Specifications for Construction and Installation of Traffic Signs

Pennington County Highway Department
ROADSIDE SIGN
(URBAN SECTION)

NOT LESS THAN 7'
(8' FOR STREET NAMES)

NOTE: POST FROM GROUND LINE TO BOTTOM OF SIGN SHALL NOT BE LESS THAN 7'.

ROADSIDE SIGN
(RURAL SECTION)

TYPICAL SIGN INSTALLATION

PENNINGTON COUNTY HWY DEPT
3601 CAMBELL STREET
RAPID CITY, SD 57701
(605) 394-2166
HEIGHT OF POST AS REQUIRED BY ROAD SECTION (NOT LESS THAN 7')

SIGN MOUNTING

5/16" X 3" BOLT, NUT AND STEEL WASHERS

NYLON/PLASTIC WASHER
STEEL WASHER

NOTE: STREET NAME MOUNTING CONSISTS OF TWO SIGNS: EACH WITH LETTERING ON ONE SIDE MOUNTED BACK TO BACK AROUND THE POST AS SHOWN.

5/16" X 3" BOLT, NUT, NYLON/PLASTIC AND STEEL WASHERS EACH SIDE (SEE BELOW)

STREET NAME MOUNTING

5/16" X 3/4" BOLT, NUT, NYLON/PLASTIC AND STEEL WASHERS EACH SIDE (SEE BELOW)

STREET SIGN BOLT DETAIL

NYLON/PLASTIC WASHER
STEEL WASHER

SIGN
NYLON/PLASTIC WASHER
STEEL WASHER

HEX HEAD BOLT
HEX HEAD NUT

GROUND LINE

SEE BREAKAWAY DETAIL

SIGN CONFIGURATION

TYPICAL SIGN INSTALLATION

PENNINGTON COUNTY HWY DEPT
3601 CAMBELL STREET
RAPID CITY, SD 57701
(605) 394-2166

REV: CJB  JULY, 2012
REV: WDA  NOV, 2004
DRAWN BY: WDA  MARCH, 1999
3/8" X 3 1/2" HEX HEAD BOLT W/ NUT AND WASHER

2 1/2" SQUARE X 24"

2 1/4" SQUARE X 48" MIN.

GROUND LEVEL

SEE DETAIL BELOW FOR ANCHOR PLATE

BREAKAWAY DETAIL

1/8" GALVANIZED STEEL ANCHOR PLATE

1/8" GALVANIZED STEEL ANCHOR PLATE

7/16 Holes for 3/8" BOLTS

ANCHOR PLATE DETAILS

TYPICAL SIGN INSTALLATION

PENNINGTON COUNTY HWY DEPT
3601 CAMBELL STREET
RAPID CITY, SD 57701
(605) 394-2166
**Typical Street Sign**

- **Length**: 24" min. 60" max.
- **Width**: 9'
- **Case**: White letters
- **Font**: FHWA Series
- **Background**: Green
- **Radius Corners**: 1 1/4" typ.
- **Case**: White letters
- **Abbreviations**: Only
- **Holes**: 3/8" bolts 1/2" from edge and centered typ. (four required for each signface)

**Mounting Hole Layout for Street Sign**

**Street Signs:**

- Aluminum sheeting shall meet the requirements of ASTM B 209 for alloy 5052-H38 or 6061-T6. The aluminum shall be properly degreased and etched or treated with a light, tight, amorphous chromate coating. Sheet aluminum thickness shall be 0.080 minimum.

- Facing shall meet or exceed the requirements of ASTM D 4956, Type III ('High Intensity Prismatic').

- Lettering shall meet the requirements of MUTCD for the size and type indicated. Lettering shall be transparent ink or translucent film placed over white to create white lettering.

**Other Signs:**

- Aluminum sheeting shall meet the requirements of ASTM B 209 for alloy 5052-H38 or 6061-T6. The aluminum shall be properly degreased and etched or treated with a light, tight, amorphous chromate coating. Sheet aluminum thickness shall be as designated for specific signage.

- Facing and borders shall meet the requirements of ASTM D 4956, Type III ('High Intensity or Diamond Grade') or equivalent.

- Lettering shall meet the requirements of MUTCD for the size and type indicated.

**Sign Posts:**

- Perforated tube type conforming to ASTM A 653, G90, structural quality, Grade 50, Class L.

- Posts shall be a square tube formed of 12 gauge steel (0.105 inch thick), rolled to size. Posts shall be hot dipped galvanized with a 1.25 ounce per square foot coating conforming to ASTM A 525.

- Posts shall be punched, bored or have knockouts with 7/16" diameter holes on one inch centers of all four sides for the entire length of the posts.

**Hardware:**

- Bolts, nuts and washers for attaching signs shall conform to ASTM A 307. Bolts, nuts and washers shall be galvanized or plated to prevent rust in accordance with ASTM A 153.

- Plastic or nylon washers, shall be of materials as recommended by the sheeting manufacturer.

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**Typical Sign Installation**

Pennington County Hwy Dept
3601 Campell Street
Rapid City, SD 57701

(605) 394-2166