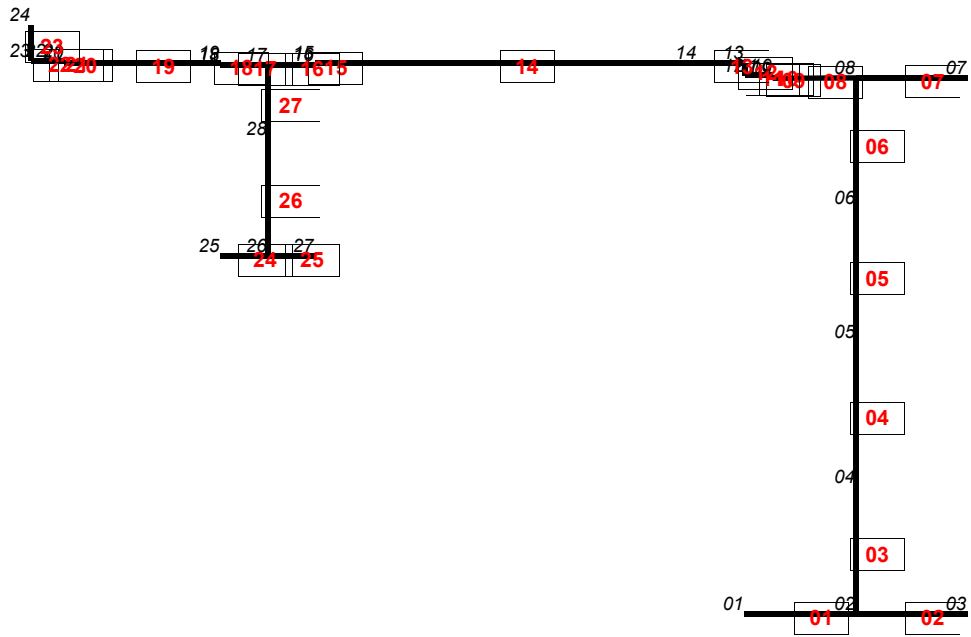
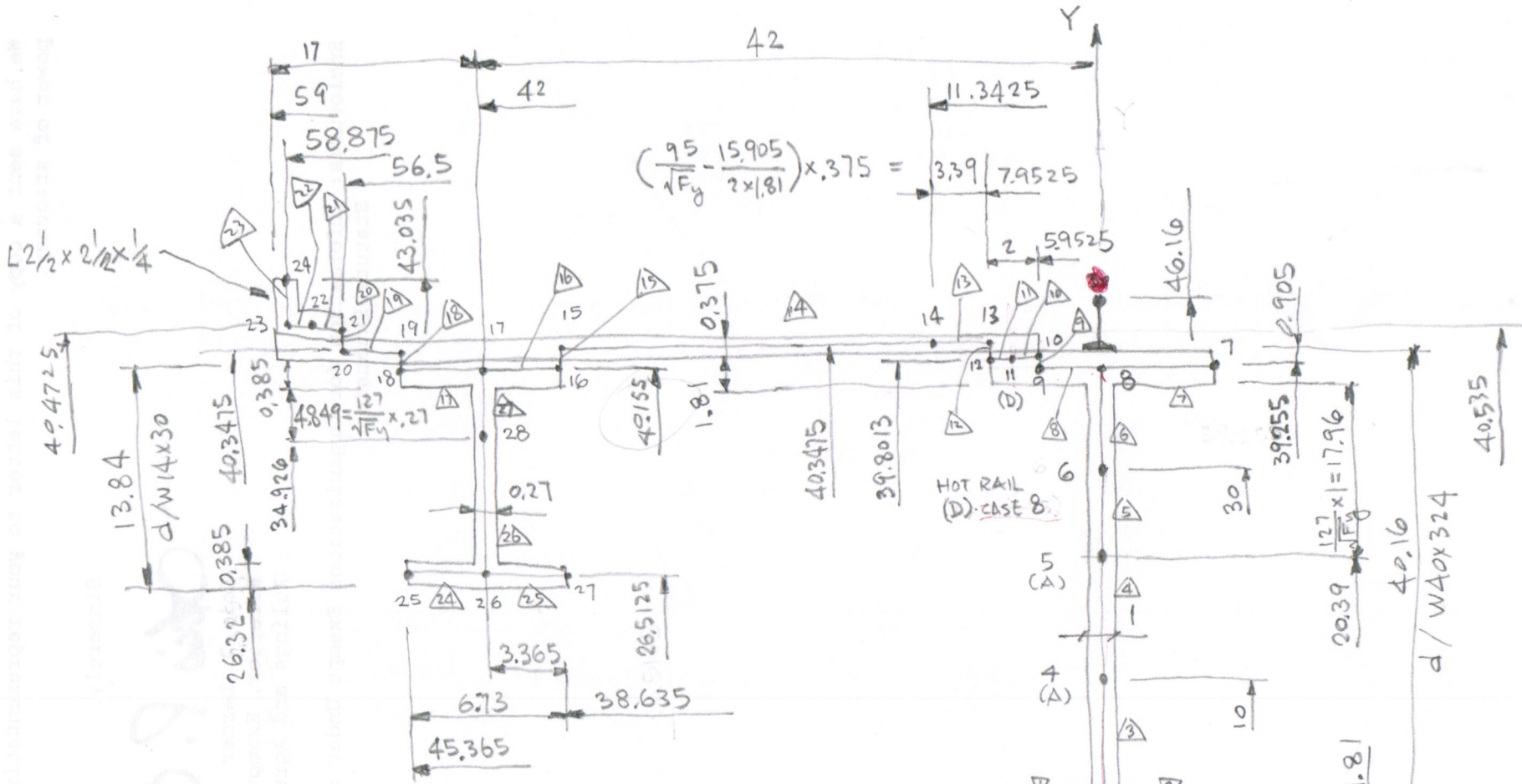
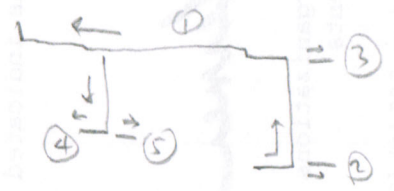


# Full depth





HOT RAIL (D) - CASE 8



$F_y = 50$

$$L = 29' - 6'' = 354''$$

use 30' = 360"

6-18-10

SIMPLIFIED

P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:10 CRANE GIRDER ANALYSIS (rGdr\_Full\_Min)

## GEOMETRY / LOADING PARAMETERS

Project ID SDC10047 Preparer John Fong Prepare Date 11/02/2010

Run ID W40x324 w/ Reviewer Bill Vanni Review Date 11/02/2010

Problem Description: **W40X324+3/8" Thrust plate+W14X30**

General Comment:

### Member Profile ID

Profile ID	Description
1	Full depth

Structural Design Corp. USA John Fong © June, 2010

### Girder Features

Girder type	<u>0</u>
Girder feature	<u>Unsymmetrical</u>
Multi-zoned	<u>Yes</u>

### Profile Zone Definition

Profile Zone #	Profile ID	Zone Span	Zone Start	Zone End
1	1	30	0	30
2	1	294	30	324
3	1	30	324	354

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### Basic Nodal Data

Profile ID	Node ID	Coordinates		Stress		Allowed Reversal Stress Range	Note
		X	Y	Point of Interest	Fatg Catg		
1	01	-7.9525	0.905	<input checked="" type="checkbox"/>	A	62.00	
	02	0.	0.905	<input checked="" type="checkbox"/>	A	62.00	
	03	7.9525	0.905	<input checked="" type="checkbox"/>	A	62.00	
	04	0.	10.	<input checked="" type="checkbox"/>	A	62.00	
	05	0.	20.39	<input checked="" type="checkbox"/>	A	62.00	
	06	0.	30.	<input checked="" type="checkbox"/>	D	27.00	
	07	7.9525	39.255	<input checked="" type="checkbox"/>	A	62.00	
	08	0.	39.255	<input checked="" type="checkbox"/>	A	62.00	
	09	-5.9525	39.225	<input checked="" type="checkbox"/>	A	62.00	
	10	-5.9525	39.4425	<input type="checkbox"/>	A	62.00	
	11	-6.9525	39.4425	<input checked="" type="checkbox"/>	D	27.00	
	12	-7.9525	39.4425	<input type="checkbox"/>	A	62.00	
	13	-7.9525	40.3475	<input checked="" type="checkbox"/>	A	62.00	
	14	-11.3425	40.3475	<input checked="" type="checkbox"/>	A	62.00	
	15	-38.635	40.3475	<input checked="" type="checkbox"/>	D	27.00	
	16	-38.635	40.155	<input checked="" type="checkbox"/>	D	27.00	
	17	-42.	40.155	<input checked="" type="checkbox"/>	A	62.00	
	18	-45.365	40.155	<input checked="" type="checkbox"/>	D	27.00	
	19	-45.365	40.3475	<input checked="" type="checkbox"/>	D	27.00	
	20	-56.5	40.3475	<input checked="" type="checkbox"/>	A	62.00	
	21	-56.5	40.4725	<input checked="" type="checkbox"/>	A	62.00	
	22	-57.75	40.4725	<input checked="" type="checkbox"/>	D	27.00	
	23	-58.875	40.4725	<input checked="" type="checkbox"/>	A	62.00	

### Member Attributes

Girder length	<u>354</u>
Equivalent Dead Load	<u>0.039246</u>
Integration unit length	<u>6</u>
# of integration stations	<u>60</u>
Torsion boundary condition - Left	<u>Simply supported</u>
Right	<u>Simply supported</u>
Torsion boundary condition - Left	<u>Simply supported</u>
Right	<u>Simply supported</u>
Effective length factor	<u>1</u>
Unbraced length against lateral sway	<u>354</u>
Unbraced length against rotation	<u>354</u>
Derived equivalent AISC parameter [ho]	<u>38.35</u>
[bfc]	<u>15.9051</u>
[tfc]	<u>1.8572</u>
[d]	<u>40.1836</u>
[hc]	<u>31.7535</u>
[hp]	<u>37.6615</u>
[tw]	<u>1.</u>
[rt]	<u>12.0153</u>
[Sxc]	<u>1919.1303</u>
[Sxt]	<u>1515.9979</u>

24	-58.875	43.035	<input checked="" type="checkbox"/>	A	62.00
25	-45.365	26.5125	<input checked="" type="checkbox"/>	A	62.00
26	-42.	26.5125	<input checked="" type="checkbox"/>	A	62.00
27	-38.635	26.5125	<input checked="" type="checkbox"/>	A	62.00
28	-42.	34.926	<input checked="" type="checkbox"/>	A	62.00

rGdr03\_NodeID Structural Design Corp. USA John Fong © Oct, 2010 - 12/2/2010 8:24:15 AM

**Steel Material Properties**

Young's modulus	<b>29000</b>
Shear modulus	<b>11154</b>
Steel yield stress	<b>50</b>

**Rail Information**

Designated rail node ID	<b>08</b>
Rail base X coordinate	<b>0.</b>
Rail base Y coordinate	<b>39.255</b>
Rail weight (#/yd)	<b>175</b>
Rail depth	<b>6</b>
Rail moment of inertia	<b>70.5</b>
Wear plate thickness	<b>0</b>
Rail top X coordinate	<b>0.</b>
Rail top Y coordinate	<b>45.255</b>
Design rail float offset	<b>0</b>

**Basic Segment Data**

Profile ID	Segment ID	From Node i	To Node j	Thickness [t]	Bending Effective		Component Identification	
					[x]	[y]	Code	Description
1	01	01	02	1.81	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12	Bottom flange - 1
	02	02	03	1.81	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12	Bottom flange - 1
	03	02	04	1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15	Web - 1
	04	04	05	1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15	Web - 1
	05	05	06	1.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	15	Web - 1
	06	06	08	1.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	15	Web - 1
	07	07	08	1.81	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	Top flange - 1
	08	08	09	1.81	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	Top flange - 1
	09	09	10	0.001	<input type="checkbox"/>	<input type="checkbox"/>	00	Trivia segment
	10	10	11	2.185	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	Top flange - 1
	11	11	12	2.185	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	Top flange - 1
	12	12	13	0.001	<input type="checkbox"/>	<input type="checkbox"/>	00	Trivia segment
	13	13	14	0.375	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	14	14	15	0.375	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	15	15	16	0.001	<input type="checkbox"/>	<input type="checkbox"/>	00	Trivia segment
	16	16	17	0.76	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	17	17	18	0.76	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	18	18	19	0.001	<input type="checkbox"/>	<input type="checkbox"/>	00	Trivia segment
	19	19	20	0.375	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	20	20	21	0.001	<input type="checkbox"/>	<input type="checkbox"/>	00	Trivia segment
	21	21	22	0.625	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	22	22	23	0.625	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	Top thrust plate - 1
	23	23	24	0.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	19	Top kick PL/L - 1
	24	25	26	0.385	<input type="checkbox"/>	<input type="checkbox"/>	14	Misc attachment - 1
	25	26	27	0.385	<input type="checkbox"/>	<input type="checkbox"/>	14	Misc attachment - 1
	26	26	28	0.27	<input type="checkbox"/>	<input type="checkbox"/>	14	Misc attachment - 1
	27	28	17	0.26	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14	Misc attachment - 1

rGdr04\_SegID Structural Design Corp. USA John Fong © Oct, 2010 - 12/2/2010 8:24:15 AM

**Location of Centroid / Plastic Center**

Area sum [SA]=sum([A])	[SAX]= Sum([AX])	[SAY]= Sum([AY])	Centroid (c.g.) [cx]=[SAX]/[SA] [cy]=[SAY]/[SA]		Plastic Center w.r.t. c.g. along principal axis [cpx] [cpy]		Plastic Modulus [Zx] [Zy]	
125.8215	-1085.4402	3070.8035	-8.6268	24.406	1.203	-2.0254	1434.4152	1949.4503

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:15 Location of Centroid / Plastic Center (R2)

Principal Moment of Inertia							
User Axis Gross Moment of Inertia			[z]=sqr( ([lxx]-[lyy])^2/4 +[lxy]^2)	Principal Axis Moment of Inertia		Angle between user axis and principal axis	
lxx	lyy	lxy		[lxp]=([lxx]+[lyy]) /2+[z]	[lyp]=([lxx]+[lyy]) /2-[z]	Radians	Degrees
34033.6659	37097.1379	-14740.7596	14820.1285	50385.5304	20745.2734	-0.7336	-42.0338

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:18 Principal Moment of Inertia (R4)

**Node Coordinates Transformation per Principal Axes**

Node ID	Transformed Coordinates				Principal Axis Section Modulus	
	Translation only		Translation + rotation		[Sxx]=[lxp]/[lyp]	[Syy]=[lyp]/[lxp]
	[tx]=[X]-[cx]	[ty]=[Y]-[cy]	[xp]= [ty]*Sin([alpha])+ [tx]*Cos([alpha])	[yp]= [ty]*Cos([alpha])- [tx]*Sin([alpha])		
01	0.6743	-23.501	16.2364	-17.0039	-2963.18	1277.7
02	8.6268	-23.501	22.1431	-11.6791	-4314.15	936.87
03	16.5793	-23.501	28.0499	-6.3544	-7929.24	739.59
04	8.6268	-14.406	16.0534	-4.9238	-10233.	1292.27
05	8.6268	-4.016	9.0966	2.7933	18037.72	2280.55
06	8.6268	5.594	2.662	9.9312	5073.47	7793.02
07	16.5793	14.849	2.3719	22.1301	2276.79	8746.3
08	8.6268	14.849	-3.5348	16.8053	2998.19	-5868.82
09	2.6743	14.819	-7.936	12.7974	3937.16	-2614.09
10	2.6743	15.0365	-8.0816	12.959	3888.08	-2566.98
11	1.6743	15.0365	-8.8243	12.2894	4099.91	-2350.92
12	0.6743	15.0365	-9.5671	11.6198	4336.16	-2168.4
13	0.6743	15.9415	-10.173	12.292	4099.04	-2039.24
14	-2.7157	15.9415	-12.691	10.0222	5027.4	-1634.65
15	-30.0082	15.9415	-32.9625	-8.252	-6105.85	-629.36
16	-30.0082	15.749	-32.8336	-8.395	-6001.85	-631.83
17	-33.3732	15.749	-35.3329	-10.6481	-4731.88	-587.14
18	-36.7382	15.749	-37.8323	-12.9012	-3905.49	-548.35
19	-36.7382	15.9415	-37.9612	-12.7582	-3949.26	-546.49
20	-47.8732	15.9415	-46.2317	-20.2139	-2492.62	-448.72
21	-47.8732	16.0665	-46.3154	-20.121	-2504.12	-447.91
22	-49.1232	16.0665	-47.2438	-20.958	-2404.12	-439.11
23	-50.2482	16.0665	-48.0794	-21.7112	-2320.71	-431.48
24	-50.2482	18.629	-49.7952	-19.8079	-2543.7	-416.61
25	-36.7382	2.1065	-28.6977	-23.0342	-2187.43	-722.89
26	-33.3732	2.1065	-26.1983	-20.7811	-2424.59	-791.85
27	-30.0082	2.1065	-23.699	-18.528	-2719.43	-875.37
28	-33.3732	10.52	-31.8318	-14.5319	-3467.23	-651.72

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:18 Node Transformation per Principal Axes (R5)

Location of Shear Center							
Numerators		Shear center w.r.t. c.g.		Centroid (c.g.) Location		Shear center w.r.t. user origin	
[Nx]	[Ny]	[xref]= [Nx]/[Dm]	[yref]= [Ny]/[Dm]	[cx]	[cy]	[xo]= [xref]+[cx]	[yo]= [yref]+[cy]

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:20 Location of Shear Center (R1011b)

Segment Qx Qy Sx Sy												
Pro- file ID	Seg- ment ID	Node frm-to i - j	Static moment Qxi	Medium or Maximum [Qx] at/ near mid-span of segment	Static moment Qxj	Static moment Qyi	Medium or Maximum [Qy] at/ near mid-span of segment	Static moment Qyj	Section modulus Sxi	Section modulus Syi	Section modulus Sxj	Section modulus Syj
											(Value would not show for trivial [xp] or [yp])	
1	01	01-02	0.	112.8	206.43	0.	-127.48	-276.22	-2963.18	1277.70	-4314.15	936.87
1	02	02-03	-129.79	-55.31	0.	361.24	191.25	0.	-4314.15	936.87	-7929.24	739.59
1	03	02-04	336.22	381.65	411.72	-637.46	-731.23	-811.16	-4314.15	936.87	-10233.00	1292.27
1	04	04-05	411.72	427.28	422.79	-811.16	-885.52	-941.81	-10233.00	1292.27	18037.72	2280.55
1	05	05-06	422.79	400.79	361.65	-941.81	-977.79	-998.31	18037.72	2280.55	5073.47	7793.02
1	06	06-08	361.65	307.74	237.93	-998.31	-1003.46	-994.27	5073.47	7793.02	2998.19	-5868.82
1	07	07-08	0.	149.69	280.22	0.	6.44	-8.37	2276.79	8746.30	2998.19	-5868.82
1	08	08-09	-42.29	-127.43	-201.77	-985.9	-960.93	-924.11	2998.19	-5868.82	3937.16	-2614.09
1	09	09-10	-201.77	-201.77	-201.77	-924.11	-924.11	-924.11	3937.16	-2614.09	3888.08	-2566.98
1	10	10-11	-201.77	-215.74	-229.35	-924.11	-915.07	-905.64	3888.08	-2566.98	4099.91	-2350.92
1	11	11-12	-229.35	-242.6	-255.47	-905.64	-895.79	-885.54	4099.91	-2350.92	4336.16	-2168.40
1	12	12-13	-255.47	-255.48	-255.48	-885.54	-885.54	-885.54	4336.16	-2168.40	4099.04	-2039.24
1	13	13-14	-255.48	-262.94	-269.67	-885.54	-878.67	-871.	4099.04	-2039.24	5027.40	-1634.65
1	14	14-15	-269.67	-297.58	-278.73	-871.	-780.12	-637.38	5027.40	-1634.65	-6105.85	-629.36
1	15	15-16	-278.73	-278.73	-278.72	-637.38	-637.37	-637.37	-6105.85	-629.36	-6001.85	-631.83
1	16	16-17	-278.72	-267.27	-254.37	-637.37	-594.59	-550.21	-6001.85	-631.83	-4731.88	-587.14
1	17	17-18	-143.3	-128.97	-113.19	-370.76	-324.78	-277.2	-4731.88	-587.14	-3905.49	-548.35
1	18	18-19	-113.19	-113.19	-113.19	-277.2	-277.2	-277.19	-3905.49	-548.35	-3949.26	-546.49
1	19	19-20	-113.19	-82.66	-44.35	-277.19	-193.62	-101.41	-3949.26	-546.49	-2492.62	-448.72
1	20	20-21	-44.35	-44.35	-44.35	-101.41	-101.41	-101.41	-2492.62	-448.72	-2504.12	-447.91
1	21	21-22	-44.35	-36.4	-28.3	-101.41	-83.23	-64.86	-2504.12	-447.91	-2404.12	-439.11
1	22	22-23	-28.3	-20.87	-13.3	-64.86	-48.18	-31.35	-2404.12	-439.11	-2320.71	-431.48
1	23	23-24	-13.3	-6.5	0.	-31.35	-15.81	0.	-2320.71	-431.48	-2543.70	-416.61
1	24	25-26	0.	-14.56	-28.38	0.	-18.18	-35.56	-2187.43	-722.89	-2424.59	-791.85
1	25	26-27	-25.46	-12.37	0.	-32.32	-15.76	0.	-2424.59	-791.85	-2719.43	-875.37
1	26	26-28	-53.84	-75.67	-93.95	-67.88	-99.24	-133.79	-2424.59	-791.85	-3467.23	-651.72
1	27	28-17	-93.95	-103.17	-111.07	-133.79	-156.03	-179.45	-3467.23	-651.72	-4731.88	-587.14

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:20 Segment Qx Qy Sx Sy (rGdr05\_FlkrProp)

Segment / Profile Warping Constant [Cw]									
Segment ID	Node		Normalized Unit Warping		[Z] = [wni]^2+ [wni]*[wnj]+ [wnj]^2	Segment Area [A]	[Cwi]= [Z]*[A] / 3	[Wntds]= ([Wni]+[Wnj])*[A]	
	From i	To j	[wni]	[wnj]					
01	01	02	341.4916	16.5624	122546.726	14.394	587980.1839	2576.9188	
02	02	03	16.5624	-308.3667	90257.069	14.394	433054.1484	-2100.1194	

03	02	04	16.5624	11.6732	603.9135	9.095	1830.8645	128.4015
04	04	05	11.6732	6.0878	244.3904	10.39	846.4052	92.2687
05	05	06	6.0878	0.9218	43.5234	9.61	139.4199	33.6814
06	06	08	0.9218	-4.0534	13.5435	9.255	41.7816	-14.4916
07	07	08	-24.0042	-4.0534	689.931	14.394	3310.2945	-201.931
08	08	09	-4.0534	10.896	90.987	10.7742	326.7696	36.8616
09	09	10	10.896	12.0738	396.0541	0.0002	0.0287	0.0025
10	10	11	12.0738	14.395	526.7938	2.185	383.6815	28.9171
11	11	12	14.395	16.7163	727.28	2.185	529.7023	33.9891
12	12	13	16.7163	23.4268	1219.8544	0.0009	0.368	0.0182
13	13	14	23.4268	28.2278	2006.912	1.2712	850.4289	32.833
14	14	15	28.2278	66.8808	7157.7466	10.2347	24419.0993	486.7034
15	15	16	66.8808	59.547	12001.4269	0.0002	0.7701	0.0122
16	16	17	59.547	64.9604	11633.8836	2.5574	9917.5028	159.2076
17	17	18	64.9604	70.3738	13743.8332	2.5574	11716.1654	173.0519
18	18	19	70.3738	79.0031	16753.7278	0.0002	1.075	0.0144
19	19	20	79.0031	94.773	22710.7705	4.1756	31610.5489	362.8119
20	20	21	94.773	101.7683	28983.5694	0.0001	1.2076	0.0123
21	21	22	101.7683	103.3824	31565.7337	0.7813	8220.2432	80.137
22	22	23	103.3824	104.8351	32516.4047	0.7031	7621.0323	73.2014
23	23	24	104.8351	254.3247	102333.6233	0.6406	21852.4925	115.0434
24	25	26	-449.3704	-500.6908	677620.6516	1.2955	292624.9703	-615.4143
25	26	27	-500.6908	-552.0113	831794.7825	1.2955	359203.8155	-681.9013
26	26	28	-500.6908	-151.8467	349777.0084	2.2716	264856.3426	-741.1667
27	28	17	-151.8467	64.9604	17413.2611	1.3595	7891.3415	-59.0628

Profile Warping Constant [Cw] = Sum([Cwi]) = 2069230.68

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:23 Segment/Profile Warping Constant (R16/17)

**Equivalent Properties**

Section area [SA]	<b>125.8215</b>	User axis centroid coordinate [Cx]	<b>-8.6269</b>
Torsion constant [J]	<b>80.8001</b>	[Cy]	<b>24.406</b>
User axis [Ixx]	<b>34033.67</b>	User axis shear center coordinate [xo]	<b>-0.5376</b>
User axis [Iyy]	<b>37097.14</b>	[yo]	<b>41.7637</b>
User axis [Ixy]	<b>-14740.83</b>	Plastic center offset from centroid along principal axis [ex]	<b>1.203</b>
Principal axis [Ixx]	<b>50385.53</b>	[ey]	<b>-2.0254</b>
Principal axis [Iyy]	<b>20745.27</b>	Plastic modulus [Zx]	<b>1434.42</b>
Prin ax angle [Alpha]	<b>-0.73</b>	[Zy]	<b>1949.45</b>
Warping constant [Cw]	<b>2069231.</b>	Effective bending [Ixx]	<b>26676.19</b>
Beta = SQR(GJ/ECw)	<b>0.003875</b>	Effective bending [Iyy]	<b>26582.64</b>
Beta * L	<b>1.371886</b>		

**Warping Static Moment [Sw]**

Pro- file ID	Seg- ment ID	Node frm-to i - j	Warping Static Mom [Swi]	Medium or Maximum [Sw] at/ near mid-span of segment	Warping Static Mom [Swj]
1	01	01-02	0.	-1348.06	-2576.92
1	02	02-03	-2100.12	113.12	0.
1	03	02-04	-476.8	-567.54	-605.2
1	04	04-05	-605.2	-667.15	-697.47
1	05	05-06	-697.47	-716.52	-731.15
1	06	06-08	-731.15	-713.18	-716.66
1	07	07-08	0.	-86.38	-201.93
1	08	08-09	-514.73	-567.51	-551.59
1	09	09-10	-551.59	-551.59	-551.59

1	10	10-11	-551.59	-573.91	-580.51
1	11	11-12	-580.51	-606.64	-614.5
1	12	12-13	-614.5	-614.51	-614.52
1	13	13-14	-614.52	-639.9	-647.35
1	14	14-15	-647.35	-1061.83	-1134.05
1	15	15-16	-1134.05	-1134.06	-1134.07
1	16	16-17	-1134.07	-1255.2	-1293.27
1	17	17-18	804.27	672.75	631.22
1	18	18-19	631.22	631.21	631.21
1	19	19-20	631.21	350.87	268.39
1	20	20-21	268.39	268.38	268.38
1	21	21-22	268.38	208.12	188.24
1	22	22-23	188.24	133.22	115.04
1	23	23-24	115.04	16.79	0.
1	24	25-26	0.	-145.54	-615.41
1	25	26-27	-681.9	-162.16	0.
1	26	26-28	-1297.32	-1581.66	-2038.48
1	27	28-17	-2038.48	-2110.78	-2097.55

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**Crane Specification**

Crane #	Crane ID Descriptn	Note: Normalized axial load per wheel is based on One drive wheel only if calculated for reference.	Normalized Factor w.r.t. max wheel load			No. of Wheels	Lift Capacity	Bridge		Trolley	
			Vertical	Lateral	Axial			Weight	Span	Weight	Wheel Base
1	1-crane		1	0.115	0.05	4	220	148	876	78	146
Input derived wheel load by Input/factor			95.6	10.994	4.78	<< ----- Use for analysis					
Reference load calculated by capacity			86.7917	11	4.33958	Based on input bridge span = 876					

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**Crane Wheel Load**

Crane #	Wheel #	Distance to Last Wheel	Load (kip)
1	1	0	90.9
	2	60.03	95.6
	3	83.47	94.6
	4	60.03	85.1

**Fatigue Load Criteria**

Fatigue load condition	1
Min load cycles	20000
Max load cycles	99999

**Load Combination Cases**

Load Case	Crane #	Fatigue Condition	Load Factors			Note
			Vertical	Lateral	Axial	
1	1	<input checked="" type="checkbox"/>	1.25	0.5	1	1-Crane
2	1	<input type="checkbox"/>	1.25	1	1	1-Crane

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# NODAL STRESS / DEFLECTION

## Consolidated Fiber / Shear Stress Summary

Final Nodal Stress

<b>Fatigue Load Condition</b>													
Profile Zone	Node ID	Seg ID	Load Case	Fatigue Stress Reversal				Non-fatigue Stress				SRSS Allowable = <b>30.</b>	
				Fiber	Shear	Allowed F <sub>sr</sub>	OK	Fiber Stress		Shear Stress		SRSS Stress fr max fib & shear	OK
								Max	Min	Max	Min		
1	01	01	1	8.299	1.191	62	Yes	8.104	-0.195	0.596	-0.596	8.125	Yes
	02	01	1	7.438	1.523	62	Yes	7.243	-0.195	1.315	-0.207	7.361	Yes
		02	1	7.438	1.453	62	Yes	7.243	-0.195	1.075	-0.378	7.322	Yes
		03	1	7.129	0.	62	Yes	6.933	-0.195	2.078	0.	7.238	Yes
	03	02	1	8.211	1.191	62	Yes	8.016	-0.195	0.596	-0.596	8.038	Yes
	04	03	1	4.008	0.	62	Yes	3.813	-0.195	2.472	0.	4.544	Yes
		04	1	4.008	0.	62	Yes	3.813	-0.195	2.472	0.	4.544	Yes
	05	04	1	0.443	0.	62	Yes	0.248	-0.195	2.538	0.	2.55	Yes
		05	1	0.813	0.	62	Yes	0.443	-0.37	0.	-8.787	8.798	Yes
	06	05	1	3.835	0.	27	Yes	3.64	-0.195	0.	-9.731	10.389	Yes
		06	1	3.835	0.	27	Yes	3.64	-0.195	0.	-9.731	10.389	Yes
	07	07	1	0.	1.191	62	Yes	9.148	2.284	0.596	-0.596	9.167	Yes
	08	06	1	7.006	0.	62	Yes	6.81	-0.195	0.	-10.31	12.356	Yes
		07	1	0.	0.	62	Yes	8.972	2.284	1.338	0.	9.071	Yes
		08	1	0.	0.	62	Yes	8.972	2.284	0.	-6.594	11.135	Yes
	09	08	1	0.	0.	62	Yes	8.888	2.284	0.	-5.769	10.596	Yes
		09	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	10	09	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
		10	1	0.	0.	62	Yes	8.902	2.284	0.	-5.004	10.212	Yes
	11	10	1	0.	0.	27	Yes	8.892	2.284	0.	-4.847	10.128	Yes
		11	1	0.	0.	27	Yes	8.892	2.284	0.	-4.847	10.128	Yes
	12	11	1	0.	0.	62	Yes	8.883	2.284	0.	-4.685	10.043	Yes
		12	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	13	12	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
		13	1	7.364	0.	62	Yes	7.169	-0.195	0.	-23.235	24.316	Yes
	14	13	1	7.324	0.	62	Yes	7.129	-0.195	0.	-22.619	23.716	Yes
		14	1	0.174	0.	62	Yes	0.087	-0.087	0.	-26.257	26.257	Yes
	15	14	1	1.173	0.	27	Yes	0.587	-0.587	0.	-19.424	19.433	Yes
		15	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
	16	15	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
		16	1	1.134	0.	27	Yes	0.567	-0.567	0.	-9.773	9.79	Yes
	17	16	1	1.267	0.	62	Yes	0.634	-0.634	0.	-8.512	8.536	Yes
		17	1	1.267	0.	62	Yes	0.634	-0.634	0.	-5.809	5.843	Yes
		27	1	1.271	0.	62	Yes	0.636	-0.636	0.	-8.609	8.632	Yes
	18	17	1	1.4	0.	27	Yes	0.7	-0.7	0.	-4.41	4.465	Yes

	18	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes	
	19	18	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
		19	1	1.445	0.	27	Yes	0.723	-0.723	0.	-8.554	8.584	Yes
	20	19	1	1.873	0.	62	Yes	0.936	-0.936	0.	-3.218	3.351	Yes
		20	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	21	20	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
		21	1	1.91	0.	62	Yes	0.955	-0.955	0.	-2.062	2.273	Yes
	22	21	1	1.957	0.	27	Yes	0.979	-0.979	0.	-1.396	1.705	Yes
		22	1	1.957	0.	27	Yes	0.979	-0.979	0.	-1.396	1.705	Yes
	23	22	1	2.	0.	62	Yes	1.	-1.	0.	-0.785	1.271	Yes
		23	1	2.003	0.	62	Yes	1.002	-1.002	0.	-1.53	1.829	Yes
	24	23	1	2.796	0.165	62	Yes	1.398	-1.398	0.082	-0.082	1.4	Yes
	25	24	1	2.381	0.253	62	Yes	1.191	-1.191	0.127	-0.127	1.197	Yes
	26	24	1	2.653	0.574	62	Yes	1.327	-1.327	0.287	-0.287	1.357	Yes
		25	1	2.653	0.609	62	Yes	1.327	-1.327	0.304	-0.304	1.361	Yes
		26	1	2.653	1.141	62	Yes	1.327	-1.327	0.571	-0.571	1.444	Yes
	27	25	1	2.925	0.253	62	Yes	1.463	-1.463	0.127	-0.127	1.468	Yes
	28	26	1	0.805	1.692	62	Yes	0.402	-0.402	0.846	-0.846	0.937	Yes
		27	1	1.731	0.	62	Yes	0.866	-0.866	0.	-6.623	6.679	Yes
2	01	01	1	0.	1.146	62	Yes	22.778	6.131	0.573	-0.573	22.786	Yes
	02	01	1	0.	1.437	62	Yes	20.422	6.131	1.214	-0.223	20.458	Yes
		02	1	0.	1.375	62	Yes	20.422	6.131	0.999	-0.376	20.446	Yes
		03	1	0.	0.	62	Yes	19.534	6.438	1.879	0.	19.624	Yes
	03	02	1	0.	1.146	62	Yes	22.538	6.131	0.573	-0.573	22.545	Yes
	04	03	1	0.	0.	62	Yes	10.577	3.358	2.232	0.	10.81	Yes
		04	1	0.	0.	62	Yes	10.577	3.358	2.232	0.	10.81	Yes
	05	04	1	0.503	0.	62	Yes	0.344	-0.159	2.29	0.	2.316	Yes
		05	1	1.595	0.	62	Yes	0.902	-0.693	0.	-7.88	7.931	Yes
	06	05	1	0.	0.	27	Yes	10.083	3.022	0.	-8.724	13.333	Yes
		06	1	0.	0.	27	Yes	10.083	3.022	0.	-8.724	13.333	Yes
	07	07	1	0.	1.146	62	Yes	21.25	3.983	0.573	-0.573	21.257	Yes
	08	06	1	0.	0.	62	Yes	19.184	6.155	0.	-9.242	21.295	Yes
		07	1	0.	0.	62	Yes	20.753	3.983	1.237	0.	20.79	Yes
		08	1	0.	0.	62	Yes	20.753	3.983	0.	-5.937	21.586	Yes
	09	08	1	0.	0.	62	Yes	20.51	3.973	0.	-5.199	21.159	Yes
		09	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	10	09	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
		10	1	0.	0.	62	Yes	20.548	4.11	0.	-4.524	21.04	Yes
	11	10	1	0.	0.	27	Yes	20.521	4.11	0.	-4.383	20.984	Yes
		11	1	0.	0.	27	Yes	20.521	4.11	0.	-4.383	20.984	Yes
	12	11	1	0.	0.	62	Yes	20.493	4.11	0.	-4.239	20.927	Yes
		12	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes

13	12	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes	
	13	1	0.	0.	62	Yes	20.207	6.462	0.	-20.786	28.989	Yes	
14	13	1	0.	0.	62	Yes	20.092	6.462	0.	-20.235	28.516	Yes	
	14	1	0.478	0.	62	Yes	0.239	-0.239	0.	-23.489	23.49	Yes	
15	14	1	3.315	0.	27	Yes	1.657	-1.657	0.	-17.375	17.454	Yes	
	15	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes	
16	15	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes	
	16	1	3.208	0.	27	Yes	1.604	-1.604	0.	-8.755	8.901	Yes	
17	16	1	3.584	0.	62	Yes	1.792	-1.792	0.	-7.627	7.835	Yes	
	17	1	3.584	0.	62	Yes	1.792	-1.792	0.	-5.21	5.51	Yes	
	27	1	3.596	0.	62	Yes	1.798	-1.798	0.	-7.689	7.897	Yes	
18	17	1	3.961	0.	27	Yes	1.98	-1.98	0.	-3.96	4.427	Yes	
	18	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes	
19	18	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes	
	19	1	4.086	0.	27	Yes	2.043	-2.043	0.	-7.656	7.923	Yes	
20	19	1	5.299	0.	62	Yes	2.65	-2.65	0.	-2.885	3.917	Yes	
	20	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes	
21	20	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes	
	21	1	5.401	0.	62	Yes	2.7	-2.7	0.	-1.857	3.278	Yes	
22	21	1	5.535	0.	27	Yes	2.767	-2.767	0.	-1.262	3.041	Yes	
	22	1	5.535	0.	27	Yes	2.767	-2.767	0.	-1.262	3.041	Yes	
23	22	1	5.655	0.	62	Yes	2.828	-2.828	0.	-0.715	2.917	Yes	
	23	1	5.666	0.	62	Yes	2.833	-2.833	0.	-1.373	3.148	Yes	
24	23	1	7.834	0.158	62	Yes	3.917	-3.917	0.079	-0.079	3.918	Yes	
25	24	1	6.518	0.244	62	Yes	3.259	-3.259	0.122	-0.122	3.261	Yes	
26	24	1	7.262	0.524	62	Yes	3.631	-3.631	0.262	-0.262	3.64	Yes	
	25	1	7.262	0.554	62	Yes	3.631	-3.631	0.277	-0.277	3.642	Yes	
	26	1	7.262	1.014	62	Yes	3.631	-3.631	0.507	-0.507	3.666	Yes	
27	25	1	8.006	0.244	62	Yes	4.003	-4.003	0.122	-0.122	4.005	Yes	
28	26	1	2.202	1.495	62	Yes	1.101	-1.101	0.748	-0.748	1.331	Yes	
	27	1	4.856	0.	62	Yes	2.428	-2.428	0.	-5.914	6.393	Yes	
3	01	01	1	8.224	1.189	62	Yes	8.029	-0.195	0.595	-0.595	8.051	Yes
	02	01	1	7.373	1.526	62	Yes	7.178	-0.195	1.312	-0.214	7.297	Yes
		02	1	7.373	1.456	62	Yes	7.178	-0.195	1.073	-0.382	7.258	Yes
		03	1	7.067	0.	62	Yes	6.871	-0.195	2.064	0.	7.175	Yes
03	02	1	8.137	1.189	62	Yes	7.942	-0.195	0.595	-0.595	7.964	Yes	
04	03	1	3.975	0.	62	Yes	3.779	-0.195	2.456	0.	4.507	Yes	
	04	1	3.975	0.	62	Yes	3.779	-0.195	2.456	0.	4.507	Yes	
05	04	1	0.442	0.	62	Yes	0.247	-0.195	2.52	0.	2.533	Yes	
	05	1	0.809	0.	62	Yes	0.44	-0.368	0.	-8.717	8.728	Yes	
06	05	1	3.803	0.	27	Yes	3.608	-0.195	0.	-9.653	10.305	Yes	
	06	1	3.803	0.	27	Yes	3.608	-0.195	0.	-9.653	10.305	Yes	

07	07	1	0.	1.189	62	Yes	9.088	2.284	0.595	-0.595	9.108	Yes
08	06	1	6.945	0.	62	Yes	6.75	-0.195	0.	-10.227	12.254	Yes
	07	1	0.	0.	62	Yes	8.914	2.284	1.331	0.	9.013	Yes
	08	1	0.	0.	62	Yes	8.914	2.284	0.	-6.543	11.058	Yes
09	08	1	0.	0.	62	Yes	8.831	2.284	0.	-5.725	10.524	Yes
	09	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
10	09	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	10	1	0.	0.	62	Yes	8.844	2.284	0.	-4.968	10.144	Yes
11	10	1	0.	0.	27	Yes	8.835	2.284	0.	-4.812	10.061	Yes
	11	1	0.	0.	27	Yes	8.835	2.284	0.	-4.812	10.061	Yes
12	11	1	0.	0.	62	Yes	8.826	2.284	0.	-4.652	9.977	Yes
	12	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
13	12	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	13	1	7.3	0.	62	Yes	7.104	-0.195	0.	-23.044	24.114	Yes
14	13	1	7.26	0.	62	Yes	7.065	-0.195	0.	-22.434	23.52	Yes
	14	1	0.172	0.	62	Yes	0.086	-0.086	0.	-26.04	26.041	Yes
15	14	1	1.162	0.	27	Yes	0.581	-0.581	0.	-19.269	19.278	Yes
	15	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
16	15	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
	16	1	1.123	0.	27	Yes	0.562	-0.562	0.	-9.697	9.713	Yes
17	16	1	1.254	0.	62	Yes	0.627	-0.627	0.	-8.447	8.47	Yes
	17	1	1.254	0.	62	Yes	0.627	-0.627	0.	-5.764	5.798	Yes
	27	1	1.258	0.	62	Yes	0.629	-0.629	0.	-8.56	8.583	Yes
18	17	1	1.386	0.	27	Yes	0.693	-0.693	0.	-4.377	4.431	Yes
	18	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
19	18	1	0.	0.	27	Yes	0.	0.	0.	0.	0.	Yes
	19	1	1.431	0.	27	Yes	0.716	-0.716	0.	-8.487	8.517	Yes
20	19	1	1.854	0.	62	Yes	0.927	-0.927	0.	-3.194	3.325	Yes
	20	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
21	20	1	0.	0.	62	Yes	0.	0.	0.	0.	0.	Yes
	21	1	1.891	0.	62	Yes	0.945	-0.945	0.	-2.047	2.255	Yes
22	21	1	1.938	0.	27	Yes	0.969	-0.969	0.	-1.386	1.691	Yes
	22	1	1.938	0.	27	Yes	0.969	-0.969	0.	-1.386	1.691	Yes
23	22	1	1.98	0.	62	Yes	0.99	-0.99	0.	-0.78	1.26	Yes
	23	1	1.984	0.	62	Yes	0.992	-0.992	0.	-1.519	1.814	Yes
24	23	1	2.767	0.164	62	Yes	1.383	-1.383	0.082	-0.082	1.386	Yes
25	24	1	2.354	0.253	62	Yes	1.177	-1.177	0.127	-0.127	1.184	Yes
26	24	1	2.623	0.58	62	Yes	1.312	-1.312	0.29	-0.29	1.343	Yes
	25	1	2.623	0.616	62	Yes	1.312	-1.312	0.308	-0.308	1.347	Yes
	26	1	2.623	1.161	62	Yes	1.312	-1.312	0.58	-0.58	1.434	Yes
27	25	1	2.892	0.253	62	Yes	1.446	-1.446	0.127	-0.127	1.452	Yes
28	26	1	0.796	1.723	62	Yes	0.398	-0.398	0.861	-0.861	0.949	Yes

27 1 1.714 0. 62 Yes 0.857 -0.857 0. -6.591 6.646 Yes

Final Nodal Stress

**Non-Fatigue Load Condition**

Profile Zone	Node ID	Seg ID	Load Case	Fatigue Stress Reversal				Non-fatigue Stress				SRSS Allowable = 30.	
				Fiber	Shear	Allowed Fsr	OK	Fiber Stress		Shear Stress		SRSS Stress fr max fib & shear	OK
								Max	Min	Max	Min		
1	01	01	2	0.	0.	62		8.312	-0.195	0.733	-0.733	8.344	Yes
	02	01	2	0.	0.	62		7.253	-0.195	1.508	-0.4	7.408	Yes
		02	2	0.	0.	62		7.253	-0.195	1.253	-0.556	7.36	Yes
		03	2	0.	0.	62		6.943	-0.195	2.232	0.	7.293	Yes
03	02	2	2	0.	0.	62		8.204	-0.195	0.733	-0.733	8.236	Yes
04	03	2	2	0.	0.	62		3.82	-0.195	2.645	0.	4.646	Yes
	04	2	2	0.	0.	62		3.82	-0.195	2.645	0.	4.646	Yes
05	04	2	2	0.	0.	62		0.251	-0.195	2.715	0.	2.726	Yes
	05	2	2	0.	0.	62		0.641	-0.569	0.	-9.305	9.327	Yes
06	05	2	2	0.	0.	27		3.835	-0.195	0.	-10.292	10.984	Yes
	06	2	2	0.	0.	27		3.835	-0.195	0.	-10.292	10.984	Yes
07	07	2	2	0.	0.	62		9.473	2.284	0.733	-0.733	9.501	Yes
08	06	2	2	0.	0.	62		7.008	-0.195	0.	-10.894	12.953	Yes
	07	2	2	0.	0.	62		9.162	2.284	1.506	-0.101	9.285	Yes
	08	2	2	0.	0.	62		9.162	2.284	0.	-7.028	11.547	Yes
09	08	2	2	0.	0.	62		8.99	2.284	0.	-6.167	10.902	Yes
	09	2	2	0.	0.	62		0.	0.	0.	0.	0.	Yes
10	09	2	2	0.	0.	62		0.	0.	0.	0.	0.	Yes
	10	2	2	0.	0.	62		9.004	2.284	0.	-5.386	10.492	Yes
11	10	2	2	0.	0.	27		8.981	2.284	0.	-5.222	10.389	Yes
	11	2	2	0.	0.	27		8.981	2.284	0.	-5.222	10.389	Yes
12	11	2	2	0.	0.	62		8.958	2.284	0.	-5.054	10.285	Yes
	12	2	2	0.	0.	62		0.	0.	0.	0.	0.	Yes
13	12	2	2	0.	0.	62		0.	0.	0.	0.	0.	Yes
	13	2	2	0.	0.	62		7.247	-0.195	0.	-24.445	25.497	Yes
14	13	2	2	0.	0.	62		7.158	-0.195	0.	-23.803	24.856	Yes
	14	2	2	0.	0.	62		0.116	-0.116	0.	-27.585	27.586	Yes
15	14	2	2	0.	0.	27		1.037	-1.037	0.	-20.444	20.47	Yes
	15	2	2	0.	0.	27		0.	0.	0.	0.	0.	Yes
16	15	2	2	0.	0.	27		0.	0.	0.	0.	0.	Yes
	16	2	2	0.	0.	27		1.013	-1.013	0.	-10.32	10.37	Yes
17	16	2	2	0.	0.	62		1.134	-1.134	0.	-9.002	9.073	Yes
	17	2	2	0.	0.	62		1.134	-1.134	0.	-6.155	6.259	Yes
	27	2	2	0.	0.	62		1.139	-1.139	0.	-9.189	9.259	Yes
18	17	2	2	0.	0.	27		1.256	-1.256	0.	-4.685	4.85	Yes
	18	2	2	0.	0.	27		0.	0.	0.	0.	0.	Yes

	19	18	2	0.	0.	27	0.	0.	0.	0.	0.	Yes
		19	2	0.	0.	27	1.284	-1.284	0.	-9.022	9.113	Yes
	20	19	2	0.	0.	62	1.679	-1.679	0.	-3.409	3.801	Yes
		20	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
	21	20	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
		21	2	0.	0.	62	1.702	-1.702	0.	-2.207	2.788	Yes
	22	21	2	0.	0.	27	1.746	-1.746	0.	-1.506	2.306	Yes
		22	2	0.	0.	27	1.746	-1.746	0.	-1.506	2.306	Yes
	23	22	2	0.	0.	62	1.786	-1.786	0.	-0.864	1.983	Yes
		23	2	0.	0.	62	1.79	-1.79	0.	-1.628	2.419	Yes
	24	23	2	0.	0.	62	2.277	-2.277	0.101	-0.101	2.279	Yes
	25	24	2	0.	0.	62	1.465	-1.465	0.156	-0.156	1.473	Yes
	26	24	2	0.	0.	62	1.632	-1.632	0.353	-0.353	1.67	Yes
		25	2	0.	0.	62	1.632	-1.632	0.374	-0.374	1.674	Yes
		26	2	0.	0.	62	1.632	-1.632	0.702	-0.702	1.776	Yes
	27	25	2	0.	0.	62	1.799	-1.799	0.156	-0.156	1.806	Yes
	28	26	2	0.	0.	62	0.495	-0.495	1.04	-1.04	1.152	Yes
		27	2	0.	0.	62	1.422	-1.422	0.	-7.103	7.244	Yes
2	01	01	2	0.	0.	62	23.348	6.131	0.705	-0.705	23.359	Yes
	02	01	2	0.	0.	62	20.45	6.131	1.395	-0.404	20.497	Yes
		02	2	0.	0.	62	20.45	6.131	1.167	-0.544	20.483	Yes
		03	2	0.	0.	62	19.562	6.438	2.022	0.	19.666	Yes
	03	02	2	0.	0.	62	23.053	6.131	0.705	-0.705	23.063	Yes
	04	03	2	0.	0.	62	10.596	3.358	2.392	0.	10.863	Yes
		04	2	0.	0.	62	10.596	3.358	2.392	0.	10.863	Yes
	05	04	2	0.	0.	62	0.354	-0.159	2.454	0.	2.479	Yes
		05	2	0.	0.	62	1.471	-1.261	0.	-8.348	8.476	Yes
	06	05	2	0.	0.	27	10.642	3.022	0.	-9.231	14.088	Yes
		06	2	0.	0.	27	10.642	3.022	0.	-9.231	14.088	Yes
	07	07	2	0.	0.	62	22.177	3.983	0.705	-0.705	22.189	Yes
	08	06	2	0.	0.	62	19.749	6.155	0.	-9.769	22.033	Yes
		07	2	0.	0.	62	21.296	3.983	1.397	-0.14	21.342	Yes
		08	2	0.	0.	62	21.297	3.983	0.	-6.335	22.219	Yes
	09	08	2	0.	0.	62	20.802	3.973	0.	-5.565	21.533	Yes
		09	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
	10	09	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
		10	2	0.	0.	62	20.841	4.11	0.	-4.877	21.404	Yes
	11	10	2	0.	0.	27	20.773	4.11	0.	-4.73	21.305	Yes
		11	2	0.	0.	27	20.773	4.11	0.	-4.73	21.305	Yes
	12	11	2	0.	0.	62	20.706	4.11	0.	-4.579	21.206	Yes
		12	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
	13	12	2	0.	0.	62	0.	0.	0.	0.	0.	Yes

	13	2	0.	0.	62	20.43	6.462	0.	-21.87	29.928	Yes	
14	13	2	0.	0.	62	20.173	6.462	0.	-21.295	29.333	Yes	
	14	2	0.	0.	62	0.321	-0.321	0.	-24.678	24.68	Yes	
15	14	2	0.	0.	27	2.941	-2.941	0.	-18.288	18.523	Yes	
	15	2	0.	0.	27	0.	0.	0.	0.	0.	Yes	
16	15	2	0.	0.	27	0.	0.	0.	0.	0.	Yes	
	16	2	0.	0.	27	2.876	-2.876	0.	-9.247	9.684	Yes	
17	16	2	0.	0.	62	3.222	-3.222	0.	-8.068	8.687	Yes	
	17	2	0.	0.	62	3.222	-3.222	0.	-5.524	6.394	Yes	
	27	2	0.	0.	62	3.233	-3.233	0.	-8.206	8.82	Yes	
18	17	2	0.	0.	27	3.568	-3.568	0.	-4.209	5.517	Yes	
	18	2	0.	0.	27	0.	0.	0.	0.	0.	Yes	
19	18	2	0.	0.	27	0.	0.	0.	0.	0.	Yes	
	19	2	0.	0.	27	3.645	-3.645	0.	-8.076	8.86	Yes	
20	19	2	0.	0.	62	4.77	-4.77	0.	-3.058	5.666	Yes	
	20	2	0.	0.	62	0.	0.	0.	0.	0.	Yes	
21	20	2	0.	0.	62	0.	0.	0.	0.	0.	Yes	
	21	2	0.	0.	62	4.832	-4.832	0.	-1.99	5.226	Yes	
22	21	2	0.	0.	27	4.957	-4.957	0.	-1.364	5.142	Yes	
	22	2	0.	0.	27	4.957	-4.957	0.	-1.364	5.142	Yes	
23	22	2	0.	0.	62	5.07	-5.07	0.	-0.789	5.131	Yes	
	23	2	0.	0.	62	5.081	-5.081	0.	-1.461	5.287	Yes	
24	23	2	0.	0.	62	6.414	-6.414	0.097	-0.097	6.415	Yes	
25	24	2	0.	0.	62	4.008	-4.008	0.15	-0.15	4.011	Yes	
26	24	2	0.	0.	62	4.466	-4.466	0.322	-0.322	4.478	Yes	
	25	2	0.	0.	62	4.466	-4.466	0.341	-0.341	4.479	Yes	
	26	2	0.	0.	62	4.466	-4.466	0.624	-0.624	4.509	Yes	
27	25	2	0.	0.	62	4.924	-4.924	0.15	-0.15	4.926	Yes	
28	26	2	0.	0.	62	1.354	-1.354	0.92	-0.92	1.637	Yes	
	27	2	0.	0.	62	4.008	-4.008	0.	-6.341	7.502	Yes	
3	01	01	2	0.	0.	62	8.235	-0.195	0.732	-0.732	8.267	Yes
	02	01	2	0.	0.	62	7.188	-0.195	1.506	-0.407	7.344	Yes
		02	2	0.	0.	62	7.188	-0.195	1.252	-0.561	7.296	Yes
		03	2	0.	0.	62	6.881	-0.195	2.218	0.	7.23	Yes
03	02	2	0.	0.	62	8.128	-0.195	0.732	-0.732	8.161	Yes	
04	03	2	0.	0.	62	3.786	-0.195	2.628	0.	4.609	Yes	
		04	2	0.	0.	62	3.786	-0.195	2.628	0.	4.609	Yes
05	04	2	0.	0.	62	0.251	-0.195	2.697	0.	2.709	Yes	
		05	2	0.	0.	62	0.637	-0.565	0.	-9.231	9.253	Yes
06	05	2	0.	0.	27	3.802	-0.195	0.	-10.211	10.896	Yes	
		06	2	0.	0.	27	3.802	-0.195	0.	-10.211	10.896	Yes
07	07	2	0.	0.	62	9.41	2.284	0.732	-0.732	9.438	Yes	

08	06	2	0.	0.	62	6.945	-0.195	0.	-10.807	12.847	Yes
	07	2	0.	0.	62	9.102	2.284	1.499	-0.106	9.225	Yes
	08	2	0.	0.	62	9.102	2.284	0.	-6.975	11.468	Yes
09	08	2	0.	0.	62	8.932	2.284	0.	-6.121	10.828	Yes
	09	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
10	09	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
	10	2	0.	0.	62	8.946	2.284	0.	-5.348	10.423	Yes
11	10	2	0.	0.	27	8.923	2.284	0.	-5.185	10.32	Yes
	11	2	0.	0.	27	8.923	2.284	0.	-5.185	10.32	Yes
12	11	2	0.	0.	62	8.9	2.284	0.	-5.018	10.217	Yes
	12	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
13	12	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
	13	2	0.	0.	62	7.182	-0.195	0.	-24.245	25.287	Yes
14	13	2	0.	0.	62	7.094	-0.195	0.	-23.609	24.651	Yes
	14	2	0.	0.	62	0.115	-0.115	0.	-27.359	27.359	Yes
15	14	2	0.	0.	27	1.027	-1.027	0.	-20.283	20.309	Yes
	15	2	0.	0.	27	0.	0.	0.	0.	0.	Yes
16	15	2	0.	0.	27	0.	0.	0.	0.	0.	Yes
	16	2	0.	0.	27	1.003	-1.003	0.	-10.24	10.289	Yes
17	16	2	0.	0.	62	1.123	-1.123	0.	-8.934	9.004	Yes
	17	2	0.	0.	62	1.123	-1.123	0.	-6.109	6.212	Yes
	27	2	0.	0.	62	1.127	-1.127	0.	-9.141	9.21	Yes
18	17	2	0.	0.	27	1.244	-1.244	0.	-4.65	4.814	Yes
	18	2	0.	0.	27	0.	0.	0.	0.	0.	Yes
19	18	2	0.	0.	27	0.	0.	0.	0.	0.	Yes
	19	2	0.	0.	27	1.272	-1.272	0.	-8.953	9.043	Yes
20	19	2	0.	0.	62	1.663	-1.663	0.	-3.384	3.771	Yes
	20	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
21	20	2	0.	0.	62	0.	0.	0.	0.	0.	Yes
	21	2	0.	0.	62	1.686	-1.686	0.	-2.192	2.765	Yes
22	21	2	0.	0.	27	1.729	-1.729	0.	-1.496	2.287	Yes
	22	2	0.	0.	27	1.729	-1.729	0.	-1.496	2.287	Yes
23	22	2	0.	0.	62	1.768	-1.768	0.	-0.859	1.966	Yes
	23	2	0.	0.	62	1.772	-1.772	0.	-1.616	2.398	Yes
24	23	2	0.	0.	62	2.254	-2.254	0.101	-0.101	2.256	Yes
25	24	2	0.	0.	62	1.448	-1.448	0.156	-0.156	1.456	Yes
26	24	2	0.	0.	62	1.613	-1.613	0.357	-0.357	1.652	Yes
	25	2	0.	0.	62	1.613	-1.613	0.379	-0.379	1.657	Yes
	26	2	0.	0.	62	1.613	-1.613	0.714	-0.714	1.764	Yes
27	25	2	0.	0.	62	1.779	-1.779	0.156	-0.156	1.786	Yes
28	26	2	0.	0.	62	0.489	-0.489	1.06	-1.06	1.167	Yes
	27	2	0.	0.	62	1.407	-1.407	0.	-7.072	7.21	Yes



**Fatigue Stress Reversal** **OK**

**Non-fatigue Stress** **OK**

END P-SDC10047/R-W40x324 w/THP, Structural Design Corp. USA © Oct. 2010 Crane Girder Analysis 12/02/10 08:24:47 Final Nodal Stress (rGdr18\_FinalNodalStress)

## Profile Nodal Deflection

### Summary Sorted By Profile Zone, Node, Load Case

All deflections per geometric axes are absolute positive and load combination factor for vertical load in all load cases = 1 (i.e. no impact)

#### Profile / Zone Summary

Summary Of Girder Deflection (rGdr19\_Deflection)

##### Identification

Zone ID = 1                                      Zone start = 0                                      Zone end = 30  
 Profile ID = 1                                      Profile description = Full depth

##### Profile Centroid/Shear Center

Centroid X coordinate = **-8.62682833**                                      Shear center X coordinate = **-0.53757**  
 Centroid Y coordinate = **24.40603787**                                      Shear center Y coordinate = **41.76374**

Node No.	Projection of Distance from nodal point to the Shear Center		Load Case	Load Direction and Value Type	Aggregate Deflection				Deflection Sum [Span Ratio]					
	X-Xsc	Y-Ysc			Due to Flexure	Due To Torsion		X	[L/X]	Y	[L/Y]			
						Rotation (Radians)	X-Comp					Y-Comp		
<b>01</b>	7.41493	40.8587	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0356921	0.0064773	<b>0.0395046</b>	[8960]	<b>0.0064773</b>	[9999]		
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A		
				Vertical Maximum	0.0722729	0.0008735	0.0356921	0.0064773	<b>0.0356921</b>	[9918]	<b>0.0787502</b>	[4495]		
				Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A		
					<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0439022	0.0079673	<b>0.0515273</b>	[6870]	<b>0.0079673</b>	[9999]
						Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
						Vertical Maximum	0.0722729	0.0010745	0.0439022	0.0079673	<b>0.0439022</b>	[8063]	<b>0.0802402</b>	[4411]
						Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
<b>02</b>	0.53757	40.8587	<b>1</b>	Lateral Maximum		0.0038125	0.0008735	0.0356921	0.0004696	<b>0.0395046</b>	[8960]	<b>0.0004696</b>	[9999]	
				Lateral Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
				Vertical Maximum		0.0722729	0.0008735	0.0356921	0.0004696	<b>0.0356921</b>	[9918]	<b>0.0727425</b>	[4866]	
				Vertical Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
					<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0439022	0.0005776	<b>0.0515273</b>	[6870]	<b>0.0005776</b>	[9999]
						Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
						Vertical Maximum	0.0722729	0.0010745	0.0439022	0.0005776	<b>0.0439022</b>	[8063]	<b>0.0728505</b>	[4859]
						Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
<b>03</b>	8.49007	40.8587	<b>1</b>	Lateral Maximum		0.0038125	0.0008735	0.0356921	0.0074165	<b>0.0395046</b>	[8960]	<b>0.0074165</b>	[9999]	
				Lateral Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
				Vertical Maximum		0.0722729	0.0008735	0.0356921	0.0074165	<b>0.0356921</b>	[9918]	<b>0.0796894</b>	[4442]	
				Vertical Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
					<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0439022	0.0091225	<b>0.0515273</b>	[6870]	<b>0.0091225</b>	[9999]
						Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
						Vertical Maximum	0.0722729	0.0010745	0.0439022	0.0091225	<b>0.0439022</b>	[8063]	<b>0.0813954</b>	[4349]
						Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
<b>04</b>	0.53757	31.7637	<b>1</b>	Lateral Maximum		0.0038125	0.0008735	0.0277472	0.0004696	<b>0.0315597</b>	[9999]	<b>0.0004696</b>	[9999]	
				Lateral Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
				Vertical Maximum		0.0722729	0.0008735	0.0277472	0.0004696	<b>0.0277472</b>	[9999]	<b>0.0727425</b>	[4866]	
				Vertical Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
					<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0341298	0.0005776	<b>0.0417548</b>	[8478]	<b>0.0005776</b>	[9999]
						Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
						Vertical Maximum	0.0722729	0.0010745	0.0341298	0.0005776	<b>0.0341298</b>	[9999]	<b>0.0728505</b>	[4859]
						Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
<b>05</b>	0.53757	21.3737	<b>1</b>	Lateral Maximum		0.0038125	0.0008735	0.0186710	0.0004696	<b>0.0224835</b>	[9999]	<b>0.0004696</b>	[9999]	
				Lateral Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
				Vertical Maximum		0.0722729	0.0008735	0.0186710	0.0004696	<b>0.0186710</b>	[9999]	<b>0.0727425</b>	[4866]	
				Vertical Minimum		0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
					<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0229658	0.0005776	<b>0.0305909</b>	[9999]	<b>0.0005776</b>	[9999]

				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0229658	0.0005776	<b>0.0229658</b>	[9999]	<b>0.0728505</b>	[4859]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>06</b>	0.53757	11.7637	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0102762	0.0004696	<b>0.0140887</b>	[9999]	<b>0.0004696</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0102762	0.0004696	<b>0.0102762</b>	[9999]	<b>0.0727425</b>	[4866]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0126400	0.0005776	<b>0.0202650</b>	[9999]	<b>0.0005776</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0126400	0.0005776	<b>0.0126400</b>	[9999]	<b>0.0728505</b>	[4859]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>07</b>	8.49007	2.50874	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0021915	0.0074165	<b>0.0060040</b>	[9999]	<b>0.0074165</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0021915	0.0074165	<b>0.0021915</b>	[9999]	<b>0.0796894</b>	[4442]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0026956	0.0091225	<b>0.0103206</b>	[9999]	<b>0.0091225</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0026956	0.0091225	<b>0.0026956</b>	[9999]	<b>0.0813954</b>	[4349]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>08</b>	0.53757	2.50874	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0021915	0.0004696	<b>0.0060040</b>	[9999]	<b>0.0004696</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0021915	0.0004696	<b>0.0021915</b>	[9999]	<b>0.0727425</b>	[4866]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0026956	0.0005776	<b>0.0103206</b>	[9999]	<b>0.0005776</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0026956	0.0005776	<b>0.0026956</b>	[9999]	<b>0.0728505</b>	[4859]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>09</b>	5.41493	2.53875	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0022177	0.0047302	<b>0.0060302</b>	[9999]	<b>0.0047302</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0022177	0.0047302	<b>0.0022177</b>	[9999]	<b>0.0770031</b>	[4597]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0027279	0.0058183	<b>0.0103529</b>	[9999]	<b>0.0058183</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0027279	0.0058183	<b>0.0027279</b>	[9999]	<b>0.0780912</b>	[4533]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>10</b>	5.41493	2.32124	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0020277	0.0047302	<b>0.0058402</b>	[9999]	<b>0.0047302</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0020277	0.0047302	<b>0.0020277</b>	[9999]	<b>0.0770031</b>	[4597]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0024941	0.0058183	<b>0.0101192</b>	[9999]	<b>0.0058183</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0024941	0.0058183	<b>0.0024941</b>	[9999]	<b>0.0780912</b>	[4533]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>11</b>	6.41493	2.32124	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0020277	0.0056038	<b>0.0058402</b>	[9999]	<b>0.0056038</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0020277	0.0056038	<b>0.0020277</b>	[9999]	<b>0.0778767</b>	[4545]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0024941	0.0068928	<b>0.0101192</b>	[9999]	<b>0.0068928</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0024941	0.0068928	<b>0.0024941</b>	[9999]	<b>0.0791657</b>	[4471]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>12</b>	7.41493	2.32124	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0020277	0.0064773	<b>0.0058402</b>	[9999]	<b>0.0064773</b>	[9999]	

				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0020277	0.0064773	<b>0.0020277</b>	[9999]	<b>0.0787502</b>	[4495]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0024941	0.0079673	<b>0.0101192</b>	[9999]	<b>0.0079673</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0024941	0.0079673	<b>0.0024941</b>	[9999]	<b>0.0802402</b>	[4411]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>13</b>	<b>7.41493</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0012372	0.0064773	<b>0.0050497</b>	[9999]	<b>0.0064773</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0012372	0.0064773	<b>0.0012372</b>	[9999]	<b>0.0787502</b>	[4495]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0015217	0.0079673	<b>0.0091468</b>	[9999]	<b>0.0079673</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0015217	0.0079673	<b>0.0015217</b>	[9999]	<b>0.0802402</b>	[4411]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>14</b>	<b>10.8049</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0012372	0.0094386	<b>0.0050497</b>	[9999]	<b>0.0094386</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0012372	0.0094386	<b>0.0012372</b>	[9999]	<b>0.0817115</b>	[4332]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0015217	0.0116098	<b>0.0091468</b>	[9999]	<b>0.0116098</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0015217	0.0116098	<b>0.0015217</b>	[9999]	<b>0.0838827</b>	[4220]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>15</b>	<b>38.0974</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0012372	0.03328	<b>0.0050497</b>	[9999]	<b>0.03328</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0012372	0.03328	<b>0.0012372</b>	[9999]	<b>0.1055529</b>	[3353]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0015217	0.0409352	<b>0.0091468</b>	[9999]	<b>0.0409352</b>	[8647]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0015217	0.0409352	<b>0.0015217</b>	[9999]	<b>0.1132082</b>	[3126]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>16</b>	<b>38.0974</b>	<b>1.60875</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0014053	0.03328	<b>0.0052178</b>	[9999]	<b>0.03328</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0014053	0.03328	<b>0.0014053</b>	[9999]	<b>0.1055529</b>	[3353]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0017286	0.0409352	<b>0.0093536</b>	[9999]	<b>0.0409352</b>	[8647]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0017286	0.0409352	<b>0.0017286</b>	[9999]	<b>0.1132082</b>	[3126]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>17</b>	<b>41.4624</b>	<b>1.60875</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0014053	0.0362195	<b>0.0052178</b>	[9999]	<b>0.0362195</b>	[9773]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0014053	0.0362195	<b>0.0014053</b>	[9999]	<b>0.1084924</b>	[3262]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0017286	0.0445509	<b>0.0093536</b>	[9999]	<b>0.0445509</b>	[7945]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0017286	0.0445509	<b>0.0017286</b>	[9999]	<b>0.1168238</b>	[3030]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>18</b>	<b>44.8274</b>	<b>1.60875</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0014053	0.039159	<b>0.0052178</b>	[9999]	<b>0.039159</b>	[9040]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0014053	0.039159	<b>0.0014053</b>	[9999]	<b>0.1114319</b>	[3176]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0017286	0.0481666	<b>0.0093536</b>	[9999]	<b>0.0481666</b>	[7349]	

				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0017286	0.0481666	<b>0.0017286</b>	[9999]	<b>0.1204395</b>	[2939]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>19</b>	<b>44.8274</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0012372	0.039159	<b>0.0050497</b>	[9999]	<b>0.039159</b>	[9040]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0012372	0.039159	<b>0.0012372</b>	[9999]	<b>0.1114319</b>	[3176]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0015217	0.0481666	<b>0.0091468</b>	[9999]	<b>0.0481666</b>	[7349]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0015217	0.0481666	<b>0.0015217</b>	[9999]	<b>0.1204395</b>	[2939]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>20</b>	<b>55.9624</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0012372	0.0488859	<b>0.0050497</b>	[9999]	<b>0.0488859</b>	[7241]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0012372	0.0488859	<b>0.0012372</b>	[9999]	<b>0.1211588</b>	[2921]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0015217	0.060131	<b>0.0091468</b>	[9999]	<b>0.060131</b>	[5887]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0015217	0.060131	<b>0.0015217</b>	[9999]	<b>0.1324039</b>	[2673]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>21</b>	<b>55.9624</b>	<b>1.29124</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.001128	0.0488859	<b>0.0049405</b>	[9999]	<b>0.0488859</b>	[7241]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.001128	0.0488859	<b>0.001128</b>	[9999]	<b>0.1211588</b>	[2921]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0013874	0.060131	<b>0.0090125</b>	[9999]	<b>0.060131</b>	[5887]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0013874	0.060131	<b>0.0013874</b>	[9999]	<b>0.1324039</b>	[2673]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>22</b>	<b>57.2124</b>	<b>1.29124</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.001128	0.0499779	<b>0.0049405</b>	[9999]	<b>0.0499779</b>	[7083]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.001128	0.0499779	<b>0.001128</b>	[9999]	<b>0.1222508</b>	[2895]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0013874	0.0614741	<b>0.0090125</b>	[9999]	<b>0.0614741</b>	[5758]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0013874	0.0614741	<b>0.0013874</b>	[9999]	<b>0.1337470</b>	[2646]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>23</b>	<b>58.3374</b>	<b>1.29124</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.001128	0.0509606	<b>0.0049405</b>	[9999]	<b>0.0509606</b>	[6946]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.001128	0.0509606	<b>0.001128</b>	[9999]	<b>0.1232335</b>	[2872]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0013874	0.0626829	<b>0.0090125</b>	[9999]	<b>0.0626829</b>	[5647]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0013874	0.0626829	<b>0.0013874</b>	[9999]	<b>0.1349558</b>	[2623]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>24</b>	<b>58.3374</b>	<b>1.27126</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0011105	0.0509606	<b>0.0049230</b>	[9999]	<b>0.0509606</b>	[6946]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0011105	0.0509606	<b>0.0011105</b>	[9999]	<b>0.1232335</b>	[2872]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0013659	0.0626829	<b>0.008991</b>	[9999]	<b>0.0626829</b>	[5647]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0013659	0.0626829	<b>0.0013659</b>	[9999]	<b>0.1349558</b>	[2623]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
<b>25</b>	<b>44.8274</b>	<b>15.2512</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0133227	0.039159	<b>0.0171352</b>	[9999]	<b>0.039159</b>	[9040]

				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0133227	0.039159	<b>0.0133227</b>	[9999]	<b>0.1114319</b>	[3176]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0163873	0.0481666	<b>0.0240123</b>	[9999]	<b>0.0481666</b>	[7349]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0163873	0.0481666	<b>0.0163873</b>	[9999]	<b>0.1204395</b>	[2939]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>26</b>	<b>41.4624</b>	<b>15.2512</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0133227	0.0362195	<b>0.0171352</b>	[9999]	<b>0.0362195</b>	[9773]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0133227	0.0362195	<b>0.0133227</b>	[9999]	<b>0.1084924</b>	[3262]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0163873	0.0445509	<b>0.0240123</b>	[9999]	<b>0.0445509</b>	[7945]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0163873	0.0445509	<b>0.0163873</b>	[9999]	<b>0.1168238</b>	[3030]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>27</b>	<b>38.0974</b>	<b>15.2512</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0133227	0.03328	<b>0.0171352</b>	[9999]	<b>0.03328</b>	[9999]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0133227	0.03328	<b>0.0133227</b>	[9999]	<b>0.1055529</b>	[3353]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0163873	0.0409352	<b>0.0240123</b>	[9999]	<b>0.0409352</b>	[8647]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0163873	0.0409352	<b>0.0163873</b>	[9999]	<b>0.1132082</b>	[3126]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
<b>28</b>	<b>41.4624</b>	<b>6.83775</b>	<b>1</b>	Lateral Maximum	0.0038125	0.0008735	0.0059731	0.0362195	<b>0.0097856</b>	[9999]	<b>0.0362195</b>	[9773]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0008735	0.0059731	0.0362195	<b>0.0059731</b>	[9999]	<b>0.1084924</b>	[3262]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A
			<b>2</b>	Lateral Maximum	0.0076250	0.0010745	0.0073471	0.0445509	<b>0.0149721</b>	[9999]	<b>0.0445509</b>	[7945]	
				Lateral Minimum	0	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0722729	0.0010745	0.0073471	0.0445509	<b>0.0073471</b>	[9999]	<b>0.1168238</b>	[3030]	
				Vertical Minimum	0	0	0	0	0	0	N/A	0	N/A

(Based on L/400) Allowable X deflection = 0.885  
 (Based on L/1000) Allowable Y deflection = 0.354

	X	Y
<b>Extreme Maximum =</b>	<b>0.1917972</b>	<b>0.5029882</b>
@ Node =	1	23
From load case =	2	2
Profile/zone	<b>OK</b>	<b>NG</b>
<b>Maximum @ Rail top =</b>	<b>0.0113763</b>	<b>0.0728505</b>
	<b>OK</b>	<b>OK</b>

**Zone overall girder deflection check result** **NG**  
**Zone rail top deflection check result** **OK**

**Profile / Zone Summary**

Summary Of Girder Deflection (rGdr19\_Deflection)

**Identification**

Zone ID = 2 Zone start = 30 Zone end = 324  
 Profile ID = 1 Profile description = Full depth

**Profile Centroid/Shear Center**

Centroid X coordinate = -8.62682833 Shear center X coordinate = -0.53757  
 Centroid Y coordinate = 24.40603787 Shear center Y coordinate = 41.76374

Node No.	Projection of Distance from nodal point to the Shear Center		Load Case	Load Direction and Value Type	Aggregate Deflection				Deflection Sum [Span Ratio]			
	X-Xsc	Y-Ysc			Due to Flexure	Due To Torsion		X	[L/X]	Y	[L/Y]	
						Rotation (Radians)	X-Comp					Y-Comp
01	7.41493	40.8587	1	Lateral Maximum	0.0142315	0.00325	0.1327892	0.0240982	<b>0.1470207</b>	[2407]	<b>0.0240982</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0356452	0.0064688	<b>0.0394516</b>	[8973]	<b>0.0064688</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.1327892	0.0240982	<b>0.1327892</b>	[2665]	<b>0.2938805</b>	[1204]
				Vertical Minimum	0.0721570	0.0008724	0.0356452	0.0064688	<b>0.1078023</b>	[3283]	<b>0.0064688</b>	[9999]
	2	Lateral Maximum	0.0284629	0.0039975	0.1633343	0.0296414	<b>0.1917972</b>	[1845]	<b>0.0296414</b>	[9999]		
		Lateral Minimum	0.0076128	0.0010731	0.0438446	0.0079568	<b>0.0514574</b>	[6879]	<b>0.0079568</b>	[9999]		
		Vertical Maximum	0.2697823	0.0039975	0.1633343	0.0296414	<b>0.1633343</b>	[2167]	<b>0.2994238</b>	[1182]		
		Vertical Minimum	0.0721570	0.0010731	0.0438446	0.0079568	<b>0.1160016</b>	[3051]	<b>0.0079568</b>	[9999]		
02	0.53757	40.8587	1	Lateral Maximum	0.0142315	0.00325	0.1327892	0.0017471	<b>0.1470207</b>	[2407]	<b>0.0017471</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0356452	0.000469	<b>0.0394516</b>	[8973]	<b>0.000469</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.1327892	0.0017471	<b>0.1327892</b>	[2665]	<b>0.2715294</b>	[1303]
				Vertical Minimum	0.0721570	0.0008724	0.0356452	0.000469	<b>0.1078023</b>	[3283]	<b>0.000469</b>	[9999]
	2	Lateral Maximum	0.0284629	0.0039975	0.1633343	0.002149	<b>0.1917972</b>	[1845]	<b>0.002149</b>	[9999]		
		Lateral Minimum	0.0076128	0.0010731	0.0438446	0.0005769	<b>0.0514574</b>	[6879]	<b>0.0005769</b>	[9999]		
		Vertical Maximum	0.2697823	0.0039975	0.1633343	0.002149	<b>0.1633343</b>	[2167]	<b>0.2719313</b>	[1301]		
		Vertical Minimum	0.0721570	0.0010731	0.0438446	0.0005769	<b>0.1160016</b>	[3051]	<b>0.0005769</b>	[9999]		
03	8.49007	40.8587	1	Lateral Maximum	0.0142315	0.00325	0.1327892	0.0275924	<b>0.1470207</b>	[2407]	<b>0.0275924</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0356452	0.0074068	<b>0.0394516</b>	[8973]	<b>0.0074068</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.1327892	0.0275924	<b>0.1327892</b>	[2665]	<b>0.2973747</b>	[1190]
				Vertical Minimum	0.0721570	0.0008724	0.0356452	0.0074068	<b>0.1078023</b>	[3283]	<b>0.0074068</b>	[9999]
	2	Lateral Maximum	0.0284629	0.0039975	0.1633343	0.0339394	<b>0.1917972</b>	[1845]	<b>0.0339394</b>	[9999]		
		Lateral Minimum	0.0076128	0.0010731	0.0438446	0.0091105	<b>0.0514574</b>	[6879]	<b>0.0091105</b>	[9999]		
		Vertical Maximum	0.2697823	0.0039975	0.1633343	0.0339394	<b>0.1633343</b>	[2167]	<b>0.3037217</b>	[1165]		
		Vertical Minimum	0.0721570	0.0010731	0.0438446	0.0091105	<b>0.1160016</b>	[3051]	<b>0.0091105</b>	[9999]		
04	0.53757	31.7637	1	Lateral Maximum	0.0142315	0.00325	0.1032308	0.0017471	<b>0.1174623</b>	[3013]	<b>0.0017471</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0277107	0.000469	<b>0.0315171</b>	[9999]	<b>0.000469</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.1032308	0.0017471	<b>0.1032308</b>	[3429]	<b>0.2715294</b>	[1303]
				Vertical Minimum	0.0721570	0.0008724	0.0277107	0.000469	<b>0.0998678</b>	[3544]	<b>0.000469</b>	[9999]
	2	Lateral Maximum	0.0284629	0.0039975	0.1269767	0.002149	<b>0.1554396</b>	[2277]	<b>0.002149</b>	[9999]		
		Lateral Minimum	0.0076128	0.0010731	0.034085	0.0005769	<b>0.0416978</b>	[8489]	<b>0.0005769</b>	[9999]		
		Vertical Maximum	0.2697823	0.0039975	0.1269767	0.002149	<b>0.1269767</b>	[2787]	<b>0.2719313</b>	[1301]		
		Vertical Minimum	0.0721570	0.0010731	0.034085	0.0005769	<b>0.106242</b>	[3332]	<b>0.0005769</b>	[9999]		
05	0.53757	21.3737	1	Lateral Maximum	0.0142315	0.00325	0.0694638	0.0017471	<b>0.0836952</b>	[4229]	<b>0.0017471</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0186465	0.000469	<b>0.0224529</b>	[9999]	<b>0.000469</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0694638	0.0017471	<b>0.0694638</b>	[5096]	<b>0.2715294</b>	[1303]
				Vertical Minimum	0.0721570	0.0008724	0.0186465	0.000469	<b>0.0908035</b>	[3898]	<b>0.000469</b>	[9999]
	2	Lateral Maximum	0.0284629	0.0039975	0.0854423	0.002149	<b>0.1139052</b>	[3107]	<b>0.002149</b>	[9999]		
		Lateral Minimum	0.0076128	0.0010731	0.0229357	0.0005769	<b>0.0305485</b>	[9999]	<b>0.0005769</b>	[9999]		
		Vertical Maximum	0.2697823	0.0039975	0.0854423	0.002149	<b>0.0854423</b>	[4143]	<b>0.2719313</b>	[1301]		
		Vertical Minimum	0.0721570	0.0010731	0.0229357	0.0005769	<b>0.0950927</b>	[3722]	<b>0.0005769</b>	[9999]		
06	0.53757	11.7637	1	Lateral Maximum	0.0142315	0.00325	0.0382317	0.0017471	<b>0.0524631</b>	[6747]	<b>0.0017471</b>	[9999]

			Lateral Minimum	0.0038064	0.0008724	0.0102627	0.000469	<b>0.0140691</b>	[9999]	<b>0.000469</b>	[9999]	
			Vertical Maximum	0.2697823	0.00325	0.0382317	0.0017471	<b>0.0382317</b>	[9259]	<b>0.2715294</b>	[1303]	
			Vertical Minimum	0.0721570	0.0008724	0.0102627	0.000469	<b>0.0824197</b>	[4295]	<b>0.000469</b>	[9999]	
		<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.047026	0.002149	<b>0.0754889</b>	[4689]	<b>0.002149</b>	[9999]	
			Lateral Minimum	0.0076128	0.0010731	0.0126234	0.0005769	<b>0.0202362</b>	[9999]	<b>0.0005769</b>	[9999]	
			Vertical Maximum	0.2697823	0.0039975	0.047026	0.002149	<b>0.047026</b>	[7527]	<b>0.2719313</b>	[1301]	
			Vertical Minimum	0.0721570	0.0010731	0.0126234	0.0005769	<b>0.0847804</b>	[4175]	<b>0.0005769</b>	[9999]	
<b>07</b>	8.49007	2.50874	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0081533	0.0275924	<b>0.0223848</b>	[9999]	<b>0.0275924</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0021886	0.0074068	<b>0.0059950</b>	[9999]	<b>0.0074068</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0081533	0.0275924	<b>0.0081533</b>	[9999]	<b>0.2973747</b>	[1190]
				Vertical Minimum	0.0721570	0.0008724	0.0021886	0.0074068	<b>0.0743457</b>	[4761]	<b>0.0074068</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0100288	0.0339394	<b>0.0384917</b>	[9196]	<b>0.0339394</b>	[9999]
				Lateral Minimum	0.0076128	0.0010731	0.0026921	0.0091105	<b>0.0103049</b>	[9999]	<b>0.0091105</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0100288	0.0339394	<b>0.0100288</b>	[9999]	<b>0.3037217</b>	[1165]
				Vertical Minimum	0.0721570	0.0010731	0.0026921	0.0091105	<b>0.0748491</b>	[4729]	<b>0.0091105</b>	[9999]
<b>08</b>	0.53757	2.50874	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0081533	0.0017471	<b>0.0223848</b>	[9999]	<b>0.0017471</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0021886	0.000469	<b>0.0059950</b>	[9999]	<b>0.000469</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0081533	0.0017471	<b>0.0081533</b>	[9999]	<b>0.2715294</b>	[1303]
				Vertical Minimum	0.0721570	0.0008724	0.0021886	0.000469	<b>0.0743457</b>	[4761]	<b>0.000469</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0100288	0.002149	<b>0.0384917</b>	[9196]	<b>0.002149</b>	[9999]
				Lateral Minimum	0.0076128	0.0010731	0.0026921	0.0005769	<b>0.0103049</b>	[9999]	<b>0.0005769</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0100288	0.002149	<b>0.0100288</b>	[9999]	<b>0.2719313</b>	[1301]
				Vertical Minimum	0.0721570	0.0010731	0.0026921	0.0005769	<b>0.0748491</b>	[4729]	<b>0.0005769</b>	[9999]
<b>09</b>	5.41493	2.53875	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0082508	0.0175983	<b>0.0224823</b>	[9999]	<b>0.0175983</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0022148	0.004724	<b>0.0060212</b>	[9999]	<b>0.004724</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0082508	0.0175983	<b>0.0082508</b>	[9999]	<b>0.2873806</b>	[1231]
				Vertical Minimum	0.0721570	0.0008724	0.0022148	0.004724	<b>0.0743718</b>	[4759]	<b>0.004724</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0101487	0.0216464	<b>0.0386117</b>	[9168]	<b>0.0216464</b>	[9999]
				Lateral Minimum	0.0076128	0.0010731	0.0027243	0.0058106	<b>0.0103371</b>	[9999]	<b>0.0058106</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0101487	0.0216464	<b>0.0101487</b>	[9999]	<b>0.2914287</b>	[1214]
				Vertical Minimum	0.0721570	0.0010731	0.0027243	0.0058106	<b>0.0748813</b>	[4727]	<b>0.0058106</b>	[9999]
<b>10</b>	5.41493	2.32124	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0075439	0.0175983	<b>0.0217754</b>	[9999]	<b>0.0175983</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0020251	0.004724	<b>0.0058315</b>	[9999]	<b>0.004724</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0075439	0.0175983	<b>0.0075439</b>	[9999]	<b>0.2873806</b>	[1231]
				Vertical Minimum	0.0721570	0.0008724	0.0020251	0.004724	<b>0.0741821</b>	[4772]	<b>0.004724</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0092793	0.0216464	<b>0.0377422</b>	[9379]	<b>0.0216464</b>	[9999]
				Lateral Minimum	0.0076128	0.0010731	0.0024909	0.0058106	<b>0.0101037</b>	[9999]	<b>0.0058106</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0092793	0.0216464	<b>0.0092793</b>	[9999]	<b>0.2914287</b>	[1214]
				Vertical Minimum	0.0721570	0.0010731	0.0024909	0.0058106	<b>0.0746479</b>	[4742]	<b>0.0058106</b>	[9999]
<b>11</b>	6.41493	2.32124	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0075439	0.0208482	<b>0.0217754</b>	[9999]	<b>0.0208482</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0020251	0.0055964	<b>0.0058315</b>	[9999]	<b>0.0055964</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0075439	0.0208482	<b>0.0075439</b>	[9999]	<b>0.2906306</b>	[1218]
				Vertical Minimum	0.0721570	0.0008724	0.0020251	0.0055964	<b>0.0741821</b>	[4772]	<b>0.0055964</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0092793	0.0256439	<b>0.0377422</b>	[9379]	<b>0.0256439</b>	[9999]
				Lateral Minimum	0.0076128	0.0010731	0.0024909	0.0068837	<b>0.0101037</b>	[9999]	<b>0.0068837</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0092793	0.0256439	<b>0.0092793</b>	[9999]	<b>0.2954262</b>	[1198]
				Vertical Minimum	0.0721570	0.0010731	0.0024909	0.0068837	<b>0.0746479</b>	[4742]	<b>0.0068837</b>	[9999]
<b>12</b>	7.41493	2.32124	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0075439	0.0240982	<b>0.0217754</b>	[9999]	<b>0.0240982</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0020251	0.0064688	<b>0.0058315</b>	[9999]	<b>0.0064688</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0075439	0.0240982	<b>0.0075439</b>	[9999]	<b>0.2938805</b>	[1204]
				Vertical Minimum	0.0721570	0.0008724	0.0020251	0.0064688	<b>0.0741821</b>	[4772]	<b>0.0064688</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0092793	0.0296414	<b>0.0377422</b>	[9379]	<b>0.0296414</b>	[9999]



				Lateral Minimum	0.0076128	0.0010731	0.0024909	0.0079568	<b>0.0101037</b>	[9999]	<b>0.0079568</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0092793	0.0296414	<b>0.0092793</b>	[9999]	<b>0.2994238</b>	[1182]
				Vertical Minimum	0.0721570	0.0010731	0.0024909	0.0079568	<b>0.0746479</b>	[4742]	<b>0.0079568</b>	[9999]
<b>13</b>	<b>7.41493</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0046027	0.0240982	<b>0.0188342</b>	[9999]	<b>0.0240982</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0012355	0.0064688	<b>0.0050419</b>	[9999]	<b>0.0064688</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0046027	0.0240982	<b>0.0046027</b>	[9999]	<b>0.2938805</b>	[1204]
				Vertical Minimum	0.0721570	0.0008724	0.0012355	0.0064688	<b>0.0733926</b>	[4823]	<b>0.0064688</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0056615	0.0296414	<b>0.0341244</b>	[9999]	<b>0.0296414</b>	[9999]
				Lateral Minimum	0.0076128	0.0010731	0.0015197	0.0079568	<b>0.0091325</b>	[9999]	<b>0.0079568</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0056615	0.0296414	<b>0.0056615</b>	[9999]	<b>0.2994238</b>	[1182]
				Vertical Minimum	0.0721570	0.0010731	0.0015197	0.0079568	<b>0.0736768</b>	[4804]	<b>0.0079568</b>	[9999]
<b>14</b>	<b>10.8049</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0046027	0.0351156	<b>0.0188342</b>	[9999]	<b>0.0351156</b>	[9999]
				Lateral Minimum	0.0038064	0.0008724	0.0012355	0.0094262	<b>0.0050419</b>	[9999]	<b>0.0094262</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0046027	0.0351156	<b>0.0046027</b>	[9999]	<b>0.3048979</b>	[1161]
				Vertical Minimum	0.0721570	0.0008724	0.0012355	0.0094262	<b>0.0733926</b>	[4823]	<b>0.0094262</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0056615	0.0431931	<b>0.0341244</b>	[9999]	<b>0.0431931</b>	[8195]
				Lateral Minimum	0.0076128	0.0010731	0.0015197	0.0115945	<b>0.0091325</b>	[9999]	<b>0.0115945</b>	[9999]
				Vertical Maximum	0.2697823	0.0039975	0.0056615	0.0431931	<b>0.0056615</b>	[9999]	<b>0.3129754</b>	[1131]
				Vertical Minimum	0.0721570	0.0010731	0.0015197	0.0115945	<b>0.0736768</b>	[4804]	<b>0.0115945</b>	[9999]
<b>15</b>	<b>38.0974</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0046027	0.1238150	<b>0.0188342</b>	[9999]	<b>0.1238150</b>	[2859]
				Lateral Minimum	0.0038064	0.0008724	0.0012355	0.0332363	<b>0.0050419</b>	[9999]	<b>0.0332363</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0046027	0.1238150	<b>0.0046027</b>	[9999]	<b>0.3935974</b>	[899]
				Vertical Minimum	0.0721570	0.0008724	0.0012355	0.0332363	<b>0.0733926</b>	[4823]	<b>0.0332363</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0056615	0.1522958	<b>0.0341244</b>	[9999]	<b>0.1522958</b>	[2324]
				Lateral Minimum	0.0076128	0.0010731	0.0015197	0.0408815	<b>0.0091325</b>	[9999]	<b>0.0408815</b>	[8659]
				Vertical Maximum	0.2697823	0.0039975	0.0056615	0.1522958	<b>0.0056615</b>	[9999]	<b>0.4220781</b>	[838]
				Vertical Minimum	0.0721570	0.0010731	0.0015197	0.0408815	<b>0.0736768</b>	[4804]	<b>0.0408815</b>	[8659]
<b>16</b>	<b>38.0974</b>	<b>1.60875</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0052284	0.1238150	<b>0.0194598</b>	[9999]	<b>0.1238150</b>	[2859]
				Lateral Minimum	0.0038064	0.0008724	0.0014035	0.0332363	<b>0.0052099</b>	[9999]	<b>0.0332363</b>	[9999]
				Vertical Maximum	0.2697823	0.00325	0.0052284	0.1238150	<b>0.0052284</b>	[9999]	<b>0.3935974</b>	[899]
				Vertical Minimum	0.0721570	0.0008724	0.0014035	0.0332363	<b>0.0735605</b>	[4812]	<b>0.0332363</b>	[9999]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0064310	0.1522958	<b>0.0348939</b>	[9999]	<b>0.1522958</b>	[2324]
				Lateral Minimum	0.0076128	0.0010731	0.0017263	0.0408815	<b>0.0093391</b>	[9999]	<b>0.0408815</b>	[8659]
				Vertical Maximum	0.2697823	0.0039975	0.0064310	0.1522958	<b>0.0064310</b>	[9999]	<b>0.4220781</b>	[838]
				Vertical Minimum	0.0721570	0.0010731	0.0017263	0.0408815	<b>0.0738833</b>	[4791]	<b>0.0408815</b>	[8659]
<b>17</b>	<b>41.4624</b>	<b>1.60875</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0052284	0.1347512	<b>0.0194598</b>	[9999]	<b>0.1347512</b>	[2627]
				Lateral Minimum	0.0038064	0.0008724	0.0014035	0.0361719	<b>0.0052099</b>	[9999]	<b>0.0361719</b>	[9786]
				Vertical Maximum	0.2697823	0.00325	0.0052284	0.1347512	<b>0.0052284</b>	[9999]	<b>0.4045335</b>	[875]
				Vertical Minimum	0.0721570	0.0008724	0.0014035	0.0361719	<b>0.0735605</b>	[4812]	<b>0.0361719</b>	[9786]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0064310	0.1657475	<b>0.0348939</b>	[9999]	<b>0.1657475</b>	[2135]
				Lateral Minimum	0.0076128	0.0010731	0.0017263	0.0444924	<b>0.0093391</b>	[9999]	<b>0.0444924</b>	[7956]
				Vertical Maximum	0.2697823	0.0039975	0.0064310	0.1657475	<b>0.0064310</b>	[9999]	<b>0.4355298</b>	[812]
				Vertical Minimum	0.0721570	0.0010731	0.0017263	0.0444924	<b>0.0738833</b>	[4791]	<b>0.0444924</b>	[7956]
<b>18</b>	<b>44.8274</b>	<b>1.60875</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0052284	0.1456873	<b>0.0194598</b>	[9999]	<b>0.1456873</b>	[2429]
				Lateral Minimum	0.0038064	0.0008724	0.0014035	0.0391075	<b>0.0052099</b>	[9999]	<b>0.0391075</b>	[9051]
				Vertical Maximum	0.2697823	0.00325	0.0052284	0.1456873	<b>0.0052284</b>	[9999]	<b>0.4154696</b>	[852]
				Vertical Minimum	0.0721570	0.0008724	0.0014035	0.0391075	<b>0.0735605</b>	[4812]	<b>0.0391075</b>	[9051]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0064310	0.1791992	<b>0.0348939</b>	[9999]	<b>0.1791992</b>	[1975]
				Lateral Minimum	0.0076128	0.0010731	0.0017263	0.0481033	<b>0.0093391</b>	[9999]	<b>0.0481033</b>	[7359]
				Vertical Maximum	0.2697823	0.0039975	0.0064310	0.1791992	<b>0.0064310</b>	[9999]	<b>0.4489815</b>	[788]
				Vertical Minimum	0.0721570	0.0010731	0.0017263	0.0481033	<b>0.0738833</b>	[4791]	<b>0.0481033</b>	[7359]
<b>19</b>	<b>44.8274</b>	<b>1.41624</b>	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0046027	0.1456873	<b>0.0188342</b>	[9999]	<b>0.1456873</b>	[2429]

				Lateral Minimum	0.0038064	0.0008724	0.0012355	0.0391075	<b>0.0050419</b>	[9999]	<b>0.0391075</b>	[9051]
				Vertical Maximum	0.2697823	0.00325	0.0046027	0.1456873	<b>0.0046027</b>	[9999]	<b>0.4154696</b>	[852]
				Vertical Minimum	0.0721570	0.0008724	0.0012355	0.0391075	<b>0.0733926</b>	[4823]	<b>0.0391075</b>	[9051]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0056615	0.1791992	<b>0.0341244</b>	[9999]	<b>0.1791992</b>	[1975]
				Lateral Minimum	0.0076128	0.0010731	0.0015197	0.0481033	<b>0.0091325</b>	[9999]	<b>0.0481033</b>	[7359]
				Vertical Maximum	0.2697823	0.0039975	0.0056615	0.1791992	<b>0.0056615</b>	[9999]	<b>0.4489815</b>	[788]
				Vertical Minimum	0.0721570	0.0010731	0.0015197	0.0481033	<b>0.0736768</b>	[4804]	<b>0.0481033</b>	[7359]
<b>20</b>	55.9624	1.41624	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0046027	0.1818756	<b>0.0188342</b>	[9999]	<b>0.1818756</b>	[1946]
				Lateral Minimum	0.0038064	0.0008724	0.0012355	0.0488217	<b>0.0050419</b>	[9999]	<b>0.0488217</b>	[7250]
				Vertical Maximum	0.2697823	0.00325	0.0046027	0.1818756	<b>0.0046027</b>	[9999]	<b>0.4516579</b>	[783]
				Vertical Minimum	0.0721570	0.0008724	0.0012355	0.0488217	<b>0.0733926</b>	[4823]	<b>0.0488217</b>	[7250]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0056615	0.2237118	<b>0.0341244</b>	[9999]	<b>0.2237118</b>	[1582]
				Lateral Minimum	0.0076128	0.0010731	0.0015197	0.0600520	<b>0.0091325</b>	[9999]	<b>0.0600520</b>	[5894]
				Vertical Maximum	0.2697823	0.0039975	0.0056615	0.2237118	<b>0.0056615</b>	[9999]	<b>0.4934941</b>	[717]
				Vertical Minimum	0.0721570	0.0010731	0.0015197	0.0600520	<b>0.0736768</b>	[4804]	<b>0.0600520</b>	[5894]
<b>21</b>	55.9624	1.29124	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0041965	0.1818756	<b>0.018428</b>	[9999]	<b>0.1818756</b>	[1946]
				Lateral Minimum	0.0038064	0.0008724	0.0011265	0.0488217	<b>0.0049329</b>	[9999]	<b>0.0488217</b>	[7250]
				Vertical Maximum	0.2697823	0.00325	0.0041965	0.1818756	<b>0.0041965</b>	[9999]	<b>0.4516579</b>	[783]
				Vertical Minimum	0.0721570	0.0008724	0.0011265	0.0488217	<b>0.0732835</b>	[4830]	<b>0.0488217</b>	[7250]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0051618	0.2237118	<b>0.0336247</b>	[9999]	<b>0.2237118</b>	[1582]
				Lateral Minimum	0.0076128	0.0010731	0.0013856	0.0600520	<b>0.0089984</b>	[9999]	<b>0.0600520</b>	[5894]
				Vertical Maximum	0.2697823	0.0039975	0.0051618	0.2237118	<b>0.0051618</b>	[9999]	<b>0.4934941</b>	[717]
				Vertical Minimum	0.0721570	0.0010731	0.0013856	0.0600520	<b>0.0735426</b>	[4813]	<b>0.0600520</b>	[5894]
<b>22</b>	57.2124	1.29124	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0041965	0.1859380	<b>0.018428</b>	[9999]	<b>0.1859380</b>	[1903]
				Lateral Minimum	0.0038064	0.0008724	0.0011265	0.0499122	<b>0.0049329</b>	[9999]	<b>0.0499122</b>	[7092]
				Vertical Maximum	0.2697823	0.00325	0.0041965	0.1859380	<b>0.0041965</b>	[9999]	<b>0.4557203</b>	[776]
				Vertical Minimum	0.0721570	0.0008724	0.0011265	0.0499122	<b>0.0732835</b>	[4830]	<b>0.0499122</b>	[7092]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0051618	0.2287087	<b>0.0336247</b>	[9999]	<b>0.2287087</b>	[1547]
				Lateral Minimum	0.0076128	0.0010731	0.0013856	0.0613934	<b>0.0089984</b>	[9999]	<b>0.0613934</b>	[5766]
				Vertical Maximum	0.2697823	0.0039975	0.0051618	0.2287087	<b>0.0051618</b>	[9999]	<b>0.4984910</b>	[710]
				Vertical Minimum	0.0721570	0.0010731	0.0013856	0.0613934	<b>0.0735426</b>	[4813]	<b>0.0613934</b>	[5766]
<b>23</b>	58.3374	1.29124	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0041965	0.1895942	<b>0.018428</b>	[9999]	<b>0.1895942</b>	[1867]
				Lateral Minimum	0.0038064	0.0008724	0.0011265	0.0508937	<b>0.0049329</b>	[9999]	<b>0.0508937</b>	[6955]
				Vertical Maximum	0.2697823	0.00325	0.0041965	0.1895942	<b>0.0041965</b>	[9999]	<b>0.4593765</b>	[770]
				Vertical Minimum	0.0721570	0.0008724	0.0011265	0.0508937	<b>0.0732835</b>	[4830]	<b>0.0508937</b>	[6955]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0051618	0.2332059	<b>0.0336247</b>	[9999]	<b>0.2332059</b>	[1517]
				Lateral Minimum	0.0076128	0.0010731	0.0013856	0.0626006	<b>0.0089984</b>	[9999]	<b>0.0626006</b>	[5654]
				Vertical Maximum	0.2697823	0.0039975	0.0051618	0.2332059	<b>0.0051618</b>	[9999]	<b>0.5029882</b>	[703]
				Vertical Minimum	0.0721570	0.0010731	0.0013856	0.0626006	<b>0.0735426</b>	[4813]	<b>0.0626006</b>	[5654]
<b>24</b>	58.3374	1.27126	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0041315	0.1895942	<b>0.018363</b>	[9999]	<b>0.1895942</b>	[1867]
				Lateral Minimum	0.0038064	0.0008724	0.0011090	0.0508937	<b>0.0049154</b>	[9999]	<b>0.0508937</b>	[6955]
				Vertical Maximum	0.2697823	0.00325	0.0041315	0.1895942	<b>0.0041315</b>	[9999]	<b>0.4593765</b>	[770]
				Vertical Minimum	0.0721570	0.0008724	0.0011090	0.0508937	<b>0.0732661</b>	[4831]	<b>0.0508937</b>	[6955]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0050819	0.2332059	<b>0.0335448</b>	[9999]	<b>0.2332059</b>	[1517]
				Lateral Minimum	0.0076128	0.0010731	0.0013642	0.0626006	<b>0.008977</b>	[9999]	<b>0.0626006</b>	[5654]
				Vertical Maximum	0.2697823	0.0039975	0.0050819	0.2332059	<b>0.0050819</b>	[9999]	<b>0.5029882</b>	[703]
				Vertical Minimum	0.0721570	0.0010731	0.0013642	0.0626006	<b>0.0735212</b>	[4814]	<b>0.0626006</b>	[5654]
<b>25</b>	44.8274	15.2512	<b>1</b>	Lateral Maximum	0.0142315	0.00325	0.0495659	0.1456873	<b>0.0637974</b>	[5548]	<b>0.1456873</b>	[2429]
				Lateral Minimum	0.0038064	0.0008724	0.0133052	0.0391075	<b>0.0171116</b>	[9999]	<b>0.0391075</b>	[9051]
				Vertical Maximum	0.2697823	0.00325	0.0495659	0.1456873	<b>0.0495659</b>	[7142]	<b>0.4154696</b>	[852]
				Vertical Minimum	0.0721570	0.0008724	0.0133052	0.0391075	<b>0.0854622</b>	[4142]	<b>0.0391075</b>	[9051]
			<b>2</b>	Lateral Maximum	0.0284629	0.0039975	0.0609674	0.1791992	<b>0.0894303</b>	[3958]	<b>0.1791992</b>	[1975]



01	7.41493	40.8587	2	Lateral Maximum	0.0076128	0.0010731	0.0438446	0.0079568	<b>0.0514574</b>	[6879]	<b>0.0079568</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0438446	0.0079568	<b>0.0438446</b>	[8073]	<b>0.0801138</b>	[4418]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
02	0.53757	40.8587	1	Lateral Maximum	0.0038064	0.0008724	0.0356452	0.000469	<b>0.0394516</b>	[8973]	<b>0.000469</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0356452	0.000469	<b>0.0356452</b>	[9931]	<b>0.0726260</b>	[4874]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0438446	0.0005769	<b>0.0514574</b>	[6879]	<b>0.0005769</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0438446	0.0005769	<b>0.0438446</b>	[8073]	<b>0.0727339</b>	[4867]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
03	8.49007	40.8587	1	Lateral Maximum	0.0038064	0.0008724	0.0356452	0.0074068	<b>0.0394516</b>	[8973]	<b>0.0074068</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0356452	0.0074068	<b>0.0356452</b>	[9931]	<b>0.0795638</b>	[4449]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0438446	0.0091105	<b>0.0514574</b>	[6879]	<b>0.0091105</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0438446	0.0091105	<b>0.0438446</b>	[8073]	<b>0.0812675</b>	[4355]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
04	0.53757	31.7637	1	Lateral Maximum	0.0038064	0.0008724	0.0277107	0.000469	<b>0.0315171</b>	[9999]	<b>0.000469</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0277107	0.000469	<b>0.0277107</b>	[9999]	<b>0.0726260</b>	[4874]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.034085	0.0005769	<b>0.0416978</b>	[8489]	<b>0.0005769</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.034085	0.0005769	<b>0.034085</b>	[9999]	<b>0.0727339</b>	[4867]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
05	0.53757	21.3737	1	Lateral Maximum	0.0038064	0.0008724	0.0186465	0.000469	<b>0.0224529</b>	[9999]	<b>0.000469</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0186465	0.000469	<b>0.0186465</b>	[9999]	<b>0.0726260</b>	[4874]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0229357	0.0005769	<b>0.0305485</b>	[9999]	<b>0.0005769</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0229357	0.0005769	<b>0.0229357</b>	[9999]	<b>0.0727339</b>	[4867]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
06	0.53757	11.7637	1	Lateral Maximum	0.0038064	0.0008724	0.0102627	0.000469	<b>0.0140691</b>	[9999]	<b>0.000469</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0102627	0.000469	<b>0.0102627</b>	[9999]	<b>0.0726260</b>	[4874]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0126234	0.0005769	<b>0.0202362</b>	[9999]	<b>0.0005769</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0126234	0.0005769	<b>0.0126234</b>	[9999]	<b>0.0727339</b>	[4867]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
07	8.49007	2.50874	1	Lateral Maximum	0.0038064	0.0008724	0.0021886	0.0074068	<b>0.0059950</b>	[9999]	<b>0.0074068</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0021886	0.0074068	<b>0.0021886</b>	[9999]	<b>0.0795638</b>	[4449]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0026921	0.0091105	<b>0.0103049</b>	[9999]	<b>0.0091105</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0026921	0.0091105	<b>0.0026921</b>	[9999]	<b>0.0812675</b>	[4355]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A

08	0.53757	2.50874	1	Lateral Maximum	0.0038064	0.0008724	0.0021886	0.000469	<b>0.0059950</b>	[9999]	<b>0.000469</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0021886	0.000469	<b>0.0021886</b>	[9999]	<b>0.0726260</b>	[4874]
			Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0026921	0.0005769	<b>0.0103049</b>	[9999]	<b>0.0005769</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
Vertical Maximum	0.0721570	0.0010731		0.0026921	0.0005769	<b>0.0026921</b>	[9999]	<b>0.0727339</b>	[4867]			
Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A				
09	5.41493	2.53875	1	Lateral Maximum	0.0038064	0.0008724	0.0022148	0.004724	<b>0.0060212</b>	[9999]	<b>0.004724</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0022148	0.004724	<b>0.0022148</b>	[9999]	<b>0.0768810</b>	[4604]
			Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0027243	0.0058106	<b>0.0103371</b>	[9999]	<b>0.0058106</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
Vertical Maximum	0.0721570	0.0010731		0.0027243	0.0058106	<b>0.0027243</b>	[9999]	<b>0.0779677</b>	[4540]			
Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A				
10	5.41493	2.32124	1	Lateral Maximum	0.0038064	0.0008724	0.0020251	0.004724	<b>0.0058315</b>	[9999]	<b>0.004724</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0020251	0.004724	<b>0.0020251</b>	[9999]	<b>0.0768810</b>	[4604]
			Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0024909	0.0058106	<b>0.0101037</b>	[9999]	<b>0.0058106</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
Vertical Maximum	0.0721570	0.0010731		0.0024909	0.0058106	<b>0.0024909</b>	[9999]	<b>0.0779677</b>	[4540]			
Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A				
11	6.41493	2.32124	1	Lateral Maximum	0.0038064	0.0008724	0.0020251	0.0055964	<b>0.0058315</b>	[9999]	<b>0.0055964</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0020251	0.0055964	<b>0.0020251</b>	[9999]	<b>0.0777534</b>	[4552]
			Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0024909	0.0068837	<b>0.0101037</b>	[9999]	<b>0.0068837</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
Vertical Maximum	0.0721570	0.0010731		0.0024909	0.0068837	<b>0.0024909</b>	[9999]	<b>0.0790407</b>	[4478]			
Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A				
12	7.41493	2.32124	1	Lateral Maximum	0.0038064	0.0008724	0.0020251	0.0064688	<b>0.0058315</b>	[9999]	<b>0.0064688</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0020251	0.0064688	<b>0.0020251</b>	[9999]	<b>0.0786258</b>	[4502]
			Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0024909	0.0079568	<b>0.0101037</b>	[9999]	<b>0.0079568</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
Vertical Maximum	0.0721570	0.0010731		0.0024909	0.0079568	<b>0.0024909</b>	[9999]	<b>0.0801138</b>	[4418]			
Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A				
13	7.41493	1.41624	1	Lateral Maximum	0.0038064	0.0008724	0.0012355	0.0064688	<b>0.0050419</b>	[9999]	<b>0.0064688</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0012355	0.0064688	<b>0.0012355</b>	[9999]	<b>0.0786258</b>	[4502]
			Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0015197	0.0079568	<b>0.0091325</b>	[9999]	<b>0.0079568</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
Vertical Maximum	0.0721570	0.0010731		0.0015197	0.0079568	<b>0.0015197</b>	[9999]	<b>0.0801138</b>	[4418]			
Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A				
14	10.8049	1.41624	1	Lateral Maximum	0.0038064	0.0008724	0.0012355	0.0094262	<b>0.0050419</b>	[9999]	<b>0.0094262</b>	[9999]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0012355	0.0094262	<b>0.0012355</b>	[9999]	<b>0.0815833</b>	[4339]
				Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A

14	10.8049	1.41624	2	Lateral Maximum	0.0076128	0.0010731	0.0015197	0.0115945	<b>0.0091325</b>	[9999]	<b>0.0115945</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0010731	0.0015197	0.0115945	<b>0.0015197</b>	[9999]	<b>0.0837516</b>	[4226]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
15	38.0974	1.41624	1	Lateral Maximum	0.0038064	0.0008724	0.0012355	0.0332363	<b>0.0050419</b>	[9999]	<b>0.0332363</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0012355	0.0332363	<b>0.0012355</b>	[9999]	<b>0.1053933</b>	[3358]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0015197	0.0408815	<b>0.0091325</b>	[9999]	<b>0.0408815</b>	[8659]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0015197	0.0408815	<b>0.0015197</b>	[9999]	<b>0.1130385</b>	[3131]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
16	38.0974	1.60875	1	Lateral Maximum	0.0038064	0.0008724	0.0014035	0.0332363	<b>0.0052099</b>	[9999]	<b>0.0332363</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0014035	0.0332363	<b>0.0014035</b>	[9999]	<b>0.1053933</b>	[3358]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0017263	0.0408815	<b>0.0093391</b>	[9999]	<b>0.0408815</b>	[8659]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0017263	0.0408815	<b>0.0017263</b>	[9999]	<b>0.1130385</b>	[3131]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
17	41.4624	1.60875	1	Lateral Maximum	0.0038064	0.0008724	0.0014035	0.0361719	<b>0.0052099</b>	[9999]	<b>0.0361719</b>	[9786]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0014035	0.0361719	<b>0.0014035</b>	[9999]	<b>0.1083289</b>	[3267]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0017263	0.0444924	<b>0.0093391</b>	[9999]	<b>0.0444924</b>	[7956]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0017263	0.0444924	<b>0.0017263</b>	[9999]	<b>0.1166494</b>	[3034]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
18	44.8274	1.60875	1	Lateral Maximum	0.0038064	0.0008724	0.0014035	0.0391075	<b>0.0052099</b>	[9999]	<b>0.0391075</b>	[9051]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0014035	0.0391075	<b>0.0014035</b>	[9999]	<b>0.1112646</b>	[3181]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0017263	0.0481033	<b>0.0093391</b>	[9999]	<b>0.0481033</b>	[7359]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0017263	0.0481033	<b>0.0017263</b>	[9999]	<b>0.1202603</b>	[2943]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
19	44.8274	1.41624	1	Lateral Maximum	0.0038064	0.0008724	0.0012355	0.0391075	<b>0.0050419</b>	[9999]	<b>0.0391075</b>	[9051]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0012355	0.0391075	<b>0.0012355</b>	[9999]	<b>0.1112646</b>	[3181]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0015197	0.0481033	<b>0.0091325</b>	[9999]	<b>0.0481033</b>	[7359]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0015197	0.0481033	<b>0.0015197</b>	[9999]	<b>0.1202603</b>	[2943]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
20	55.9624	1.41624	1	Lateral Maximum	0.0038064	0.0008724	0.0012355	0.0488217	<b>0.0050419</b>	[9999]	<b>0.0488217</b>	[7250]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0012355	0.0488217	<b>0.0012355</b>	[9999]	<b>0.1209788</b>	[2926]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A
			2	Lateral Maximum	0.0076128	0.0010731	0.0015197	0.0600520	<b>0.0091325</b>	[9999]	<b>0.0600520</b>	[5894]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0015197	0.0600520	<b>0.0015197</b>	[9999]	<b>0.1322090</b>	[2677]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A

21	55.9624	1.29124	1	Lateral Maximum	0.0038064	0.0008724	0.0011265	0.0488217	<b>0.0049329</b>	[9999]	<b>0.0488217</b>	[7250]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0008724	0.0011265	0.0488217	<b>0.0011265</b>	[9999]	<b>0.1209788</b>	[2926]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0013856	0.0600520	<b>0.0089984</b>	[9999]	<b>0.0600520</b>	[5894]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
Vertical Maximum	0.0721570	0.0010731		0.0013856	0.0600520	<b>0.0013856</b>	[9999]	<b>0.1322090</b>	[2677]			
Vertical Minimum	0	0		0	0	0	N/A	0	N/A			
22	57.2124	1.29124	1	Lateral Maximum	0.0038064	0.0008724	0.0011265	0.0499122	<b>0.0049329</b>	[9999]	<b>0.0499122</b>	[7092]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0008724	0.0011265	0.0499122	<b>0.0011265</b>	[9999]	<b>0.1220693</b>	[2899]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0013856	0.0613934	<b>0.0089984</b>	[9999]	<b>0.0613934</b>	[5766]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
Vertical Maximum	0.0721570	0.0010731		0.0013856	0.0613934	<b>0.0013856</b>	[9999]	<b>0.1335504</b>	[2650]			
Vertical Minimum	0	0		0	0	0	N/A	0	N/A			
23	58.3374	1.29124	1	Lateral Maximum	0.0038064	0.0008724	0.0011265	0.0508937	<b>0.0049329</b>	[9999]	<b>0.0508937</b>	[6955]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0008724	0.0011265	0.0508937	<b>0.0011265</b>	[9999]	<b>0.1230507</b>	[2876]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0013856	0.0626006	<b>0.0089984</b>	[9999]	<b>0.0626006</b>	[5654]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
Vertical Maximum	0.0721570	0.0010731		0.0013856	0.0626006	<b>0.0013856</b>	[9999]	<b>0.1347576</b>	[2626]			
Vertical Minimum	0	0		0	0	0	N/A	0	N/A			
24	58.3374	1.27126	1	Lateral Maximum	0.0038064	0.0008724	0.0011090	0.0508937	<b>0.0049154</b>	[9999]	<b>0.0508937</b>	[6955]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0008724	0.0011090	0.0508937	<b>0.0011090</b>	[9999]	<b>0.1230507</b>	[2876]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0013642	0.0626006	<b>0.008977</b>	[9999]	<b>0.0626006</b>	[5654]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
Vertical Maximum	0.0721570	0.0010731		0.0013642	0.0626006	<b>0.0013642</b>	[9999]	<b>0.1347576</b>	[2626]			
Vertical Minimum	0	0		0	0	0	N/A	0	N/A			
25	44.8274	15.2512	1	Lateral Maximum	0.0038064	0.0008724	0.0133052	0.0391075	<b>0.0171116</b>	[9999]	<b>0.0391075</b>	[9051]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0008724	0.0133052	0.0391075	<b>0.0133052</b>	[9999]	<b>0.1112646</b>	[3181]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0163658	0.0481033	<b>0.0239786</b>	[9999]	<b>0.0481033</b>	[7359]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
Vertical Maximum	0.0721570	0.0010731		0.0163658	0.0481033	<b>0.0163658</b>	[9999]	<b>0.1202603</b>	[2943]			
Vertical Minimum	0	0		0	0	0	N/A	0	N/A			
26	41.4624	15.2512	1	Lateral Maximum	0.0038064	0.0008724	0.0133052	0.0361719	<b>0.0171116</b>	[9999]	<b>0.0361719</b>	[9786]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
			Vertical Maximum	0.0721570	0.0008724	0.0133052	0.0361719	<b>0.0133052</b>	[9999]	<b>0.1083289</b>	[3267]	
			Vertical Minimum	0	0	0	0	0	N/A	0	N/A	
			2	Lateral Maximum	0.0076128	0.0010731	0.0163658	0.0444924	<b>0.0239786</b>	[9999]	<b>0.0444924</b>	[7956]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
Vertical Maximum	0.0721570	0.0010731		0.0163658	0.0444924	<b>0.0163658</b>	[9999]	<b>0.1166494</b>	[3034]			
Vertical Minimum	0	0		0	0	0	N/A	0	N/A			
27	38.0974	15.2512	1	Lateral Maximum	0.0038064	0.0008724	0.0133052	0.0332363	<b>0.0171116</b>	[9999]	<b>0.0332363</b>	[9999]
				Lateral Minimum	0	0	0	0	0	N/A	0	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0133052	0.0332363	<b>0.0133052</b>	[9999]	<b>0.1053933</b>	[3358]
				Vertical Minimum	0	0	0	0	0	N/A	0	N/A

<b>27</b>	38.0974	15.2512	<b>2</b>	Lateral Maximum	0.0076128	0.0010731	0.0163658	0.0408815	<b>0.0239786</b>	[9999]	<b>0.0408815</b>	[8659]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0163658	0.0408815	<b>0.0163658</b>	[9999]	<b>0.1130385</b>	[3131]
				Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
<b>28</b>	41.4624	6.83775	<b>1</b>	Lateral Maximum	0.0038064	0.0008724	0.0059653	0.0361719	<b>0.0097717</b>	[9999]	<b>0.0361719</b>	[9786]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0008724	0.0059653	0.0361719	<b>0.0059653</b>	[9999]	<b>0.1083289</b>	[3267]
				Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
			<b>2</b>	Lateral Maximum	0.0076128	0.0010731	0.0073374	0.0444924	<b>0.0149502</b>	[9999]	<b>0.0444924</b>	[7956]
				Lateral Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A
				Vertical Maximum	0.0721570	0.0010731	0.0073374	0.0444924	<b>0.0073374</b>	[9999]	<b>0.1166494</b>	[3034]
				Vertical Minimum	0	0	0	0	<b>0</b>	N/A	<b>0</b>	N/A

	X	Y
(Based on L/400) Allowable X deflection =	0.885	
(Based on L/1000) Allowable Y deflection =	0.354	
<b>Extreme Maximum =</b>	<b><u>0.1917972</u></b>	<b><u>0.5029882</u></b>
@ Node =	1	23
From load case =	2	2
Profile/zone	<b><u>OK</u></b>	<b><u>NG</u></b>
<b>Maximum @ Rail top =</b>	<b><u>0.0113592</u></b>	<b><u>0.0727339</u></b>
	<b><u>OK</u></b>	<b><u>OK</u></b>

**Zone overall girder deflection check result**      **NG**  
**Zone rail top deflection check result**      **OK**



## Girder Analysis Result Evaluation Summary

### AISC Lateral Torsional Buckling Strength

Girder Profile Feature = UNSYMMETRICAL  
 Multi-zoned member = YES

[Cb] = 1  
 Lateral Torsional Buckling: Not evaluated

## Girder Analysis Result Evaluation Summary

(List of nodes/segments with overstressed condition and/or with deflection > limit of L/1000 vertical or L/600 lateral)

Design Issues	Profile Zone	Node ID	Seg ID	Load omb Case	Fatigue Load	Calculated Value [CV]	Allowable Value [AV]	Ratio [CV] / [AV]	Note
Vertical deflection	2	15		1		0.394	0.354	1.112	
Vertical deflection	2	16		1		0.394	0.354	1.112	
Vertical deflection	2	17		1		0.405	0.354	1.143	
Vertical deflection	2	18		1		0.415	0.354	1.174	
Vertical deflection	2	19		1		0.415	0.354	1.174	
Vertical deflection	2	20		1		0.452	0.354	1.276	
Vertical deflection	2	21		1		0.452	0.354	1.276	
Vertical deflection	2	22		1		0.456	0.354	1.287	
Vertical deflection	2	23		1		0.459	0.354	1.298	
Vertical deflection	2	24		1		0.459	0.354	1.298	
Vertical deflection	2	25		1		0.415	0.354	1.174	
Vertical deflection	2	26		1		0.405	0.354	1.143	
Vertical deflection	2	27		1		0.394	0.354	1.112	
Vertical deflection	2	28		1		0.405	0.354	1.143	
Vertical deflection	2	15		2		0.422	0.354	1.192	
Vertical deflection	2	16		2		0.422	0.354	1.192	
Vertical deflection	2	17		2		0.436	0.354	1.23	
Vertical deflection	2	18		2		0.449	0.354	1.268	
Vertical deflection	2	19		2		0.449	0.354	1.268	
Vertical deflection	2	20		2		0.493	0.354	1.394	
Vertical deflection	2	21		2		0.493	0.354	1.394	
Vertical deflection	2	22		2		0.498	0.354	1.408	
Vertical deflection	2	23		2		0.503	0.354	1.421	
Vertical deflection	2	24		2		0.503	0.354	1.421	
Vertical deflection	2	25		2		0.449	0.354	1.268	
Vertical deflection	2	26		2		0.436	0.354	1.23	
Vertical deflection	2	27		2		0.422	0.354	1.192	
Vertical deflection	2	28		2		0.436	0.354	1.23	

