



Agenda

- **Roadway Design Bulletin 15-02:** Pavement Marking Materials Selection
- **Roadway Design Bulletin 15-03/ Estimates Bulletin 15-02:** Rumble Stripe
- **Specification and Design Standard Index changes related to Pavement Markings**
- **Estimates Bulletin 15-01:** Pay Item changes for Pavement Marking Materials Selection
- **CADD:** Summary Box and Tabulation Sheet documentation for Pavement Markings

Disclaimer

This webinar will highlight the changes presented in the recent Roadway and Estimates bulletins, as well as Pavement Marking related changes to the Design Standards and Specifications. It is not intended to be in-depth training on every revision.

Please, **READ THE BULLETINS** for complete details.

If project specific questions remain, contact the responsible office for further guidance.

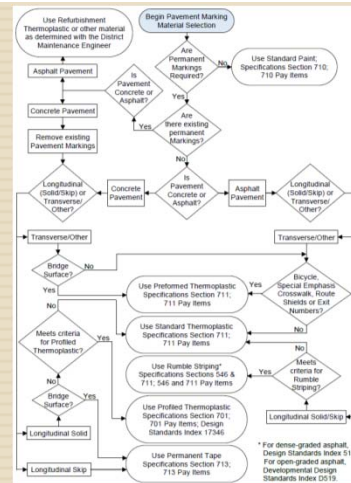
Roadway Design Bulletin 15-02 Pavement Marking Materials Selection

- Guide Based on Multi-Office Team Input and Concurrence on Material Requirements
- Clarifies Existing Policy from PPM & Standards
- Revisions: **New Policy on Profiled Thermoplastic**
Introduces New Policy on Rumble Striping
New Policy for Materials on Bridges
- **Modified Some Pavement Marking Patterns**
(i.e. Skip/Dotted and Contrast Markings)

Pavement Marking Materials Selection Flowchart

Questions:

- Temporary or Permanent
- Concrete or Asphalt
- Concrete – Pavement or Bridge
- Longitudinal (skip/solid) or Transverse
- Special Markings or Messages/Symbols/Arrows



New Policy Profiled Thermoplastic

- The material that used to be called “Audible & Vibratory Markings” is now renamed “Profiled Thermoplastic”
- Profiled Thermoplastic is the only audible & vibratory method to be used on concrete pavements
- To be used on the center lines of **ALL** two lane roadways and inside and outside edge lines of two lane and multi-lane roadways
- To be used on edge lines of concrete limited access facilities which have concrete shoulders

New Policy Concrete Bridges

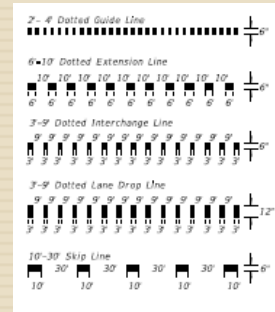
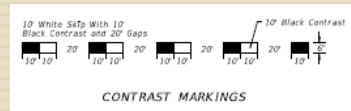
- Permanent contrast tape for white 10-30 skip lines has been expanded from bridges with lengths of 300' or greater to ALL skip lines regardless of length
- For two lane bridges center lines will also be permanent tape
- Edge lines on bridges are now required to be permanent tape due to deck vibration

Roadway Design Bulletin 15-03/ Estimates Bulletin 15-02

- Rumble Striping is created by combining the rumble strip grinding process inline with the pavement markings to create another audible & vibratory pavement marking which we call "Rumble Striping"
- Rumble Striping is the only audible & vibratory method to be used on asphalt pavements
- To be used on the center lines of ALL two lane roadways along with the inside and outside edge lines of two lane and multi-lane roadways

Design Standard Index Changes

- 17346: Special Marking Areas
 - Types of Lines- skip vs dotted
 - Contrast Markings- edge contrast eliminated



- Index 519: Rumble Striping- edge and center lines on dense graded friction courses
- Dev. Index 519: Rumble Striping- edge and center lines on open graded friction course

Estimates Bulletin 15-01

- Goes with RDB 15-02
- Pay Item Changes
 - 701
 - 709
 - 710
 - 711
 - 713
- Removal Items
- Restrictions
 - Solid or Skip, 6" etc.
 - Transverse 12", 18" and 24"
 - Messages and Symbols
- Color
- Units of Measure

Commonly used pay items have been opened. If an item is not open, please verify the application before requesting the item. Send request to Melissa.Hollis@dot.state.fl.us Remember to copy your project manager!

Estimates Bulletin 15-02

- Rumble Striping
- RDB 15-03
- Additional 546 Pay Items for center line and edge line grinding
- Thermoplastic is paid separately under 711 items
- Revision to Units of Measure from PM to GM

Specification Changes

- Section 710: Painted Pavement Markings
 - ▣ Standard- for MOT
 - ▣ Durable- for Maintenance use
- Section 701: Profiled Thermoplastic Pavement Markings
- Section 709: Two Component Pavement Markings
- Section 711: Thermoplastic Pavement Markings
 - ▣ Standard
 - ▣ Preformed Thermoplastic- for crosswalks, shields, etc.
- Section 713: Permanent Tape

Specification Changes

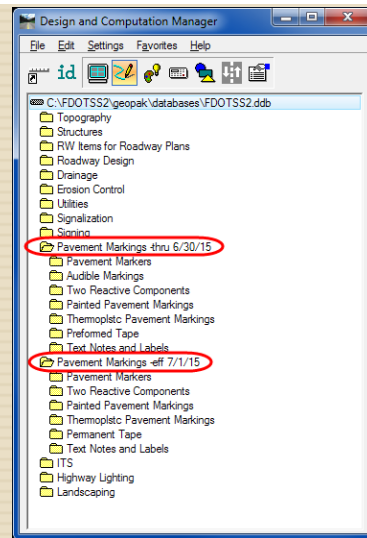
- Consistent use of “Pavement Markings”, rather than stripe, striping, lines, etc.
- Consistent Method of Measurement and Basis of Payment
 - ▣ NM gone; use GM for solid and skip/dotted lines.
 - ▣ LF changed to GM for 2'-4' dotted guide lines and 6'-10' dotted extension lines.
- Conflicting markings removed in accordance with 102-5.8 (MOT, LS)
- Non-conflicting markings removed in accordance with the material to be removed

CADD: Documentation

- Rumble Strips- Shoulder
 - ▣ Summary of Pavement
 - ▣ Station to Station locations
 - ▣ Refer to Index for Exit/Entrance ramps and bridges
 - ▣ Transport: Roadway category 0200
- Pavement Markings, including Rumble Striping
 - ▣ Tabulation Sheet
 - ▣ Totals by sheet
 - ▣ Transport: Pavement Marking category 0300

CADD: Implementation

- Pay Items have been updated per the Bulletins in the D&C Manager, Features (SS3 only) and LDM automation files.
- SS2 MR3 scheduled to release with these changes on January 28th.
- SS3 MR1 – already released – a zip file will be posted on the ECSO website with the affected files for download at the same time we post SS2 MR3.



Reviewers

- Accept minor variations to descriptions, due to old/new pay item names
- Watch for correct pay item numbers and units
- Remember to convert quantities for LF to GM units

Links

- Roadway Design Bulletins:
<http://www.dot.state.fl.us/rddesign/Bulletin/default.shtm>
- Estimates Bulletins:
<http://www.dot.state.fl.us/specificationsoffice/Estimates/EstimatesBulletins/Default.shtm>
- Design Standards eBooklet 2015:
<http://www.dot.state.fl.us/rddesign/DS/15/STDs.shtm>
- Specifications:
<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks/default.shtm>

Thank You

We appreciate your time and feedback.

Your project specific questions help use to form guidance for future projects.

To maintain statewide consistency, please coordinate with the responsible office(s) before making any district or project specific changes.

Questions?

- **CADD:** Denise Broom, Denise.Broom@dot.state.fl.us, or 850-414-4751
- **Construction:** Stefanie Maxwell, Stefanie.Maxwell@dot.state.fl.us , or 850-414-4314
- **Estimates:** Melissa Hollis, Melissa.Hollis@dot.state.fl.us, or 850-414-4 182
- **Roadway Design:** Chester Henson, Chester.Henson@dot.state.fl.us , or 850-414-4117
- **Maintenance:** Deanna Carroll, Deanna.Carroll@dot.state.fl.us, or 850-410-5634