

PERFORATED TUBE SIGN POST INSTALLATION

Diagram illustrating the installation of a sign post using a perforated tube and various hardware components.

Components and Dimensions:

- PERFORATED TUBE SIGN POST INSTALLATION** (Main Title)
- SIGN POST 1" BELOW SIGN TOP** (Dimension)
- 5/16" Round Head Bolt As Required** (Hardware)
- SIZE 1 3/4" #14 GA SIGN POST** (Dimension)
- BREAK-AWAY POINT** (Label)
- 2-3" ABOVE GROUND** (Dimension)
- 18" SLEEVE SIZE 2 1/4" #12 GA** (Dimension)
- GROUND LEVEL** (Label)
- CORNER BOLT AND NUT** (Hardware)
- 36"** (Dimension)
- SIZE 2" #12 GA SIGN POST ANCHOR** (Dimension)

The diagram illustrates the typical end of roadway sign mounting installation. It includes a table of sign types and dimensions, and a side-view cross-section of the sign post and mounting hardware.

Sign Type	Dimensions
R4 - 7	(24" x 30")
W14 - 2	(30" x 30")
R1 - 2	(36" x 36" x 36")
R1 - 1	(30" x 30")
OM - 1	(18" x 18")
END OF ROADWAY	(18" x 18")

The side-view cross-section shows the sign post and mounting hardware. The sign post is an 8' Steel Sign Post. The sign is mounted on the post using 3 lb./ft. "U" Channel. The sign is positioned 8'-0" (Typ.) from the Center of Roadway. The sign is positioned 4'-0" (MIN.) from the Ground Line.

12'-0"

Center of Roadway

End of Roadway Marker (Typ.)

45' (Typ.)

8"

Red Colored Stripes on White Background

Posts as Req'd (8' Typ.)

TYPE I BARRICADE DETAIL W/ E.O.R. MARKERS

Diagram illustrating the dimensions and components of a sign post assembly:

- 3 lb./ft. 2 3/8" O.D. STEEL POST**: The main vertical post.
- 4'-0" (Min.)***: The minimum height of the post above the ground line.
- Ground Line**: The horizontal line representing the ground level.
- Sign Post Anchor**: The base of the post where it meets the ground.
- 7'-0" (Min.)**: The total minimum height of the post assembly above the ground line.

Anchor system must have passed crash testing and approved by FHWA.

FLAT PLATE STREET NAME SIGN

Technical drawing of a Street Name Sign Blade Detail. The drawing shows a cross-section of a sign blade with various dimensions. The total width is 6.75 inches or 9.00 inches. The blade has a central vertical slot. Dimensions include: .091 inch to .094 inch for the top edge thickness; .25 inch for the top edge thickness; .75 inch for the central slot width; .50 inch for the bottom edge thickness; and .25 inch for the bottom edge thickness. The text "STREET NAME SIGN" and "BLADE DETAILS" is written below the drawing.

[illegible]

	FHWA REG NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	SHEETS
	7	KANSAS	472 84253		7	9

NOTE: REFERENCES BELOW TO "STANDARD SPECIFICATIONS" DENOTE "STANDARD SPECIFICATION FOR STATE ROAD AND BRIDGE CONSTRUCTION EDITION 1990" BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

1. POST ANCHORS: POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.
2. POSTS FOR TRAFFIC CONTROL SIGNS: POSTS SHALL BE GALVANIZED AND CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FOOT MINIMUM.
3. POSTS FOR STREET NAME SIGNS (SNS): POSTS SHALL BE 9 FEET LONG, CONSTRUCTED FROM 2 3/8" O.D. GALVANIZED STEEL PIPE WEIGHING A MINIMUM OF 3 LBS./FOOT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.
4. POSTS FOR END OF ROADWAY SIGN TO BE 8' LONG AND INSTALLED A MINIMUM OF 4' FROM ROADWAY TO BOTTOM OF SIGN.
5. SIGN BLANKS FOR TRAFFIC CONTROL SIGNS: SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY 6063-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1626 OF THE STANDARD SPECIFICATIONS.
6. SIGN BLADES FOR STREET NAME SIGNS: EXTRUDED ALUMINUM BLADES SHALL BE ALUMINUM ALLOY CONFORMING TO 6063-T6 OR 5052-H38 (ASTM SPECIFICATION B221, LATEST ISSUE). BLADES SHALL HAVE AN ALDOLINE OR PHOSPHATE ETCHED FINISH. BLADES SHALL HAVE SQUARE CORNERS AND NO HOLES.

MINIMUM BLADE LENGTH SHALL BE 24". MAXIMUM BLADE LENGTH SHALL BE 48". LENGTH VARIES BY INCREMENTS OF 6".

BLADES BEARING THE STREET NAMES SHALL BE FIRMLY ATTACHED TO THE MOUNTING BRACKETS USING ALLEN-TYPE SET SCREWS. THE BLADES SHALL BE ORIENTED PARALLEL TO THE STREET.

5. MOUNTING BRACKETS FOR SIGNS: DIE-CAST ALUMINUM BRACKETS SHALL BE ALUMINUM ALLOY 360 HAVING A TENSILE STRENGTH OF 44,000 PSI. THE BRACKETS SHALL BE SMOOTHLY FINISHED FREE OF PITS, BURRS, AND FLAWS. EACH BRACKET SHALL BE TAPPED AND DRILLED FOR 5/16" ZINC-PLATED ALLEN-TYPE SET SCREWS HAVING SELF-LOCKING SAW-TOOTH ENDS.
 8. FASTENERS: ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.
 9. REFLECTIVE SHEETING: REFLECTIVE SHEETING SHALL BE TYPE III, HIGH-INTENSITY TYPE.
 10. PROCESS INK: ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
 11. DETAILS: REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
 12. DETAILS - SNS: THE REFLECTIVE SHEETING FOR THE 6 3/4" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVER-WHITE #2 COPY WITH 4" UPPER CASE AND LOWER CASE PRIMARY COPY AND SUFFIX COPY. BOTH SERIES "C". FACES TO TRIM TO A 6 1/4". (SEE DETAIL A.)
- THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVERWHITE #2 COPY WITH 5" UPPER CASE AND LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". THE CARDINAL DIRECTION CENTERED DIRECTLY BELOW THE BLOCK NUMBER SHALL BE AN UPPER CASE, 4" SERIES "C" LETTER. FACES TO TRIM TO A 8 1/2" WIDTH. (SEE DETAIL B.)

FOR CUL-DE-SAC STREETS, A 9" METRO SIZE BLADE SHALL BE USED WITH THE HOUSE NUMBERS DISPLAYED BENEATH THE STREET NAME. LETTERING TO BE THE SAME AS FOR THE 6 3/4" SIZE BLADE, EXCEPT THAT THE HOUSE NUMBER INFORMATION SHALL BE 4" SERIES "C".

SHOP DRAWINGS OF LAYOUT FOR SNS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION OF THE CITY OF WICHITA FOR APPROVAL PRIOR TO FABRICATION. THE FINISHED SIGNS AS SUPPLIED SHALL BE OF GOOD APPEARANCE, FREE FROM RAGGED EDGES, CRACKS, SCALES OR BLISTERS AND SHALL BE CLEAN-CUT. SIGNS SHALL BE PACKED IN SUCH MANNER AS TO PREVENT DAMAGE OR DEFACEMENT DURING SHIPMENT OR STORAGE.

13. PERMANENT TRAFFIC CONTROL AND SNS: PERMANENT TRAFFIC CONTROL AND SNS SHALL BE MEASURED AND PAID FOR AT THE LUMP SUM PRICE FOR SIGNING. THE PAYMENT AS SET FORTH ABOVE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING. POSTS, ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

SCALE: NONE	APPROVED BY	DATE: JUNE '93
DRAWN BY: TM		REVISED: OCT 2002
CITY OF WICHITA		
<i>DEPARTMENT OF PUBLIC WORKS</i>		
SCOTT LOGAN, TRAFFIC ENGINEER, ENGINEERING DIVISION		