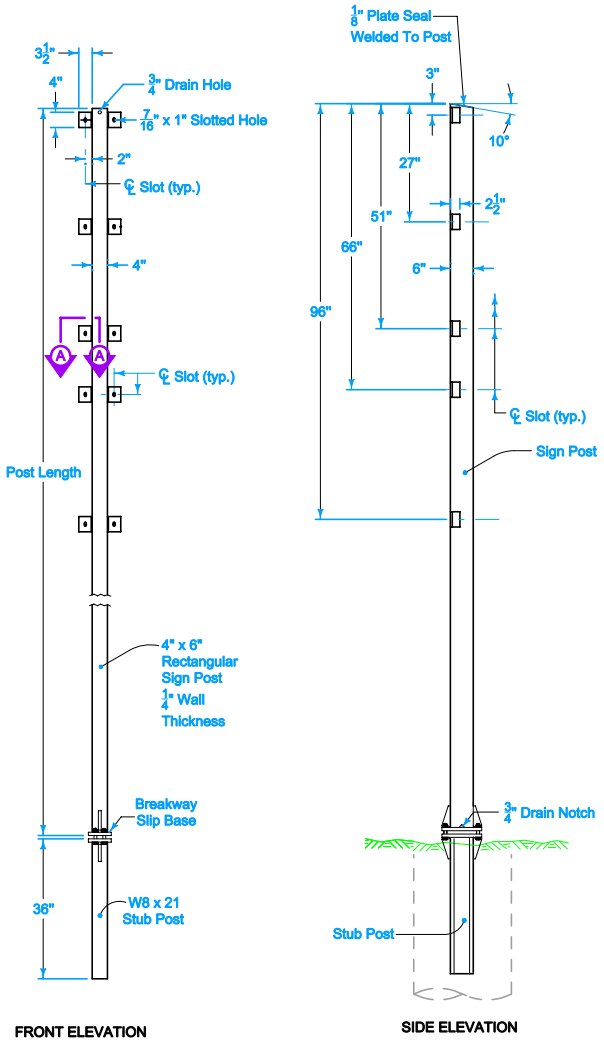
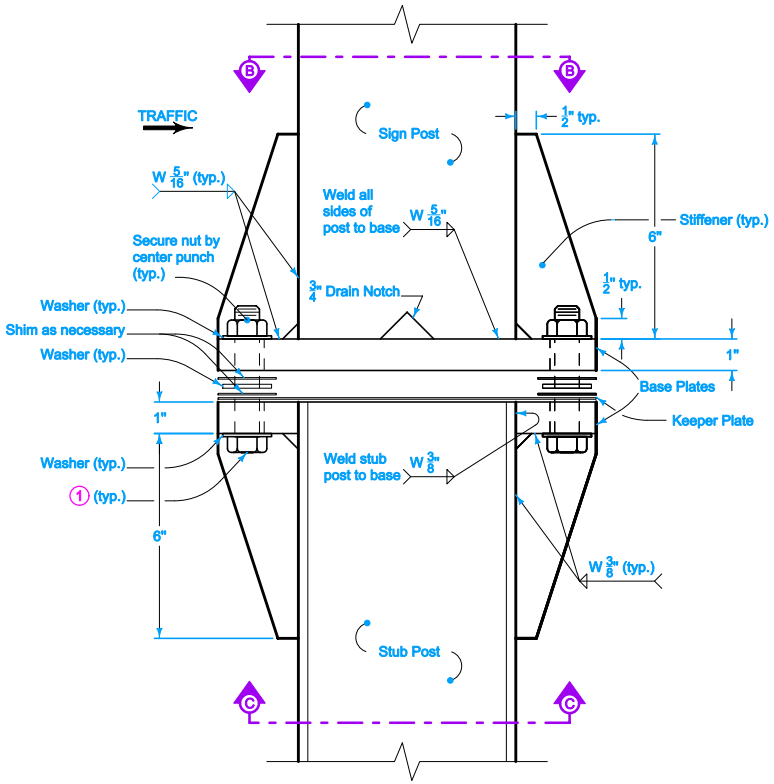


FRONT ELEVATION

SIDE ELEVATION

4" x 6" RECTANGULAR TUBE POST FOR INTERSTATE SPEED SIGNS



BREAKAWAY BASE
Side View

Furnish post, stub, and fasteners as per Specification 4186.10.B.

Plumb signpost by installing shims. Furnish two shims each of 0.012" and 0.032" thickness (total of 4 per post). Shims to be brass stock or strip conforming to ASTM B 36.

Construct the footing 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.

Dispose of all excavation for the footing in the area adjacent to the footing and shape to normal ground contour, unless directed otherwise by the Engineer.

Hold the stub post in proper position by an approved device to ensure that it remains in proper position upon completion of concrete placement.

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

(1) ¾" dia. x 3½"
Torque = 62.50 ft. lbs.

Possible Contract Items:
Concrete Footing for Steel Breakaway Post
Steel Breakaway Sign Post, Rectanguler Tube

Iowa Department of Transportation

STANDARD ROAD PLAN

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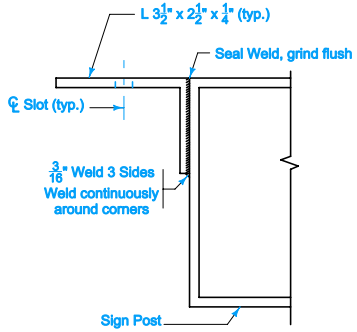
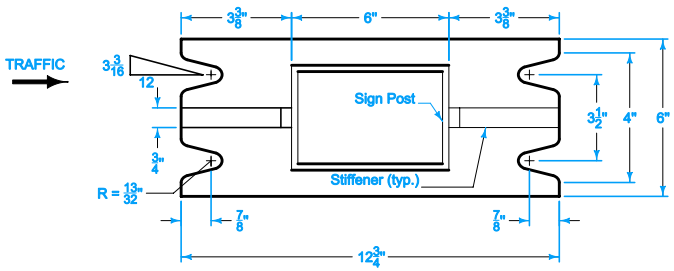
APPROVED BY DESIGN METHODS ENGINEER

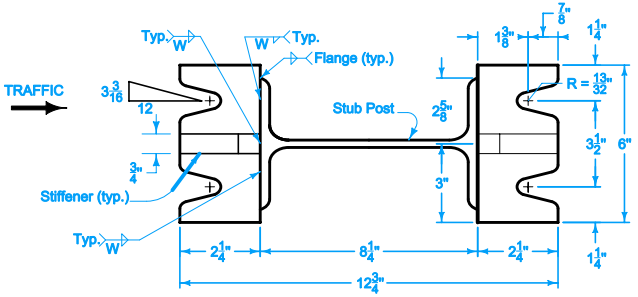
SUPPORT STRUCTURES - STEEL BREAKAWAY POSTS RECTANGULAR TUBE



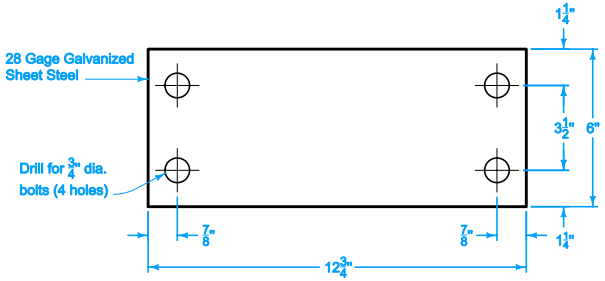
SECTION A-A



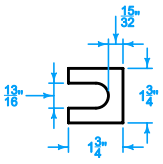
SECTION B-B
PLAN - BASE



SECTION C-C
PLAN - BASE



KEEPER PLATE



SHIM

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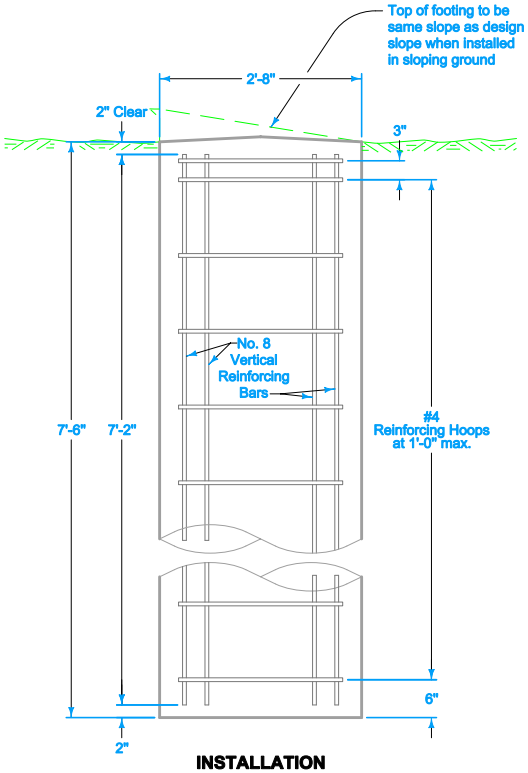
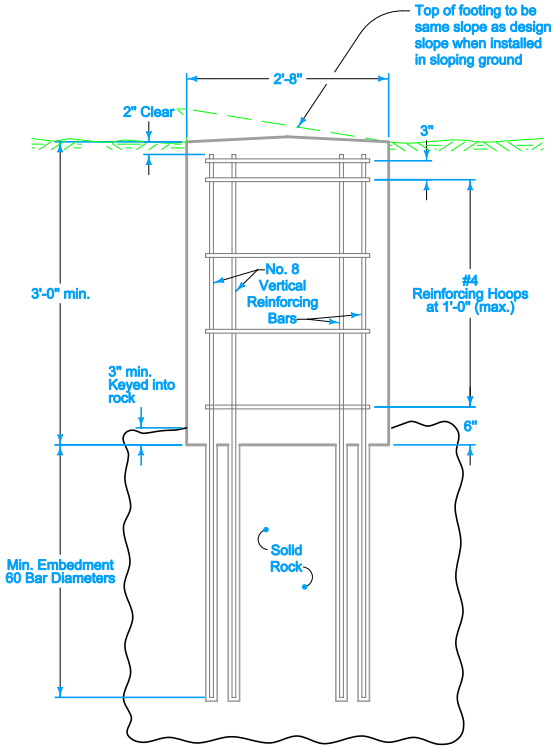
SUPPORT STRUCTURES -
STEEL BREAKAWAY POSTS
RECTANGULAR TUBE

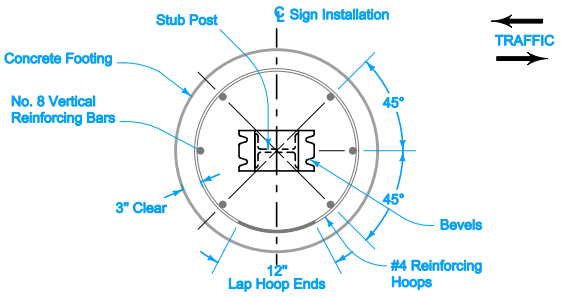


INSTALLATION
NORMAL FOOTING IN EARTH

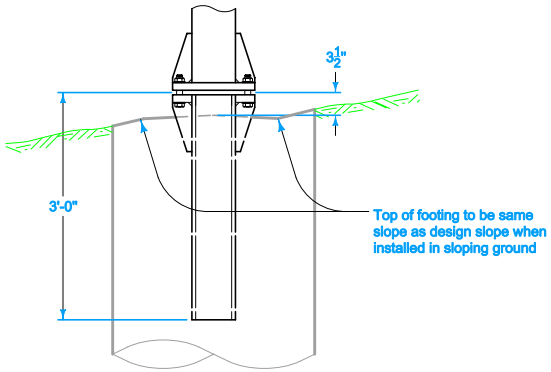


ALTERNATE DESIGN (2)
FOOTING IN SOLID ROCK

(2) Set vertical bars in solid rock as follows:
1. Drill holes twice bar diameter and fill with water.
2. When hole is fully saturated; blow water out and fill two-thirds depth with sand cement mortar.
3. Insert bar and consolidate mortar.
4. Fill hole to top with mortar.



PLAN
(Reinforcing Placement and Sign Orientation)



BREAKAWAY POST INSTALLATION

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SUPPORT STRUCTURES - STEEL BREAKAWAY POSTS RECTANGULAR TUBE