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Project Name: Specific Title:
File Name: BestBuyBeam Date of Generation: Monday, April 06, 2009

Selfweight
Super Imposed Dead
Live
Other
Prestressing
Hyper-Static

Load Combinations

SERVICE_1_Min_LL
SERVICE_1_Max_LL
SERVICE_2_Min_LL
SERVICE_2_Max_LL
STRENGTH_1_Min_LL
STRENGTH_1_Max_LL
INITIAL_MIN_LL
INITIAL_MAX_LL
Cracking_Moment
Envelope

A. Design Parameters and Load Combinations

A.1 Project Design Parameters

Parameter	Value	Parameter	Value
Concrete		Post-tensioning	
F'c for BEAMS/SLABS	4000.00 psi	SYSTEM	UNBONDED
For COLUMNS/WALLS	4000.00 psi	Fpu	270.00 ksi
Ec for BEAMS/SLABS	3605.00 ksi	Fse	175.00 ksi
For COLUMNS/WALLS	3605.00 ksi	Strand area	0.153 in 2
CREEP factor	2.00	Min CGS from TOP	2.25 in
CONCRETE WEIGHT	NORMAL	Min CGS from BOT for interior spans	3.25 in
UNIT WEIGHT	150.00 pcf	Min CGS from BOT for exterior spans	3.25 in
Tension stress limits / (f'c) ^{1/2}		Min average precompression	125.00 psi
At Top	9.000	Max spacing / slab depth	8.00
At Bottom	9.000	Analysis and design options	
Compression stress limits / f'c		Structural system	BEAM
At all locations	0.450	Moment of Inertia over support is	NOT INCREASED
Reinforcement		Moments reduced to face of support	YES
Fy (Main bars)	60.00 ksi	Moment Redistribution	NO
Fy (Shear reinforcement)	60.00 ksi	Effective flange width consideration	YES
Minimum Cover at TOP	2.00 in	Effective flange width implementation method	ACI-318
Minimum Cover at BOTTOM	3.00 in	DESIGN CODE SELECTED	ACI-318 (2005)

A.2 Load Combinations

Strength load combinations

- 1.2 SW + 1.6 LL + 1.2 SDL + 1.6 X + 1 HYP

Service load combinations

Sustained Load

- 1 SW + 0.3 LL + 1 SDL + 0.3 X + 1 PT

Total Load

- 1 SW + 1 LL + 1 SDL + 1 X + 1 PT

Initial load combinations

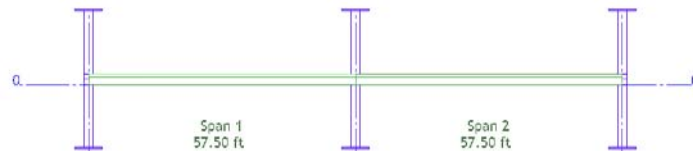
- 1 SW + 0 LL + 0 SDL + 0 X + 1.15 PT

B. Design Strip Report: B.1 Geometry

- Plan



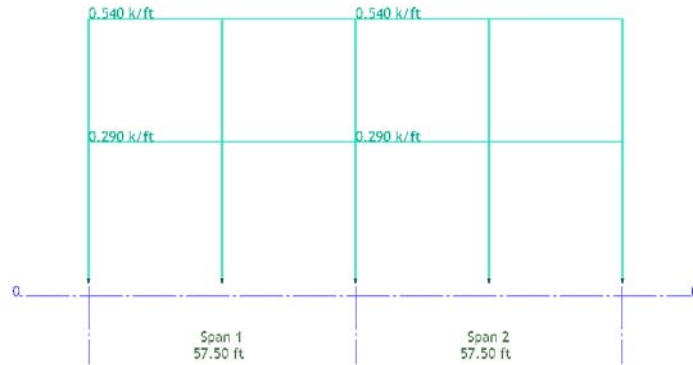
- Elevation



Project Name: Specific Title:
File Name: BestBuyBeam Date of Generation: Monday, April 06, 2009

B.2 Applied loads

- Superimposed Dead Load



- X Load



Project Name: Specific Title:
File Name: BestBuyBeam Date of Generation: Monday, April 06, 2009

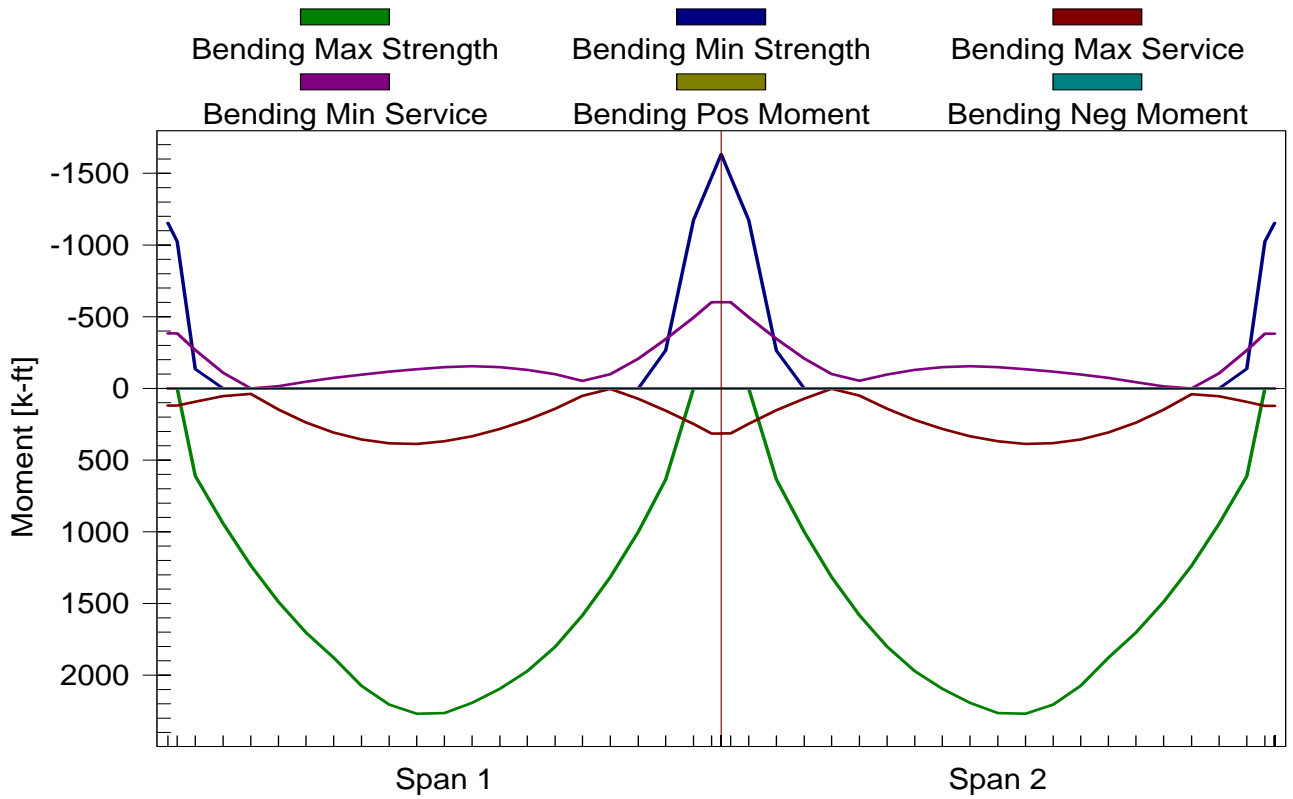
B.3 Design Moment

LOAD COMBINATION: Envelope

Moment Diagrams

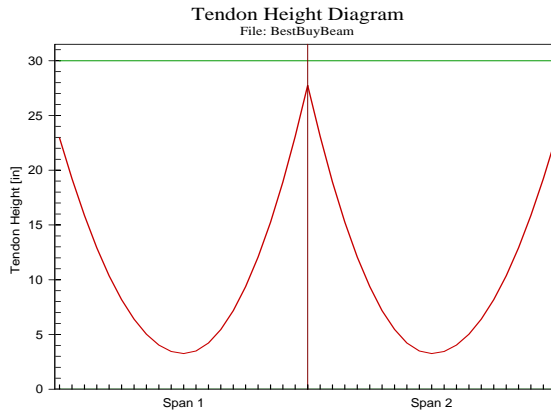
Project: "" / Load Case: Envelope

Moment Drawn on Tension Side



DESIGN MOMENT
(Moment is drawn on tension side)

B.4 Tendon Profile



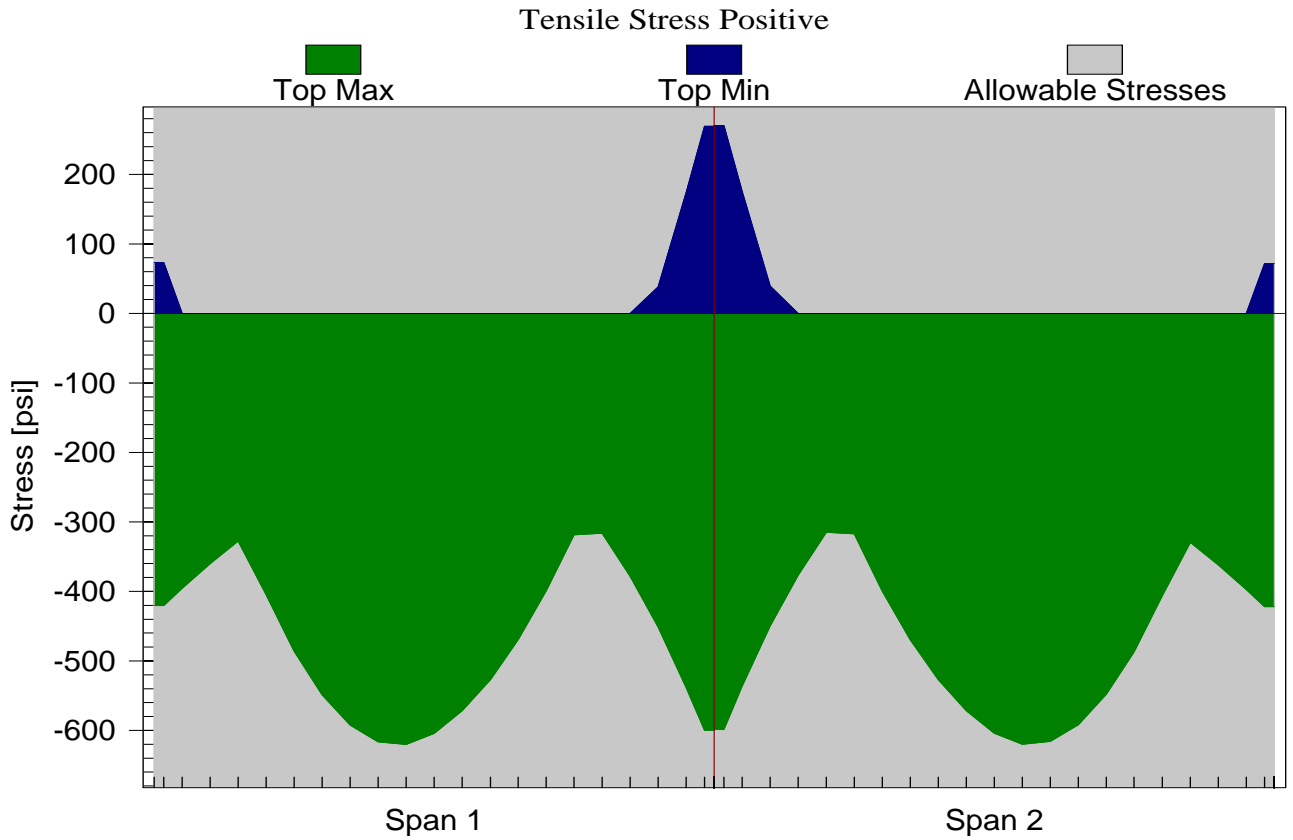
**POST-TENSIONING
PROFILE**

B.5 Stress check results / Code check

LOAD COMBINATION: Envelope

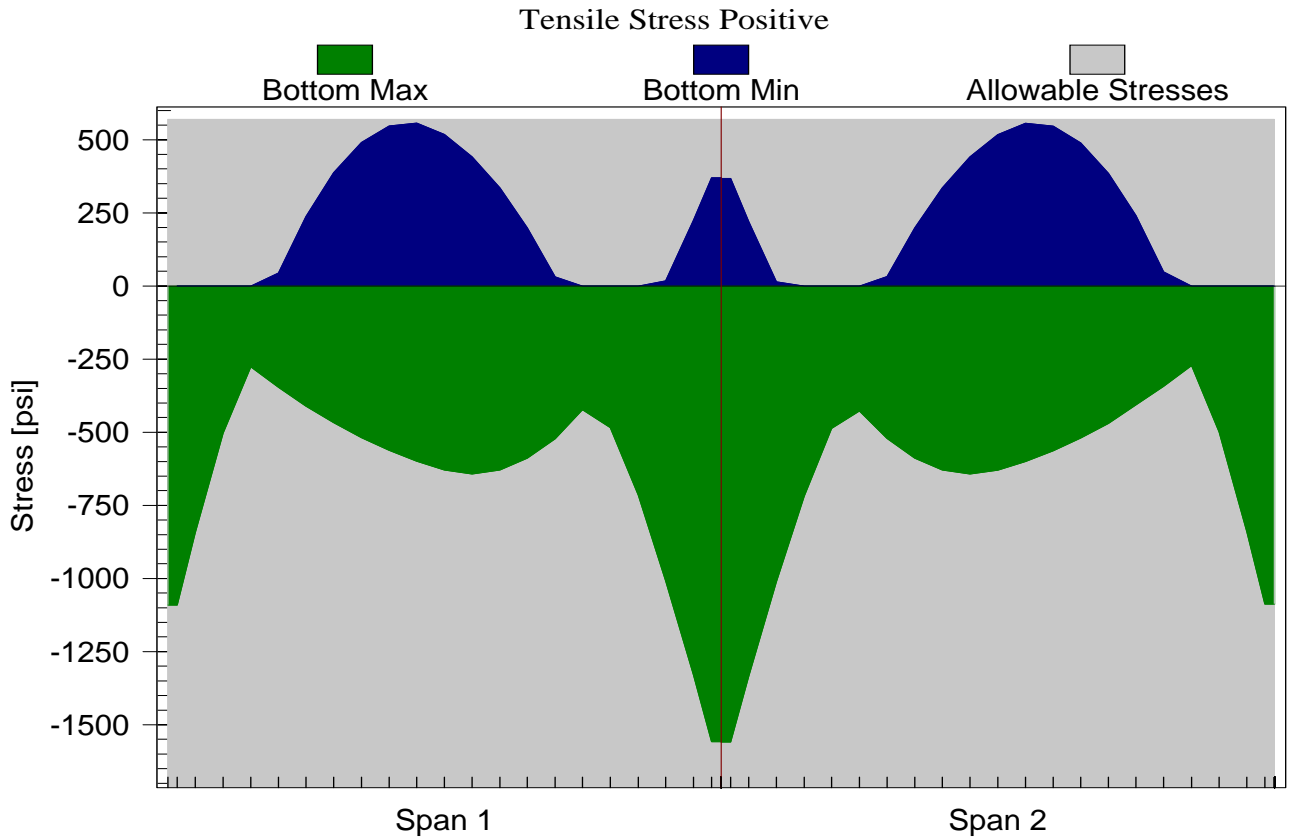
Stress Diagrams

Project: "" / Load Case: Envelope



Stress Diagrams

Project: "" / Load Case: Envelope



SERVICE COMBINATION STRESSES

(Tension stress positive)

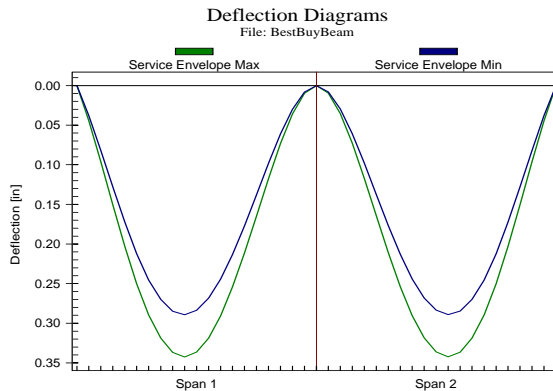
B.6 Rebar Report

Base Reinforcement
Isolated bars
Mesh Reinforcement

Total Strip Provided Rebar

Span	ID	Location	From	Quantity	Size	Length	Area
			ft			ft	in2
1	1	TOP	0.00	8	8	11.50	6.32
1	2	TOP	46.00	8	8	23.00	6.32
2	3	TOP	46.00	8	8	11.50	6.32
1	4	BOT	0.00	1	8	2.00	0.79
1	5	BOT	17.25	4	8	23.00	3.16
1	6	BOT	50.74	2	8	13.50	1.58
2	7	BOT	17.25	4	8	23.00	3.16
2	8	BOT	55.50	1	8	2.00	0.79
1	10	BOT	53.63	1	8	8.00	0.79

B.8 Deflection



DEFLECTION

B.9 Quantities

CONCRETE
 117.57 yd³

MILD STEEL
 1493.63 lbs

PRESTRESSING MATERIAL
 1599.2 lb

1 - USER SPECIFIED GENERAL ANALYSIS AND DESIGN PARAMETERS

Parameter	Value	Parameter	Value
Concrete		Post-tensioning	
F'c for BEAMS/SLABS	4000.00 psi	SYSTEM	UNBONDED
For COLUMNS/WALLS	4000.00 psi	Fpu	270.00 ksi
Ec for BEAMS/SLABS	3605.00 ksi	Fse	175.00 ksi
For COLUMNS/WALLS	3605.00 ksi	Strand area	0.153 in ²
CREEP factor	2.00	Min CGS from TOP	2.25 in
CONCRETE WEIGHT	NORMAL	Min CGS from BOT for interior spans	3.25 in
UNIT WEIGHT	150.00 pcf	Min CGS from BOT for exterior spans	3.25 in
Tension stress limits / (f'c) ^{1/2}		Min average precompression	125.00 psi
At Top	9.000	Max spacing / slab depth	8.00
At Bottom	9.000	Analysis and design options	
Compression stress limits / f'c		Structural system	BEAM
At all locations	0.450	Moment of Inertia over support is	NOT INCREASED
Reinforcement		Moments reduced to face of support	YES
Fy (Main bars)	60.00 ksi	Moment Redistribution	NO
Fy (Shear reinforcement)	60.00 ksi	Effective flange width consideration	YES
Minimum Cover at TOP	2.00 in	Effective flange width implementation method	ACI-318
Minimum Cover at BOTTOM	3.00 in	DESIGN CODE SELECTED	ACI-318 (2005)

2 - INPUT GEOMETRY

2.1 Principal Span Data of Uniform Spans

Span	Form	Length	Width	Depth	TF Width	TF Thick.	BF/MF Width	BF/MF Thick.	Rh	Right Mult.	Left Mult.
		ft	in	in	in	in	in	in	in		
1	2	57.50	30.00	28.00	360.00	9.50			28.00	0.50	0.50
2	2	57.50	30.00	28.00	360.00	9.50			28.00	0.50	0.50

2.3 Effective Width Data of Uniform Spans

Span	Effective Width
	in
1	172.50
2	172.50

2.7 Support Width and Column Data

Joint	Support Width	Length LC	B(DIA.) LC	D LC	% LC	CBC LC	Length UC	B(DIA.) UC	D UC	% UC	CBC UC
	in	ft	in	in			ft	in	in		
1	24.0	14.7	24.0	24.0	100	(1)	14.7	24.0	24.0	100	(1)
2	24.0	14.7	24.0	24.0	100	(1)	14.7	24.0	24.0	100	(1)
3	24.0	14.7	24.0	24.0	100	(1)	14.7	24.0	24.0	100	(1)

3 - INPUT APPLIED LOADING

3.1 Loading As Appears in User's Input Screen

Span	Class	Type	W	P1	P2	A	B	C	F	M
			k/ft ²	k/ft	k/ft	ft	ft	ft	k	k-ft
1	SDL	L		0.290		0.000	57.500			
1	SDL	L		0.540		0.000	57.500			
2	SDL	L		0.290		0.000	57.500			
2	SDL	L		0.540		0.000	57.500			

NOTE: SELFWEIGHT INCLUSION REQUIRED (SW= SELF WEIGHT Computed from geometry
 input and treated as dead loading. Unit selfweight W = 150.0 pcf
 NOTE: LIVE LOADING is SKIPPED with a skip factor of 1.00

3.2 Compiled loads

Span	Class	Type	P1	P2	F	M	A	B	C	Reduction Factor
			k/ft	k/ft	k	k-ft	ft	ft	ft	%
1	SDL	P	0.290				0.000	57.500		
1	SDL	P	0.540				0.000	57.500		
1	SW	U	4.141							
2	SDL	P	0.290				0.000	57.500		
2	SDL	P	0.540				0.000	57.500		
2	SW	U	4.141							

4 - CALCULATED SECTION PROPERTIES

4.1 Section Properties of Uniform Spans and Cantilevers

Span	Area	Yb	Yt	b_eff	I	Yb	Yt
	in2	in	in	in	in4	in	in
1	3975.00	21.30	6.70	172.50	0.1094E+06	19.71	8.29
2	3975.00	21.30	6.70	172.50	0.1094E+06	19.71	8.29

5 - MOMENTS, SHEARS AND REACTIONS

5.1 Span Moments and Shears (Excluding Live Load)

Span	Load Case	Moment Left	Moment Midspan	Moment Right	Shear Left	Shear Right
		k-ft	k-ft	k-ft	k	k
1	SW	-757.64	666.72	-1331.40	-109.06	129.02
2	SW	-1331.37	666.72	-757.68	-129.02	109.07
1	SDL	-151.87	133.65	-266.88	-21.86	25.86
2	SDL	-266.88	133.65	-151.88	-25.86	21.86
1	XL	0.00	0.00	0.00	0.00	0.00
2	XL	0.00	0.00	0.00	0.00	0.00

5.2 Reactions and Column Moments (Excluding Live Load)

Joint	Load Case	Reaction	Moment Lower Column	Moment Upper Column
		k	k-ft	k-ft
1	SW	109.06	-378.82	-378.82
2	SW	258.04	0.02	0.02
3	SW	109.07	378.84	378.84
1	SDL	21.86	-75.94	-75.94
2	SDL	51.73	0.00	0.00
3	SDL	21.86	75.94	75.94
1	XL	0.00	0.00	0.00
2	XL	0.00	0.00	0.00
3	XL	0.00	0.00	0.00

5.3 Span Moments and Shears (Live Load)

Span	Moment Left Max	Moment Left Min	Moment Midspan Max	Moment Midspan Min	Moment Right Max	Moment Right Min	Shear Left	Shear Right
------	-----------------	-----------------	--------------------	--------------------	------------------	------------------	------------	-------------

	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft	k	k
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.4 Reactions and Column Moments (Live Load)

Joint	Reaction Max	Reaction Min	Moment Lower Column Max	Moment Lower Column Min	Moment Upper Column Max	Moment Upper Column Min
	k	k	k-ft	k-ft	k-ft	k-ft
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00

6 - MOMENTS REDUCED TO FACE OF SUPPORT

6.1 Reduced Moments at Face of Support (Excluding Live Load)

Span	Load Case	Moment Left	Moment Midspan	Moment Right
		k-ft	k-ft	k-ft
1	SW	-650.67	666.75	-1204.17
2	SW	-1204.17	666.75	-650.67
1	SDL	-130.42	133.67	-241.42
2	SDL	-241.42	133.67	-130.42
1	XL	0.00	0.00	0.00
2	XL	0.00	0.00	0.00

6.2 Reduced Moments at Face of Support (Live Load)

Span	Moment Left Max	Moment Left Min	Moment Midspan Max	Moment Midspan Min	Moment Right Max	Moment Right Min
	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00

7 - SELECTED POST-TENSIONING FORCES AND TENDON PROFILES

7.1 Tendon Profile

Tendon A

Span	Type	X1/L	X2/L	X3/L	A/L
1	1	0.000	0.500	0.000	---
2	1	0.000	0.500	0.000	---

7.2 Selected Post-Tensioning Forces and Tendon Drapes

Tendon A

Span	Force	CGS Left	CGS C1	CGS C2	CGS Right	P/A	Wbal	WBal (%DL)
	k	in	in	in	in	psi	k/-	
1	716.101	21.30	---	3.25	25.75	180.15	2.927	59
2	716.101	25.75	---	3.25	21.30	180.15	2.927	59

Approximate weight of strand: 1599.2 LB

7.4 Required Minimum Post-Tensioning Forces

Based on Stress Conditions

Based on Minimum P/A

Type	Left	Center	Right	Left	Center	Right
	k	k	k	k	k	k
1	173.18	696.32	547.15	496.88	496.88	496.88

2	547.59	696.10	172.91	496.88	496.88	496.88
---	--------	--------	--------	--------	--------	--------

7.5 Service Stresses (tension shown positive)

Envelope of Service 1

Span	Left Top Max-T	Left Top Max-C	Left Bot Max-T	Left Bot Max-C	Center Top Max-T	Center Top Max-C	Cetner Bot Max-T	Cetner Bot Max-C	Right Top Max-T	Right Top Max-C	Right Bot Max-T	Right Bot Max-C
	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
1	126.76	-----	-----	-909.61	-----	-481.56	536.24	-----	339.02	-----	-----	-1414.13
2	339.81	-----	-----	-1415.98	-----	-481.41	535.87	-----	125.83	-----	-----	-907.39

Envelope of Service 2

Span	Left Top Max-T	Left Top Max-C	Left Bot Max-T	Left Bot Max-C	Center Top Max-T	Center Top Max-C	Cetner Bot Max-T	Cetner Bot Max-C	Right Top Max-T	Right Top Max-C	Right Bot Max-T	Right Bot Max-C
	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
1	126.76	-----	-----	-909.61	-----	-481.56	536.24	-----	339.02	-----	-----	-1414.13
2	339.81	-----	-----	-1415.98	-----	-481.41	535.87	-----	125.83	-----	-----	-907.39

7.6 Post-Tensioning Balance Moments, Shears and Reactions

Span Moments and Shears

Span	Moment Left	Moment Center	Moment Right	Shear Left	Shear Right
	k-ft	k-ft	k-ft	k	k
1	443.58	-468.92	875.00	-3.31	-3.31
2	874.17	-469.08	444.67	3.27	3.27

Reactions and Column Moments

Joint	Reaction	Moment Lower Column	Moment Upper Column
	k	k-ft	k-ft
1	3.308	256.833	256.833
2	-6.575	0.391	0.391
3	3.267	-256.333	-256.333

Note: Moments are reported at face of support

8 - FACTORED MOMENTS AND REACTIONS ENVELOPE

8.1 Factored Design Moments (Not Redistributed)

Span	Left Max	Left Min	Middle Max	Middle Min	Right Max	Right Min
	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft
1	-420.38	-420.38	1567.17	1567.17	-1038.20	-1038.20
2	-1037.45	-1037.45	1567.08	1567.08	-421.38	-421.38

8.2 Reactions and Column Moments

Joint	Reaction Max	Reaction Min	Moment Lower Column Max	Moment Lower Column Min	Moment Upper Column Max	Moment Upper Column Min
	k	k	k-ft	k-ft	k-ft	k-ft
1	160.46	160.46	-288.89	-288.89	-288.89	-288.89
2	365.10	365.10	0.41	0.41	0.41	0.41
3	160.42	160.42	289.40	289.40	289.40	289.40

8.3 Secondary Moments

Span	Left	Midspace	Right
	k-ft	k-ft	k-ft

1	516.92	606.67	696.50
2	697.25	606.58	515.92

Note: Moments are reported at face of support

10 - MILD STEEL - NO REDISTRIBUTION

10.1 Required Rebar

10.1.1 Total Strip Required Rebar

Span	Location	From	To	As Required	Ultimate	Minimum
		ft	ft	in2	in2	in2
1	TOP	0.00	8.63	5.72	0.00	5.72
1	TOP	48.88	57.51	5.72	0.00	5.72
2	TOP	0.00	8.63	5.72	0.00	5.72
2	TOP	48.88	57.51	5.72	0.00	5.72
1	BOT	20.12	37.37	3.05	0.00	3.05
1	BOT	54.63	57.51	1.98	1.82	1.98
2	BOT	0.00	2.87	2.37	2.37	1.96
2	BOT	20.12	37.37	3.05	0.00	3.05

10.2 Provided Rebar

10.2.1 Total Strip Provided Rebar

Span	ID	Location	From	Quantity	Size	Length	Area
			ft			ft	in2
1	1	TOP	0.00	8	8	11.50	6.32
1	2	TOP	46.00	8	8	23.00	6.32
2	3	TOP	46.00	8	8	11.50	6.32
1	4	BOT	0.00	1	8	2.00	0.79
1	5	BOT	17.25	4	8	23.00	3.16
1	6	BOT	50.74	2	8	13.50	1.58
2	7	BOT	17.25	4	8	23.00	3.16
2	8	BOT	55.50	1	8	2.00	0.79
1	10	BOT	53.63	1	8	8.00	0.79

10.2.2 Total Strip Steel Disposition

Span	ID	Location	From	Quantity	Size	Length
			ft			ft
1	1	TOP	0.00	8	8	11.50
1	2	TOP	46.00	8	8	11.50
2	2	TOP	0.00	8	8	11.50
2	3	TOP	46.00	8	8	11.50
1	4	BOT	0.00	1	8	2.00
1	5	BOT	17.25	4	8	23.00
1	6	BOT	50.74	2	8	6.76
1	10	BOT	53.63	1	8	3.87
2	6	BOT	0.00	2	8	6.74
2	7	BOT	17.25	4	8	23.00
2	8	BOT	55.50	1	8	2.00
2	10	BOT	0.00	1	8	4.13

10.3 Base Reinforcement

10.3.1 Isolated bars

10.3.2 Mesh Reinforcement

12 - SHEAR REINFORCEMENT

12.1 Shear Calculation Envelope

SPAN 1

XL	X	d	Vu	Mu	Ratio	Req.	Spacing
	ft	in	k	kft		in2	in
0.02	1.00	22.40	-212.02	-340.12	1.33	0.63	7.52
0.05	2.88	22.40	-196.83	1.22	1.24	0.45	10.57
0.10	5.75	22.40	-173.52	474.34	1.09	0.17	21.00
0.15	8.63	22.40	-150.18	887.41	1.53	0.62	7.64
0.20	11.50	22.40	-126.87	1280.17	1.75	0.65	7.26
0.25	14.38	22.40	-103.53	1610.18	1.62	0.47	9.95
0.30	17.25	22.40	-80.22	1875.22	1.26	0.20	21.00
0.35	20.12	23.13	-56.86	2074.55	0.86	0.16	21.00
0.40	23.00	24.03	-33.55	2205.96	0.49	0.00	0.00
0.45	25.88	24.57	-10.24	2269.46	0.15	0.00	0.00
0.50	28.75	24.75	14.67	2265.03	0.21	0.00	0.00
0.55	31.62	24.52	37.98	2193.41	0.54	0.15	21.00
0.60	34.51	23.85	61.32	2053.88	0.90	0.16	21.00
0.65	37.37	22.72	84.65	1846.42	1.31	0.23	20.11
0.70	40.26	22.40	107.97	1571.05	1.69	0.53	8.95
0.75	43.11	22.40	131.28	1228.49	1.66	0.62	7.61
0.80	46.00	22.40	154.62	818.01	1.38	0.51	9.23
0.85	48.88	22.40	177.95	339.38	1.12	0.22	21.00
0.90	51.74	22.40	201.26	-184.35	1.26	0.50	9.45
0.95	54.63	22.40	224.58	-739.75	1.41	0.78	6.07
0.98	56.50	24.26	213.75	-1322.25	1.47	0.75	6.30

SPAN 2

XL	X	d	Vu	Mu	Ratio	Req.	Spacing
	ft	in	k	kft		in2	in
0.02	1.00	24.26	-213.71	-1320.77	1.47	0.75	6.32
0.05	2.88	22.40	-224.53	-739.01	1.41	0.78	6.07
0.10	5.75	22.40	-201.22	-183.31	1.26	0.50	9.46
0.15	8.63	22.40	-177.91	340.42	1.12	0.22	21.00
0.20	11.50	22.40	-154.57	818.75	1.39	0.51	9.22
0.25	14.38	22.40	-131.24	1229.23	1.66	0.62	7.61
0.30	17.25	22.40	-107.90	1571.79	1.69	0.53	8.96
0.35	20.12	22.72	-84.59	1846.42	1.31	0.23	20.16
0.40	23.00	23.85	-61.27	2053.88	0.90	0.16	21.00
0.45	25.88	24.52	-37.94	2193.41	0.54	0.15	21.00
0.50	28.75	24.75	-14.62	2265.03	0.21	0.00	0.00
0.55	31.62	24.57	10.29	2268.72	0.15	0.00	0.00
0.60	34.51	24.03	33.62	2205.23	0.49	0.00	0.00
0.65	37.37	23.13	56.93	2073.81	0.86	0.16	21.00
0.70	40.26	22.40	80.27	1874.48	1.26	0.20	21.00
0.75	43.11	22.40	103.58	1608.70	1.63	0.47	9.94
0.80	46.00	22.40	126.91	1278.69	1.75	0.65	7.26
0.85	48.88	22.40	150.23	885.93	1.52	0.62	7.65
0.90	51.74	22.40	173.56	472.94	1.09	0.17	21.00
0.95	54.63	22.40	196.88	-0.40	1.24	0.45	10.56
0.98	56.50	22.40	212.06	-341.75	1.33	0.63	7.52

Note: "Vu" is related to the load combination which produces the maximum "Ratio"

Note: Sections with **** have exceeded the maximum allowable shear stress.

15 - FRICTION, ELONGATION AND LONG TERM LOSSES

15.1 Input Parameters

Parameter	Value	Parameter	Value
Type of Strand	Low Relaxation	Coefficient of Angular Friction (meu)	0.07000 1/rad
Age of Concrete at Stressing	5 days	Coefficient of Wobble Friction (K)	0.00140 rad/ft
Ec at Stressing	3122.00 ksi	Ratio of Jacking Stress	0.80
Average Relative Humidity	80.00 percent	Anchor Set	0.25 in
Volume to Surface Ratio of Members	3.50 in	Tendon_A Stressing Method	Both sides
Es of Strand	29000.00 ksi		

15.2 Long-term Losses

Tendon	Elastic Shortening	Shrinkage	Creep	Relaxation	Total
	ksi	ksi	ksi	ksi	ksi
TENDON_A	1.10	3.01	3.83	0.19	8.13

15.3 Calculated Stresses After Friction and Long-term Losses

Tendon	Span	Stress Left FL Only	Stress Center FL Only	Stress Right FL Only	Stress Left FL+LTL	Stress Center FL+LTL	Stress Right FL+LTL
		ksi	ksi	ksi	ksi	ksi	ksi
TENDON_A	1	40.85	30.84	21.53	32.72	22.71	13.40
TENDON_A	2	21.53	8.64	0.00	13.40	0.51	0.00

15.4 Summary

Tendon	Avg. Initial Stress	LTL	Avg. Final Stress	Avg. Final Force	Elongation Left	Elongation Right	Elongation Total	Left Anchor Set	Right Anchor Set
	ksi	ksi	ksi	k	in	in	in	ft	ft
TENDON_A	19.96	8.13	11.83	1.81	9.04	-8.08	0.95	0.00	115.00

15.5 Critical Stress Ratios

Tendon	Stressing Left	Stressing Right	Anchorage Left	Anchorage Right	Max
TENDON_A	0.15	0.00	0.15	0.00	0.15

21 - TENDON HEIGHTS

<u>XL</u>	X	CGS A	CGS B	CGS C
	ft	in	in	in
	SPAN 1			
0.00	0.000	21.30	21.30	21.30
0.05	2.875	17.87	20.39	20.39
0.10	5.750	14.80	17.69	17.69
0.15	8.625	12.09	14.30	14.30
0.20	11.500	9.75	11.37	11.37
0.25	14.375	7.76	8.89	8.89
0.30	17.250	6.14	6.86	6.86
0.35	20.125	4.87	5.28	5.28
0.40	23.000	3.97	4.15	4.15
0.45	25.875	3.43	3.48	3.48
0.50	28.750	3.25	3.25	3.25
0.55	31.625	3.48	3.53	3.53
0.60	34.500	4.15	4.38	4.38
0.65	37.375	5.28	5.78	5.78
0.70	40.250	6.85	7.75	7.75
0.75	43.125	8.88	10.28	10.28
0.80	46.000	11.35	13.38	13.38
0.85	48.875	14.28	17.03	17.03
0.90	51.750	17.65	21.25	21.25
0.95	54.625	21.48	24.63	24.63
1.00	57.500	25.75	25.75	25.75

<u>XL</u>	X	CGS A	CGS B	CGS C
	ft	in	in	in
	SPAN 2			
0.00	0.000	25.75	25.75	25.75
0.05	2.875	21.48	24.63	24.63
0.10	5.750	17.65	21.25	21.25
0.15	8.625	14.28	17.03	17.03
0.20	11.500	11.35	13.38	13.38
0.25	14.375	8.88	10.28	10.28
0.30	17.250	6.85	7.75	7.75
0.35	20.125	5.28	5.78	5.78
0.40	23.000	4.15	4.38	4.38
0.45	25.875	3.48	3.53	3.53
0.50	28.750	3.25	3.25	3.25
0.55	31.625	3.43	3.48	3.48
0.60	34.500	3.97	4.15	4.15
0.65	37.375	4.87	5.28	5.28
0.70	40.250	6.14	6.86	6.86
0.75	43.125	7.76	8.89	8.89
0.80	46.000	9.75	11.37	11.37
0.85	48.875	12.09	14.30	14.30
0.90	51.750	14.80	17.69	17.69
0.95	54.625	17.87	20.39	20.39
1.00	57.500	21.30	21.30	21.30

22 - POST-TENSIONING BALANCED LOADING

Span	Type	W	F	M	a	b
------	------	---	---	---	---	---

		k/ft	k	k-ft	ft	ft
1	3	19648.129			0.00	0.01
1	2		140.87		57.50	
1	3	-3.930			0.01	28.75
1	3	-4.900			28.75	57.50
2	3	24498.947			0.00	0.01
2	2		112.98		57.50	
2	3	-4.901			0.01	28.75
2	3	-3.930			28.75	57.50
2	4			0.00	11.50	
1	4			0.00	46.00	

23 - DETAILED MOMENTS

SPAN 1

XL	X	SW	SDL	XL	LL Min	LL Max	PT	Secondary
	ft	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft
0.00	0.00	-757.64	-151.87	0.00	0.00	0.00	513.74	513.67
0.05	2.88	-461.19	-92.45	0.00	0.00	0.00	318.73	522.97
0.10	5.75	-198.97	-39.88	0.00	0.00	0.00	145.05	532.27
0.15	8.63	29.03	5.82	0.00	0.00	0.00	-7.09	541.58
0.20	11.50	222.80	44.66	0.00	0.00	0.00	-137.69	550.88
0.25	14.38	382.35	76.64	0.00	0.00	0.00	-246.76	560.18
0.30	17.25	507.67	101.76	0.00	0.00	0.00	-334.27	569.49
0.35	20.13	598.77	120.03	0.00	0.00	0.00	-400.25	578.79
0.40	23.00	655.65	131.43	0.00	0.00	0.00	-444.69	588.09
0.45	25.88	678.30	135.97	0.00	0.00	0.00	-467.59	597.40
0.50	28.75	666.72	133.65	0.00	0.00	0.00	-468.94	606.70
0.55	31.63	620.92	124.47	0.00	0.00	0.00	-446.10	616.01
0.60	34.50	540.90	108.42	0.00	0.00	0.00	-396.41	625.31
0.65	37.38	426.65	85.52	0.00	0.00	0.00	-319.86	634.61
0.70	40.25	278.17	55.76	0.00	0.00	0.00	-216.45	643.92
0.75	43.13	95.47	19.14	0.00	0.00	0.00	-84.77	653.22
0.80	46.00	-121.45	-24.35	0.00	0.00	0.00	72.44	662.52
0.85	48.88	-372.60	-74.69	0.00	0.00	0.00	256.49	671.83
0.90	51.75	-657.98	-131.89	0.00	0.00	0.00	467.41	681.13
0.95	54.63	-977.58	-195.96	0.00	0.00	0.00	705.17	690.43
1.00	57.50	-1331.40	-266.88	0.00	0.00	0.00	969.79	699.74

SPAN 2

XL	X	SW	SDL	XL	LL Min	LL Max	PT	Secondary
	ft	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft
0.00	0.00	-1331.40	-266.88	0.00	0.00	0.00	968.69	700.52
0.05	2.88	-977.55	-195.95	0.00	0.00	0.00	704.28	691.13
0.10	5.75	-657.95	-131.89	0.00	0.00	0.00	466.47	681.73
0.15	8.63	-372.58	-74.68	0.00	0.00	0.00	255.51	672.34
0.20	11.50	-121.44	-24.34	0.00	0.00	0.00	71.42	662.95
0.25	14.38	95.49	19.14	0.00	0.00	0.00	-85.82	653.56
0.30	17.25	278.18	55.76	0.00	0.00	0.00	-216.20	644.16
0.35	20.13	426.65	85.52	0.00	0.00	0.00	-319.71	634.77
0.40	23.00	540.90	108.42	0.00	0.00	0.00	-396.37	625.38
0.45	25.88	620.92	124.47	0.00	0.00	0.00	-446.17	615.99
0.50	28.75	666.72	133.65	0.00	0.00	0.00	-469.11	606.59
0.55	31.63	678.29	135.97	0.00	0.00	0.00	-467.86	597.20
0.60	34.50	655.64	131.42	0.00	0.00	0.00	-445.06	587.81
0.65	37.38	598.76	120.02	0.00	0.00	0.00	-400.73	578.42

0.70	40.25	507.66	101.76	0.00	0.00	0.00	-334.87	569.02
0.75	43.13	382.33	76.64	0.00	0.00	0.00	-245.68	559.63
0.80	46.00	222.78	44.66	0.00	0.00	0.00	-136.62	550.24
0.85	48.88	29.00	5.81	0.00	0.00	0.00	-6.03	540.84
0.90	51.75	-199.00	-39.89	0.00	0.00	0.00	146.10	531.45
0.95	54.63	-461.23	-92.45	0.00	0.00	0.00	319.77	522.06
1.00	57.50	-757.68	-151.88	0.00	0.00	0.00	514.98	512.67

24 - DETAILED SHEARS

SPAN 1

XL	X	SW	SDL	XL	LL Min	LL Max	PT	Secondary
	ft	k	k	k	k	k	k	k
0.00	0.00	-109.06	-21.86	0.00	0.00	0.00	-3.31	-3.24
0.05	2.88	-97.16	-19.48	0.00	0.00	0.00	64.13	-3.24
0.10	5.75	-85.26	-17.09	0.00	0.00	0.00	56.63	-3.24
0.15	8.63	-73.35	-14.70	0.00	0.00	0.00	49.14	-3.24
0.20	11.50	-61.45	-12.32	0.00	0.00	0.00	41.65	-3.24
0.25	14.38	-49.54	-9.93	0.00	0.00	0.00	34.15	-3.24
0.30	17.25	-37.64	-7.54	0.00	0.00	0.00	26.66	-3.24
0.35	20.13	-25.73	-5.16	0.00	0.00	0.00	19.17	-3.24
0.40	23.00	-13.83	-2.77	0.00	0.00	0.00	11.68	-3.24
0.45	25.88	-1.93	-0.39	0.00	0.00	0.00	4.18	-3.24
0.50	28.75	9.98	2.00	0.00	0.00	0.00	-3.31	-3.24
0.55	31.63	21.88	4.39	0.00	0.00	0.00	-12.65	-3.24
0.60	34.50	33.79	6.77	0.00	0.00	0.00	-21.99	-3.24
0.65	37.38	45.69	9.16	0.00	0.00	0.00	-31.33	-3.24
0.70	40.25	57.60	11.55	0.00	0.00	0.00	-40.67	-3.24
0.75	43.13	69.50	13.93	0.00	0.00	0.00	-50.04	-3.24
0.80	46.00	81.40	16.32	0.00	0.00	0.00	-59.38	-3.24
0.85	48.88	93.31	18.70	0.00	0.00	0.00	-68.72	-3.24
0.90	51.75	105.21	21.09	0.00	0.00	0.00	-78.06	-3.24
0.95	54.63	117.12	23.48	0.00	0.00	0.00	-87.40	-3.24
1.00	57.50	129.02	25.86	0.00	0.00	0.00	-96.75	-3.24

SPAN 2

XL	X	SW	SDL	XL	LL Min	LL Max	PT	Secondary
	ft	k	k	k	k	k	k	k
0.00	0.00	-129.02	-25.86	0.00	0.00	0.00	3.27	3.27
0.05	2.88	-117.12	-23.48	0.00	0.00	0.00	87.35	3.27
0.10	5.75	-105.21	-21.09	0.00	0.00	0.00	78.01	3.27
0.15	8.63	-93.31	-18.70	0.00	0.00	0.00	68.66	3.27
0.20	11.50	-81.40	-16.32	0.00	0.00	0.00	59.32	3.27
0.25	14.38	-69.50	-13.93	0.00	0.00	0.00	49.98	3.27
0.30	17.25	-57.59	-11.55	0.00	0.00	0.00	40.64	3.27
0.35	20.13	-45.69	-9.16	0.00	0.00	0.00	31.29	3.27
0.40	23.00	-33.79	-6.77	0.00	0.00	0.00	21.95	3.27
0.45	25.88	-21.88	-4.39	0.00	0.00	0.00	12.61	3.27
0.50	28.75	-9.98	-2.00	0.00	0.00	0.00	3.27	3.27
0.55	31.63	1.93	0.39	0.00	0.00	0.00	-4.22	3.27
0.60	34.50	13.83	2.77	0.00	0.00	0.00	-11.72	3.27
0.65	37.38	25.74	5.16	0.00	0.00	0.00	-19.21	3.27
0.70	40.25	37.64	7.55	0.00	0.00	0.00	-26.70	3.27
0.75	43.13	49.54	9.93	0.00	0.00	0.00	-34.23	3.27
0.80	46.00	61.45	12.32	0.00	0.00	0.00	-41.72	3.27
0.85	48.88	73.35	14.70	0.00	0.00	0.00	-49.21	3.27

0.90	51.75	85.26	17.09	0.00	0.00	0.00	-56.70	3.27
0.95	54.63	97.16	19.48	0.00	0.00	0.00	-64.19	3.27
1.00	57.50	109.07	21.86	0.00	0.00	0.00	-71.68	3.27

25 - FACTORED MOMENTS AND REACTIONS

Load Combination: 1.20SW + 1.60LL + 1.20SDL + 1.60XL + 1.00SEC

Factored Design Moments (Not Redistributed)

Span	Left Max	Left Min	Middle Max	Middle Min	Right Max	Right Min
	k-ft	k-ft	k-ft	k-ft	k-ft	k-ft
1	-420.38	-420.38	1567.14	1567.14	-1038.20	-1038.20
2	-1037.45	-1037.45	1567.03	1567.03	-421.38	-421.38

Reactions and Column Moments

Joint	Reaction Max	Reaction Min	Moment Lower Column Max	Moment Lower Column Min	Moment Upper Column Max	Moment Upper Column Min
	k	k	k-ft	k-ft	k-ft	k-ft
1	160.46	160.46	-288.89	-288.89	-288.89	-288.89
2	365.10	365.10	0.41	0.41	0.41	0.41
3	160.42	160.42	289.40	289.40	289.40	289.40

Note: Moments are reported at face of support

27 - DETAILED STRESSES

SPAN 1

XL	X	SW Top	SW Bot	SDL Top	SDL Bot	XL Top	XL Bot	LL Top Max-T	LL Top Max-C	LL Bot Max-T	LL Bot Max-C	PT Top	PT Bot
	ft	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	spi
0.00	0.00												
0.05	2.88	419.	-997.	84.	-200.	0.	0.	0.	0.	0.	0.	-470.	509.
0.10	5.75	181.	-430.	36.	-86.	0.	0.	0.	0.	0.	0.	-312.	133.
0.15	8.63	-26.	63.	-5.	13.	0.	0.	0.	0.	0.	0.	-174.	-195.
0.20	11.50	-203.	482.	-41.	97.	0.	0.	0.	0.	0.	0.	-55.	-478.
0.25	14.38	-348.	826.	-70.	166.	0.	0.	0.	0.	0.	0.	44.	-714.
0.30	17.25	-462.	1097.	-93.	220.	0.	0.	0.	0.	0.	0.	124.	-903.
0.35	20.13	-545.	1294.	-109.	259.	0.	0.	0.	0.	0.	0.	184.	-1045.
0.40	23.00	-596.	1417.	-120.	284.	0.	0.	0.	0.	0.	0.	224.	-1141.
0.45	25.88	-617.	1466.	-124.	294.	0.	0.	0.	0.	0.	0.	245.	-1191.
0.50	28.75	-606.	1441.	-122.	289.	0.	0.	0.	0.	0.	0.	246.	-1194.
0.55	31.63	-565.	1342.	-113.	269.	0.	0.	0.	0.	0.	0.	226.	-1144.
0.60	34.50	-492.	1169.	-99.	234.	0.	0.	0.	0.	0.	0.	180.	-1037.
0.65	37.38	-388.	922.	-78.	185.	0.	0.	0.	0.	0.	0.	111.	-872.
0.70	40.25	-253.	601.	-51.	121.	0.	0.	0.	0.	0.	0.	17.	-648.
0.75	43.13	-87.	206.	-17.	41.	0.	0.	0.	0.	0.	0.	-103.	-363.
0.80	46.00	110.	-263.	22.	-53.	0.	0.	0.	0.	0.	0.	-246.	-24.
0.85	48.88	339.	-805.	68.	-161.	0.	0.	0.	0.	0.	0.	-413.	374.
0.90	51.75	598.	-1422.	120.	-285.	0.	0.	0.	0.	0.	0.	-605.	830.
0.95	54.63	889.	-2113.	178.	-424.	0.	0.	0.	0.	0.	0.	-821.	1344.
1.00	57.50												

XL	X	Initial Top Max-T	Initial Top Max-C	Initial Bot Max-T	Initial Bot Max-C	Env-1 Top Max-T	Env-1 Top Max-C	Env-1 Bot Max-T	Env-1 Bot Max-C	Env-2 Top Max-T	Env-2 Top Max-C	Env-2 Bot Max-T	Env-2 Bot Max-C
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	ft	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
0.00	0.00												
0.05	2.88	-----	-121.	-----	-412.	33.	-----	-----	-688.	33.	-----	-----	-688.
0.10	5.75	-----	-178.	-----	-277.	-----	-95.	-----	-383.	-----	-95.	-----	-383.
0.15	8.63	-----	-226.	-----	-162.	-----	-205.	-----	-120.	-----	-205.	-----	-120.
0.20	11.50	-----	-266.	-----	-68.	-----	-298.	100.	-----	-----	-298.	100.	-----
0.25	14.38	-----	-297.	6.	-----	-----	-373.	279.	-----	-----	-373.	279.	-----
0.30	17.25	-----	-319.	59.	-----	-----	-430.	415.	-----	-----	-430.	415.	-----
0.35	20.13	-----	-333.	92.	-----	-----	-470.	508.	-----	-----	-470.	508.	-----
0.40	23.00	-----	-338.	105.	-----	-----	-492.	560.	-----	-----	-492.	560.	-----
0.45	25.88	-----	-335.	97.	-----	-----	-495.	569.	-----	-----	-495.	569.	-----
0.50	28.75	-----	-323.	68.	-----	-----	-482.	536.	-----	-----	-482.	536.	-----
0.55	31.63	-----	-305.	26.	-----	-----	-452.	467.	-----	-----	-452.	467.	-----
0.60	34.50	-----	-285.	-----	-23.	-----	-410.	367.	-----	-----	-410.	367.	-----
0.65	37.38	-----	-261.	-----	-80.	-----	-355.	236.	-----	-----	-355.	236.	-----
0.70	40.25	-----	-234.	-----	-144.	-----	-287.	74.	-----	-----	-287.	74.	-----
0.75	43.13	-----	-205.	-----	-212.	-----	-207.	-----	-116.	-----	-207.	-----	-116.
0.80	46.00	-----	-172.	-----	-290.	-----	-113.	-----	-339.	-----	-113.	-----	-339.
0.85	48.88	-----	-137.	-----	-375.	-----	-7.	-----	-593.	-----	-7.	-----	-593.
0.90	51.75	-----	-98.	-----	-468.	113.	-----	-----	-877.	113.	-----	-----	-877.
0.95	54.63	-----	-56.	-----	-567.	246.	-----	-----	-1193.	246.	-----	-----	-1193.
1.00	57.50												

SPAN 2

XL	X	SW Top	SW Bot	SDL Top	SDL Bot	XL Top	XL Bot	LL Top Max-T	LL Top Max-C	LL Bot Max-T	LL Bot Max-C	PT Top	PT Bot
	ft	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
0.00	0.00												
0.05	2.88	889.	-2113.	178.	-424.	0.	0.	0.	0.	0.	0.	-821.	1342.
0.10	5.75	598.	-1422.	120.	-285.	0.	0.	0.	0.	0.	0.	-604.	828.
0.15	8.63	339.	-805.	68.	-161.	0.	0.	0.	0.	0.	0.	-413.	372.
0.20	11.50	110.	-262.	22.	-53.	0.	0.	0.	0.	0.	0.	-245.	-26.
0.25	14.38	-87.	206.	-17.	41.	0.	0.	0.	0.	0.	0.	-102.	-366.
0.30	17.25	-253.	601.	-51.	121.	0.	0.	0.	0.	0.	0.	16.	-647.
0.35	20.13	-388.	922.	-78.	185.	0.	0.	0.	0.	0.	0.	111.	-871.
0.40	23.00	-492.	1169.	-99.	234.	0.	0.	0.	0.	0.	0.	180.	-1037.
0.45	25.88	-565.	1342.	-113.	269.	0.	0.	0.	0.	0.	0.	226.	-1145.
0.50	28.75	-606.	1441.	-122.	289.	0.	0.	0.	0.	0.	0.	246.	-1194.
0.55	31.63	-617.	1466.	-124.	294.	0.	0.	0.	0.	0.	0.	245.	-1191.
0.60	34.50	-596.	1417.	-120.	284.	0.	0.	0.	0.	0.	0.	225.	-1142.
0.65	37.38	-545.	1294.	-109.	259.	0.	0.	0.	0.	0.	0.	184.	-1046.
0.70	40.25	-462.	1097.	-93.	220.	0.	0.	0.	0.	0.	0.	124.	-904.
0.75	43.13	-348.	826.	-70.	166.	0.	0.	0.	0.	0.	0.	43.	-711.
0.80	46.00	-203.	482.	-41.	97.	0.	0.	0.	0.	0.	0.	-56.	-475.
0.85	48.88	-26.	63.	-5.	13.	0.	0.	0.	0.	0.	0.	-175.	-193.
0.90	51.75	181.	-430.	36.	-86.	0.	0.	0.	0.	0.	0.	-313.	136.
0.95	54.63	419.	-997.	84.	-200.	0.	0.	0.	0.	0.	0.	-471.	511.
1.00	57.50												

XL	X	Initial Top Max-T	Initial Top Max-C	Initial Bot Max-T	Initial Bot Max-C	Env-1 Top Max-T	Env-1 Top Max-C	Env-1 Bot Max-T	Env-1 Bot Max-C	Env-2 Top Max-T	Env-2 Top Max-C	Env-2 Bot Max-T	Env-2 Bot Max-C
	ft	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
0.00	0.00												
0.05	2.88	-----	-55.	-----	-570.	247.	-----	-----	-1194.	247.	-----	-----	-1194.
0.10	5.75	-----	-97.	-----	-470.	114.	-----	-----	-879.	114.	-----	-----	-879.
0.15	8.63	-----	-136.	-----	-377.	-----	-6.	-----	-595.	-----	-6.	-----	-595.
0.20	11.50	-----	-171.	-----	-292.	-----	-113.	-----	-341.	-----	-113.	-----	-341.

0.25	14.38	-----	-204.	-----	-214.	-----	-206.	-----	-118.	-----	-206.	-----	-118.
0.30	17.25	-----	-234.	-----	-143.	-----	-287.	74.	-----	-----	-287.	74.	-----
0.35	20.13	-----	-261.	-----	-80.	-----	-355.	236.	-----	-----	-355.	236.	-----
0.40	23.00	-----	-285.	-----	-23.	-----	-410.	367.	-----	-----	-410.	367.	-----
0.45	25.88	-----	-305.	26.	-----	-----	-452.	467.	-----	-----	-452.	467.	-----
0.50	28.75	-----	-323.	68.	-----	-----	-481.	536.	-----	-----	-481.	536.	-----
0.55	31.63	-----	-335.	96.	-----	-----	-495.	569.	-----	-----	-495.	569.	-----
0.60	34.50	-----	-338.	104.	-----	-----	-491.	559.	-----	-----	-491.	559.	-----
0.65	37.38	-----	-333.	91.	-----	-----	-469.	507.	-----	-----	-469.	507.	-----
0.70	40.25	-----	-319.	58.	-----	-----	-430.	413.	-----	-----	-430.	413.	-----
0.75	43.13	-----	-298.	9.	-----	-----	-374.	281.	-----	-----	-374.	281.	-----
0.80	46.00	-----	-267.	-----	-65.	-----	-299.	103.	-----	-----	-299.	103.	-----
0.85	48.88	-----	-227.	-----	-159.	-----	-206.	-----	-118.	-----	-206.	-----	-118.
0.90	51.75	-----	-179.	-----	-274.	-----	-96.	-----	-381.	-----	-96.	-----	-381.
0.95	54.63	-----	-122.	-----	-409.	33.	-----	-----	-686.	33.	-----	-----	-686.
1.00	57.50												

28 - REQUIRED POST-TENSIONING

Note: Required post-tensioning force based on stress conditions

XL	X	PT	X	PT
	ft	k	ft	k
	SPAN 1		SPAN 2	
0.00	0.00	---	0.00	---
0.05	2.88	0.00	2.88	434.57
0.10	5.75	0.00	5.75	176.66
0.15	8.63	0.00	8.63	0.00
0.20	11.50	13.36	11.50	0.00
0.25	14.38	424.45	14.38	0.00
0.30	17.25	593.46	17.25	168.80
0.35	20.13	674.44	20.13	442.11
0.40	23.00	710.29	23.00	576.18
0.45	25.88	716.10	25.88	651.92
0.50	28.75	696.32	28.75	696.10
0.55	31.63	652.00	31.63	715.74
0.60	34.50	576.14	34.50	709.75
0.65	37.38	441.95	37.38	673.75
0.70	40.25	168.63	40.25	592.59
0.75	43.13	0.00	43.13	425.78
0.80	46.00	0.00	46.00	13.34
0.85	48.88	0.00	48.88	0.00
0.90	51.75	176.44	51.75	0.00
0.95	54.63	434.14	54.63	0.00
1.00	57.50	---	57.50	---

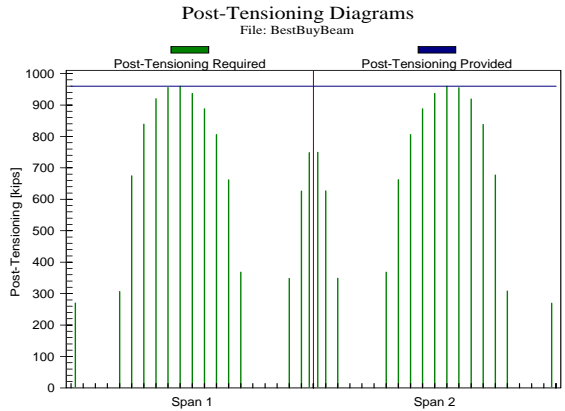
31 - DETAILED FRICTION AND LONGTERM STRESS LOSSES

TENDON_A

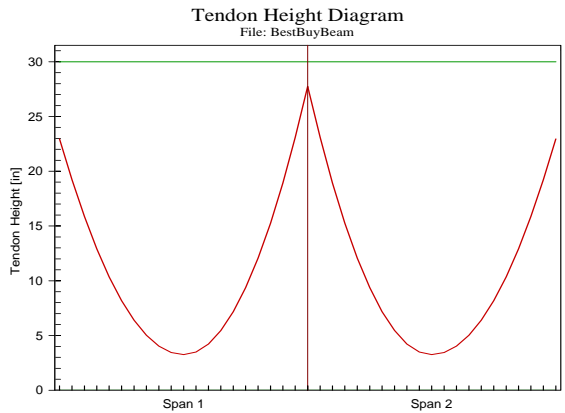
XL	X	Initial Stress	Longterm Loss	Final Stress	X	Initial Stress	Longterm Loss	Final Stress
	ft	ksi	ksi	ksi	ft	ksi	ksi	ksi
	SPAN 1				SPAN 2			
0.00	0.00	40.85	8.13	32.72	0.00	21.53	8.13	13.40

Project Name: Specific Title:
File Name: BestBuyBeam Date of Generation: Monday, April 06, 2009

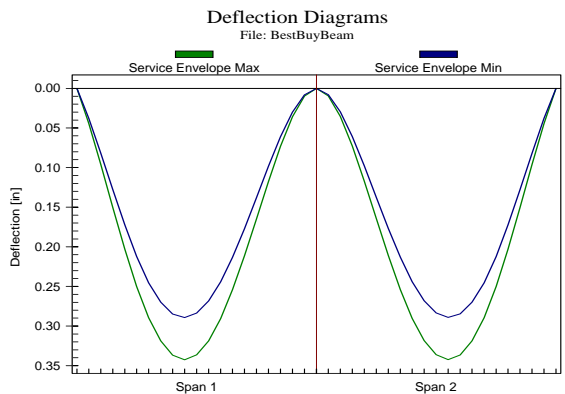
0.05	2.88	39.98	8.13	31.85	2.88	17.10	8.13	8.98
0.10	5.75	38.95	8.13	30.82	5.75	16.16	8.13	8.02
0.15	8.63	37.92	8.13	29.79	8.63	15.19	8.13	7.06
0.20	11.50	36.89	8.13	28.76	11.50	14.24	8.13	6.12
0.25	14.38	35.87	8.13	27.74	14.38	13.30	8.13	5.17
0.30	17.25	34.86	8.13	26.73	17.25	12.36	8.13	4.23
0.35	20.13	33.84	8.13	25.71	20.13	11.42	8.13	3.29
0.40	23.00	32.84	8.13	24.71	23.00	10.49	8.13	2.36
0.45	25.88	31.84	8.13	23.71	25.88	9.57	8.13	1.44
0.50	28.75	30.84	8.13	22.71	28.75	8.64	8.13	0.51
0.55	31.63	29.83	8.13	21.70	31.63	7.75	8.13	0.00
0.60	34.50	28.80	8.13	20.67	34.50	6.87	8.13	0.00
0.65	37.38	27.79	8.13	19.66	37.38	6.00	8.13	0.00
0.70	40.25	26.76	8.13	18.63	40.25	5.13	8.13	0.00
0.75	43.13	26.52	8.13	18.39	43.13	4.26	8.13	0.00
0.80	46.00	25.52	8.13	17.39	46.00	3.40	8.13	0.00
0.85	48.88	24.52	8.13	16.39	48.88	2.55	8.13	0.00
0.90	51.75	23.52	8.13	15.39	51.75	1.69	8.13	0.00
0.95	54.63	22.53	8.13	14.40	54.63	0.84	8.13	0.00
1.00	57.50	21.53	8.13	13.40	57.50	0.00	8.13	0.00



**POST-TENSIONING
 REQUIRED AND PROVIDED**

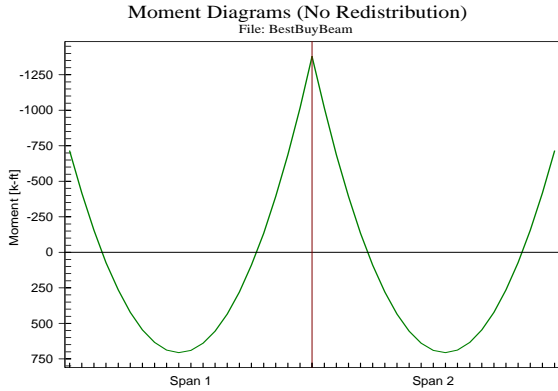


**POST-TENSIONING
 PROFILE**

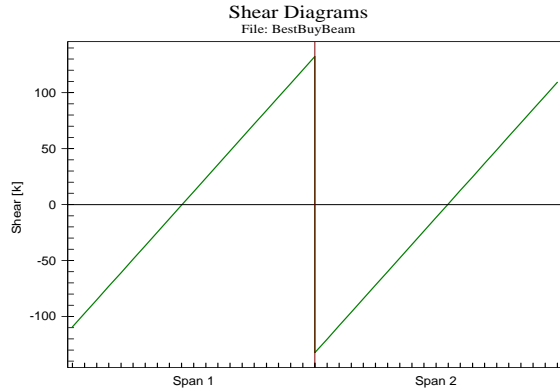


DEFLECTION

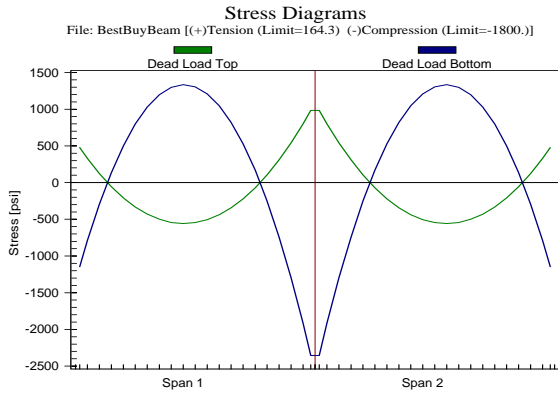
LOAD CASE: Selfweight



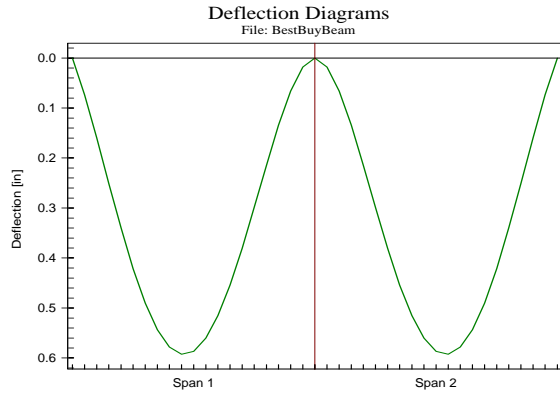
MOMENT



SHEAR

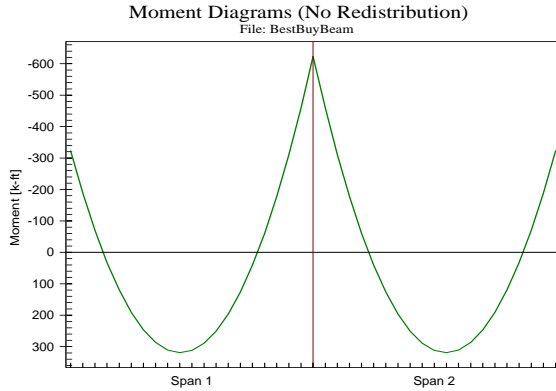


STRESS

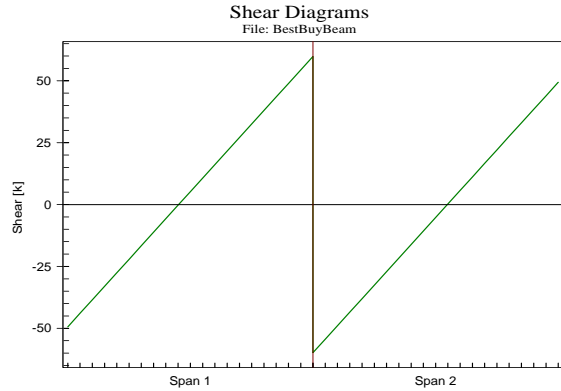


DEFLECTION

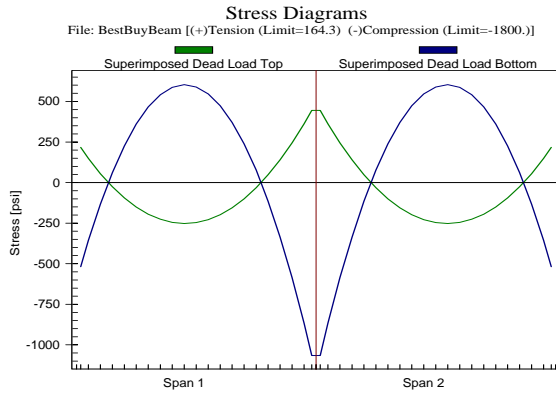
LOAD CASE: Super Imposed Dead Load



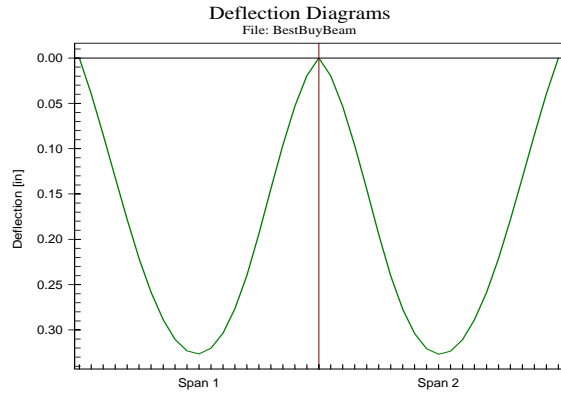
MOMENT



SHEAR

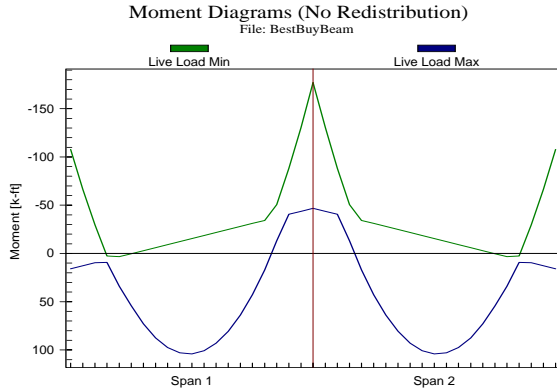


STRESS

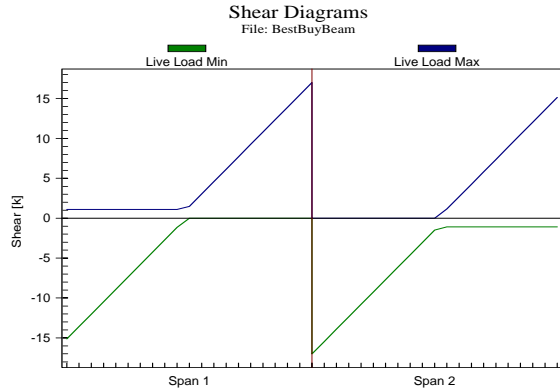


DEFLECTION

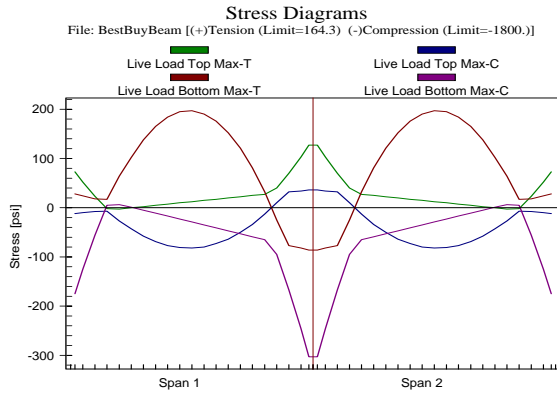
LOAD CASE: Live Load



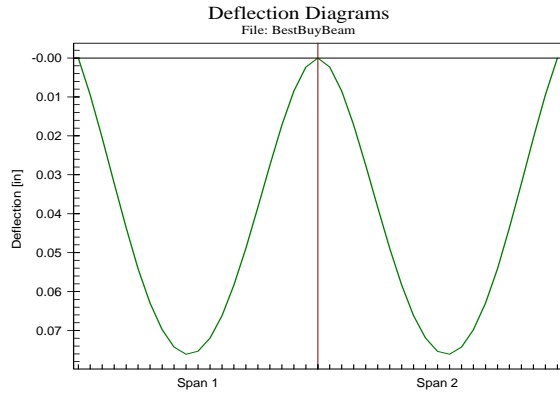
MOMENT



SHEAR

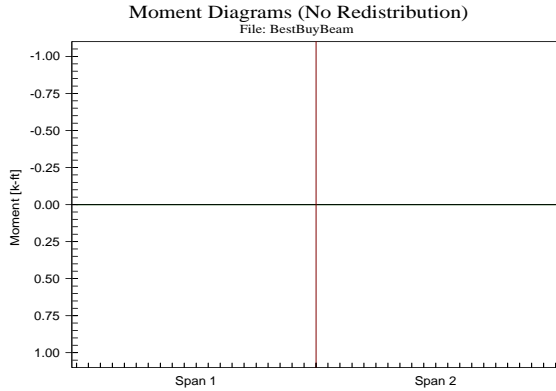


STRESS

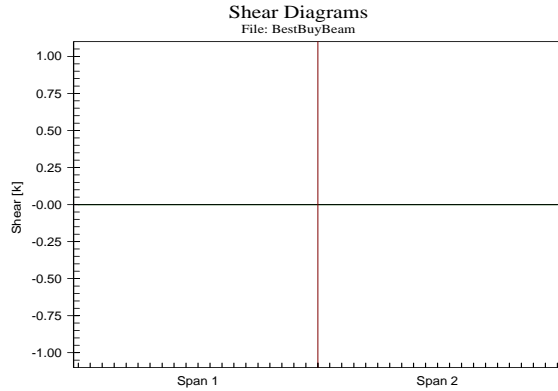


DEFLECTION

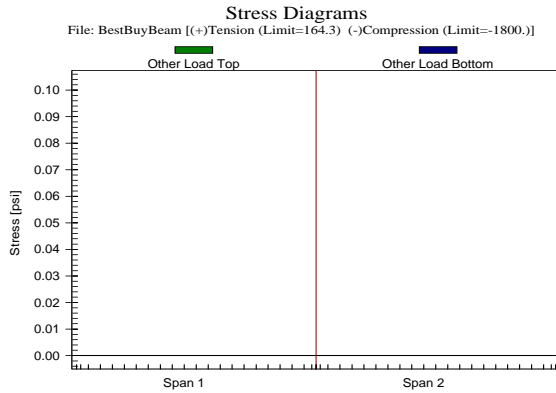
LOAD CASE: Other Load



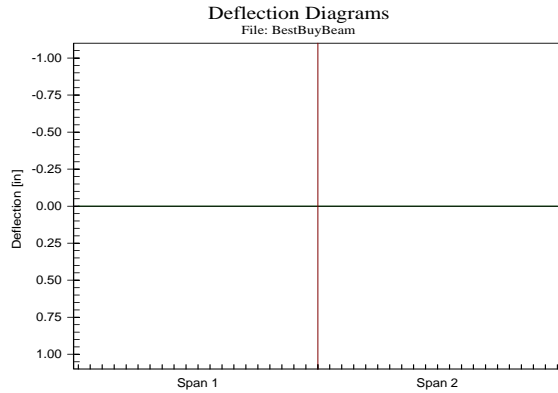
MOMENT



SHEAR

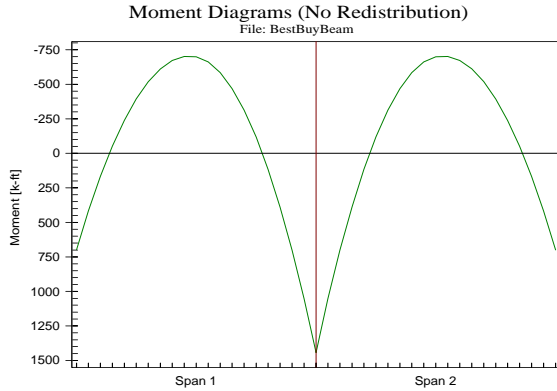


STRESS

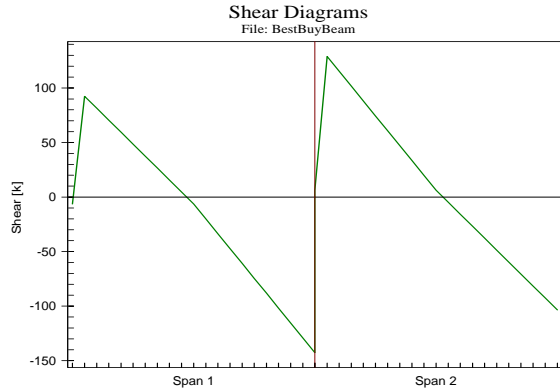


DEFLECTION

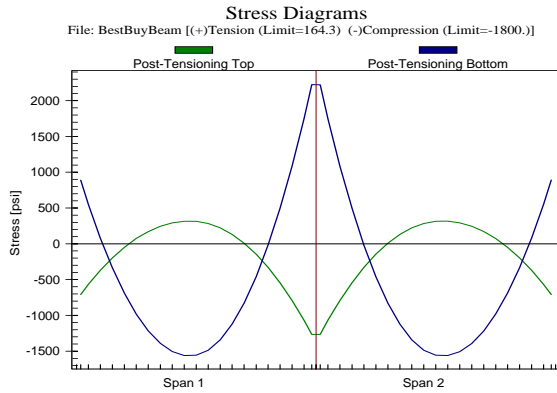
LOAD CASE: Prestressing Load



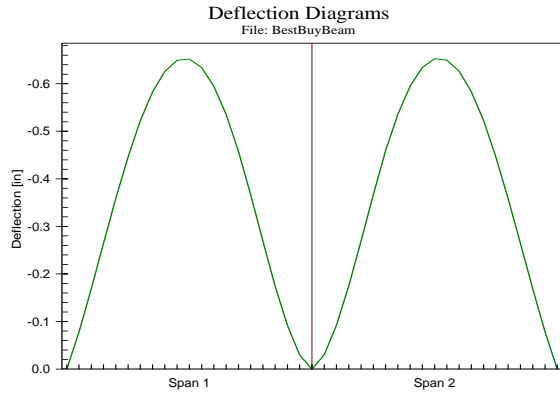
MOMENT



SHEAR

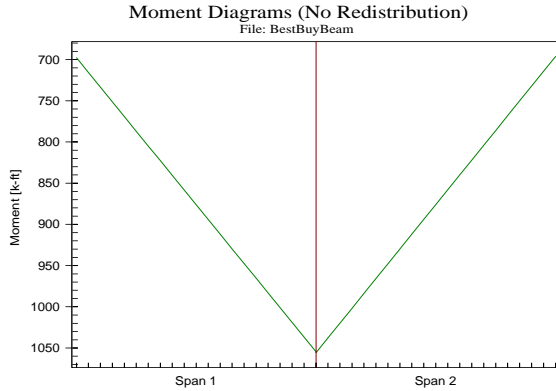


STRESS

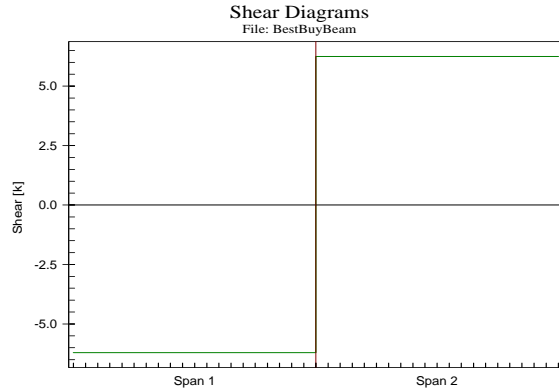


DEFLECTION

LOAD CASE: Hyper Static Load



MOMENT

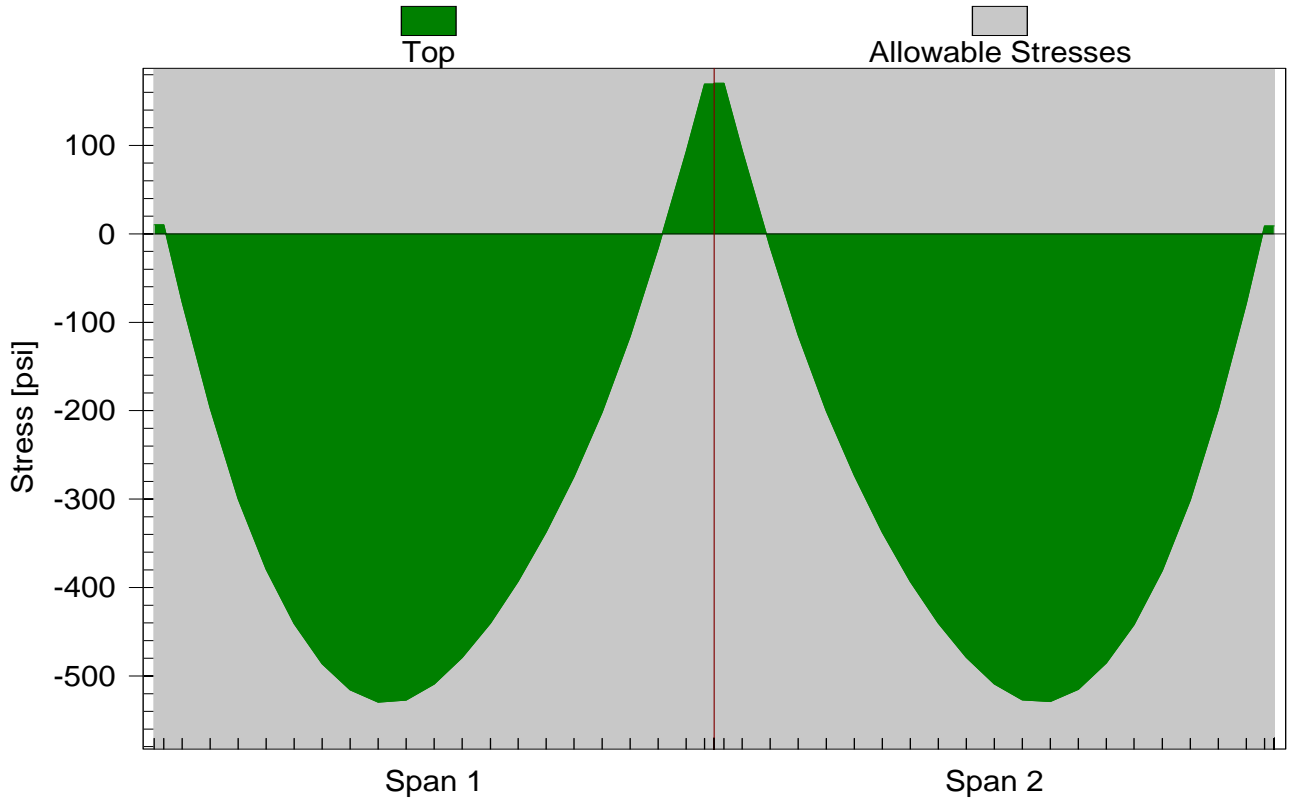


SHEAR

LOAD COMBINATION: SERVICE_1_Min_LL

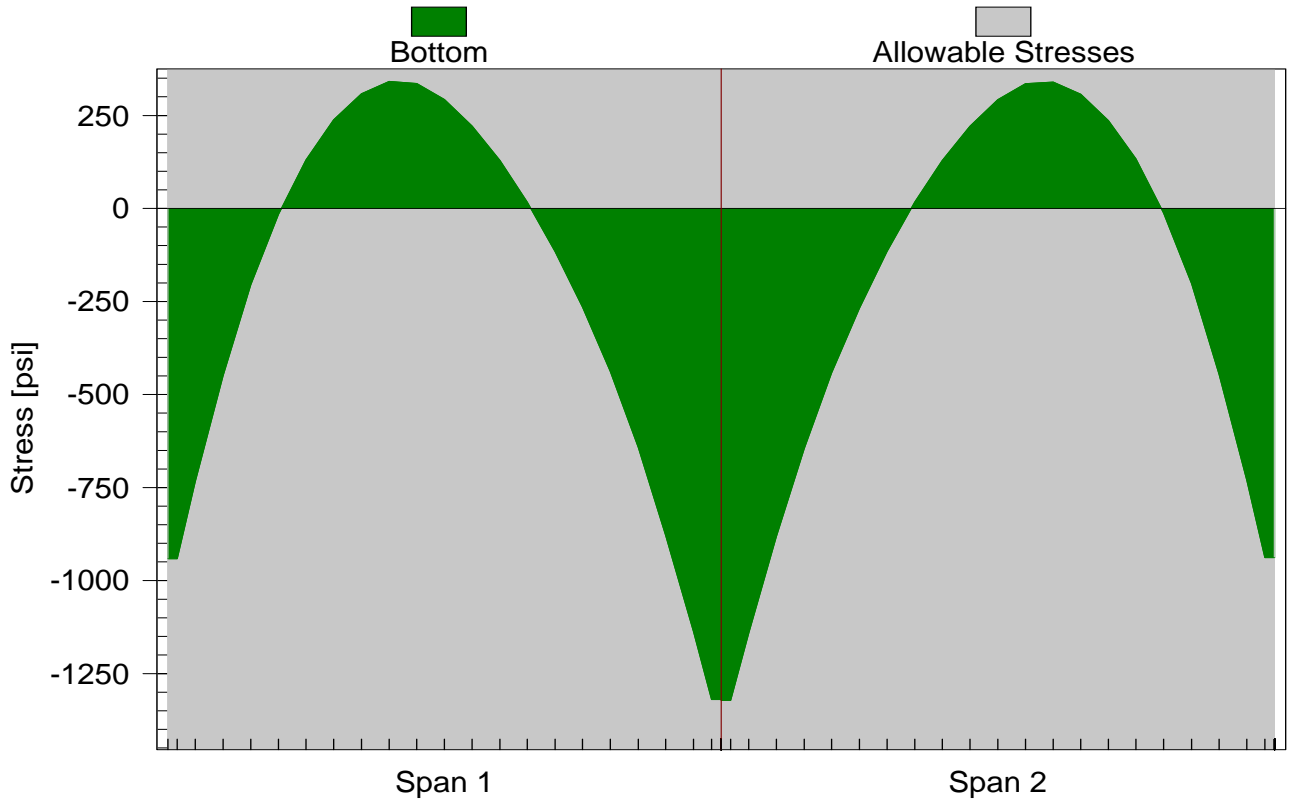
Stress Diagrams

Project: "" / Load Case: SERVICE_1_Min_LL
+1.00 SW +0.30 LL_Min +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



Stress Diagrams

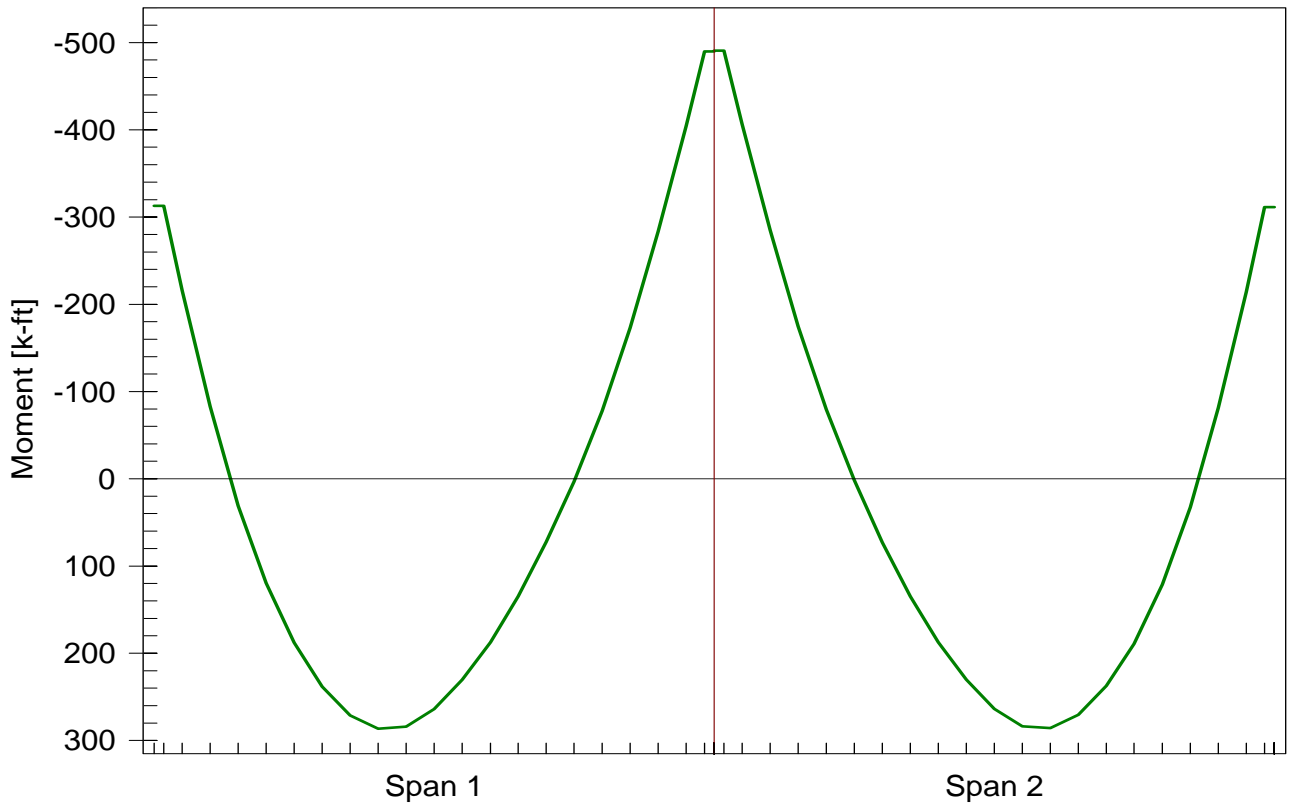
Project: "" / Load Case: SERVICE_1_Min_LL
+1.00 SW +0.30 LL_Min +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

Project: "" / Load Case: SERVICE_1_Min_LL
+1.00 SW +0.30 LL_Min +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT
Moment Drawn on Tension Side

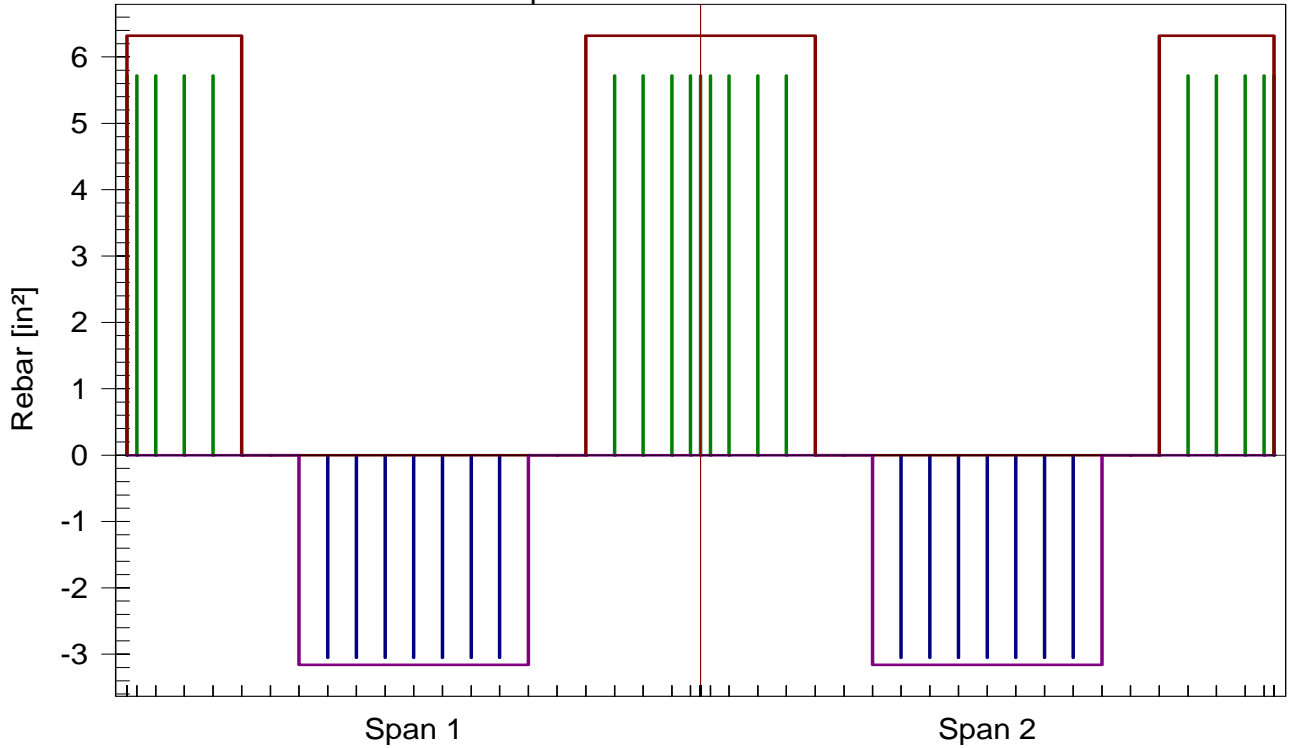


DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: SERVICE_1_Min_LL
+1.00 SW +0.30 LL_Min +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT

Rebar Required Top Rebar Required Bottom
Rebar Provided Top Rebar Provided Bottom

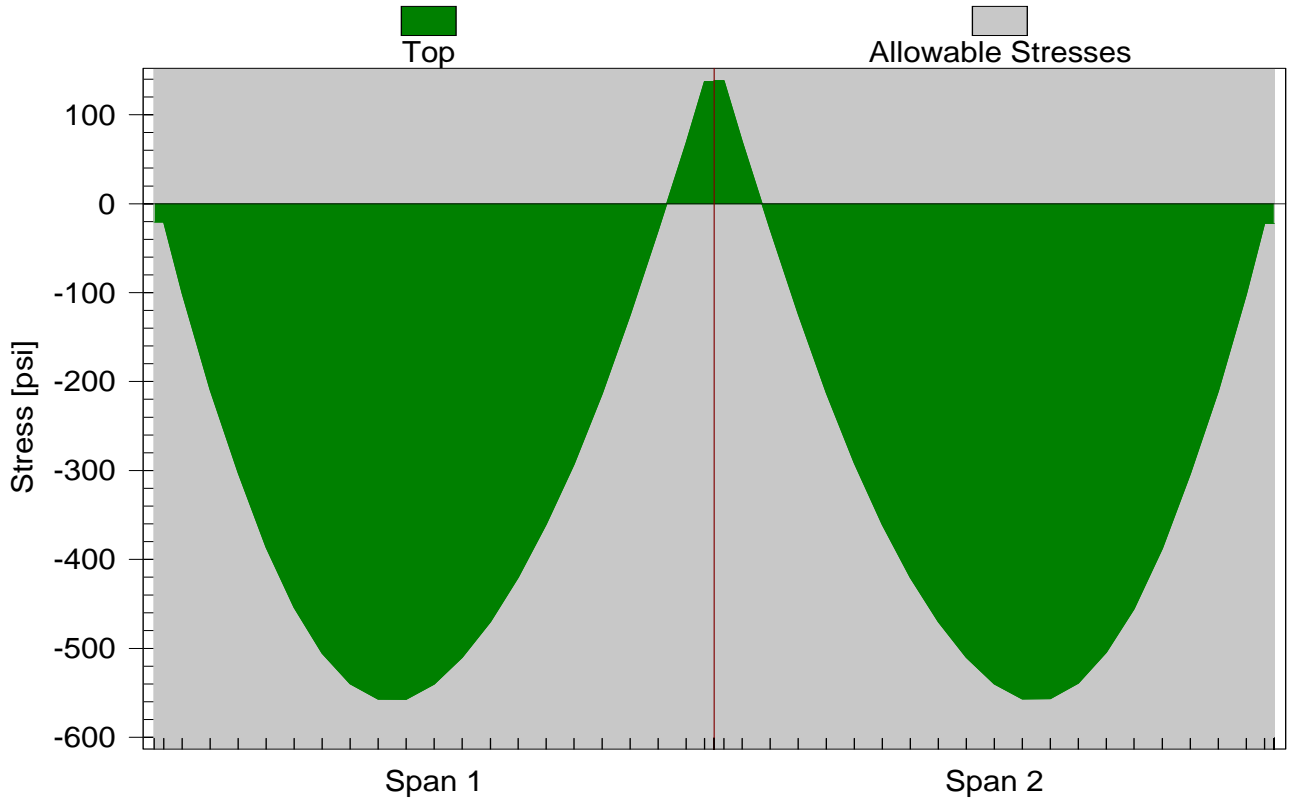


**REINFORCEMENT
REQUIRED AND PROVIDED**

LOAD COMBINATION: SERVICE_1_Max_LL

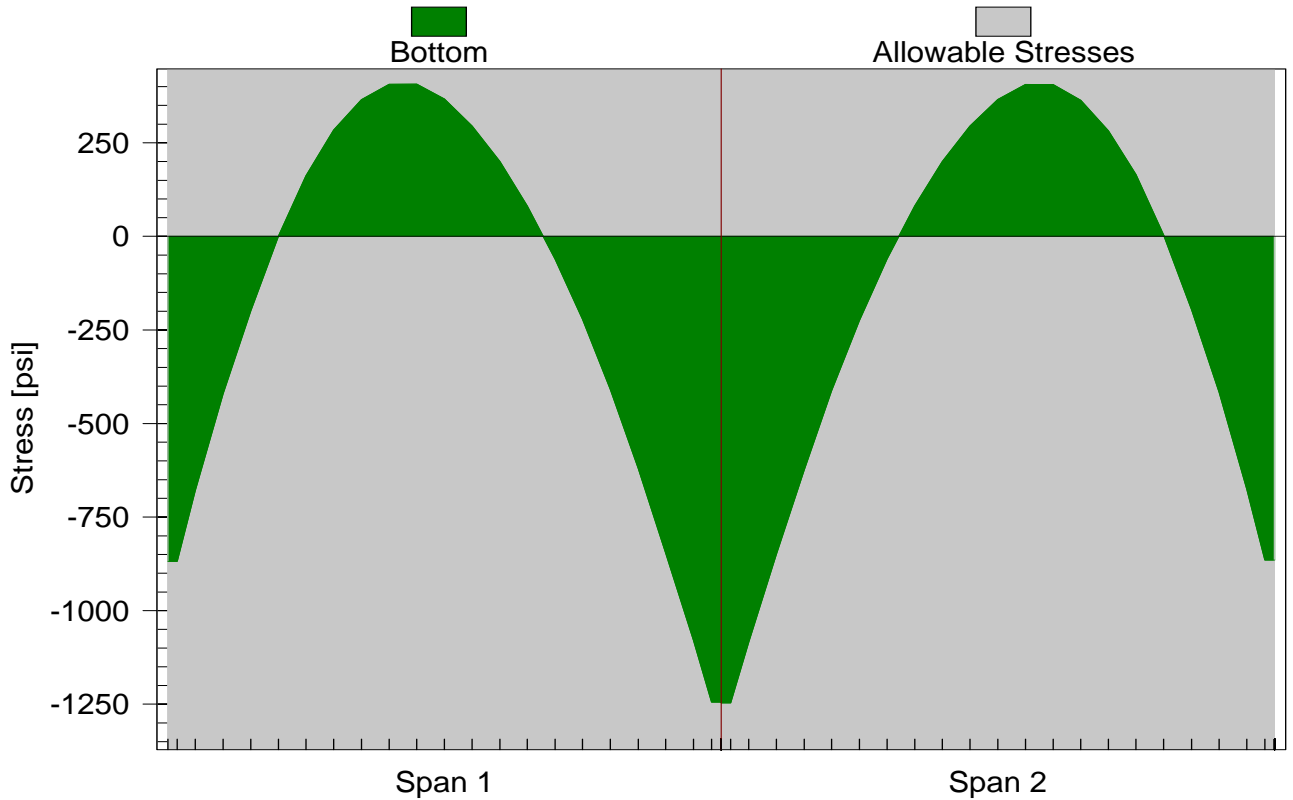
Stress Diagrams

Project: "" / Load Case: SERVICE_1_Max_LL
+1.00 SW +0.30 LL_Max +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



Stress Diagrams

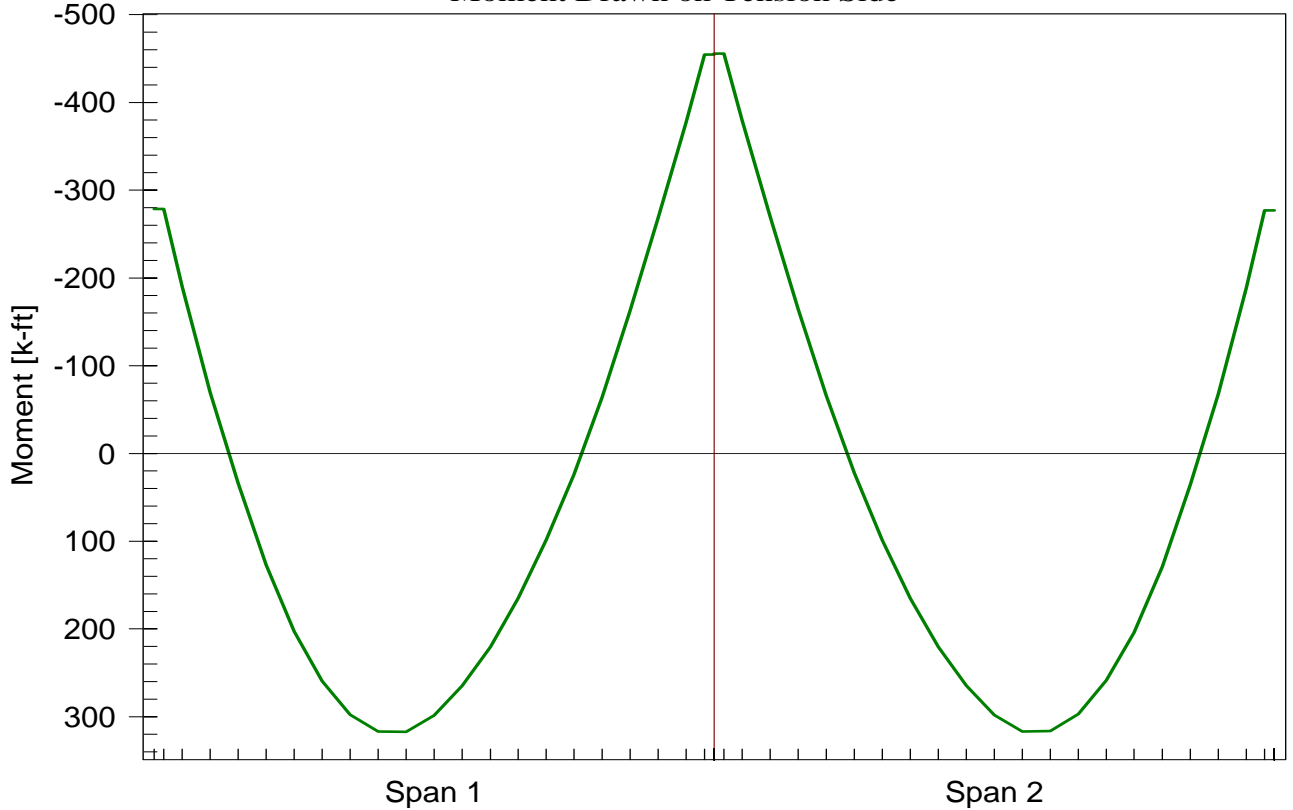
Project: "" / Load Case: SERVICE_1_Max_LL
+1.00 SW +0.30 LL_Max +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

Project: "" / Load Case: SERVICE_1_Max_LL
+1.00 SW +0.30 LL_Max +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT
Moment Drawn on Tension Side

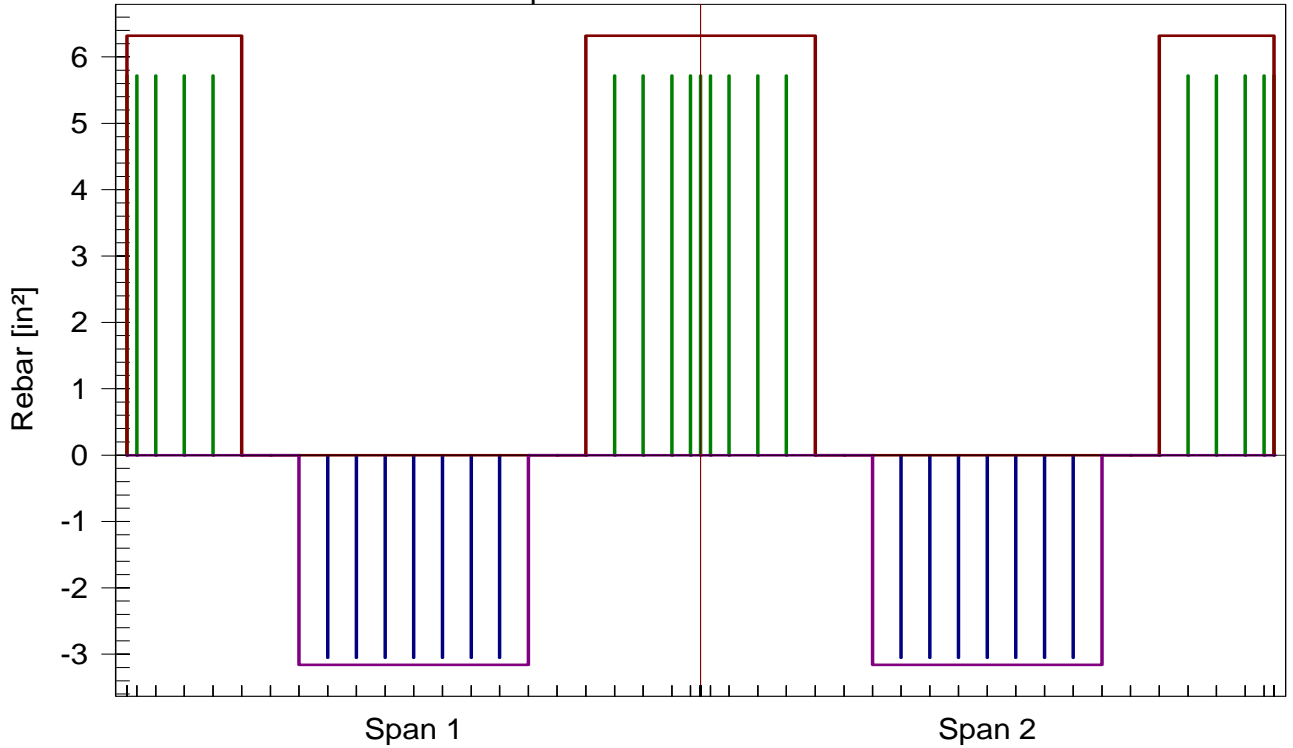


DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: SERVICE_1_Max_LL
 +1.00 SW +0.30 LL_Max +1.00 SDL +0.30 XL +1.00 PT +0.00 HYP +0.00 LAT

█ Rebar Required Top █ Rebar Required Bottom
█ Rebar Provided Top █ Rebar Provided Bottom

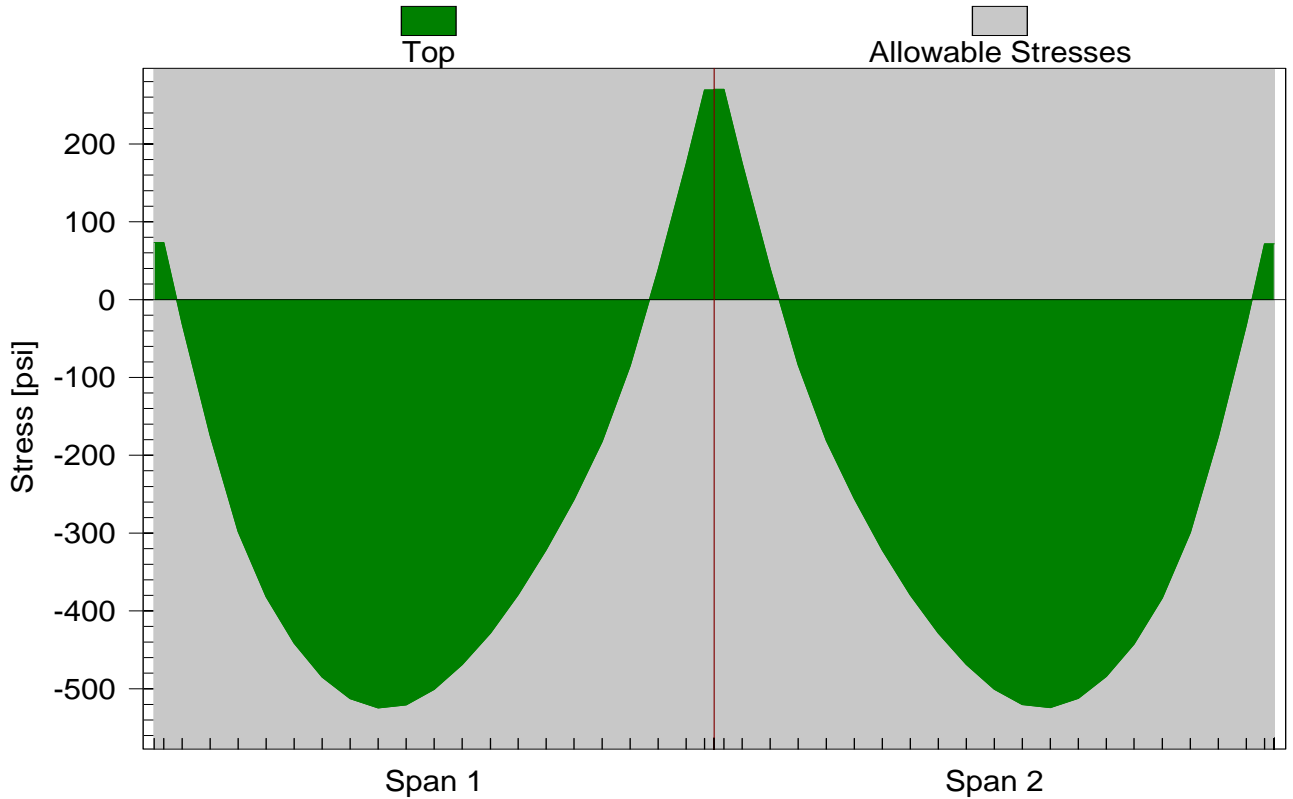


REINFORCEMENT REQUIRED AND PROVIDED

LOAD COMBINATION: SERVICE_2_Min_LL

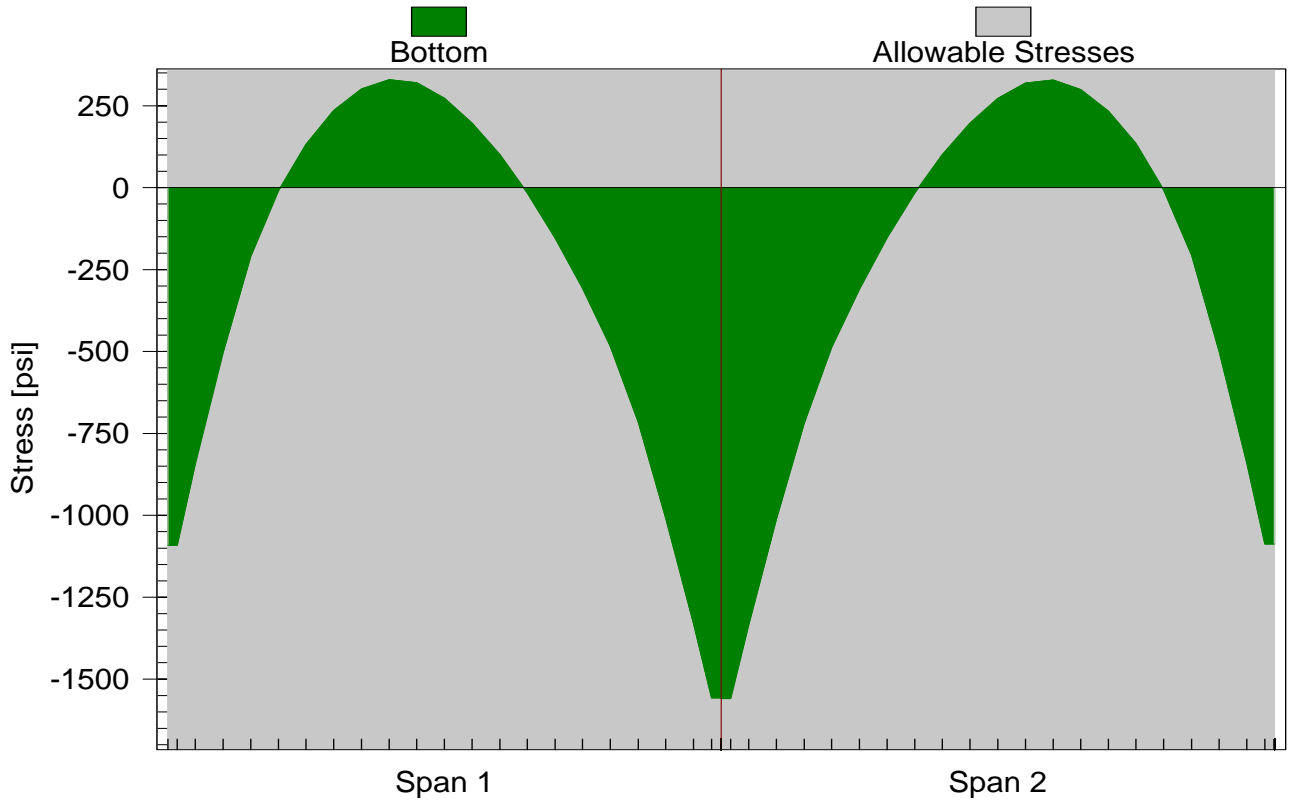
Stress Diagrams

Project: "" / Load Case: SERVICE_2_Min_LL
+1.00 SW +1.00 LL_Min +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



Stress Diagrams

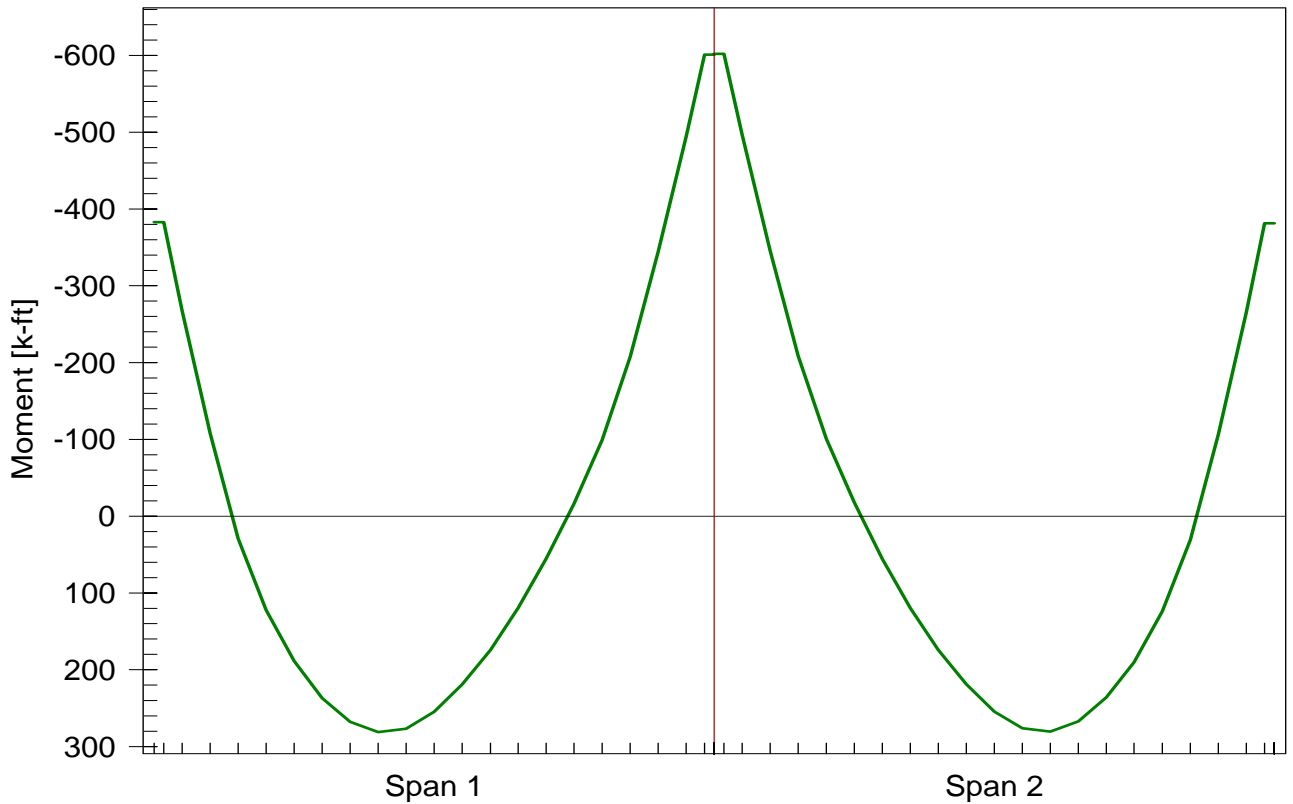
Project: "" / Load Case: SERVICE_2_Min_LL
+1.00 SW +1.00 LL_Min +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

Project: "" / Load Case: SERVICE_2_Min_LL
+1.00 SW +1.00 LL_Min +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT
Moment Drawn on Tension Side

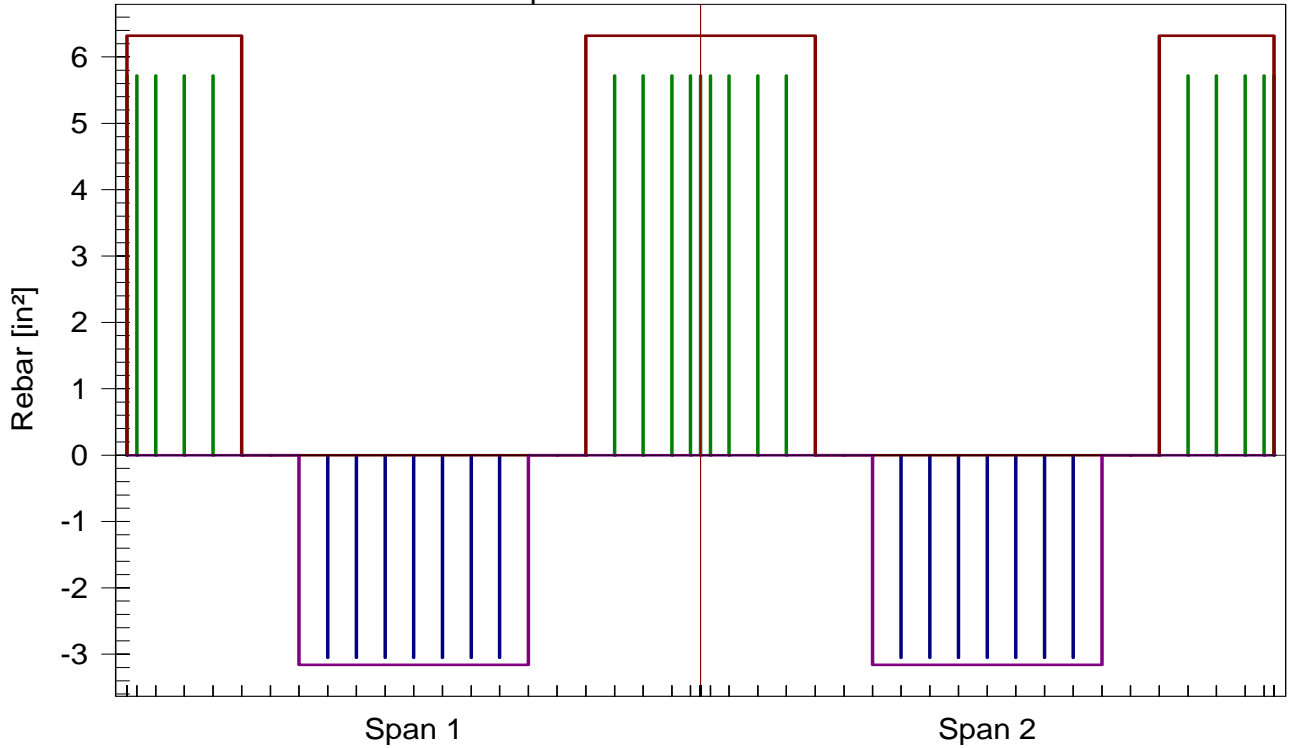


DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: SERVICE_2_Min_LL
 +1.00 SW +1.00 LL_Min +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT

█ Rebar Required Top █ Rebar Required Bottom
█ Rebar Provided Top █ Rebar Provided Bottom

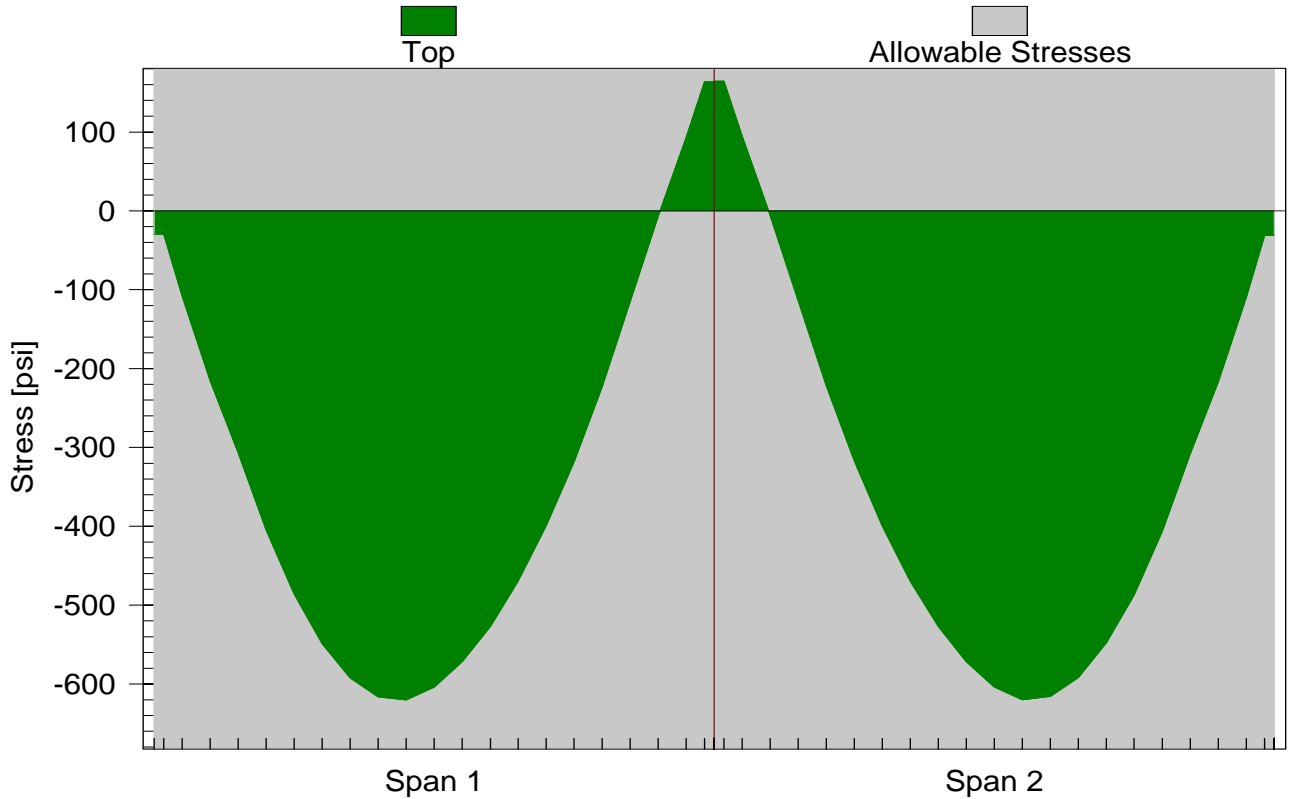


**REINFORCEMENT
 REQUIRED AND PROVIDED**

LOAD COMBINATION: SERVICE_2_Max_LL

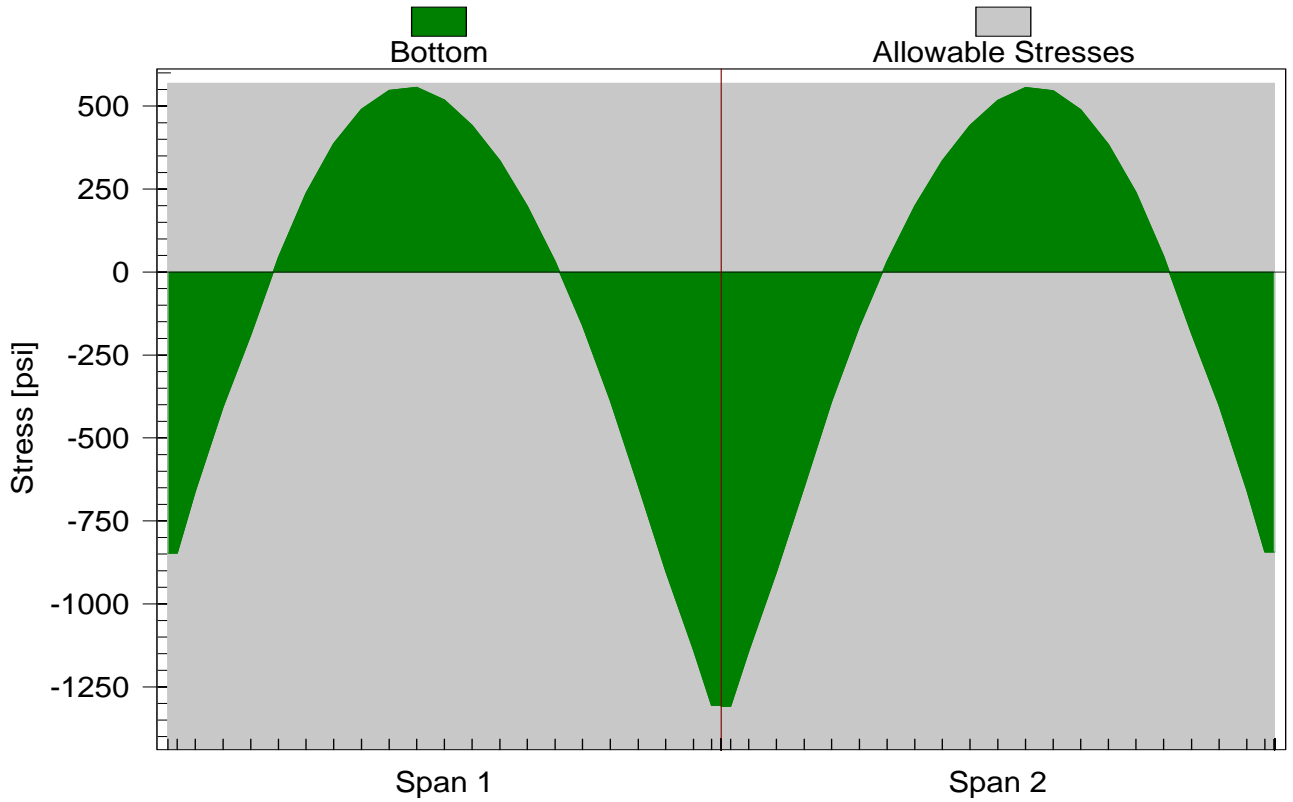
Stress Diagrams

Project: "" / Load Case: SERVICE_2_Max_LL
+1.00 SW +1.00 LL_Max +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



Stress Diagrams

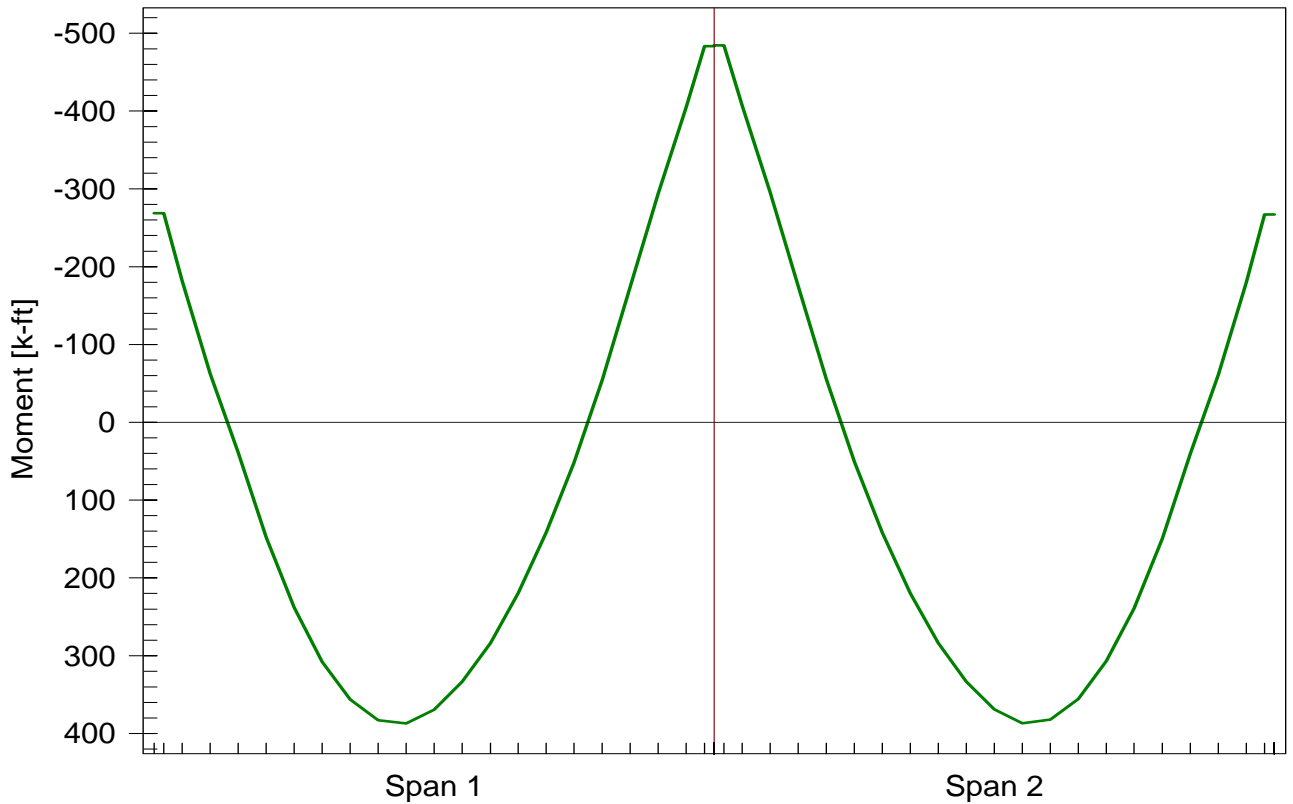
Project: "" / Load Case: SERVICE_2_Max_LL
+1.00 SW +1.00 LL_Max +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

Project: "" / Load Case: SERVICE_2_Max_LL
+1.00 SW +1.00 LL_Max +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT
Moment Drawn on Tension Side

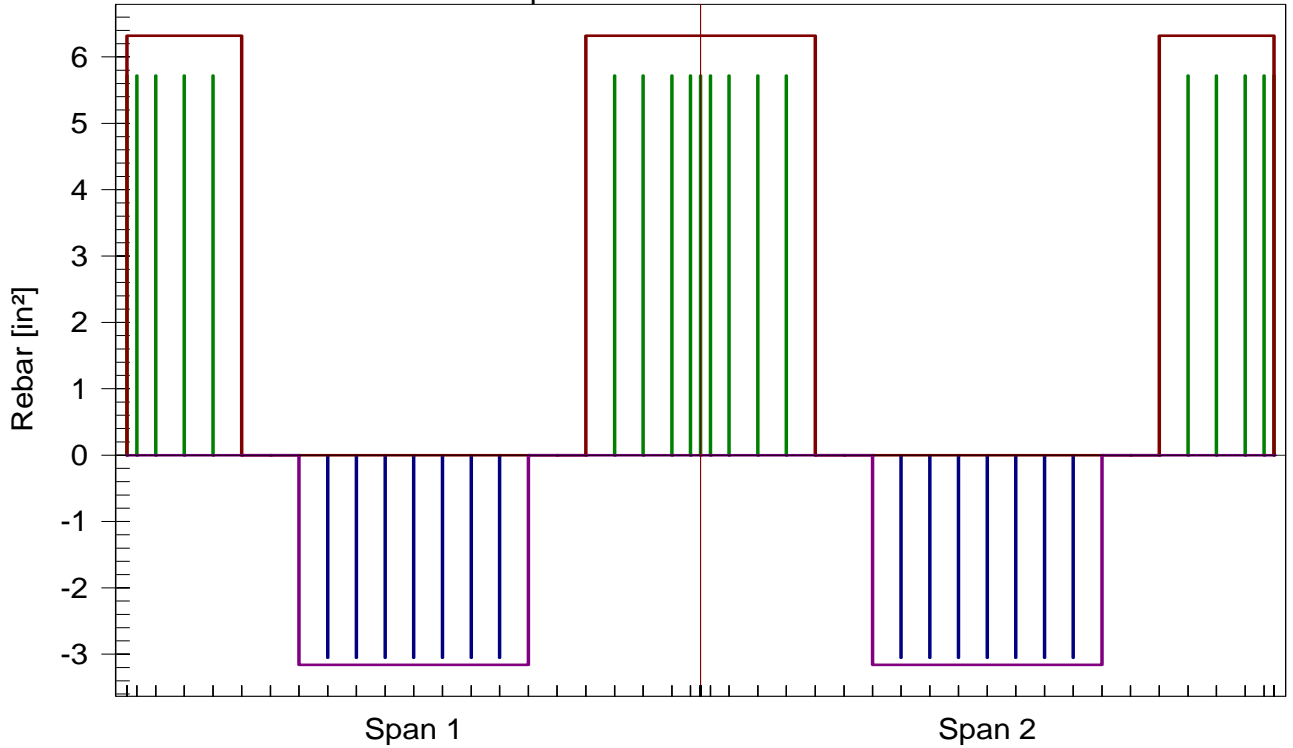


DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: SERVICE_2_Max_LL
 +1.00 SW +1.00 LL_Max +1.00 SDL +1.00 XL +1.00 PT +0.00 HYP +0.00 LAT

█ Rebar Required Top █ Rebar Required Bottom
█ Rebar Provided Top █ Rebar Provided Bottom

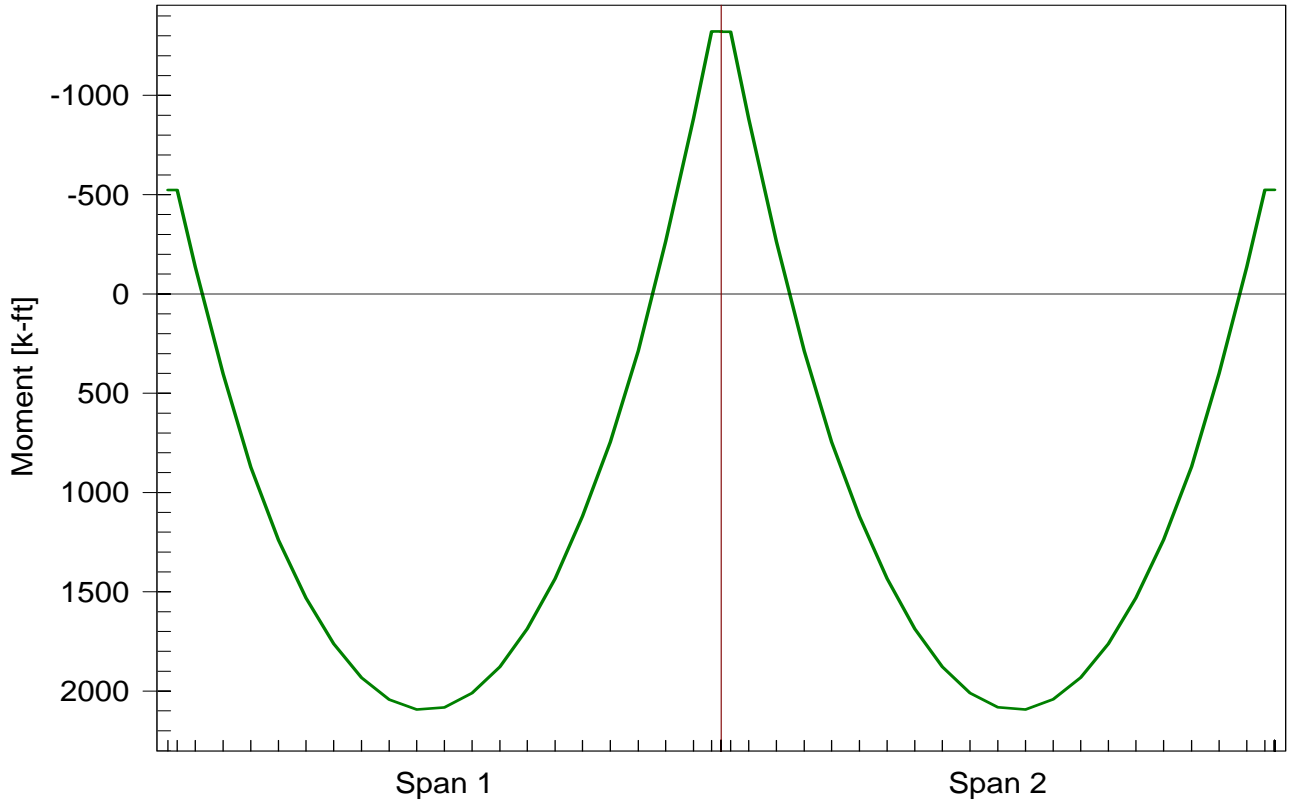


REINFORCEMENT REQUIRED AND PROVIDED

LOAD COMBINATION: STRENGTH_1_Min_LL

Moment Diagrams

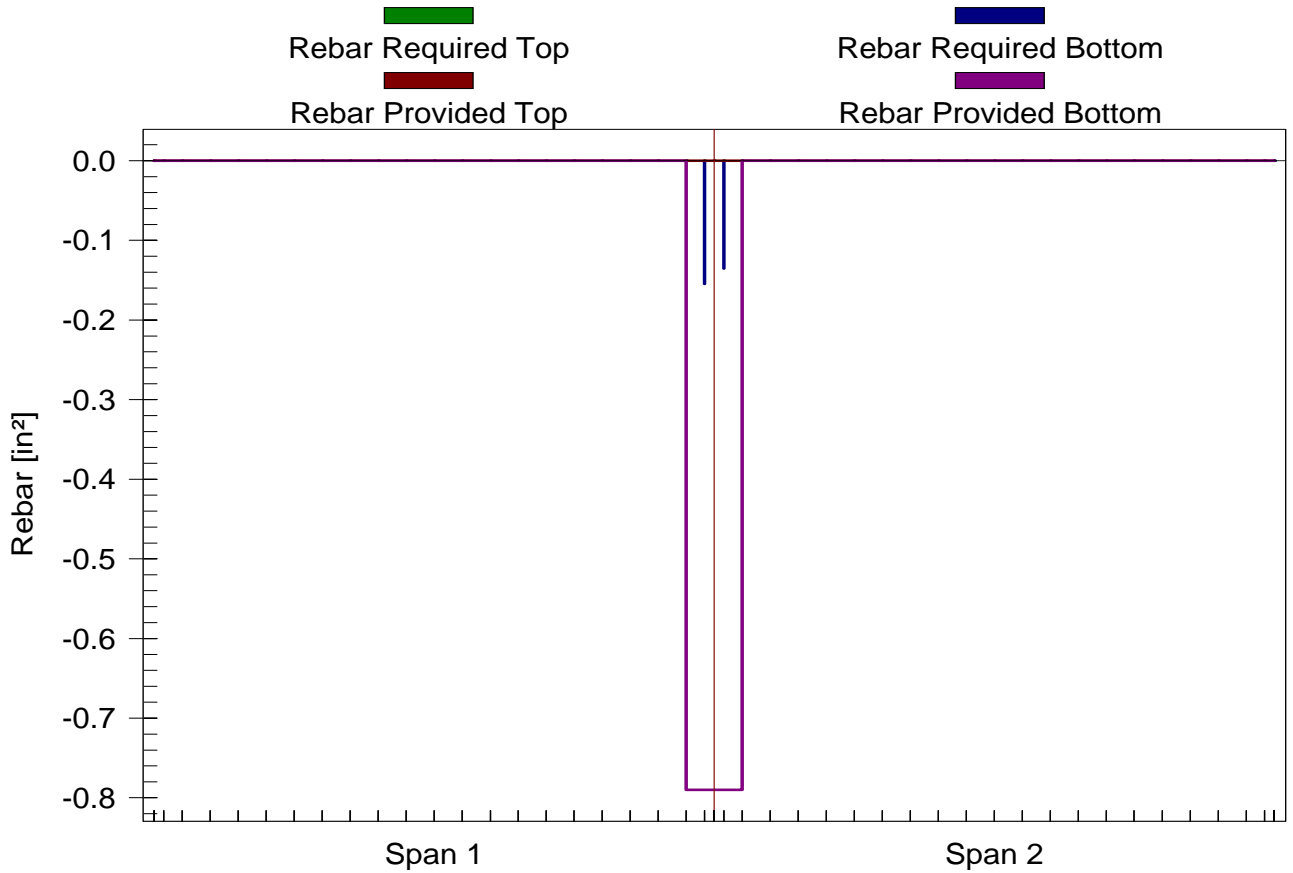
Project: "" / Load Case: STRENGTH_1_Min_LL
+1.20 SW +1.60 LL_Min +1.20 SDL +1.60 XL +0.00 PT +1.00 HYP +0.00 LAT
Moment Drawn on Tension Side



DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: STRENGTH_1_Min_LL
+1.20 SW +1.60 LL_Min +1.20 SDL +1.60 XL +0.00 PT +1.00 HYP +0.00 LAT

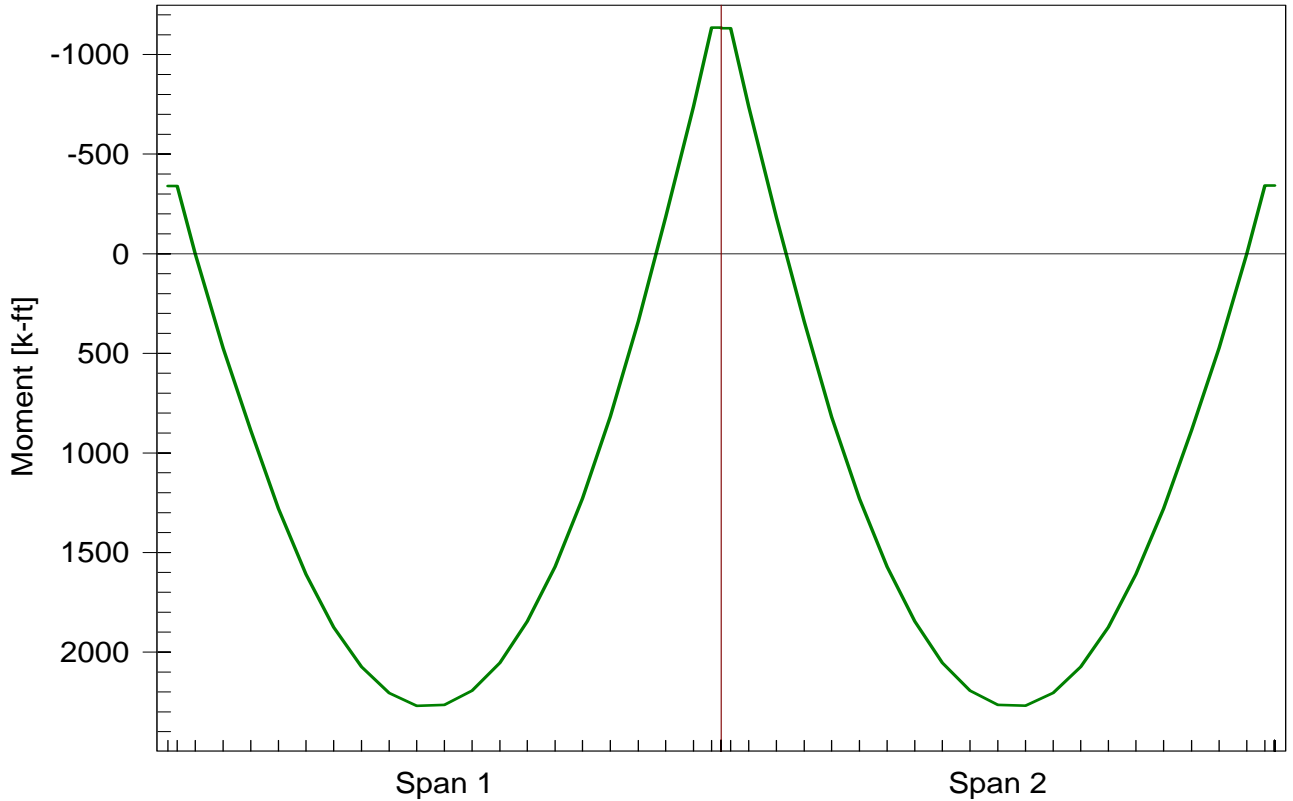


REINFORCEMENT REQUIRED AND PROVIDED

LOAD COMBINATION: STRENGTH_1_Max_LL

Moment Diagrams

Project: "" / Load Case: STRENGTH_1_Max_LL
+1.20 SW +1.60 LL_Max +1.20 SDL +1.60 XL +0.00 PT +1.00 HYP +0.00 LAT
Moment Drawn on Tension Side

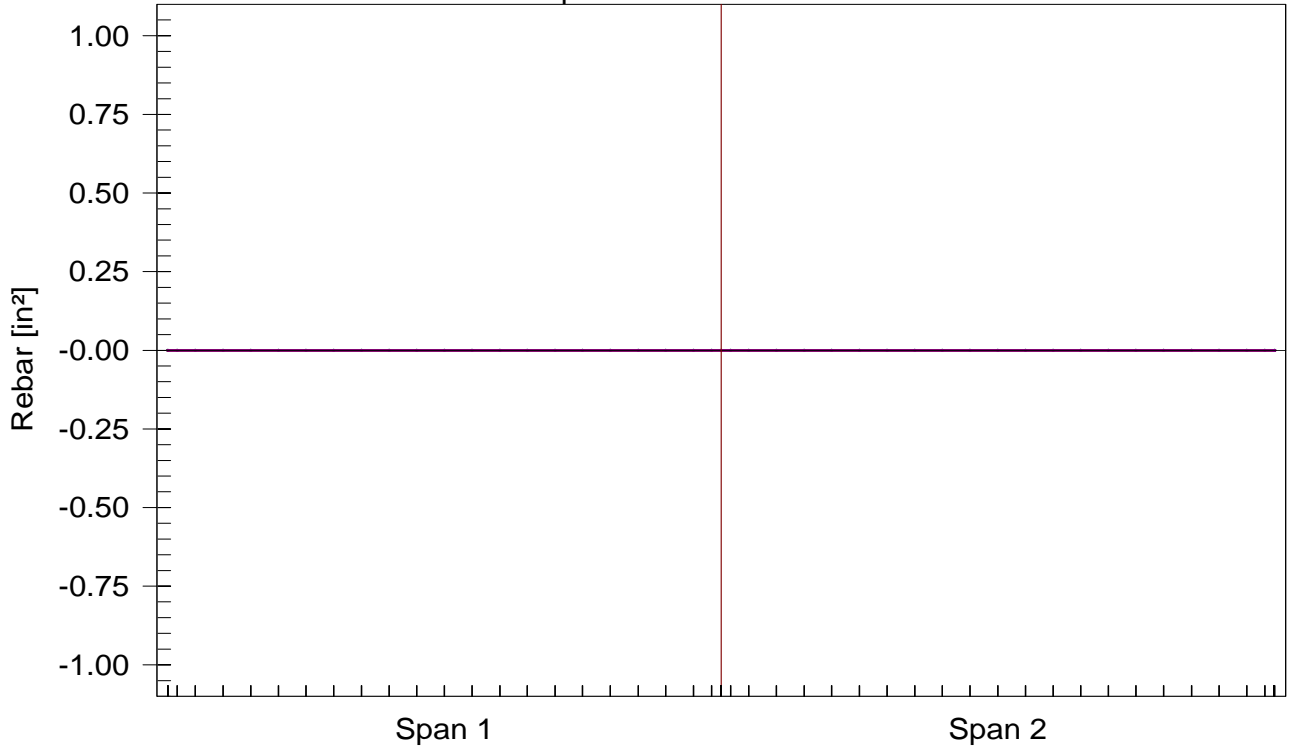


DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: STRENGTH_1_Max_LL
+1.20 SW +1.60 LL_Max +1.20 SDL +1.60 XL +0.00 PT +1.00 HYP +0.00 LAT

Rebar Required Top Rebar Required Bottom
Rebar Provided Top Rebar Provided Bottom

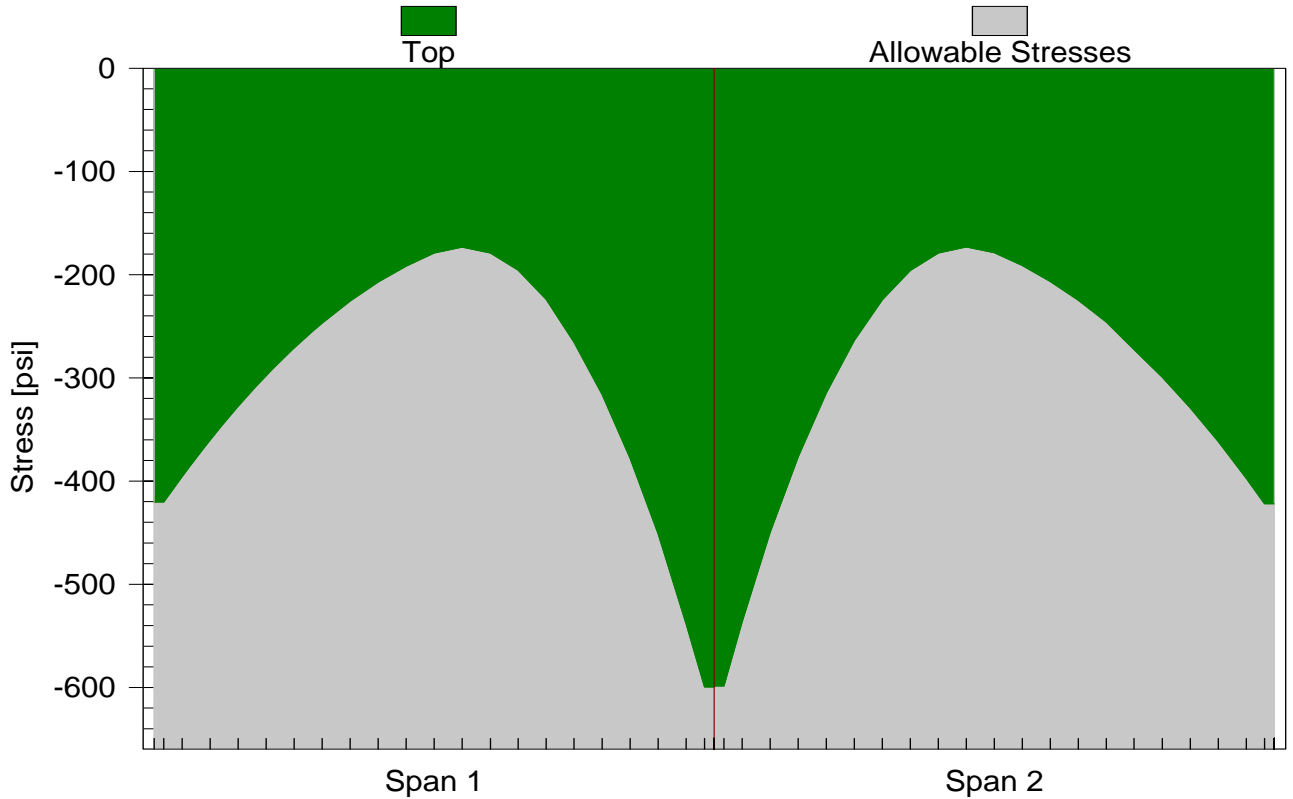


REINFORCEMENT REQUIRED AND PROVIDED

LOAD COMBINATION: INITIAL_MIN_LL

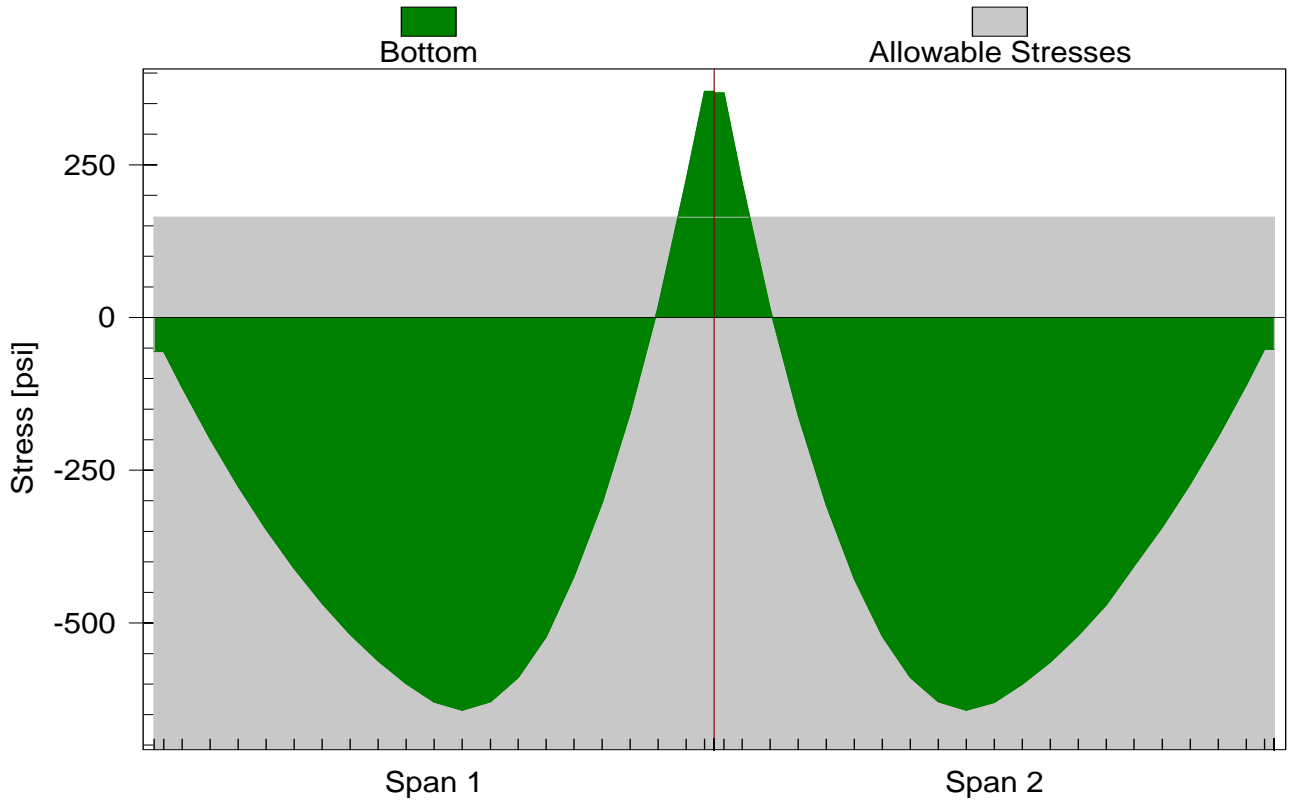
Stress Diagrams

Project: "" / Load Case: INITIAL_MIN_LL
+1.00 SW +0.00 LL_Min +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



Stress Diagrams

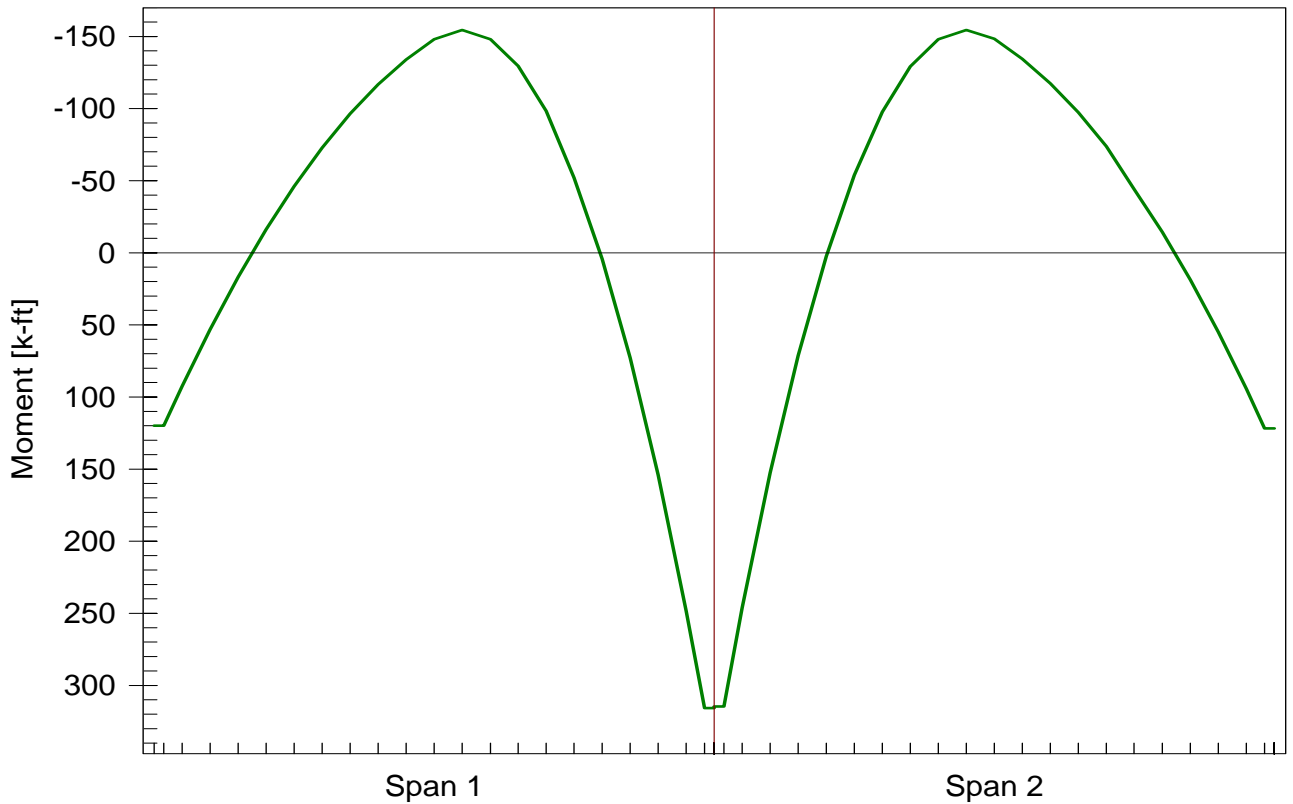
Project: "" / Load Case: INITIAL_MIN_LL
+1.00 SW +0.00 LL_Min +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

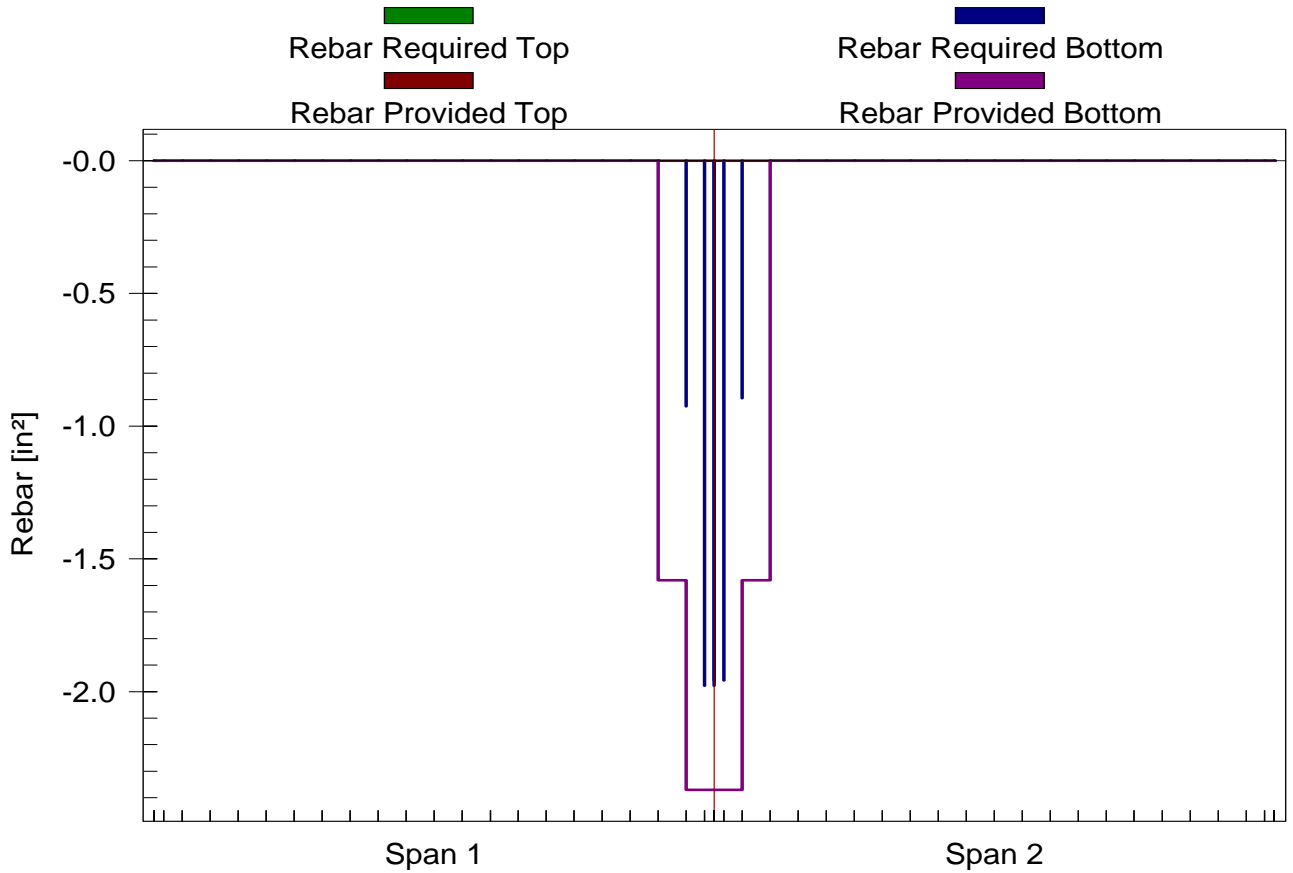
Project: "" / Load Case: INITIAL_MIN_LL
+1.00 SW +0.00 LL_Min +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT
Moment Drawn on Tension Side



DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: INITIAL_MIN_LL
+1.00 SW +0.00 LL_Min +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT

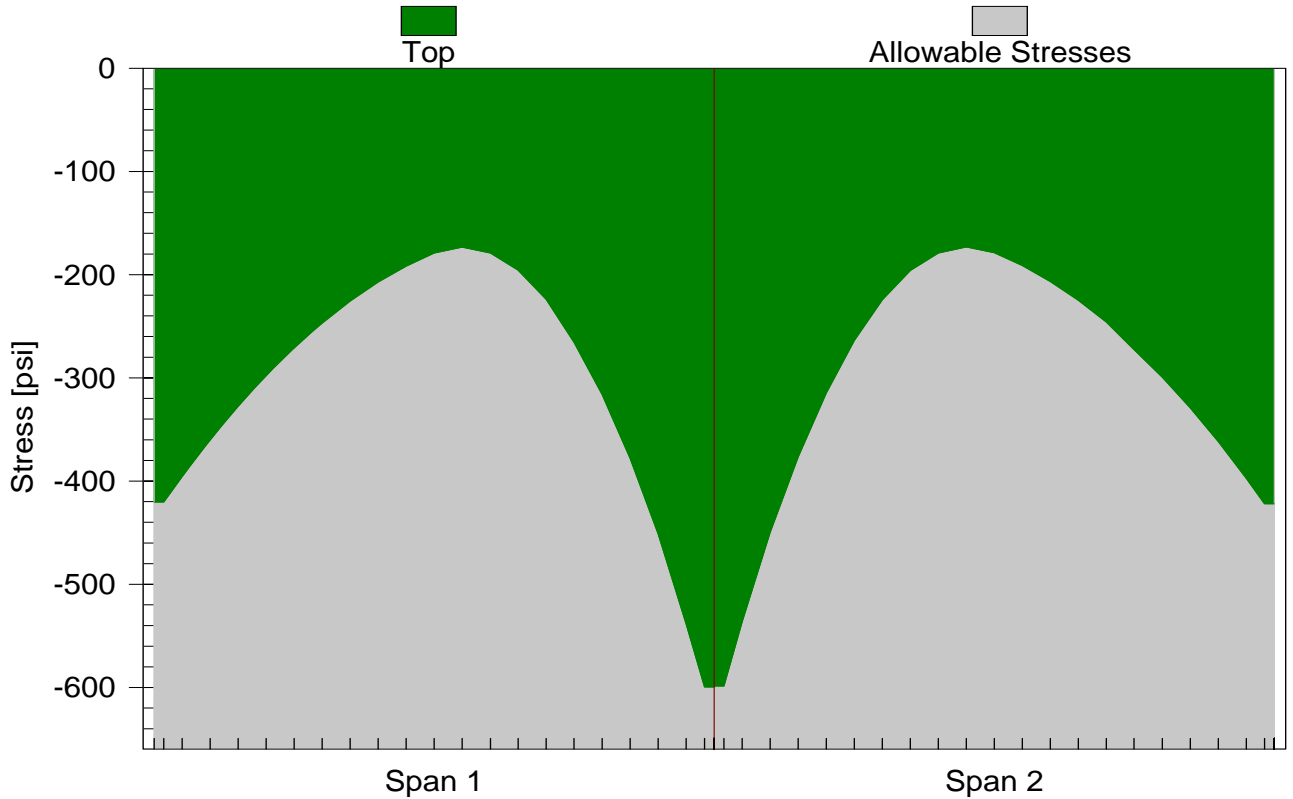


**REINFORCEMENT
REQUIRED AND PROVIDED**

LOAD COMBINATION: INITIAL_MAX_LL

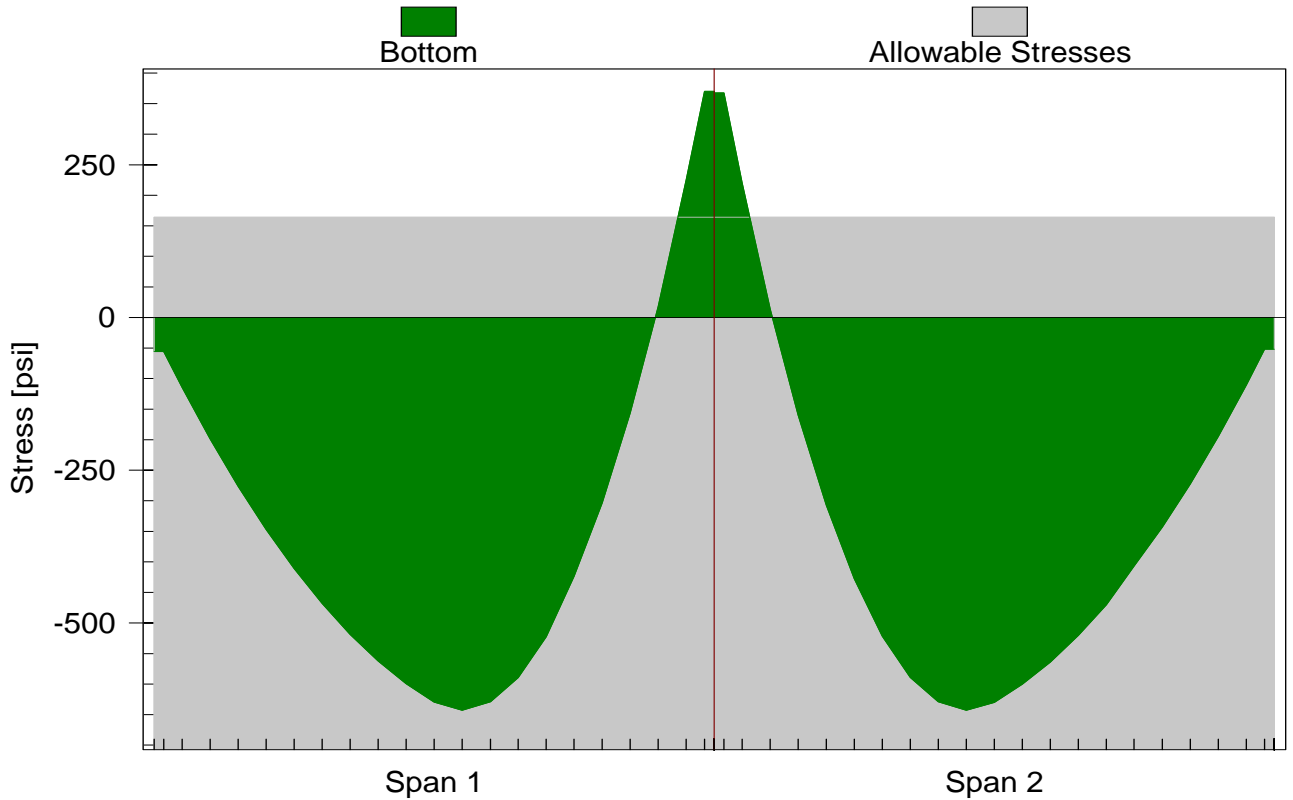
Stress Diagrams

Project: "" / Load Case: INITIAL_MAX_LL
+1.00 SW +0.00 LL_Max +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



Stress Diagrams

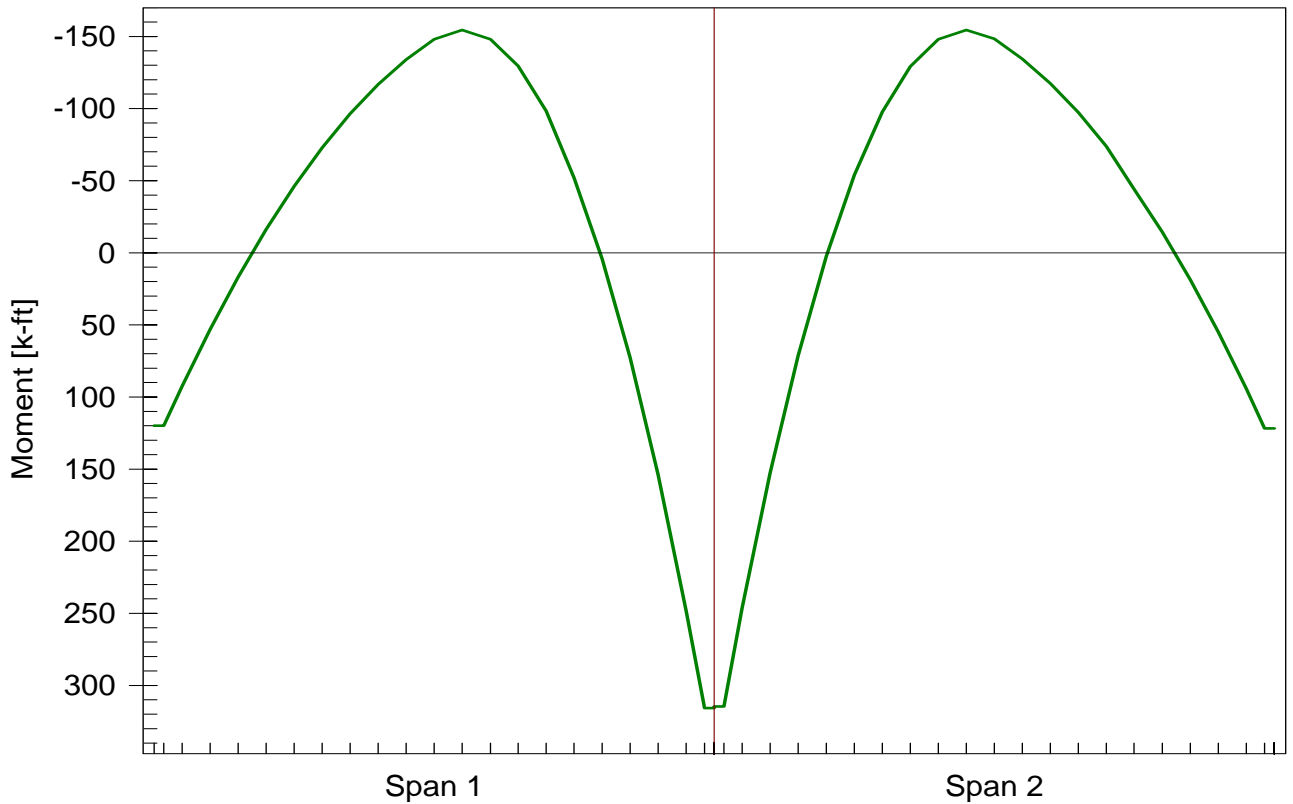
Project: "" / Load Case: INITIAL_MAX_LL
+1.00 SW +0.00 LL_Max +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT
Tensile Stress Positive



SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

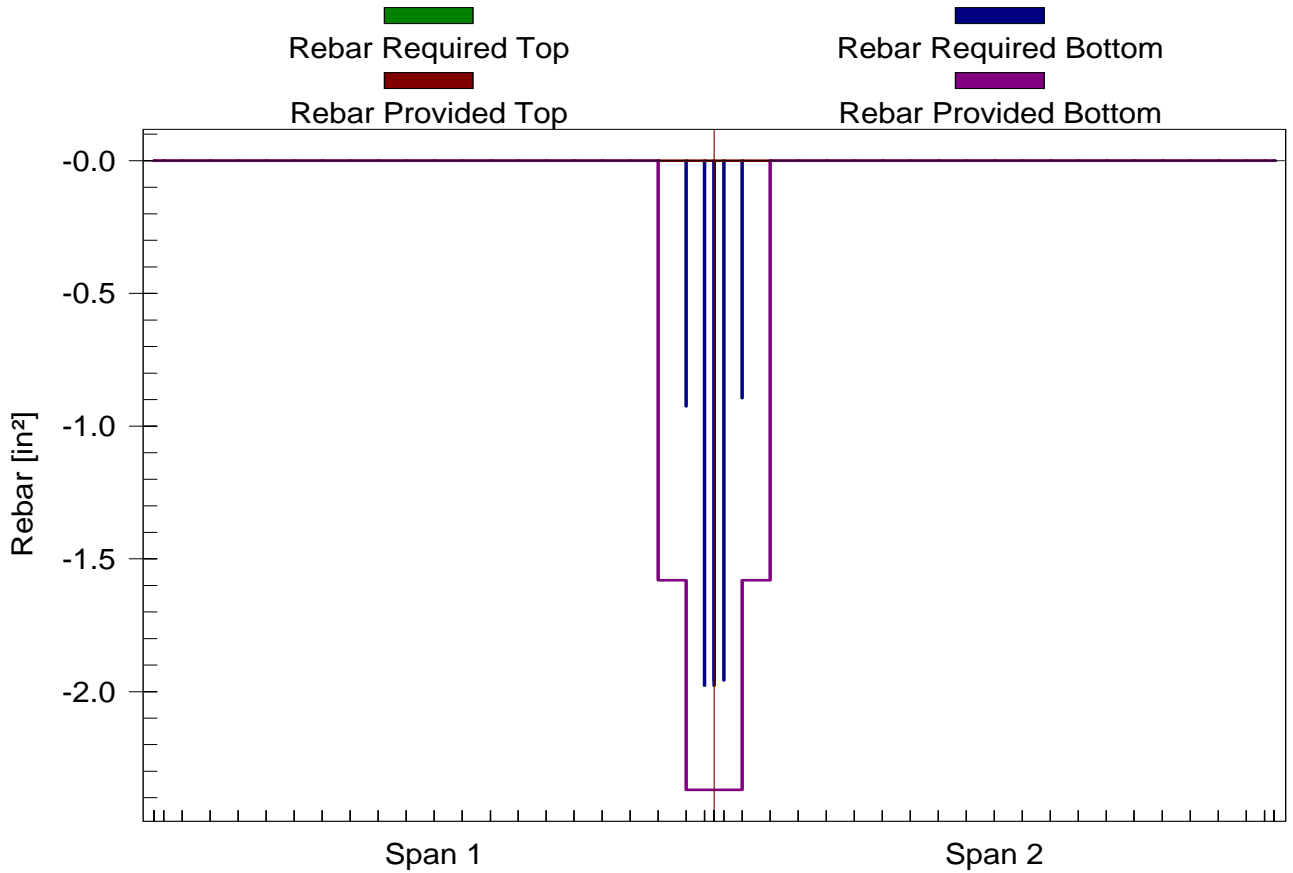
Project: "" / Load Case: INITIAL_MAX_LL
+1.00 SW +0.00 LL_Max +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT
Moment Drawn on Tension Side



DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: INITIAL_MAX_LL
+1.00 SW +0.00 LL_Max +0.00 SDL +0.00 XL +1.15 PT +0.00 HYP +0.00 LAT

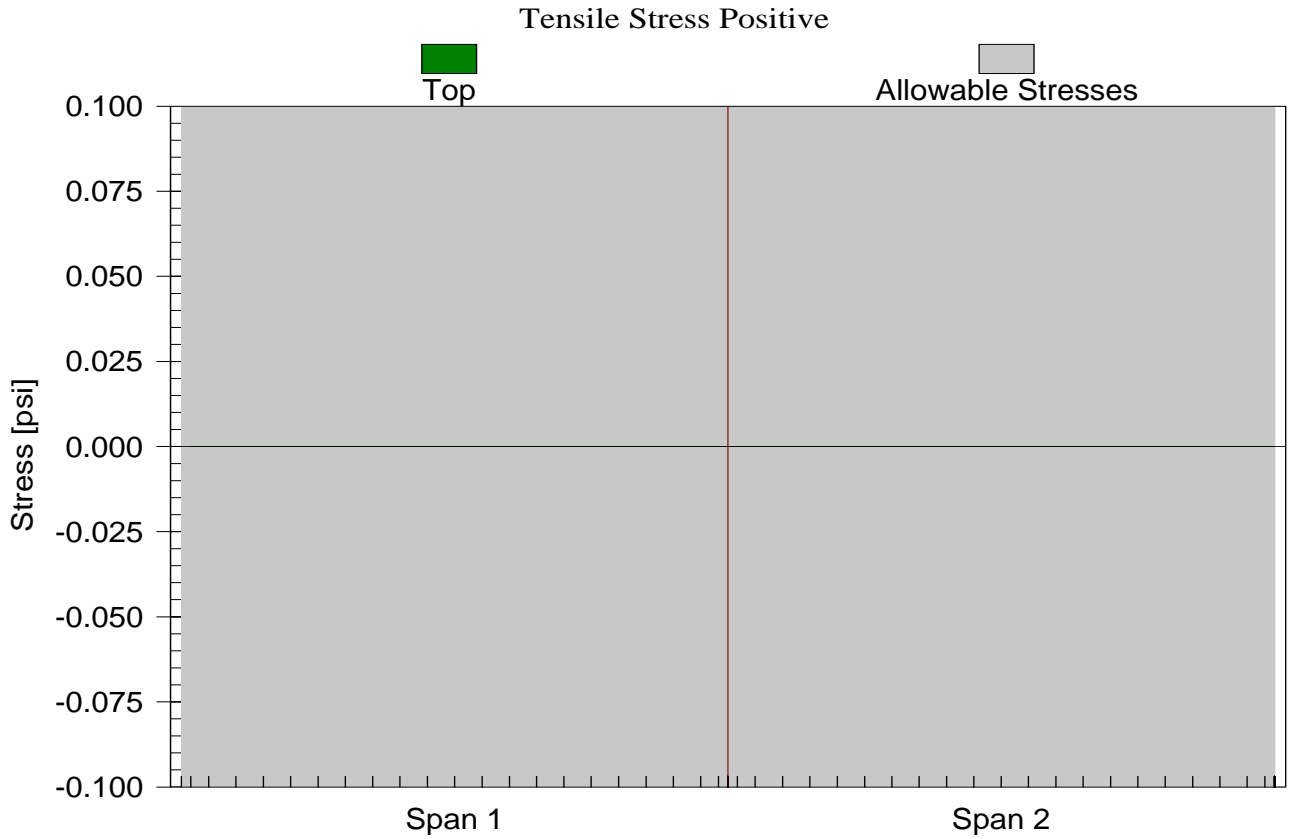


REINFORCEMENT REQUIRED AND PROVIDED

LOAD COMBINATION: Cracking_Moment

Stress Diagrams

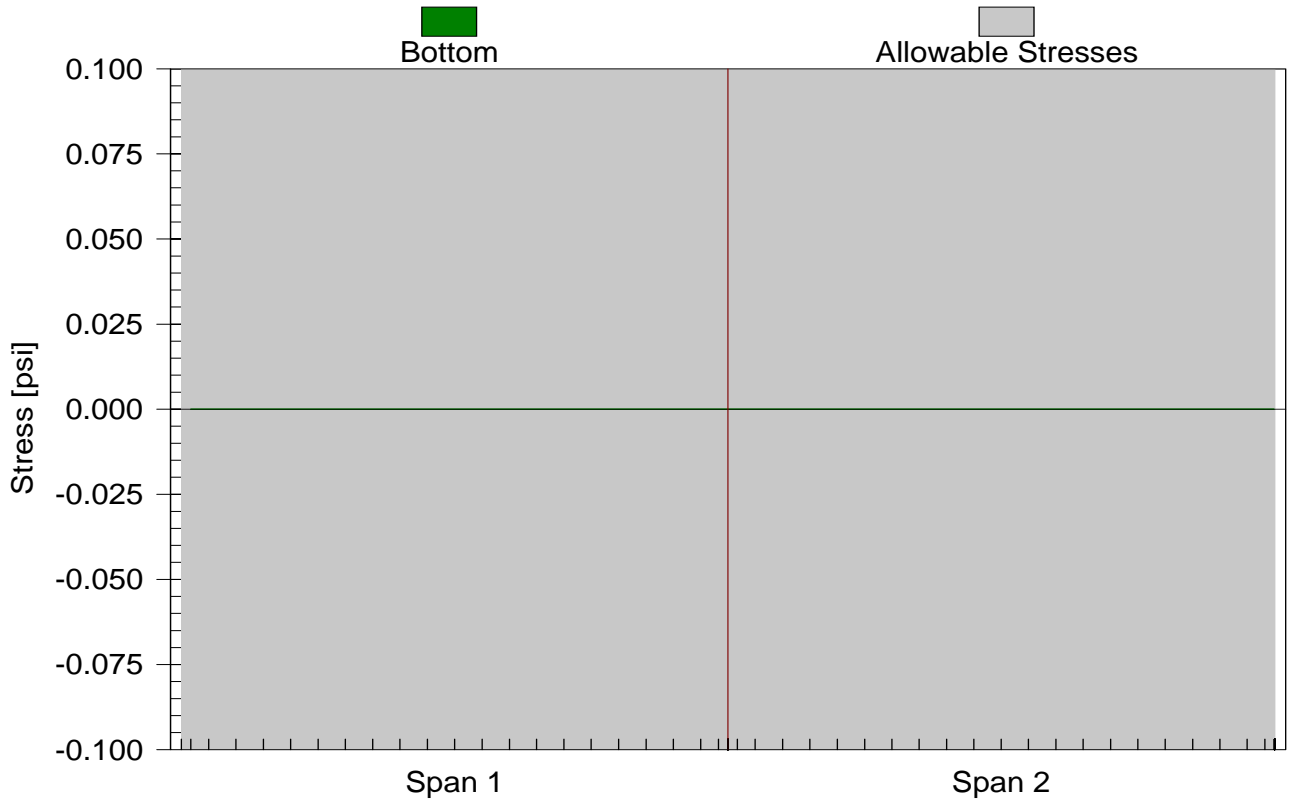
Project: "" / Load Case: Cracking_Moment



Stress Diagrams

Project: "" / Load Case: Cracking_Moment

Tensile Stress Positive

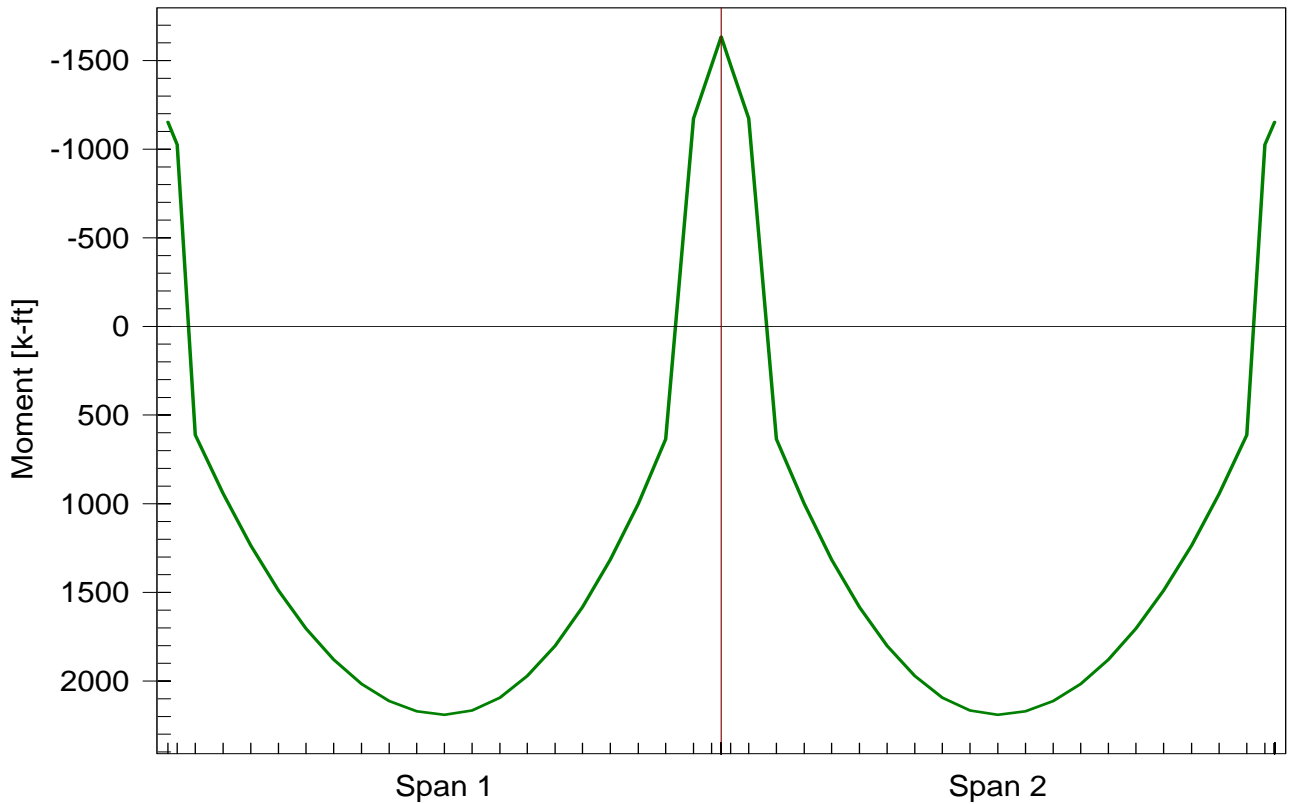


SERVICE COMBINATION STRESSES
(Tension stress positive)

Moment Diagrams

Project: "" / Load Case: Cracking_Moment

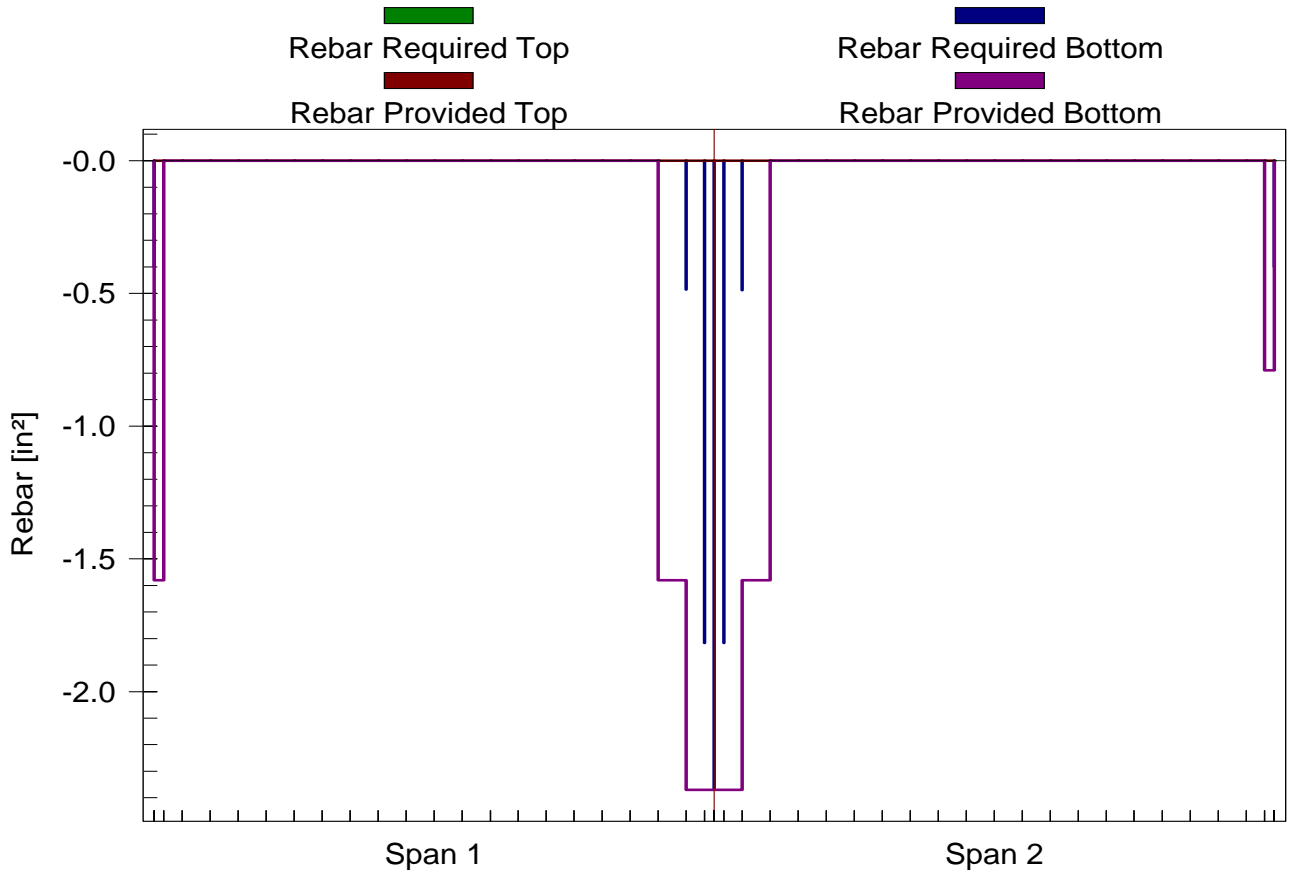
Moment Drawn on Tension Side



DESIGN MOMENT
(Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: Cracking_Moment

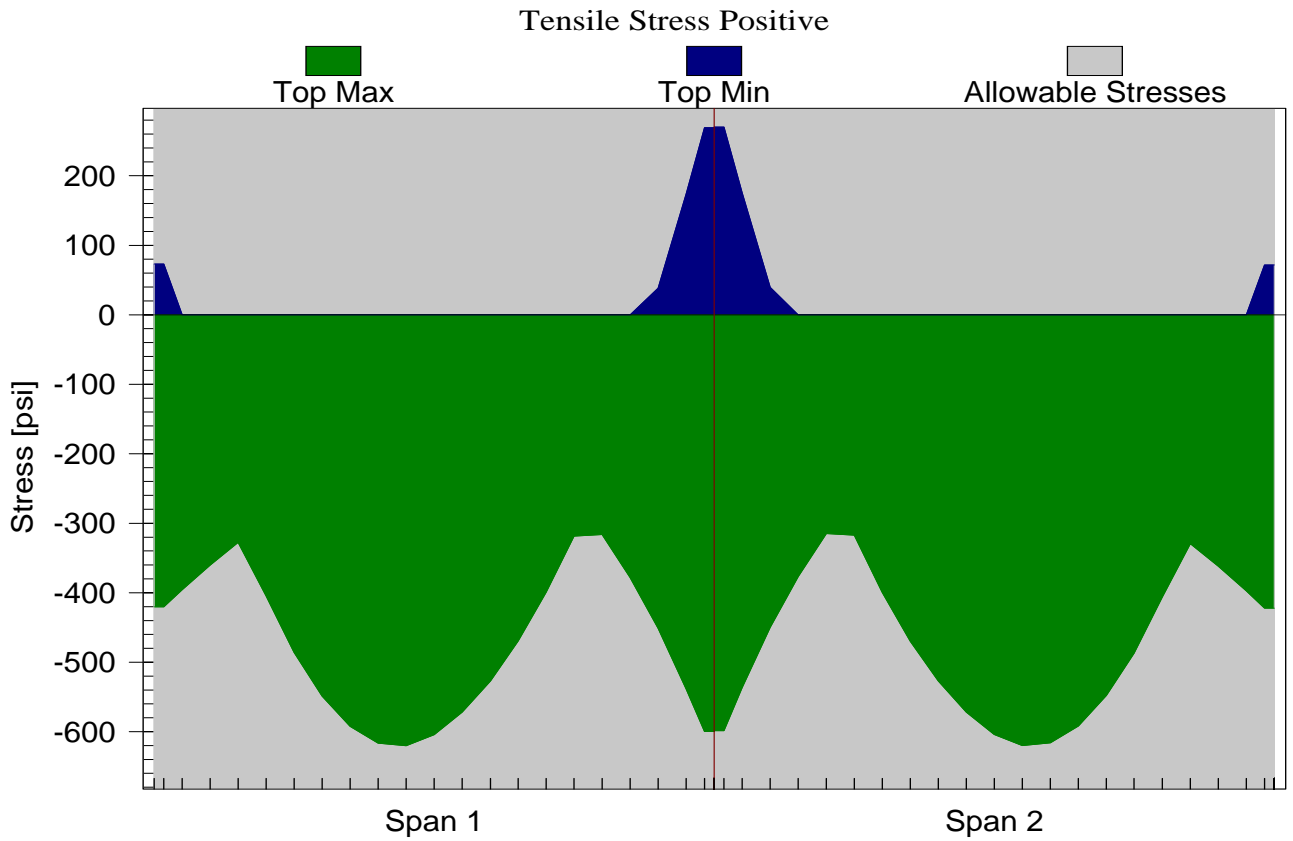


REINFORCEMENT REQUIRED AND PROVIDED

LOAD COMBINATION: Envelope

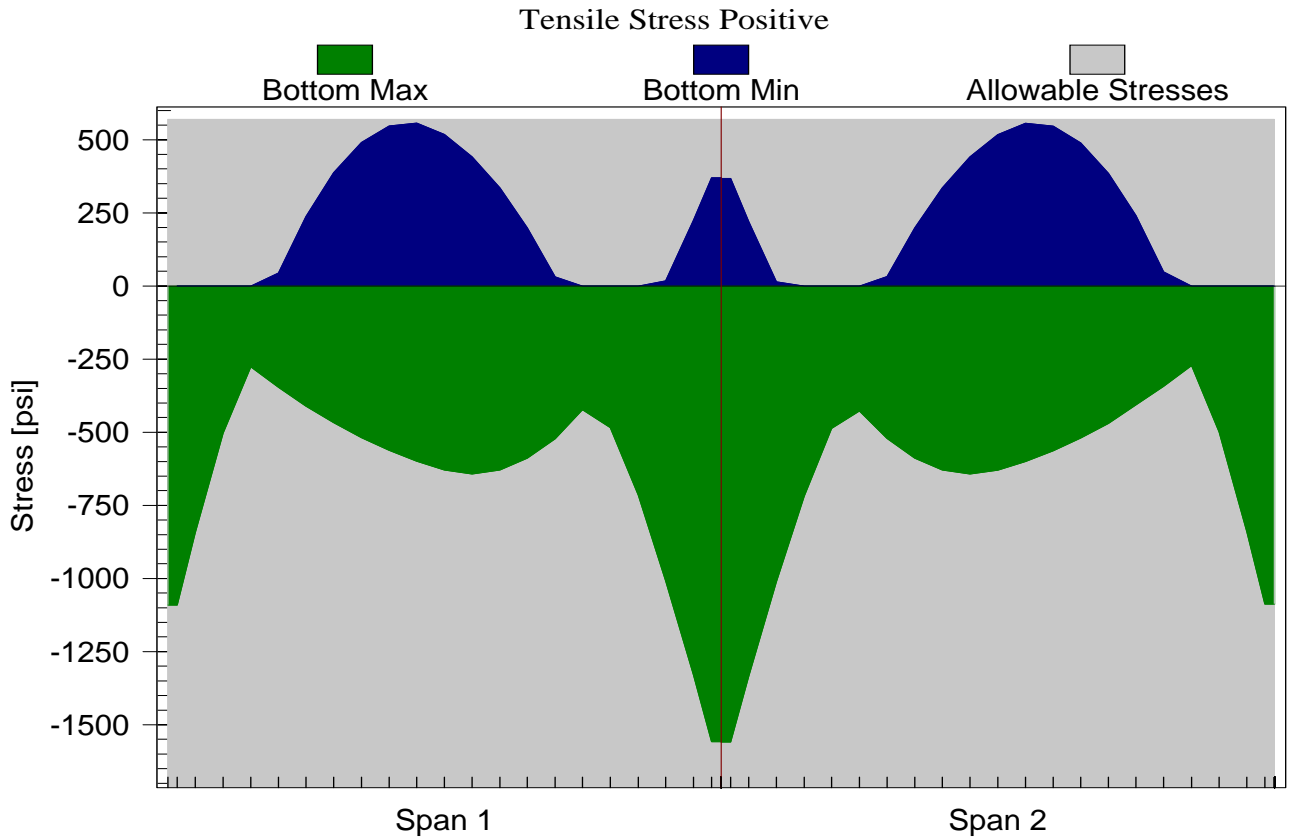
Stress Diagrams

Project: "" / Load Case: Envelope



Stress Diagrams

Project: "" / Load Case: Envelope



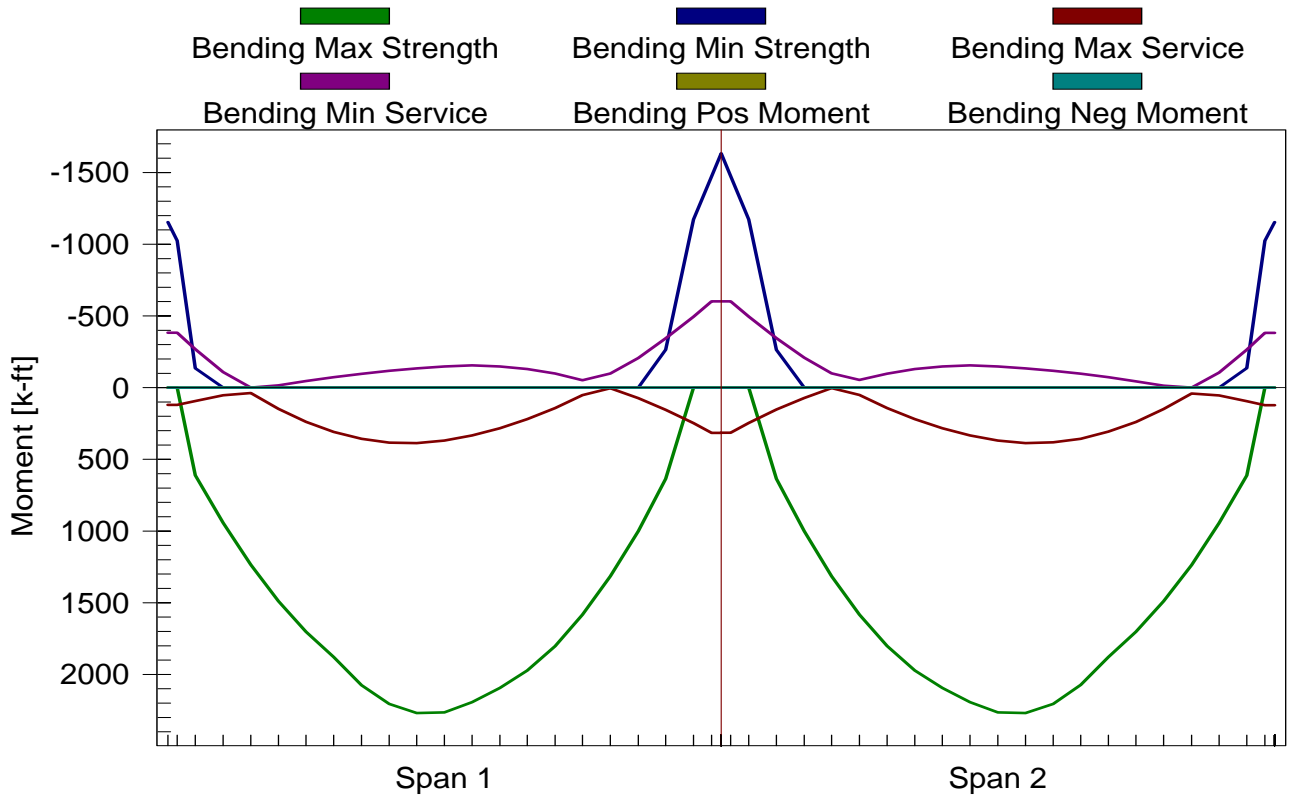
SERVICE COMBINATION STRESSES

(Tension stress positive)

Moment Diagrams

Project: "" / Load Case: Envelope

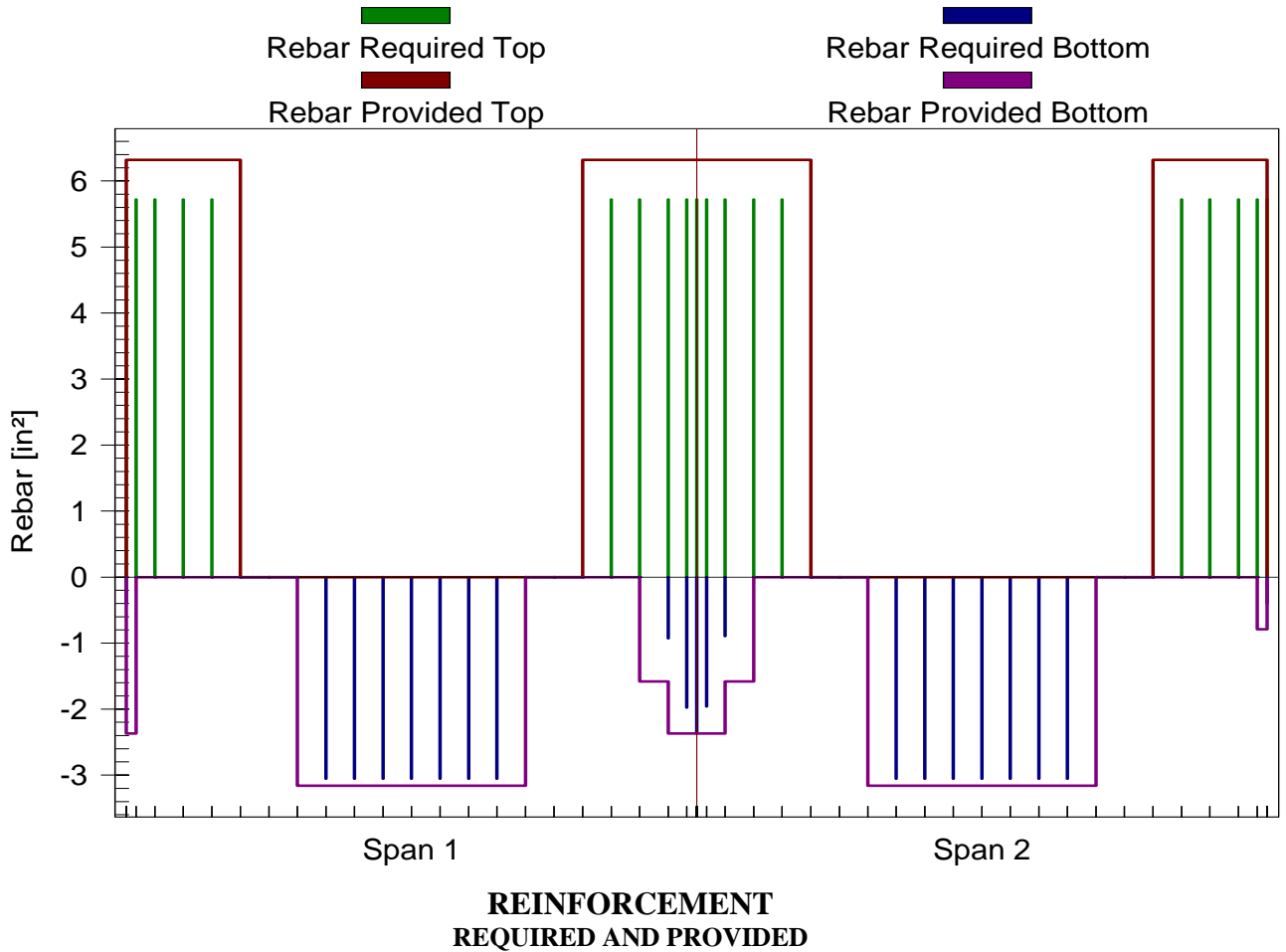
Moment Drawn on Tension Side



DESIGN MOMENT
 (Moment is drawn on tension side)

Rebar Diagrams

Project: "" / Load Case: Cracking_Moment



Project Name: Specific Title:
File Name: BestBuyBeam Date of Generation: Monday, April 06, 2009