

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

Span (feet)	Ice Load (k/ft)	Ice Load on Signs (kips)	Open From Left (feet)	P1 Left Sign	P2 Center Sign	P3 Right Sign
58.07	1.23	25.10				
	0.00	0.00				
	0.00	0.00				

  

Total Uniform Load =	0.00 k/ft	Total Load =	2.29 kips
Left Reaction	1.23 kips	Right Reaction	1.06 kips

**Moments and Shears**

X/L	Distance	P1 dist.	P2 dist.	P3 dist.	Moment	Shear	Max or Min
0.0	0.0	0	0	0	0.00	0.00	
0.1	5.9	0	5.907	5.907	6.83	0.78	
0.2	11.8	0	11.814	11.814	13.68	0.78	
0.3	17.4	0	17.421	17.421	19.68	0.78	
0.4	23.2	0	23.228	23.228	25.70	0.78	
0.5	29.0	3.895	29.035	29.035	23.20	0.00	
0.6	34.9	9.742	34.842	34.842	19.77	-0.47	
0.7	40.8	15.589	40.639	40.639	15.73	-0.78	
0.8	46.5	21.388	46.458	46.458	11.29	-0.78	
0.9	52.3	27.153	52.263	52.263	5.85	-0.47	
1.0	58.1	32.92	58.07	58.07	0.00	0.78	

  

Shear at Point Loads	Shear Left	Shear Right	Max or Min
At Left Reaction	0.00	1.23	1.23
At Point P1	25.10	-0.47	0.78
At Point P2	0.00	-0.02	-0.02
At Point P3	0.00	-0.02	-0.02
At Right Reaction	0.00	-1.06	-1.06

  

Values for Shear Diagram	Moment	Shear
0.00	0.00	0.00
0.00	1.23	0.78
25.10	0.78	0.00
25.10	-0.47	0.78
25.10	-0.47	0.00
25.10	-0.47	-0.47
25.10	-0.47	0.78
58.1	-1.06	0.00
58.1	0.00	-1.06

**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	1.23 kips	Left Reaction	1.23 kips	Left Reaction	1.23 kips
Point Load 1	1.23 kips	Point Load 1	1.23 kips	Point Load 1	1.23 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	0.00 kips per foot	Uniform Load	0.00 kips per foot	Uniform Load	0.00 kips per foot
Shear at splice	-0.54 kips	Shear at splice	-1.06 kips	Shear at splice	-0.54 kips
Moment at splice	23.20 kip feet	Moment at splice	0.00 kip feet	Moment at splice	23.20 kip feet

