

## IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures Date September 1, 2014  
Attention All Employees Ref No. 521.1  
From Gary Novey  
Office Bridges and Structures  
Subject Revision of the English Steel Overhead Sign Truss Standards listed below.  
(CADD M0395)

Electronic copies are available in the following Office of Bridges and Structures standard directory **W:\Highway\Bridge\Standards\Bridges** and on the Internet:

<http://www.iowadot.gov/bridge/standard.htm>

The following Steel Overhead Sign Truss Standards were revised as noted below.

### **SOST-01-11:**

- Deleted the following General Notes: "All steel reinforcing bars to be Grade 60." and "All concrete to be Class "C" structural concrete with  $F'c = 4.0$  ksi." These notes are redundant as this information is stated in the Design Stresses note.

### **SOST-06-11:**

- Changed "footing" to "foundation" in DMS truss notes to improve consistency of terminology.

### **SOST-07-11:**

- Changed "footing" to "foundation" in DMS truss notes to improve consistency of terminology.

### **SOST-08-11:**

- Modified gusset plate connection Details A, B, and D and added clarification note stating that the 2" gap between the end of diagonals and the chords may be reduced to 1-13/16". This will facilitate the use of 8"-wide bar stock to fabricate the gusset plates.
- Modified Detail E and added clarification note specifying a 2-1/2" gap between the end of the interior diagonal and the chord for gusset connections at the end of each truss unit.

### **SOST-09-11:**

- Modified depiction of interior diagonal at end of truss to show correct inclination of diagonal.

### **SOST-10-11:**

- Modified depiction of interior diagonal at end of truss to show correct inclination of diagonal.
- Increased hole diameter of chord splice flange plate from 6-11/16"  $\phi$  to 6-3/4"  $\phi$  to improve constructability.

- Increased outside diameter of chord stop ring from 7"  $\phi$  to 8"  $\phi$ .

**SOST-11-11:**

- Modified depiction of interior diagonals in typical sign panel section to show correct inclination of diagonals.

**SOST-12-11:**

- Changed type and gage of holes in W6x20 for clip angle bolts to improve constructability due to width variances in runway grating. 9/16"  $\phi$  holes were changed to 9/16" x 1" slotted holes. The hole gage was increased from 2" to 3-1/2".

**SOST-13-11:**

- Changed runway support bracket dimensions to provide adequate spacing between slotted holes for clip angle bolts and holes for post base plate anchorage bolts.
- Changed U-bolt bend diameter to improve constructability.

**SOST-17-11:**

- Changed "footing" to "foundation" in Concrete Placement Quantities notes to improve consistency of terminology.
- Added note to clarify that foundation design is based on a maximum soil surcharge depth of 6'-0".

For any questions, please check with Stuart Nielsen or Thayne Sorenson.

GAN/ssn