

SECTION 616 – GRAY TUBULAR FLEX POSTS

616.01 DESCRIPTION

This work is for the supply and mounting of Gray Tubular Flex Posts for traffic control.

616.02 REFERENCE STANDARDS

NCHRP Report 350 – Recommended Procedures for the Safety Performance
 Evaluation of Highway Features
MCDOT 831 – Gray tubular flex posts specification

616.03 DEFINITIONS

Not Applicable.

616.04 MATERIALS

A. Gray tubular flex post.

1. The two-piece gray tubular flex post shall consist of a flexible, surface mounted post made from durable, non-discoloring polyethylene plastic to which reflective sheeting is applied, and a thermoplastic base which is secured to the pavement with epoxy. Posts shall be capable of remaining upright during normal traffic flow and wind conditions. The posts shall be manufactured of a material capable of withstanding impact with damage to the markers or the vehicles. The tube shall remain in the base when hit by vehicles.
2. The posts shall be in compliance with NCHRP 350 and the latest MUTCD requirements.
3. The post shall be tubular in shape and two and one-quarter (2 1/4) inches in diameter. A one and three quarter (1 3/4) inch diameter interior reinforcement tube shall be located and secured in the lower portion of the post. The upper fourteen (14) inches shall be flattened to an oval shape at least three (3) inches in width at the major axis by one (1) inch at the minor axis. The total above ground height of the post shall be forty-eight (48) inches. The post shall be gray in color and resistant to ultraviolet and infrared radiation. The top of each post shall be capped.
4. Three sections of reflective sheeting meeting Federal Highway Specification FP-92, Type III, Class 2 shall be applied to the side of the flattened area that faces oncoming traffic. Each section of reflective sheeting shall measure three (3) inches by three (3) inches with the first section placed one and three quarters (1 3/4) inches below the top of the post, the second section is to be placed one and one half (1 1/2) inches below the first and the third section placed one and one half (1

- ½) inches below the second. The reflective sheeting shall be white (silver) in color.
5. The posts shall insert and be secured into the plastic base with two horizontal locking pins. It is required that when the post is no longer serviceable, it can be removed, and a new post can be manually inserted and locked into existing base. The posts are to be of a size and have a locking mechanism compatible with the bases in service.

616.05 SUBMITTALS

The Contractor shall submit the manufacturer’s certification showing the post and base meet all requirements stated in the material section.

616.06 QUALITY ASSURANCE

The gray tubular flex posts shall meet all the requirements of MCDOT 831-Gray tubular flex posts.

616.07 CONSTRUCTION

The gray tubular flex posts shall be installed in strict compliance with the approved manufacture’s instructions. The posts shall be place as specified in the Contract Documents or as directed by the M-NCPPC CM.

616.08 MEASUREMENT AND PAYMENT

Payment will be full compensation for all material, labor, equipment, tools and incidental items necessary to complete the work. Payment shall be made on a unit rate or lump sum basis as shown in the bid proposal.