

Cold Formed Steel Design Report

Element: \\server18\home\khuntley\Documents\CSTCL Files\CFSD_Beam_Design.pdf

Company:

Description:

User:

Date: 12/May/2021 03:35:12 PM

Software: Cold Formed Steel Design 1.0

GENERAL INFORMATION

Description	Value	Description	Value
Design Criteria	Design	Section Shape	C-Section with lip
Design Code	AISI 17th Edition LRFD	Maximum Section Depth	1.00 Ft
Total Span Length	82.00 Ft	Minimum Section Depth	0.33 Ft
First Node Support	Fixed	Section Width (angles and tubes only)	4.00 ft
Last Node Support	Free	Number Of Solutions	10
Total Load Deflection	L/240.00	Live Load Patterning	Yes
Live Load Deflection	L/360.00	Check Section List	
Maximum Stress Ratio	1.000	Bottom Flange Bracing	20.00, 30.00, 24.00Ft
Bending Coefficient	1.0	-	-
Steel Yield Stress	8640000.00 Lb/Ft^2	-	-

SPAN LENGTH DATA(Unit:Ft)

Span 1	20.00	Span 2	30.00	Span 3	24.00	Span 4	8.00
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LOAD INFORMATION

Loads

Ref. No.	Description	Load Case	Load Type	Dir	Begin Value	Begin Position	End Value	End Position
1	DL1	Dead	Linear	Y	-1.000 (Lb/Ft)	0.000 (Ft)	-1.000 (Lb/Ft)	82.000 (Ft)
2	DL2	Dead	Concen	Y	-8.000 (Lb)	82.00 (Ft)	-	-
3	LL1	Live	Linear	Y	-0.750 (Lb/Ft)	0.000 (Ft)	-0.750 (Lb/Ft)	82.000 (Ft)
4	LL2	Live	Concen	Y	-12.000 (Lb)	35.00 (Ft)	-	-

LOAD COMBINATIONS

Ref. No.	Strength	Ref. No.	Service(Deflections)
1	1.40DL	1	DL Only
2	1.2 DL + 1.6 LL on Odd Spans	2	DL + LL on Odd Spans
3	1.2 DL + 1.6 LL on Even Spans	3	DL + LL on Even Spans
4	1.2 DL + 1.6 LL on Spans-1-2-4	4	DL + LL on Spans-1-2-4
5	1.2 DL + 1.6 LL on Spans-1-2-3	5	DL + LL on Spans-1-2-3
6	1.2 DL + 1.6 LL on Spans-1-3-4	6	DL + LL on Spans-1-3-4
7	1.00DL + 1.00LL + 1.00WL + 1.00SL + 1.00EL	7	

ELEMENT REPORTS

Note: Deflections are calculated based on $E*I = 1e+3 \text{ In}^2$

SPAN 1

Load Comb	Node No.	Inflection Points (Ft)	Axial (Lb)	Shear (Lb)	Moment (Lb-Ft)	Max Moment (Lb-Ft)	Distance (Ft)	Max Deflection (Ft)	Distance (Ft)
1	1	2.628	0.000	10.358	-22.386	15.930	7.398	0.055	16.315
	2	12.169	0.000	-17.642	-95.229				
2	1	4.197	0.000	23.834	-78.894	39.453	9.931	-0.140	9.930
	2	15.665	0.000	-24.166	-82.212				
3	1	8.022	0.000	-1.027	46.849	0.000	0.000	0.317	14.075
	2	20.000	0.000	-25.027	-213.698				
4	1	0.472	0.000	12.871	-5.804	28.707	5.363	0.220	15.129
	2	10.254	0.000	-35.129	-228.392				
5	1	1.126	0.000	14.164	-14.424	27.369	5.902	0.185	15.356
	2	10.677	0.000	-33.836	-211.151				
6	1	4.154	0.000	23.599	-77.327	38.697	9.833	-0.134	9.827
	2	15.512	0.000	-24.401	-85.347				
7	1	1.275	0.000	10.555	-12.033	19.798	6.031	0.129	15.418
	2	10.788	0.000	-24.445	-150.934				

SPAN 2

Load Comb	Node No.	Inflection Points (Ft)	Axial (Lb)	Shear (Lb)	Moment (Lb-Ft)	Max Moment (Lb-Ft)	Distance (Ft)	Max Deflection (Ft)	Distance (Ft)
1	2	5.313	0.000	21.642	-95.229	72.042	15.458	-0.740	15.334
	3	25.603	0.000	-20.358	-75.981				
2	2	6.004	0.000	17.295	-82.212	42.419	14.412	-0.321	14.376
	3	22.821	0.000	-18.705	-103.363				
3	2	5.167	0.000	47.560	-213.698	229.698	15.000	-2.216	15.322
	3	26.013	0.000	-43.640	-154.906				
4	2	5.491	0.000	48.186	-228.392	224.392	15.000	-2.132	15.435
	3	26.061	0.000	-43.014	-150.824				
5	2	5.350	0.000	45.887	-211.151	207.151	15.000	-1.849	15.052
	3	24.819	0.000	-45.313	-202.547				
6	2	6.064	0.000	17.713	-85.347	45.381	14.761	-0.370	14.763
	3	23.458	0.000	-18.287	-93.959				

7	2 3	5.370 25.101	0.000 0.000	32.805 -31.695	-150.934 -134.282	144.267	15.000	-1.320	15.145
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SPAN 3

Load Comb	Node No.	Inflection Points (Ft)	Axial (Lb)	Shear (Lb)	Moment (Lb-Ft)	Max Moment (Lb-Ft)	Distance (Ft)	Max Deflection (Ft)	Distance (Ft)
1	3 4	0.000 24.000	0.000 0.000	14.366 -19.234	-75.981 -134.400	-2.274	10.261	0.243	16.245
2	3 4	4.516 19.073	0.000 0.000	28.307 -29.293	-103.363 -115.200	63.569	11.795	-0.360	11.814
3	3 4	0.000 24.000	0.000 0.000	14.454 -14.346	-154.906 -153.600	-67.852	12.045	0.853	11.981
4	3 4	0.000 24.000	0.000 0.000	14.284 -14.516	-150.824 -153.600	-65.807	11.904	0.832	12.042
5	3 4	9.787 17.245	0.000 0.000	32.439 -25.161	-202.547 -115.200	16.686	13.516	0.229	5.650
6	3 4	4.490 17.439	0.000 0.000	26.315 -31.285	-93.959 -153.600	50.307	10.965	-0.215	10.806
7	3 4	0.000 24.000	0.000 0.000	21.595 -20.405	-134.282 -120.000	-1.040	12.340	0.234	8.972

SPAN 4

Load Comb	Node No.	Inflection Points (Ft)	Axial (Lb)	Shear (Lb)	Moment (Lb-Ft)	Max Moment (Lb-Ft)	Distance (Ft)	Max Deflection (Ft)	Distance (Ft)
1	4 5	0.000 8.000	0.000 0.000	22.400 11.200	-134.400 0.000	0.000	0.000	-1.038	8.000
2	4 5	0.000 8.000	0.000 0.000	19.200 9.600	-115.200 0.000	-0.001	8.000	-0.270	8.000
3	4 5	0.000 8.000	0.000 0.000	28.800 9.600	-153.600 0.000	-0.001	8.000	-1.746	8.000
4	4 5	0.000 8.000	0.000 0.000	28.800 9.600	-153.600 0.000	-0.001	8.000	-1.727	8.000
5	4 5	0.000 8.000	0.000 0.000	19.200 9.600	-115.200 0.000	-0.001	8.000	-0.727	8.000
6	4 5	0.000 8.000	0.000 0.000	28.800 9.600	-153.600 0.000	-0.001	8.000	-0.669	8.000
7	4 5	0.000 8.000	0.000 0.000	22.000 8.000	-120.000 0.000	-0.001	8.000	-0.889	8.000

REACTIONS

Node No.	Load Comb	PX (Lb)	PY (Lb)	Moment (Lb-Ft)
1	LC1: 1.40DL	0.000	10.358	22.386
	LC2: 1.2 DL + 1.6 LL on Odd Spans	0.000	23.834	78.894
	LC3: 1.2 DL + 1.6 LL on Even Spans	0.000	-1.027	-46.849
	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4	0.000	12.871	5.804
	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3	0.000	14.164	14.424
	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4	0.000	23.599	77.327
	LC18: 1.00DL + 1.00LL + 1.00WL + 1.00SL + 1.00EL	0.000	10.555	12.033
2	LC1: 1.40DL	0.000	39.284	0.000
	LC2: 1.2 DL + 1.6 LL on Odd Spans	0.000	41.461	0.000
	LC3: 1.2 DL + 1.6 LL on Even Spans	0.000	72.587	0.000
	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4	0.000	83.315	0.000
	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3	0.000	79.723	0.000
	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4	0.000	42.114	0.000
	LC18: 1.00DL + 1.00LL + 1.00WL + 1.00SL + 1.00EL	0.000	57.250	0.000
3	LC1: 1.40DL	0.000	34.724	0.000
	LC2: 1.2 DL + 1.6 LL on Odd Spans	0.000	47.012	0.000
	LC3: 1.2 DL + 1.6 LL on Even Spans	0.000	58.095	0.000
	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4	0.000	57.299	0.000
	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3	0.000	77.753	0.000
	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4	0.000	44.602	0.000
	LC18: 1.00DL + 1.00LL + 1.00WL + 1.00SL + 1.00EL	0.000	53.290	0.000
4	LC1: 1.40DL	0.000	41.634	0.000
	LC2: 1.2 DL + 1.6 LL on Odd Spans	0.000	48.493	0.000
	LC3: 1.2 DL + 1.6 LL on Even Spans	0.000	43.146	0.000
	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4	0.000	43.316	0.000
	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3	0.000	44.361	0.000
	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4	0.000	60.085	0.000
	LC18: 1.00DL + 1.00LL + 1.00WL + 1.00SL + 1.00EL	0.000	42.405	0.000

CRITICAL MOMENT/SHEAR DETAILS

Section Name: 4CS4x059 Status: OK

SPAN 1

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	979.783	0.233	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Shear-Y	Lb	-35.129	7130.605	0.005	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	0.003	0.083	0.037	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.003	0.056	0.056	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 2

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	435.459	0.527	LC3: 1.2 DL + 1.6 LL on Even Spans
Shear-Y	Lb	48.186	7130.605	0.007	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	-0.023	0.125	0.183	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.015	0.083	0.179	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 3

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-202.547	680.405	0.298	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Shear-Y	Lb	32.439	7130.605	0.005	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Total Deflection-Y	Ft	0.009	0.100	0.086	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.006	0.067	0.094	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 4

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-153.600	5589.000	0.027	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Shear-Y	Lb	28.800	7130.605	0.004	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Total Deflection-Y	Ft	-0.019	0.067	0.289	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.008	0.044	0.181	LC3: 1.2 DL + 1.6 LL on Even Spans

Section Name: 6CS4x059 Status: OK

SPAN 1

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	386.890	0.590	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Shear-Y	Lb	-35.129	5109.223	0.007	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	0.001	0.083	0.015	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.001	0.056	0.023	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 2

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	386.890	0.594	LC3: 1.2 DL + 1.6 LL on Even Spans
Shear-Y	Lb	48.186	5109.223	0.009	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	-0.009	0.125	0.074	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.006	0.083	0.073	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 3

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-202.547	386.890	0.524	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Shear-Y	Lb	32.439	5109.223	0.006	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Total Deflection-Y	Ft	0.004	0.100	0.035	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.003	0.067	0.038	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 4

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-153.600	386.890	0.397	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Shear-Y	Lb	28.800	5109.223	0.006	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Total Deflection-Y	Ft	-0.008	0.067	0.117	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.003	0.044	0.074	LC3: 1.2 DL + 1.6 LL on Even Spans

Section Name: 7CS4x059 Status: OK

SPAN 1

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	433.804	0.526	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Shear-Y	Lb	-35.129	4283.377	0.008	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	0.001	0.083	0.011	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.001	0.056	0.016	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 2

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	433.804	0.529	LC3: 1.2 DL + 1.6 LL on Even Spans
Shear-Y	Lb	48.186	4283.377	0.011	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	-0.007	0.125	0.053	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.004	0.083	0.051	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 3

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-202.547	433.804	0.467	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Shear-Y	Lb	32.439	4283.377	0.008	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Total Deflection-Y	Ft	0.002	0.100	0.025	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.002	0.067	0.027	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 4

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-153.600	433.804	0.354	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Shear-Y	Lb	28.800	4283.377	0.007	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Total Deflection-Y	Ft	-0.006	0.067	0.083	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.002	0.044	0.052	LC3: 1.2 DL + 1.6 LL on Even Spans

Section Name: 8CS4x065 Status: OK

SPAN 1

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	674.486	0.339	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Shear-Y	Lb	-35.129	4937.652	0.007	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	0.001	0.083	0.007	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.001	0.056	0.011	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 2

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	674.486	0.341	LC3: 1.2 DL + 1.6 LL on Even Spans
Shear-Y	Lb	48.186	4937.652	0.010	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	-0.004	0.125	0.035	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.003	0.083	0.035	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 3

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-202.547	674.486	0.300	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Shear-Y	Lb	32.439	4937.652	0.007	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Total Deflection-Y	Ft	0.002	0.100	0.017	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.001	0.067	0.018	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 4

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-153.600	674.486	0.228	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Shear-Y	Lb	28.800	4937.652	0.006	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Total Deflection-Y	Ft	-0.004	0.067	0.056	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.002	0.044	0.035	LC3: 1.2 DL + 1.6 LL on Even Spans

Section Name: 10CS4x085 Status: OK

SPAN 1

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	2047.680	0.112	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Shear-Y	Lb	-35.129	8667.503	0.004	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	0.000	0.083	0.003	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.000	0.056	0.005	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 2

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	2047.680	0.112	LC3: 1.2 DL + 1.6 LL on Even Spans
Shear-Y	Lb	48.186	8667.503	0.006	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	-0.002	0.125	0.016	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.001	0.083	0.016	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 3

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-202.547	2047.680	0.099	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Shear-Y	Lb	32.439	8667.503	0.004	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Total Deflection-Y	Ft	0.001	0.100	0.008	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.001	0.067	0.008	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 4

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-153.600	2047.680	0.075	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Shear-Y	Lb	28.800	8667.503	0.003	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Total Deflection-Y	Ft	-0.002	0.067	0.026	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.001	0.044	0.016	LC3: 1.2 DL + 1.6 LL on Even Spans

Section Name: 12CS4x105 Status: OK

SPAN 1

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	4966.349	0.046	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Shear-Y	Lb	-35.129	13445.537	0.003	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	0.000	0.083	0.002	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.000	0.056	0.003	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 2

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-228.392	4966.349	0.046	LC3: 1.2 DL + 1.6 LL on Even Spans
Shear-Y	Lb	48.186	13445.537	0.004	LC4: 1.2 DL + 1.6 LL on Spans-1-2-4
Total Deflection-Y	Ft	-0.001	0.125	0.009	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	-0.001	0.083	0.008	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 3

	Unit	Load Effects	Resistance	Ratio	Load Combination
Bending-X	Lb-Ft	-202.547	4966.349	0.041	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Shear-Y	Lb	32.439	13445.537	0.002	LC5: 1.2 DL + 1.6 LL on Spans-1-2-3
Total Deflection-Y	Ft	0.000	0.100	0.004	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.000	0.067	0.004	LC3: 1.2 DL + 1.6 LL on Even Spans

SPAN 4

	Unit	Load Effects	Resistance	Ratio	Load Combination

Bending-X	Lb-Ft	-153.600	4966.349	0.031	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Shear-Y	Lb	28.800	13445.537	0.002	LC6: 1.2 DL + 1.6 LL on Spans-1-3-4
Total Deflection-Y	Ft	-0.001	0.067	0.014	LC3: 1.2 DL + 1.6 LL on Even Spans
Live Deflection-Y	Ft	0.000	0.044	0.009	LC3: 1.2 DL + 1.6 LL on Even Spans