

Moments and Shears on Overhead Truss Due to Wind Loads

Span	Wind Load on Truss		Wind Load on Signs		Wind Dir. from Left
	Section 1	Section 2	Load (kips)	Load (kips)	
feet	0.00	0.00	0.00	0.00	P1 Left Sign
feet	01.15	51.15	0.00	0.00	P2 Center Sign
			0.00	0.00	P3 Right Sign

Total Uniform Load =	0.051 k/ft	Total Load =	12.05 kips
Left Reaction	6.64 kips	Right Reaction	5.41 kips

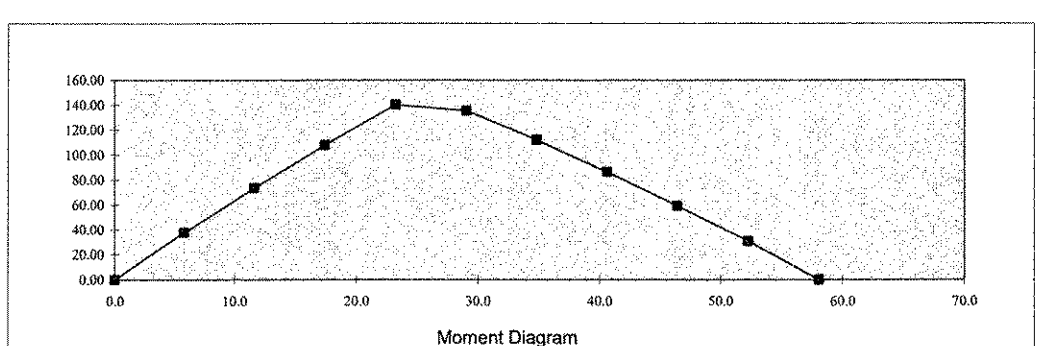
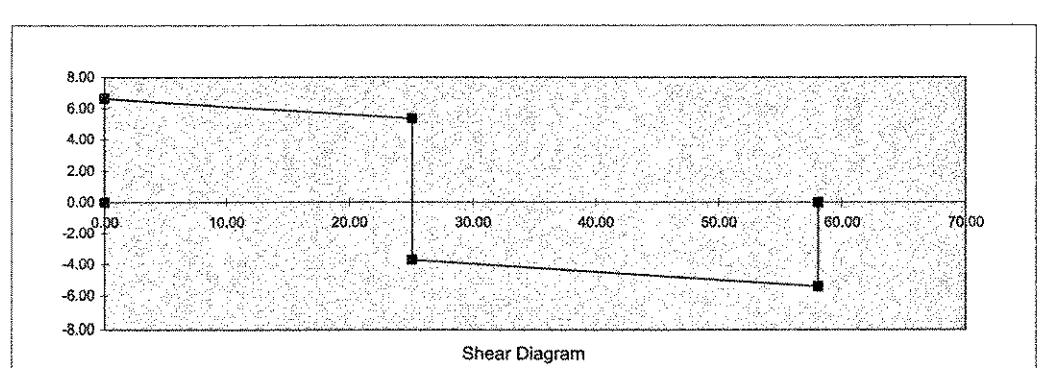
X/L	Distance	P1 dist.	P2 dist.	P3 dist.	Moment
0.0	0.0	0	0	0	0.00
0.1	5.8	0	5.807	5.807	37.59
0.2	11.6	0	11.614	11.614	73.66
0.3	17.4	0	17.421	17.421	107.90
0.4	23.2	0	23.228	23.228	140.42
0.5	29.0	3.935	29.035	29.035	135.49
0.6	34.8	9.742	34.842	34.842	111.94
0.7	40.6	15.549	40.649	40.649	66.47
0.8	46.5	21.356	46.656	46.656	99.37
0.9	52.3	27.163	52.263	52.263	30.55
1.0	58.1	32.97	58.07	58.07	0.00

Values for Shear Diagram	
0.00	0.00
0.00	6.64
25.10	5.36
25.10	-3.72
25.10	5.36
25.10	-3.72
25.10	5.36
25.10	-3.72
25.10	5.36
25.10	-3.72
58.1	0.00

Shear at Point Loads	Shear		Max or Min	
	Left	Right		
At Left Reaction	0.00	6.64	6.64	0.00
At Point P1	195.53	-3.72	-3.72	5.36
At Point P2	0.00	-2.44	-2.44	-2.44
At Point P3	0.00	-2.44	-2.44	-2.44
At Right Reaction	0.00	-5.41	-5.41	0.00

Forces at Field Splices and Mid-Span

Left Side		Right Side		Mid-Span	
Location	29.04feet	Location	58.07feet	Location	29.04feet
Left Reaction	6.64 kips	Left Reaction	6.64 kips	Left Reaction	6.64 kips
Point Load 1	0.00 kips	Point Load 1	0.00 kips	Point Load 1	0.00 kips
Point Load 2	0.00 kips	Point Load 2	0.00 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	0.051 kips per foot	Uniform Load	0.051 kips per foot	Uniform Load	0.051 kips per foot
Shear at splice	-3.92 kips	Shear at splice	-5.41 kips	Shear at Mid-Span	-3.92 kips
Moment at splice	133.49 k/ft	Moment at splice	0.00 k/ft	Moment at Mid-Span	133.49 k/ft



136-2161-c