

ORINATION FORM

Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date:

Office:

Originator:

Specification Section:

Telephone:

Article/Subarticle:

email:

****Will the proposed revision require changes to:**

Publication	Yes	No	Office Staff Contacted and date contacted
Standard Plans Index			
Traffic Engineering Manual			
FDOT Design Manual			
Construction Project Administration Manual			
Basis of Estimate/Pay Items			
Structures Design Guidelines			
Approved Product List			
Materials Manual			

****This section must be completed prior to processing proposed revisions.**

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Materials Bulletin

Are all references to external publications current?

Yes

No

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs?

Yes

No

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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RON DESANTIS
GOVERNOR

KEVIN J. THIBAUT, P.E.
SECRETARY

MEMORANDUM

DATE: December 10, 2020
TO: Specification Review Distribution List
FROM: Daniel Strickland, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **7000102 HIGHWAY SIGNING**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

The changes are proposed by Dana Knox from the Roadway Traffic Engineering and Operations Office to add language for the in-street R1-6a sign to the Standard Specification.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at

<http://fdotewp1.dot.state.fl.us/programmanagement/development/industryreview.aspx> .

Comments received after **January 7, 2021**, may not be considered. Your input is encouraged.

DS/dh

Attachment

HIGHWAY SIGNING
(REV ~~11-9~~12-7-20)

SUBARTICLE 700-1.2.3 is deleted and the following substituted:

700-1.2.3 Static Sign Assembly Requirements: ~~All sign panels shall be aluminum unless otherwise shown in the Plans. See 700-7 for In-Street sign requirements.~~ Sheets and plates for sign panels shall meet the requirements of ASTM B209, Aluminum Association Alloy 6061-T6, 5154-H38 or 5052-H38. Sign panels for single column ground mounted signs shall utilize aluminum plate with a minimum thickness of 0.08 inches. All other sign panels shall utilize aluminum plate with a minimum thickness of 0.125 inches. All panels shall have rounded corners. For flip up signs, the continuous hinge shall be stainless steel ANSI grade 316.

SUBARTICLE 700-1.2.4 is deleted and the following substituted:

700-1.2.4 Retroreflective Sign Sheeting: Use signs that meet the material and process requirements of Section 994.

Use Type XI sheeting for all regulatory, warning, and overhead signs unless otherwise specified. The R1-1, R1-2, R5-1 and R5-1a signs must use a sheeting system that includes a colorless film overlay.

Type XI sheeting shall also be used for all limited access advance exit and exit guide signs.

Use Type IV fluorescent yellow-green ~~fluorescent~~ sheeting for the following signs:

1. school: S1-1, S3-1, S3-2, S4-5, S4-5a, S5-1 (SCHOOL portion),

2. bicycle: W11-1,

3. pedestrian: R1-6, R1-6a, R1-6b, R1-6c, R1-9, R1-9a, R10-15, W11-2,

4. shared use path (trail): W11-15, W11-15a,

5. supplemental panels used with signs in (1) through (4), above.

Do not mix signs having fluorescent yellow-green sheeting with signs having yellow retroreflective sheeting.

Use Type VI sheeting for Roll-up signs ~~shall meet the requirements of Type VI sheeting.~~

Use Type IV sheeting for all other signs.

Use Type IV or Type XI sheeting for retroreflective strips on signs.

SECTION 700 is expanded by the following new Article.

700-7 In-Street Signs.

700-7.1 Description: In-Street signs consist of the R1-6a or R1-6c In-Street Pedestrian Crossing Sign assemblies including the sign base.

700-7.2 Materials: The sign assembly includes the vertical panel, retroreflective sign sheeting, a rebounding boot support, and a base. The vertical sign panel is bolted to a flexible boot, which is fastened to a plastic, recycled PVC, or rubber base and secured to the pavement surface. The sign assembly shall contain no upright metal parts.

The vertical panel shall yield (bend) fully upon vehicle impact, then return to vertical position plus or minus 10 degrees with no delaminating. -The face of the vertical panel shall resist twisting and remain oriented to the installed direction after vehicle impact. The sign shall not split, crack, break, or separate from base.

700-7.2.1 Vertical Panel: Use only UV stabilized, ozone and hydrocarbon resistant outdoor-grade thermoplastic polymer, polycarbonate, recycled PVC, or HDPE materials. UV stabilization testing shall be in accordance with ASTM- (D1435).

Place retroreflective sign sheeting on both sides of the vertical panel.

The surface of the panel shall be smooth and free of defects, suitable for adherence of appropriate retroreflective sheeting.

700-7.2.2 Sign Sheeting Legend: The legend of the sign (white) shall be of the same grade of retroreflective sheeting as the body of the sign.

700-7.2.3 Base:

700-7.2.3.1 Sign Base (Fixed): The base shall be constructed with high-impact materials using ozone and hydrocarbon resistant outdoor-grade thermoplastic polymer, polycarbonate, or HDPE materials meeting the general provisions for all In-Street sign bases.

700-7.2.3.2 Sign Base (Portable): Portable base assemblies shall consist of a lightweight plastic, recycled PVC, or rubber material that may be easily moved or relocated by a single person.

700-7.2.3.3 Color: Sign bases shall be either black, or the same color as the adjacent pavement marking.

700-7.2.4 Approved Product List (APL): Use In-Street Signs listed on the APL.- Manufacturers seeking inclusion on the APL must submit the following in accordance with Section 6:

1. Product Photo
2. Product Drawings, which at a minimum includes:
 - a. Model Number
 - b. Allowable sign panel size and substrate
 - c. Dimensions of sign base and mounting heights
3. Installation Instructions
4. Crash Test Reports demonstrating MASH compliance
5. All FHWA Eligibility Letters
6. When requested, submit product sample

700-7.3 Fabrication of Panel Messages: Fabricate standard sign panel messages in accordance with the Standard Plans. Sign panels of 8" wide x 28" tall or 12" x 36" are acceptable. See Standard Plans Section 700-102.

700-7.4 Connection Method: Install a fixed base connection in accordance with the manufacturer's instructions. Install portable base connections only for temporary applications at school crossings where a crossing guard is present during school arrival and departure times or when children are present.

700-7.5 Method of Measurement: Quantities to be paid will be per each assembly.

7000201

All Jobs

700-7.6 Basis of Payment: Price and payment will be full compensation for all work and materials specified in this Section, including connection hardware.

Payment will be made under:

Item No. 700- 15 In-Street Sign, per Assembly