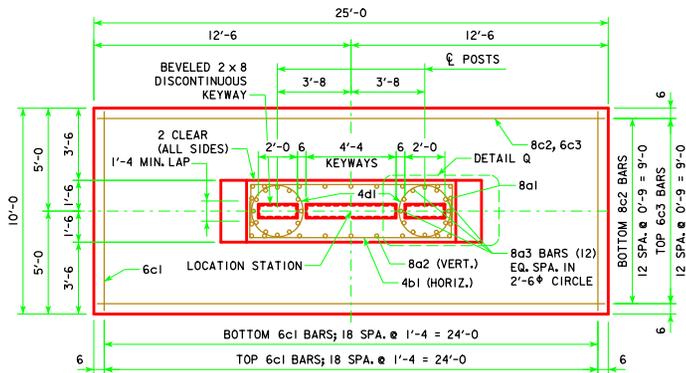
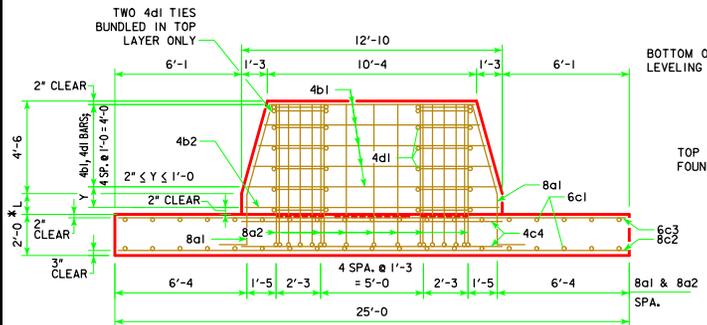


REVISION 09-14 - MODIFIED NOTES. STEEL OVERHEAD SIGN TRUSS - SOST-17-11 - THIS SHEET ISSUED 09-11.

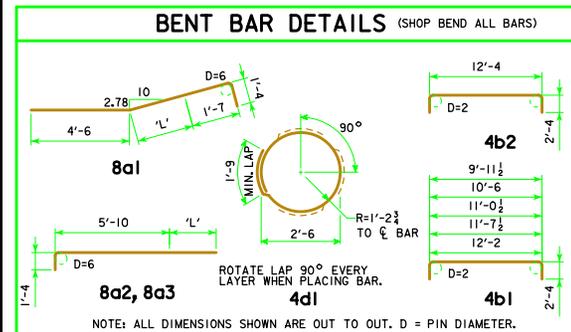


**PLAN**  
ANCHOR BOLT ASSEMBLIES NOT SHOWN



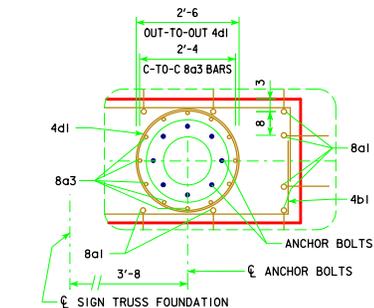
**SIDE ELEVATION**  
ANCHOR BOLT ASSEMBLIES NOT SHOWN

\* L SHALL NOT EXCEED 6'-0"

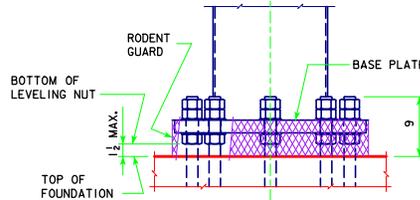


NOTE: ALL DIMENSIONS SHOWN ARE OUT TO OUT. D = PIN DIAMETER.

- (A) ADDITIONAL LENGTH TO BARS 8a1, 8a2, AND 8a3 FOR L > 0
  - (B) TWO IN EACH 1'-0" OF L
  - (C) MAINTAIN UNIFORM 1'-0" SPACING FOR ALL VALUES OF L, WITH REMAINDER SPACING AT BOTTOM OF STEM WALL 2" SY 1'-0".
- \*\* BUNDLE TWO 4d1 CIRCULAR TIES IN TOP LAYER.



**DETAIL Q**  
ANCHOR BOLT AND ANCHOR REINFORCING PLACEMENT  
KEYWAY NOT SHOWN

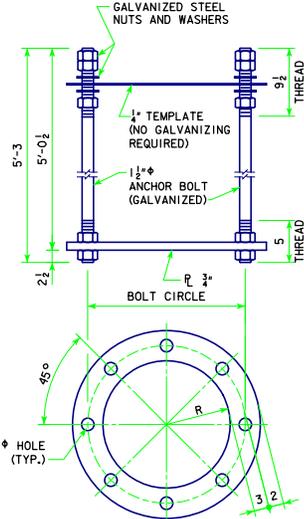


**POST BASE DETAIL**  
SHOWING THE RODENT GUARD

THE RODENT GUARD SHALL BE PLACED AROUND THE BASE PLATE.

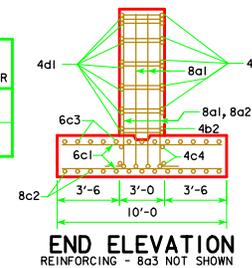
THE RODENT GUARD IS STAINLESS STEEL STANDARD GRADE WIRE CLOTH, 1/4" MAXIMUM OPENING WITH A MINIMUM WIRE DIAMETER OF AWG NO. 16 WITH A MINIMUM 2" LAP.

SECURE WIRE CLOTH TO BASE PLATE AFTER ERECTION WITH 3/8" STAINLESS STEEL BANDING. THE RODENT GUARD SHALL NOT EXTEND ABOVE THE TOP OF THE BASE PLATE.

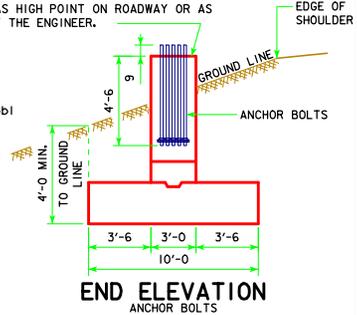


**ANCHOR BOLT ASSEMBLY**

	R	BOLT CIRCLE DIAMETER
FOR 14" POSTS (50'-100' SPANS)	7	1'-8"
FOR 16" POSTS (105'-130' SPANS)	8	1'-10"



**END ELEVATION**  
REINFORCING - 8a3 NOT SHOWN



**END ELEVATION**  
ANCHOR BOLTS

**GENERAL NOTES:**

STRUCTURAL CONCRETE, CLASS C, SHALL BE USED FOR THE FOUNDATION.

EXCAVATION FOR THE FOUNDATION SHALL BE TO NEAT LINES AND CONCRETE SHALL BE PLACED AGAINST THE UNDISTURBED MATERIAL. ALL EXCAVATION FOR THE FOUNDATION SHALL BE DISPOSED IN THE AREA ADJACENT TO THE FOUNDATION AND SHAPED TO NORMAL GROUND CONTOUR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAXIMUM DESIGN BEARING CAPACITY IS 1.0 TON PER SQUARE FOOT. (FOUNDATION DESIGN IS BASED ON A MAXIMUM SOIL SURCHARGE DEPTH OF 6'-0").

TWO ANCHOR BOLT ASSEMBLIES INCLUDING ANCHOR PLATES, TEMPLATES, NUTS (5 PER BOLT) AND WASHERS (2 PER BOLT) ARE REQUIRED PER FOUNDATION.

ALL ANCHOR BOLT MATERIALS AND GALVANIZING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF IOWA DOT MATERIALS I.M. 453.08.

PRICE BID FOR CONTRACT ITEMS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT OVERHEAD SIGN TRUSS FOUNDATION AS DETAILED HEREON. THE COST OF FURNISHING AND INSTALLING ANCHOR BOLT ASSEMBLIES, CONDUIT, AND RODENT GUARDS ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR STRUCTURAL CONCRETE. CONTRACT ITEMS FOR OVERHEAD SIGN TRUSS FOUNDATION CONSTRUCTION ARE:

- REINFORCING STEEL, EPOXY COATED - POUNDS
- STRUCTURAL CONCRETE (MISCELLANEOUS) - CUBIC YARDS
- EXCAVATION - CUBIC YARDS OF CLASS SPECIFIED

**CONCRETE PLACEMENT QUANTITIES**  
ONE FOUNDATION

ITEM	L = 0	EACH 1'-0" OF L
WALL	5.71	1.41
FOOTING	18.52	---
TOTAL (C.Y.)	24.23	1.41

TOP-OF-WALL ELEVATION IS TO BE SET AT SAME ELEVATION AS HIGH POINT ON ROADWAY OR AS DIRECTED BY THE ENGINEER.

**FOR DMS TRUSSES ONLY**

ELECTRICAL CONDUIT IS REQUIRED IN FOUNDATIONS SUPPORTING TRUSSES WITH DYNAMIC MESSAGE SIGNS. SEE STANDARD SHEET SOST-18-11 FOR CONDUIT LOCATION DETAILS.

**REINFORCING BAR LIST - EPOXY COATED**  
ONE FOUNDATION

SIZE	SHAPE	TABULATED VALUE FOR L = 0			EACH 1'-0" OF L			
		NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	
8a1		8	7'-5"	158	SEE DETAIL	8	1'-0" (A)	21
8a2		14	7'-2"	268	SEE DETAIL	14	1'-0" (A)	37
8a3		24	7'-2"	459	SEE DETAIL	24	1'-0" (A)	64
4b1		10	Varies	105	1'-0" (C)	---	---	---
4b2		---	---	---	---	2 (B)	17'-0"	23
6c1		38	9'-6"	542	1'-4"	---	---	---
8c2		13	24'-6"	850	0'-9"	---	---	---
6c3		13	24'-6"	478	0'-9"	---	---	---
4c4		4	12'-8"	34	SEE DETAIL	---	---	---
4d1		12**	9'-6"	76	1'-0" (C)	2 (B)	9'-6"	13
TOTAL 2970 LBS.				TOTAL 158 LBS.				

09-14  
LATEST REVISION DATE  
*Thomas E. McQuinn*  
APPROVED BY BRIDGE ENGINEER

**IOWA DOT** Highway Division

STANDARD DESIGN

**STEEL OVERHEAD SIGN TRUSS**

SEPTEMBER, 2011

<b>NON-STAGED FOUNDATION DETAILS</b> 50'-130' SPANS	<b>SOST-17-11</b>
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