

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-721-4

CODE: (SP)

DATE: 04/12/2016

SUBJECT: Ground Mounted Sign Supports

Section 721, Materials for Signs, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-721.02--Ferrous Materials.

907-721.02.2--Structural Steel for Sign Supports.

907-721.02.2.1--Ground Mounted Sign Supports. Before the first sentence of Subsection 721.02.2.1 on page 746, add the following.

Ground mounted supports shall fall into two categories; 1) a standard or rigid post, or 2) a U-section post.

The standard or rigid posts, also referred to as “tubular type” posts, shall be of various designs (shapes, tubular, etc.) which by size and design will not easily bend away when hit by a moving vehicle. Unless otherwise noted on plan details, standard and rigid posts will require a “breakaway” feature to be incorporated with the post. The material and design of the breakaway feature for the various shapes of standard posts shall be shown by the plan details.

The U-section posts, also referred to as “bendaway” posts, are normally single U-section channels of such size and design that when hit by a moving vehicle will easily bend away from the vehicle without seriously damaging it.

Delete the third and fourth insert paragraphs in Subsection 721.02.2.1 on page 746, and substitute the following.

Standard or Rigid and U-Section posts for supplementary directional signs per Subsection 721.02.3 "Steel Posts for Small Signs" modified as shown on the plans.

Delete Subsection 721.02.3 on pages 746 and 747, and substitute the following.

907-721.02.3--Steel Posts for Small Signs. Standard or Rigid (Tubular Type): This type of post shall be fabricated from standard beam shapes of the size, shape, and weight shown on the plans. The material shall conform to the requirements of ASTM A 53, Grade B, Schedule 40 or better with no pressure test required. Other shapes and materials shall be as noted by plan details.

U-section posts (Bendaway Type): This post shall be fabricated to acceptable shape and design to

provide the Moment of Inertia and Section Modulus for the requirements of the designated post size shown on the plan details. The post shall meet the requirements of ASTM A 499, Grade 60, or a comparable new billet steel meeting the requirements of ASTM A 572, Grade 60.

All materials furnished for use shall be new, unless otherwise specified by plan details or provisions of the contract.

907-721.02.3.1--Material. Standard round posts shall be welded and seamless steel pipe for posts per ASTM A 53, Type E or S, Grade B, or steel structural tubing per ASTM A 501.

Standard square tube posts shall be of high carbon rail steel ASTM A1011, Grade 50 steel with average minimum yield strength after cold forming of 60,000 psi. Breakaway features constructed of steel shall have all elements galvanized, unless otherwise provided by the plan details.

U-section posts shall be of high carbon rail steel ASTM A 499.

907-721.02.3.2--Workmanship. All posts shall be straight with no bending, warping, splits, or breaks.

Square tube posts shall meet AASHTO M111. Square tube posts shall be corner welded, scarfed after welding, then zinc coated after scarfing. All surfaces of the square tube posts must be coated with a chromate conversion coating and a clear organic polymer topcoat. Both the interior and exterior surfaces of the square tube posts must be galvanized.

907-721.02.3.3--Cross Section. Square tube posts shall have a 2½-inch outer sleeve and 2 ¾-inch inner sleeve. The material shall be 12 gauge steel.

U-section posts shall be as shown on the plans. The bends in the cross-section of the post must be sharp and well defined, and the radius of the bend shall not be greater than 1³/₃₂ of an inch.

907-721.02.3.4--Weight. The weight of the square tube posts per linear foot without ground plates shall be a minimum of 3.14 pounds per foot for 12 gauge posts, or as shown on the plans.

The weight of the U-section post per linear foot without ground plates shall be 2.0 pounds for 7-foot to 9-foot lengths, and 3.0 pounds for 11-foot to 14-foot lengths with a tolerance of three and one-half percent (3½%), or as shown on the plans.

907-721.02.3.5--Punching. Square posts shall be punched on the center line of each of the four sides while hot. Square Tube Posts of 8-foot to 20-foot lengths shall have 7/16-inch holes spaced one inch apart on centers starting one inch from the top of the posts and extending the full length of the post on each of the four sides of the post.

U-Section posts shall be punched on the center line of the web while hot. Posts of 7-foot to 14-foot lengths shall have 3/8-inch holes one inch apart on centers starting one inch from the top of the posts and extending the full length of the post.

907-721.02.3.6--Sign Size. For Standard posts, sign size shall be no more than 70 square feet.

907-721.02.3.7--Pointing. The posts shall not be pointed.

907-721.02.3.8--Caps. All standard post shapes whose design will have a tendency to collect water shall be provided with an approved type of tight fitting post cap fabricated of material compatible with that of the post.