

Signpost shall be plumbed by installing shims. The Contractor shall furnish two shims each of 0.012" and 0.032" thickness (total of 4 per post). Shims shall be brass stock or strip conforming to ASTM B 36.

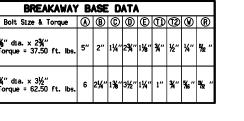
Details are shown for signs to be installed to the right of through roadway traffic. All installations will be this, unless specified oterwise. For a left side installation, the notches in the breakaway base plate would be beveled in opposite direction as that shown.

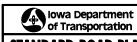
Base plates (2 each), shall be welded to sides of signpost and stub post flanges.

1 Not for single post installations.

Contract Item:

Steel Breakaway Sign Post





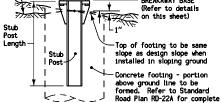
NEW 04-21-09 **SI-113** SHEET 1 of 3

STANDARD ROAD PLAN

Dearna Maifuld

APPROVED BY DESIGN METHODS ENGINEER

SUPPORT STRUCTURES -STEEL BREAKAWAY POSTS



details of concrete footing

Side View TYPICAL SIGN INSTALLATION





POST DATA				
Post Size	Stub Length			
W 6 x 9 W 6 x 12 W 6 x 15 W 8 x 18	2′-6″			
W 8 x 21 W 10 x 22 W 10 x 26 W 12 x 26	3′-0″			

Post Size

W 6 x 9

W 6 x 12

W 6 x 15

W 8 x 18

W 8 x 21

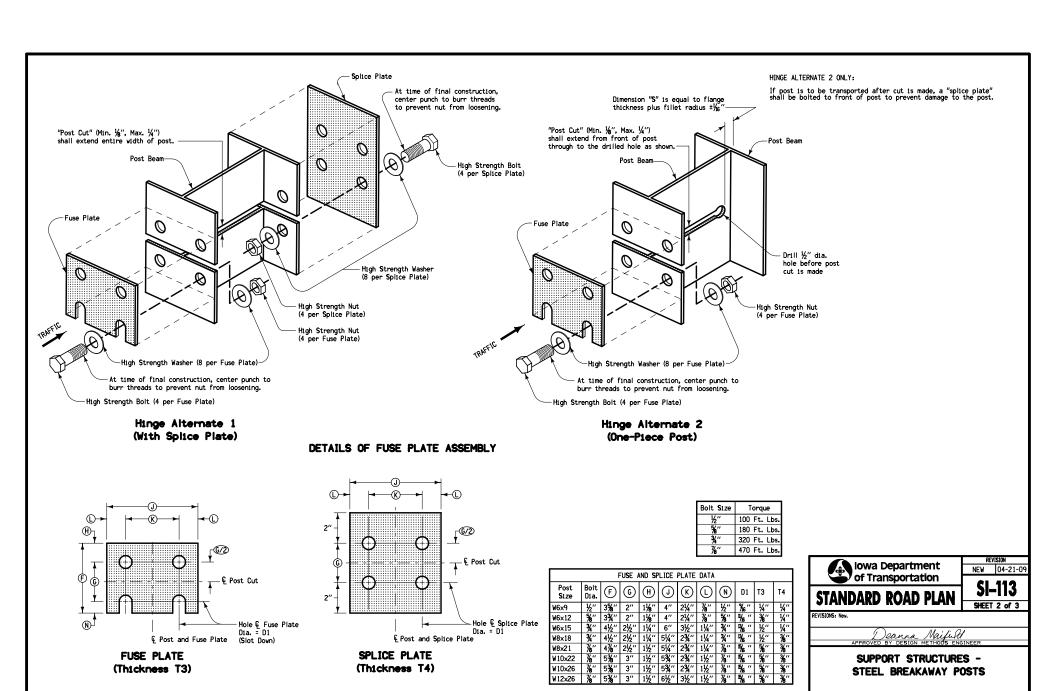
W 10 x 22

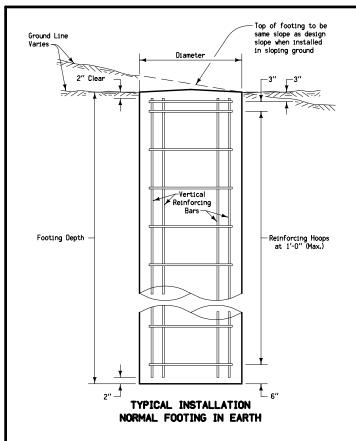
W 10 x 26

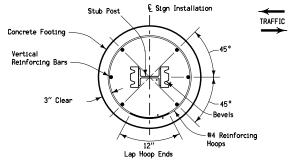
W 12 x 26

% dia. x 2% " Torque = 37.50 ft. lbs. 5"

34" dia. x 3½" Torque = 62.50 ft. lbs.

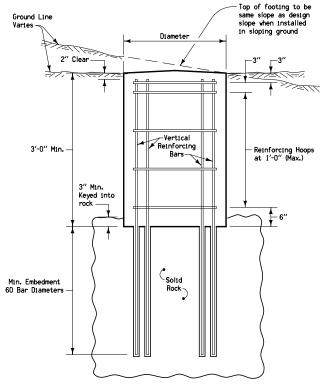




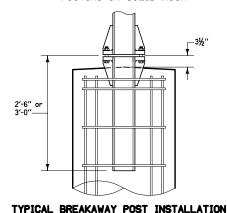


PLAN VIEW

(REINFORCING PLACEMENT AND SIGN ORIENTATION) Note: Refer to RD-21A for details of sign post and stub.



## ALTERNATE DESIGN FOOTING IN SOLID ROCK



The footing shall be constructed as shown for normal footing in earth. Where solid rock is encountered, the alternate design for footing in solid rock may be used with the approval of the Engineer.

All excavation for the footing shall be disposed of in the area adjacent to the footing and shaped to normal ground contour, unless directed otherwise by the Engineer.

The stub post shall be held in proper position by an approved device which will ensure that it remains in proper position upon completion of concrete placement.

The contract price for size of footing required shall be full compensation for construction of footing as detailed hereon, including all necessary excavation regardless of character.

Vertical bars in solid rock shall be set as follows:

- 1. Drill holes twice bar diameter and fill with water.
- 2. When hole is fully saturated; blow water out and fill twothirds depth with sand cement mortar.
- Insert bar and consolidate mortar.
   Fill hole to top with mortar.

FOOTING REINFORCING DATA						
Post Size	Stub Length	Footing		Vertical Rein. Bar		
		Diameter	Depth	Size	Length 1	
W6x9	2'-6"	2'-0"	6'-0"	No. 6	5′-8″	
W6×12	2'-6"	2'-0"	6'-0"	No. 6	5′-8″	
W6×15	2'-6"	2'-0"	6'-6"	No. 6	6'-2"	
W8×18	2'-6"	2'-0"	7′-0′′	No. 6	6′-8″	
W8×21	3'-0"	2'-8"	7′-6″	No. 8	7′-2"	
W10×22	3'-0"	2'-8"	8'-0"	No. 8	7′-8″	
W10×26	3'-0"	2'-8"	8'-6"	No. 8	8'-2"	
W12×26	3'-0"	2'-8"	9'-0"	No. 8	8'-8"	

1 Lengths are for normal footings. Required length may vary where alternate rock design is used.



SUPPORT STRUCTURES -STEEL BREAKAWAY POSTS