



*Florida Department of Transportation*

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**ROADWAY DESIGN BULLETIN 16-09**

*(FHWA Approved: September 8, 2016)*

DATE: September 12, 2016

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Pavement Design Engineers, District Consultant Project Management Engineers, District Geotechnical Engineers, District Construction Engineers, District Roadway Design Engineers, District Materials Engineers, District Maintenance Engineers, Program Management Engineers

FROM: Michael Shepard, P.E., State Roadway Design Engineer

COPIES: Brian Blanchard, Phillip Gainer, Tim Lattner, Rudy Powell, Trey Tillander, David Sadler, Amy Tootle, Dan Scheer, Greg Schiess, Rafiq Darji (FHWA), Nicholas Finch (FHWA), Chad Thompson (FHWA), Kevin Burgess (FHWA)

SUBJECT: **IMPLEMENTATION – Flexible Pavement Design Manual 2016 Update**

**REQUIREMENTS**

This update implements revisions to the Flexible Pavement Design Manual (Topic #625-010-002) design guidelines as follows:

**COMMENTARY**

The summary of changes to this manual include:

**All Chapters**

- Minor grammatical and typographical edits

**Chapter 2**

- Added “Shared Use Path” to Terms, Section 2.3
- Removed reference to Standard Index 514, Section 2.1

**Chapter 5**

- Clarified designing to ½-inch for new construction
- Restructured wording in Section 5.4 for Binder Selection due to eliminating ARB and PMA nomenclature and usage references
- Corrected errors in sample problem, Section 5.5

- Updated layer coefficient, the LBR value, and the Specification Section designation for Recycled Concrete aggregate in Table 5.4
- Added Shared Use Paths to Table 5.5
- Removed references to Standard Index 514, updated Table 5.6
- Adjusted combined structural number values in Table 5.9
- Updated allowable thickness of overbuild to match specification, Section 5.6.6
- Adjusted layer thicknesses in Table 5.11

## **Chapter 6**

- Edit to widening design sample problem, Section 6.6

## **Chapter 7**

- Modified language to meet or exceed  $SN_R$  in lieu of a tolerance for not meeting  $SN_R$
- Restructured and added language to Section 7.8 to allow designing to ¼-inch increment in certain cases
- Updated allowable thickness of overbuild to match specification, Section 7.8.2
- Added guidance language for overbuild, Section 7.8.2

## **Appendix D**

- Modernized the ESAL Design sample problems

## **IMPLEMENTATION**

This change is effective on applicable projects beginning pavement design on or after September 12, 2016; however, it may be applied to projects currently underway at the discretion of district design.

## **CONTACT**

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