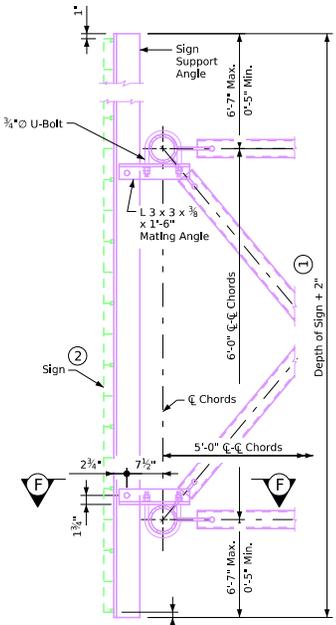
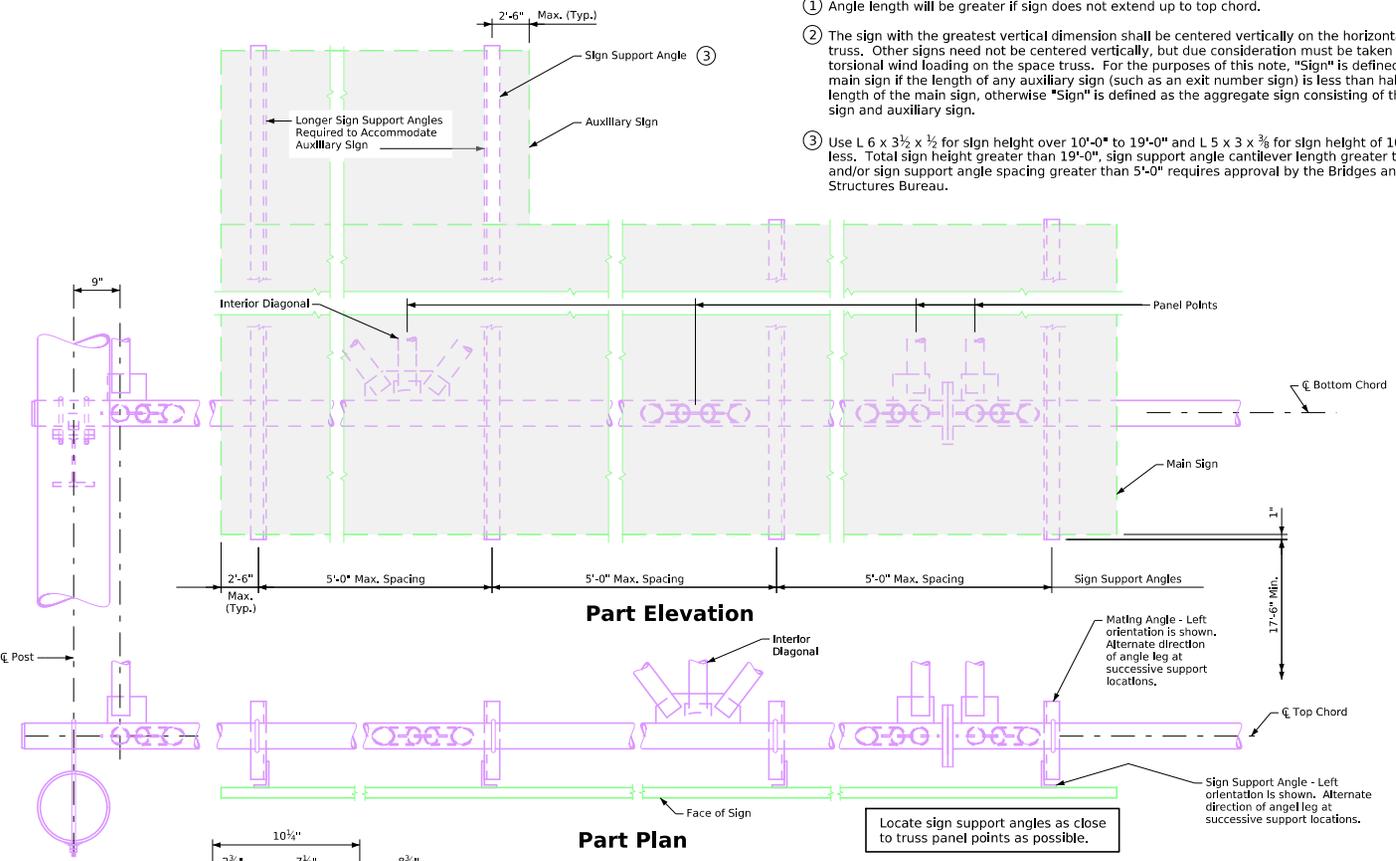


Revised 12-2024; Modified Note 2 to improve clarity. At various locations, changed "Additional sign" to "Auxiliary Sign", changed "Typical Sign" to "Main Sign", and changed "Sign Panel" to "Sign".  
 Revised 06-2025; This sheet released, sheet format update.  
 steeloverheadsignstruss.dgn • SOST-11-11 • This sheet Issued 09-2011.



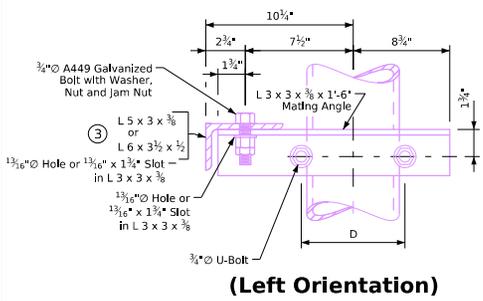
**Typical Sign Section**



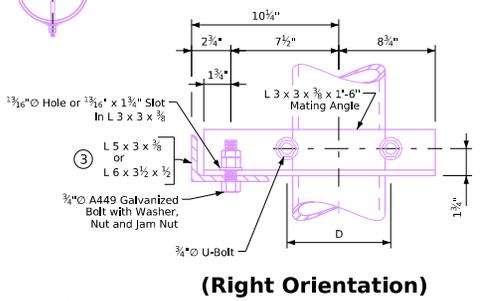
**Part Elevation**

**Part Plan**

- ① Angle length will be greater if sign does not extend up to top chord.
- ② The sign with the greatest vertical dimension shall be centered vertically on the horizontal space truss. Other signs need not be centered vertically, but due consideration must be taken to limit torsional wind loading on the space truss. For the purposes of this note, "Sign" is defined as the main sign if the length of any auxiliary sign (such as an exit number sign) is less than half the length of the main sign, otherwise "Sign" is defined as the aggregate sign consisting of the main sign and auxiliary sign.
- ③ Use L 6 x 3½ x ½ for sign height over 10'-0" to 19'-0" and L 5 x 3 x ¾ for sign height of 10'-0" or less. Total sign height greater than 19'-0", sign support angle cantilever length greater than 6'-7" and/or sign support angle spacing greater than 5'-0" requires approval by the Bridges and Structures Bureau.



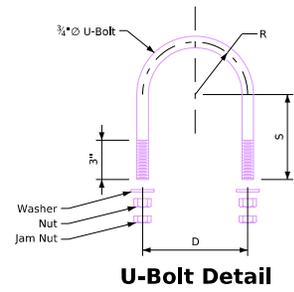
**(Left Orientation)**



**(Right Orientation)**

**Section F-F**

Alternate direction of sign support angle leg and mating angle leg at successive supports as shown in Part Plan.



**U-Bolt Detail**

Locate sign support angles as close to truss panel points as possible.

U-Bolt Dimension Table				
Span	Truss Chord	U-Bolt Dimensions		
		D	R	S
50'-100'	5"Ø Extra-Strong Steel Pipe	6 7/16"	3 7/32"	5 1/2"
105'-130'	6"Ø Extra-Strong Steel Pipe	7 1/2"	3 3/4"	6"

**IOWA DOT**

Standard Design

**Steel Overhead Sign Truss**

September, 2011

Sign Attachment Details

**SOST-11-11**

50'-130' Spans

06-2025  
 Latest Revision Date  
 Approved by Bridge Engineer