



Florida Department of Transportation

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SECRETARY

January 6, 2022

DCE MEMORANDUM NO. 22-01

(FHWA Approved: 1/3/2022)

TO: DISTRICT CONSTRUCTION ENGINEERS

FROM: Dan Hurtado, P.E., Director, Office of Construction

DocuSigned by:
Dan Hurtado 1/6/2022 | 5:25 PM EST
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SUBJECT: SPECIFICATION 706 REVISION (RAISED PAVEMENT MARKERS AND ADHESIVE)

The Department implemented Standard Specification Section 706 Raised Pavement Markers and Adhesive in the January 2022 Standard Specifications to modifying the requirements for application of RPMs on concrete surfaces.

After further consideration, the Department will delay implementation of Standard Specification Section 706 Raised Pavement Markers and Adhesive until July 2022. Projects let between January 1, 2022 and June 30, 2022 shall use the version of Standard Specification Section 706 which was implemented for the July 2021 Standard Specifications, which is also included in the attachment below.

This memorandum serves as a blanket approval to process a \$0.00 contract change to incorporate the above referenced revisions and should be attached to the Work Order or Supplemental Agreement.

Should you have any questions, please contact Olivia Townsend at 850-414-4303.

DH/ot

Attachment

**SECTION 706
RAISED PAVEMENT
MARKERS AND BITUMINOUS ADHESIVE**

706-1 Description.

Place raised pavement markers (RPMs) and adhesive, which upon installation produces a positive guidance system to supplement other reflective pavement markings.

706-2 Materials.

Use only Class B markers, except as follows:

For center line rumble strip installations where RPMs are in conflict with the grinding, install Class D RPMs with the first application of standard paint. Remove Class D RPMs prior to grinding, then install Class B RPMs in an unground area after grinding.

Install Class F RPMs only when shown in the plans.

Meet the requirements of Section 970.

706-2.1 Product Acceptance on the Project: Use only RPMs and bituminous adhesive that are listed on the Department's Approved Product List (APL). For Class F RPMs, provide a warranty assigned to the Department in accordance with Section 970.

706-3 Equipment.

Use equipment having either thermostatically controlled double boiler type units utilizing heat transfer oil or thermostatically controlled electric heating pots to install hot applied bituminous adhesive. Use a melter/applicator unit suited for both melting and pumping the bituminous adhesive through heated applicator hoses.

Heat the bituminous adhesive to between 375°F and 425°F and apply directly to the bonding surface from the melter/applicator by either pumping or pouring. Maintain the application temperature between 375°F and 425°F. The bituminous adhesive may be reheated. However, do not exceed the manufacturer's recommendations for pot life at application temperatures.

706-4 Application.

Install RPMs in accordance with the Plans and Standard Plans, Indexes 706-001 and 711-003, prior to opening the road to traffic.

Apply RPMs to the bonding surface using bituminous or epoxy adhesives in accordance with the manufacturer's instructions.

For Class F RPMs, installation may include the removal of roadway surface material to recess a portion of the RPM housing.

Prior to application of adhesive, clean the portion of the bonding surface of any material which would adversely affect the adhesive.

Apply the adhesive to the bonding surface (not the RPM) so that 100% of the bonding area of the RPM will be covered, in accordance with adhesive manufacturer's recommendations. Apply sufficient adhesive to ensure that when the marker is pressed downward into the adhesive, adhesive will be forced out around the entire perimeter of the RPM.

Immediately remove excess adhesive from the bonding surface and exposed surfaces of the RPMs. Soft rags moistened with mineral spirits meeting Federal Specifications TT-T-291 or kerosene may be used to remove adhesive from exposed faces of the RPMs. Do not use any other

solvent. If any adhesive, pavement marking materials or other foreign matter adheres to the traffic face of the RPM, replace the RPM at no cost to the Department.

Restore any areas impacted by the installation of Class F RPMs to original condition.

Ensure that all final RPMs are in place prior to opening the road to traffic.

If more than 2% of the RPMs fail in adhesion or alignment within the first 45 days under traffic, replace all failed RPMs at no expense to the Department. If more than 5% of the RPMs fail in adhesion and or alignment during the initial 45 day period, the Engineer will extend the replacement period an additional 45 days from the date that all replacement RPMs have been installed. If, at the end of the additional 45 day period, more than 2% of all RPMs (initial installation and 45 day replacements combined) fail in adhesion or alignment, replace all failed RPMs at no expense to the Department.

706-5 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of RPMs. At the time of notification, submit the APL number and the batch or Lot numbers of RPMs and bituminous adhesive to be used.

706-6 Method of Measurement.

The quantity of RPMs to be paid for under this Section will be the quantity per each, furnished and installed, completed and accepted.

706-7 Basis of Payment.

706-7.1 Class B RPMs: Price and payment for Class B RPMs will be full compensation for all work and materials in this Section.

706-7.2 Class D RPMs: Payment will be made in accordance with Section 102.

706-7.3 Class F RPMs: Price and payment for Class F RPMs will be full compensation for all work and materials in this Section.

706-7.4 Payment Items: Payment will be made under:

Item No. 706- 1- Raised Pavement Marker - per each.