



Florida Department of Transportation

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STEPHANIE KOPELOUSOS
SECRETARY

July 20, 2007

Dr. Leslie McCarthy, PhD, P.E.
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 705
Proposed Specification: 7050000.D01 Object Markers and Delineators

Dear Dr. McCarthy:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Object Markers and Delineators.

This change was proposed by Chester Henson of the State Design Office to address differences between object markers and delineators and to eliminate inconsistencies between the current specifications and the Manual on Uniform Traffic Control Devices.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Signature on File

Duane F. Brautigam, P.E.
State Specifications Engineer

DFB/ft

Attachment

cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

OBJECT MARKERS AND DELINEATORS.(REV ~~4-25-077-17-07~~)

SECTION 705 (Pages 731 and 732) is deleted and the following substituted:

SECTION 705***OBJECT MARKERS AND* ~~HIGHWAY~~-DELINEATORS****705-1 Description.**

Furnish and install object markers *to mark obstructions within or adjacent to the roadway* ~~and highway delineators, with supporting posts,~~ of the types and at the locations called for in the ~~plans~~ *Design Standards or on the plans*. ~~Highway delineators consist of a reflector, or reflective sheeting permanently adhered to sheet aluminum, mounted to delineator post.~~

Furnish and install delineators above the roadway surface or along the side of the roadway to indicate the alignment of the roadway as indicated in the Design Standards or on the plans ~~plans.~~

705-2 Materials.

~~705-2.1 Delineator Assembly~~ **General** : ~~Meet the requirements of Sections 993 and 994.~~

Meet the following requirements:

Recycled Plastic Products.....Section 972

Object Markers and DelineatorsSection 993

Retroreflective and Non-Reflective Sign Sheeting.....Section 994

~~705-2.2 Object Markers:~~ Meet the arrangement and design requirements of Section 3C of the MUTCD, with the following additions:

~~_____ (1) Use 0.080 inch aluminum sheets and plates and conform to ASTM B 209, Aluminum Association Alloy 6061-T6 or 5052-H38, or Fiberglass Reinforced Plastic Sign Panels conforming to 700-2.2.~~

~~_____ (2) Obtain the Engineer's approval of the object marker bracket and attachment.~~

~~_____ 705-2.3 Metal Delineator Posts:~~ Meet the requirements of Section 993.

~~_____ 705-2.4 Flexible Delineator Posts:~~ Meet the requirements of Section 972.

~~_____ 705-2.5 Reflective Sheeting for Delineator Posts:~~ Use Types III, IV, V or VII reflective sheeting meeting the requirements of Section 994.

705-2.26 Product Acceptance on the Project: Ensure that ~~Type A, Type C~~ delineators, ~~and~~ delineator posts, ~~assemblies~~ and markers used to delineate guardrail *and barrier wall* are listed on the Qualified Products List.

Provide to the Engineer a manufacturer's certification conforming to the requirements of Section 6, which confirms that each product meets the requirements of this Section.

705-3 Installation Requirements.

Install ~~d~~Delineators, object markers, and ~~Install the posts and mount the delineator assemblies or object markers to the top of the posts in accordance with the~~

~~manufacturer's instructions. Install surface mounted posts to a height of 36 inches from the existing surface to the top of the posts. Install ground mounted posts to a height of 48 inches from the existing ground to the top of the posts.~~

~~Where reflective sheeting is a part of the delineator assembly, provide an assembly having a minimum of 4 by 8 inches of reflective sheeting, free of physical damage prior to and after installation. Mount the reflective sheeting using pressure sensitive adhesive in accordance with sheeting manufacturer's requirements, to prevent disbonding of the sheeting during the life of the post.~~ *reflector units for guardrail and barrier wall shall be installed at locations identified in the plans and in accordance with the MUTCD, Design Standards and plans.*

705-4 Method of Measurement.

The quantity to be paid for will be the number of delineators or object markers furnished, installed and accepted.

705-5 Basis of Payment.

Prices and payments will be full compensation for work specified in this Section, including the cost of labor, materials, and incidental items required to complete the work.

Payment will be made under:

~~Item No. 705- 1 Delineator, Single Unit each.~~

~~Item No. 705- 2 Delineator, Double Unit each.~~

~~Item No. 705- 3 Delineator, Triple Unit each.~~

Item No. 705- 10- Object Marker - each.

~~Item No. 705- 71 Tubular Delineator (Flexible) each.~~

Item No. 705- 11xx Delineator – each.

OBJECT MARKERS AND DELINEATORS.

(REV 7-17-07)

SECTION 705 (Pages 731 and 732) is deleted and the following substituted:

**SECTION 705
OBJECT MARKERS AND DELINEATORS**

705-1 Description.

Furnish and install object markers to mark obstructions within or adjacent to the roadway of the types and at the locations called for in the Design Standards or on the plans.

Furnish and install delineators along the side of the roadway to indicate the alignment of the roadway as indicated in the Design Standards or on the plans.

705-2 Materials.

705-2.1 General : Meet the following requirements:

- Recycled Plastic ProductsSection 972
- Object Markers and DelineatorsSection 993
- Retroreflective and Nonreflective Sign SheetingSection 994

705-2.2 Product Acceptance on the Project: Ensure that delineators, delineator posts, and markers used to delineate guardrail and barrier wall are listed on the Qualified Products List.

Provide to the Engineer a manufacturer’s certification conforming to the requirements of Section 6, which confirms that each product meets the requirements of this Section.

705-3 Installation Requirements.

Install delineators, object markers, and reflector units for guardrail and barrier wall and in accordance with the MUTCD, Design Standards and plans.

705-4 Method of Measurement.

The quantity to be paid for will be the number of delineators or object markers furnished, installed and accepted.

705-5 Basis of Payment.

Prices and payments will be full compensation for work specified in this Section, including the cost of labor, materials, and incidental items required to complete the work.

Payment will be made under:

- Item No. 705- 10 Object Marker - each.
- Item No. 705- 11 Delineator – each.