	M198	max	0	40.747	54	0	40.747	55	0.007	40.747	38	0	40.747	55	40.747

Envelope Maximum Member Section Forces (Continued)

Member		Axial[lb]	Loc[ft]	LC y	Shear[lb]	Loc[ft]	LC z	Shear[lb]	Loc[ft]	LC Torque[lb-ft]	Loc[ft]	LC y-y Moment[lb-ft]	Loc[ft]	LC z-z Moment[lb-ft]	Loc[ft]	LC	
76		min	-426.683	0	47	0	0	4	0	4	0	0	17	0	0	4	
77	M199	max	0	40.747	54	0	40.747	55	0	40.747	55	0	40.747	54	0	40.747	55
78		min	-178.326	0	52	0	0	4	0	0	4	-0.007	0	38	0	0	4
79	M201	max	0	32.071	54	0	32.071	55	0	32.071	55	0	32.071	38	0	32.071	55
80		min	-2669.135	0	47	0	0	4	0	0	4	0	0	51	0	0	4
81	M202	max	0	32.071	55	0	32.071	55	0	32.071	55	0	32.071	55	0	32.071	55
82		min	-2561.523	0	45	0	0	4	0	0	4	0	0	38	0	0	4
83	M203	max	0	53.778	55	0	53.778	55	0	53.778	55	0.031	53.778	38	0	53.778	55
84		min	-1043.465	0	54	0	0	4	0	0	4	0	0	4	0	0	4
85	M204	max	0	34.54	54	0	34.54	55	0	34.54	55	0	34.54	37	0	34.54	55
86		min	-765.108	0	47	0	0	4	0	0	4	-0.018	0	38	0	0	4
87	M205	max	0	34.54	54	0	34.54	55	0	34.54	55	0.018	34.54	38	0	34.54	55
88		min	-237.442	0	52	0	0	4	0	0	4	0	0	37	0	0	4
89	M206	max	0	53.778	53	0	53.778	55	0	53.778	55	0.001	53.778	51	0	53.778	55
90		min	-975.926	0	54	0	0	4	0	0	4	-0.031	0	38	0	0	4
91	M207	max	0	23.691	54	0	23.691	55	0	23.691	55	0	23.691	55	0	23.691	55
92		min	-3536.93	0	47	0	0	4	0	0	4	0	0	4	0	0	4
93	M209	max	0	23.691	55	0	23.691	55	0	23.691	55	0	23.691	55	0	23.691	55
94		min	-3393.303	0	45	0	0	4	0	0	4	0	0	16	0	0	4
95	M210	max	0	40.747	53	0	40.747	55	0	40.747	55	0	40.747	54	0	40.747	55
96		min	-1393.868	0	54	0	0	4	0	0	4	-0.001	0	51	0	0	4
97	M211	max	0	40.747	55	0	40.747	55	0	40.747	55	0	40.747	55	0	40.747	55
98		min	-1511.399	0	54	0	0	4	0	0	4	0	0	4	0	0	4
99	M212	max	0	35.356	54	0	35.356	55	0	35.356	55	0	35.356	55	0	35.356	55
100		min	-3271.63	0	47	0	0	4	0	0	4	0	0	4	0	0	4
101	M213	max	0	35.356	55	0	35.356	55	0	35.356	55	0	35.356	55	0	35.356	55
102		min	-3158.539	0	45	0	0	4	0	0	4	0	0	4	0	0	4

Warning Log

Message

1 There are members defined as member type: "Beam" that are vertical (or nearly vertical). For proper deflection optimization, change member type to "Column".