TUBULAR STEEL POSTS
(SOCKET SYSTEM) (SINGLE OR DOUBLE POST)

SIGNPOST SELECTION GUIDE (90 MPH WIND LOAD DESIGN)

### CHART NOTES

1. **Typical Post Mounting Heights** from ground to bottom of sign panel are 7, 8, or 9 feet; other heights may be required when signs are mounted on structures fall on cut slope.

2. For signs mounted on two posts, the minimum distance between posts shall be 2 feet and the maximum distance shall be 8 feet. Distance from post to edge of sign panel shall be 0 to 8 inches. When backing posts are used, posts shall be installed with a minimum of 2 inches to the edge of the backing ZEE.

3. All sign panels greater than 60 inches in width must be mounted on two posts to prevent turning.

4. The post sizes shown are the minimum sizes required. Two PZ posts may be substituted where one PZ post is indicated. PZ posts may be substituted for PS posts when directed by the engineer.

### POST SPECIFICATIONS

- **Post**:
  - **Outside Diameter**: 2.75" (70mm)
  - **Material**: ASTM-503
  - **Wall Thickness**: 0.090" (2.26 mm)
  - **Coating**: Steel sign support (20" inch round)

### GENERAL NOTES

1. Signs between 37" and 50" in width with the post installation require a "Z" or "G" sign support bracket in addition to the backing ZEE requirements. When directed by the engineer, sign panels less than 37" in width may be treated directly to 2 or 3 brackets without ZEEs.

2. "Z" brackets may be used for multiple sign installations.

3. For backing ZEE requirements and details, see standard plans 5-614-1 and 5-614-4.

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**POST FABRICATION**

- **Coating**:
  - **Material**: Steel sign support (20" inch round)
  - **Paint**: 1.47 KIP FT for PS-ZG post coated with 20 gal.
  - **Color**: Painted coating may be added according to manufacturer specifications for special applications when shown on the plans.

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**SIGNPOST SELECTION GUIDE (90 MPH WIND LOAD DESIGN)**

- **Post Height**:
  - **Sign Width**: 252.00"
  - **PS-ZG**: 30.00"
  - **PS-2ZG**: 35.00"
CLASS I SIGN COMBINATIONS (DIRECT ATTACHMENT)

SEE NOTE 6 ON SHEET 4

CLASS I SIGN COMBINATIONS USING U-BRACKETS

TUBULAR STEEL SIGN SUPPORT DETAILS

STANDARD PLAN NO. S-614-8

Issued by: Safety & Traffic Engineering Branch July 4, 2006

Sheet No. 3 of 5
### General Notes

1. Z-bar length shall be 3 in (76 mm) in front of the edge of the sign or row of signs on both sides. The accompanying table gives the Z-bar length for most typical panel combinations.

2. First and last holes shall be 3 in (76 mm) in front of edge of Z-bar. The holes in between shall be in 6 in (152 mm) apart.

3. T and U brackets shall terminate 2 in (50.8 mm) from the edge of sign panel. When a Zee is connected to a T-bracket, they shall be the same length except when the Zee must extend beyond the maximum length of a T-bracket.

4. Two mounting clamps are required on Zees where there is only one Zee for the panel and the Zee is attached to only one post.

5. Zees shall be attached to T-brackets and U-brackets with U-bolts in mounting clamps.

6. Vertical spacing between sign panels shall be 3 in (76 mm) in typical.

7. In special cases, U-brackets may be used to mount signs that face different directions. The engineer shall determine the orientation of the sign panels and verify that the maximum allowable wind loads for the post are not exceeded.

### Panel Widths and Zee Length

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### Class II Sign Combinations Using T-Brackets with Z-Bar

### Single Post Class II Signs Using Z-Bar

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**Sheet Revisions**

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Safety & Traffic Engineering Branch KOM/JSW

**Tubular Steel Sign Support Details**

Issued By: Safety & Traffic Engineering Branch July 4, 2006

**Standard Plan No.**

S-614-8

**Sheet No.** 4 of 5
CLASS II SIGN COMBINATIONS USING U-BRACKETS

SEE NOTE 6 ON SHEET 4

CLASS II SIGN COMBINATIONS USING TWO POSTS

SEE NOTE 4 ON SHEET 4

NOTE: THIS CONFIGURATION IS PREFERABLE TO USING TWO SEPARATE SIGNS.