

Moments and Shears on Overhead Truss Due to Dead Loads

Span (feet)	Dead Load on Truss (kips)	Dead Load on Sign		R1 Left Sign	R2 Center Sign	R3 Right Sign
		Load (kips)	Dist. from Left (feet)			
48.07	40	0.72	15.79			
		0.61	34.62			
		0.05	0.00			
Total Uniform Load =		0.04 k/ft				
Total Load =				3.83 kips		
Left Reaction =				1.92 kips		
Right Reaction =					1.91 kips	

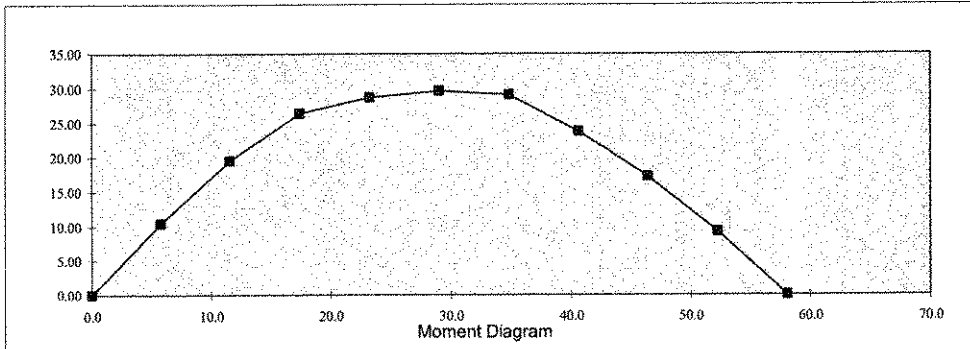
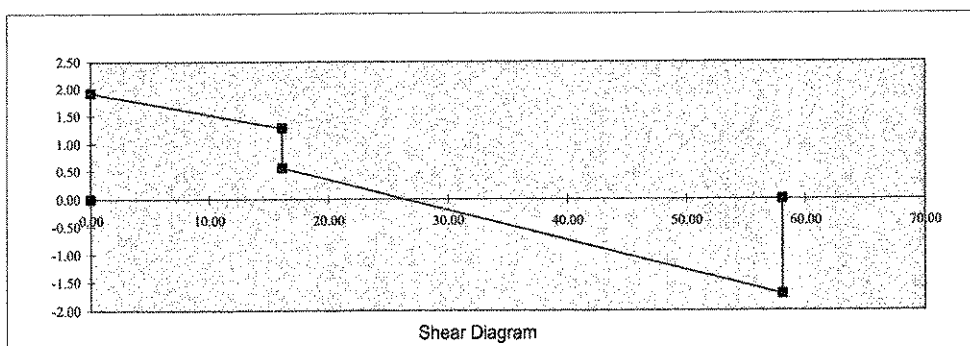
St.	Distance	P1 dist.	P2 dist.	P3 dist.	Moment	Shear	Max of Min
0.0	0.0	0	0	0	0.00	0.00	
0.1	0.8	0	0	0	5.807	10.47	
0.2	1.6	0	0	0	11.614	19.90	
0.3	17.4	1.261	0	0	17.421	28.48	
0.4	23.2	7.068	0	0	23.228	28.78	
0.5	29.0	12.875	0	0	29.035	29.70	
0.6	34.8	18.682	0.208	0	34.842	29.17	
0.7	40.6	24.489	6.033	0	40.649	23.87	
0.8	46.5	30.296	11.84	0	46.458	17.58	
0.9	52.3	36.103	17.647	0.208	52.265	9.28	
1.0	58.1	41.91	23.454	58.07	58.07	0.00	

Location	Moment	Shear
0.00	0.00	0.00
0.00	1.92	1.92
16.16	0.56	1.28
16.16	1.28	1.28
16.16	1.28	1.28
16.16	1.28	1.28
58.1	-1.71	0.00
58.1	0.00	0.00

Location	Moment	Shear
At Left Reaction	0.00	1.92
At Point P1	23.83	0.68
At Point P2	29.36	-0.79
At Point P3	0.00	0.68
At Right Reaction	0.00	-1.71

Forces at Field Splices and at Mid-Span

Left Side		Right Side		Mid-Span	
Location	29.04 feet	Location	58.07 feet	Location	29.04 feet
Left Reaction	1.92 kips	Left Reaction	1.92 kips	Left Reaction	1.92 kips
Point Load 1	0.72 kips	Point Load 1	0.72 kips	Point Load 1	0.72 kips
Point Load 2	0.00 kips	Point Load 2	0.61 kips	Point Load 2	0.00 kips
Point Load 3	0.00 kips	Point Load 3	0.00 kips	Point Load 3	0.00 kips
Uniform Load	0.04 kips per foot	Uniform Load	0.04 kips per foot	Uniform Load	0.04 kips per foot
Shear at splice	0.05 kips	Shear at splice	-1.71 kips	Shear at splice	0.05 kips
Moment at splice	29.70 kip feet	Moment at splice	0.00 kip feet	Moment at splice	29.70 kip feet



234-Sign-9