

**Moments and Shears on Overhead Truss Due to Dead Loads**

Span (feet)	Dead Load on Signs		Dist. from Left (feet)	P1 Left Sign	P2 Center Sign	P3 Right Sign
	on Truss (kips)	Load (kips)				
63.97	40	0.65	30.85			
	0.71	47.73				
	0.03	0.00				

  

Total Uniform Load =	0.24 k/ft	Total Load =	3.91 kips
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Left Reaction	1.79 kips	Right Reaction	2.11 kips
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SL	Distance	P1 dist	P2 dist	P3 dist	Moment
0.0	0.0	0	0	0	0.00
0.1	8.4	0	0	6.387	19.87
0.2	16.8	0	0	12.794	19.71
0.3	25.2	0	0	18.191	27.13
0.4	33.6	0	0	23.588	32.83
0.5	42.0	1.329	0	31.985	36.22
0.6	50.4	7.722	0	38.382	34.61
0.7	58.8	14.119	0	44.779	31.20
0.8	67.2	20.518	3.448	51.176	23.81
0.9	75.6	26.913	9.845	57.573	12.72
1.0	84.0	33.31	16.24	63.97	0.00

Values for Shear Diagram	
0.00	0.00
0.00	1.79
30.85	-0.09
30.85	0.58
30.85	0.58
30.85	-0.09
30.85	0.58
30.85	0.58
30.85	-0.09
30.85	0.58
30.85	-0.09
64.0	-2.11
64.0	0.00

Shear at Point Loads	Shear		Mix of Min	Moment	Shear
	Left	Right			
At Left Reaction	0.00	0.00	1.79		
At Point P1	36.37	0.58	-0.09	0.58	
At Point P2	28.11	-0.78	-1.47	-1.47	
At Point P3	0.00	0.62	0.62	0.42	36.22
At Right Reaction	0.00	-2.11	0.00	-2.11	0.00

**Forces at Field Splices and at Mid-Span**

Left Side		Right Side		Mid-Span	
Location	31.89 feet	Location	63.97 feet	Location	31.89 feet
Left Reaction	1.79 kips	Left Reaction	1.79 kips	Left Reaction	1.79 kips
Point Load 1	0.65 kips	Point Load 1	0.65 kips	Point Load 1	0.65 kips
Point Load 2	0.00 kips	Point Load 2	0.11 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	-0.14 kips	Shear at splice	-2.12 kips	Shear at splice	-0.14 kips
Moment at splice	36.22 kip-feet	Moment at splice	-0.01 kip-feet	Moment at splice	36.22 kip-feet

