

FIRM:Your Firm
 MADE BY:KJH DATE:05-21-2006
 TITLE:Example BEAM calculation

JOB NO.
 CHECKED BY:

SHEET NO: 1
 DATE:

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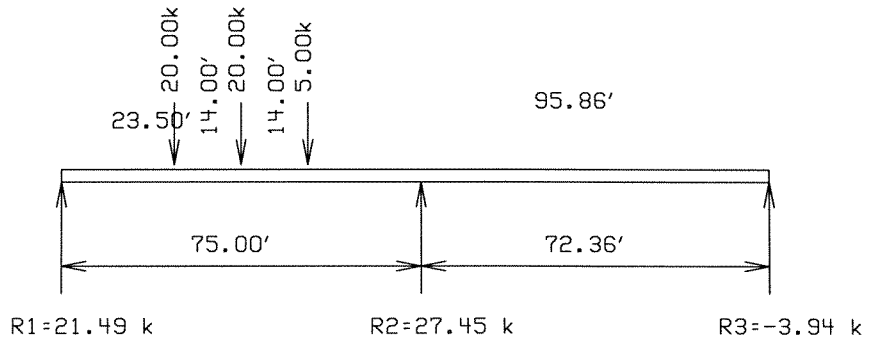
BEAM ANALYSIS:

LOAD 1:TRUCK LIVE LOAD + IMPACT

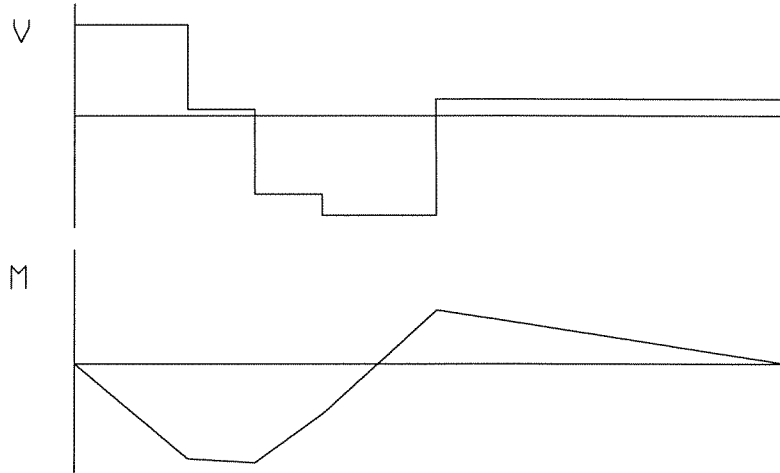
MAXIMUM DEFLECTIONS:

DOWN DEFLECTION=.497"
 AT 33.81 FT FROM LEFT
 UP DEFLECTION=.185"
 AT 105.94 FT FROM LEFT

SPAN
 ----- =1826
 DEFLECTION



MAX. V =21.49 K
 AT 0.00 FT FROM LEFT
 MIN. V =-23.50 K
 AT 51.50 FT FROM LEFT
 MAX. M =525.91 K*FT
 AT 37.50 FT FROM LEFT
 MIN M =-285.66 K*FT
 AT 75.00 FT FROM LEFT



DESIGN DATA:

E = 29000 ksi
 Constant moment of inertia, I = 30802.00 in⁴

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BEAM ANALYSIS:

TABLE - LOAD 1:TRUCK LIVE LOAD + IMPACT

Location from left end (ft)	Shear (k)	Moment (k*ft)	Deflection (inch)	Rotation (radians)
=====	=====	=====	=====	=====
0.000 R	21.49	0.00	0.0000	0.0018
7.500	21.49	161.18	.1651	0.0017
15.000	21.49	322.36	.3126	0.0014
22.500 L	21.49	483.55	.4251	0.0009
22.500 R	15.81			
30.000	1.49	514.73	.4867	0.0003
37.500 L	1.49	525.91	.4927	-0.0002
37.500 R	-18.50			
45.000	-18.50	387.10	.4440	-0.0008
52.500 L	-21.90	243.28	.3531	-0.0011
52.500 R	-23.50			
60.000	-23.50	66.96	.2363	-0.0013
67.500	-23.50	-109.34	.1122	-0.0013
75.000 L	-23.50	-285.66	-0.0000	-0.0011
75.000 R	3.94	-285.66	-0.0000	-0.0011
82.236	3.94	-257.09	-0.0824	-0.0007
89.472	3.94	-228.53	-.1388	-0.0005
96.708	3.94	-199.96	-.1720	-0.0002
103.944	3.94	-171.39	-.1851	-0.0000
111.180	3.94	-142.83	-.1807	0.0001
118.416	3.94	-114.26	-.1619	0.0002
125.652	3.94	-85.69	-.1316	0.0004
132.888	3.94	-57.13	-0.0925	0.0004
140.123	3.94	-28.56	-0.0477	0.0005
147.359 L	3.94	0.00	-0.0000	0.0005