

Highway Safety Corporation 239 Commerce Street Glastonbury, CT 06033-0358		Project: Highway Safety By: APB Checked: JAR Date: 7/20/2006 Sheet No. of	
Overhead Truss Sign Support Program		Tri-Chord Truss	
State: Vermont		Project: MM 129 130 SB	
Sign Location: MM 129 130 SB			
Overall Dimensions (all in feet)		Miscellaneous Data	
Span	Left Post Height	Rt. Post Height	Truss Section Lengths
L	H1	H2	Section 1 Section 2 Section 3
83.97	23.94	25.73	31.99 31.99 0.00
			Number of Truss Pieces
			2
			Wind Speed (mph)
			90
			Sign Weight (psf)
			3.65
			Ice Load? (yes/no)
			yes
Sign Dimensions (all in feet)			
Sign 1			Sign 2
Length	Width	Location	Length Width Location
L1	W1	D1	L2 W2 D2 L3 W3 D3
15.42	11.81	30.66	17.72 10.93 47.73 0.00 0.00 0.00
Overhead Truss Chords			
Height of Truss	Width of Truss	1st Truss Section	2nd Truss Section
Dt (ft)	Wt (ft)	Outside Dia. Wall Thick. (inches)	Outside Dia. Wall Thick. (inches)
3.00	3.00	4.000 0.228	4.000 0.228
3rd Truss Section Chord Yield Str. Number of Chords			
		Outside Dia. Wall Thick. (inches)	L3 W3 D3 (ksi) 1, 3 or 4
		4.000 0.228	42.0 3
← Values Used in Computations			
Overhead Truss Diagonals			
Equal Leg Angles		Round Pipe	
Leg Size (inches)	Thickness (inches)	Outside Dia. (inches)	Thickness (inches)
2.00	0.250	0.000	0.000
		Diagonal Yield Str. (ksi)	Vertical diag. angle (deg)
		36.0	39
		Horizontal diag. angle (deg)	Drilled Shafts for Foundation? (yes/no)
		39	no
		Circular Footing Stem? (yes/no)	
		?	yes
No. of Posts			
per end	Left Post Verticals	Post Vertical	Right Post Verticals
1 or 2	Spacing Sp (Feet)	Outside Dia. (inches) Wall Thick. (inches)	Spacing Sp (Feet) Outside Dia. (inches) Wall Thick. (inches)
1	0.00 14.000	0.500 42.0	0.000 14.000 0.500 42.000
Post Diagonals			
Equal Leg Angles		Round Pipe	
Leg Size (inches)	Thickness (inches)	Outside Dia. (inches)	Thickness (inches)
0.00	0.000	0.000	0.125
		Diagonal Yield Str. (ksi)	Vertical diag. angle (deg)
		36.0	39.0
		← Values Used in Computations	
Results			
		D/C or CSR	OK / NG ?
Truss	Section 1 Chords	0.79	OK
	Section 2 Chords	0.66	OK
	Section 3 Chords	0.79	OK
Posts	Truss Diagonals	0.60	OK
	Left Post	0.62	OK
	Right Post	0.92	OK
	Left Post Diagonals	N/A	N/A
	Right Post Diagonals	N/A	N/A
Truss Deflections	Defl. Under DL + Ice	0.82	
	Allowable (L/150)	5.12	OK
	Camber	1.28	
Deflection OK			