



Florida Department of Transportation

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DATE: December 22, 2004

TO: Registered Plans Preparation Manual Holders

FROM: Brian Blanchard, P.E. *by James A. Hill*
State Roadway Design Engineer

CC: Bob Greer, William Nickas, Jim Mills

SUBJECT: IMPLEMENTATION - PLANS PREPARATION MANUAL
JANUARY 1, 2005 UPDATES

The January 1, 2005 Updates include:

1. Revisions to Plans Preparation Manual (PPM), Volume I English, January 2003 (Topic No. 625-000-007).
2. Revisions to PPM, Volume II English, January 2003 (Topic No. 625-000-008).

The major changes in design requirements are to be implemented as follows:

Volume I, Chapter 1, Section 1.8 Access Management

SUMMARY OF CHANGE:

Section 1.8 has been updated to match the current Policy (Topic No. 625-010-021). Also, Table 1.8.4 has been deleted (since Rule 14-97 is being updated, the values in this table are of limited use).

IMPLEMENTATION:

These changes are corrections and are effective immediately.

Volume I, Chapter 1, Section 1.11 Context Sensitive Solutions in Design

SUMMARY OF CHANGE:

This section has been added to alert designers that they should consider context sensitive solutions on all projects.

IMPLEMENTATION:

This change is clarification of existing requirements and is effective immediately.

Volume I, Chapter 2, Section 2.1.6.1 Alternative Roadway Paving Treatment

SUMMARY OF CHANGE:

This section has been added to address the use of alternative paving treatments such as patterned/textured pavement and restricting the use of architectural pavers on the traveled way of the State Highway System. Corresponding changes have been made to Chapters 21.5.12 and 25.4.3.

IMPLEMENTATION:

These changes were effective on all applicable projects beginning with the July 2004 letting.

Volume I, Chapter 2, Tables 2.3.1, 2.3.2, & 2.3.4 (Shoulder Widths and Slopes...)

SUMMARY OF CHANGE:

Added footnote explaining that “N/A” does not mean that a shoulder is unnecessary; rather, shoulder is not typically present at those locations (i.e., it is not required when adjacent to the through lane).

IMPLEMENTATION:

This change is clarification of existing requirements and is effective immediately.

Volume I, Chapter 2, Table 2.5.2 Highways with Curb or Curb and Gutter in Urban Areas

SUMMARY OF CHANGE:

This table was revised to clarify the point from which the border width is measured in urban areas (face of curb or lip of gutter).

IMPLEMENTATION:

This change is clarification of existing requirements and is effective immediately.

Volume I, Chapter 2, Table 2.6.1 Maximum Grades

SUMMARY OF CHANGE:

This table was revised to update the values in the 45 mph column for Flat Terrain and add a 45mph column for Rolling Terrain. Note 3 (regarding critical lengths of upgrades) was changed from 300 to 200 lb/hp trucks.

IMPLEMENTATION:

These changes are corrections corresponding to recent changes in AASHTO and are effective immediately.

Volume I, Chapter 2, Section 2.8.2 Vertical Curves

SUMMARY OF CHANGE:

Section 2.8.2 has been revised to clarify that the K values for crest vertical curves are based on an eye height of 3.5' and an object height of 6". Corresponding note has also been added to Table 2.8.5.

IMPLEMENTATION:

This change is clarification of existing requirements and is effective immediately.

Volume I, Chapter 2, Section 2.13.3 Offset Left Turn Lanes

SUMMARY OF CHANGE:

Section 2.13.3 has been added to include considerations for improving sight distance for left turning vehicles by using offset left turn lanes. Corresponding Figures 2.13.1, 2.13.2 and 2.13.3 have also been added.

IMPLEMENTATION:

These changes are considerations that may be implemented immediately.

Volume I, Chapter 2, Table 2.14.1 Ramp Widths – Turning Roadways

SUMMARY OF CHANGE:

Note 1 has been changed to clarify that AASHTO adjustments do not apply to this table.

Also, a new Note 3 has been added to encourage increasing the ramp width to 24 ft. where accommodation of future resurfacing is a factor. A corresponding change has been made to Section 25.4.5.

IMPLEMENTATION:

This change to Note 1 is clarification of existing requirements and is effective immediately. Note 3 contains considerations that may be implemented immediately.

Volume I, Chapter 2, Section 2.16.8 Superelevation

SUMMARY OF CHANGE:

New language has been added to clarify that the superelevation rates for suburban typical sections are based on $e_{max} = 0.10$ calculations, and that the superelevation transition rates are to be commensurate with those for rural highways with 55 mph design speeds. Corresponding changes have also been made to Figure 2.16.3.

IMPLEMENTATION:

These changes are clarification of existing requirements and are effective immediately.

Volume I, Chapter 4, Section 4.5.2 Selection & Section 4.5.3 Design

SUMMARY OF CHANGE:

New language has been added to point out that various types of crash cushions and attenuation devices approved for use on Department projects can be found on the Qualified Products List (QPL), and the detail for those systems may be found in the Design Standards and approved QPL Drawings.

IMPLEMENTATION:

These changes are clarification of existing requirements (since some details may already be found in QPL drawings) and are effective immediately.

Volume I, Chapter 8, Section 8.8 Drop-Off Hazards for Pedestrians and Bicyclists

SUMMARY OF CHANGE:

A note has been added to alert designers that care should be taken when using railings or fencing near intersections as they could obstruct the driver's line of sight.

IMPLEMENTATION:

These changes are considerations that may be implemented immediately.

Volume I, Chapter 9, Section 9.3 Cost Estimate

SUMMARY OF CHANGE:

This section has been added requiring the submittal of a cost estimate (break out the cost for large and small plants) with proposed landscaping plans.

IMPLEMENTATION:

These changes are effective on all applicable projects beginning immediately.

Volume I, Chapter 10, Section 10.3 Comprehensive Work Zone Traffic Control Planning

SUMMARY OF CHANGE:

New language has been added under the topic Contract Specifications stating additional considerations for work stoppages, and that the designer should coordinate with local agencies regarding local events or other community sensitive issues.

IMPLEMENTATION:

These changes are considerations that may be implemented immediately.

Volume I, Chapter 10, Section 10.13.2 Barrier Walls (Temporary)

SUMMARY OF CHANGE:

New language has been added to clarify requirements for Portable Concrete Barriers that are used on bridges and retaining wall sections, and for transitioning Type K Barrier Wall used on bridges the Index 415 Barrier Wall on the adjoining roadway.

IMPLEMENTATION:

These changes are clarification of existing requirements and are effective immediately.

Volume I, Chapter 10, Section 10.13.5 Crash Cushions

SUMMARY OF CHANGE:

This section was updated to clarify requirements for the designer to determine the need and type of temporary crash cushions for each site specific condition. Additional guidance and requirements for when and how to use the different temporary crash cushion systems have also been provided.

IMPLEMENTATION:

These changes are clarification of existing requirements and are effective immediately.

Volume I, Chapter 10, Section 10.14.7 Lane Closure Analysis

SUMMARY OF CHANGE:

This section has been updated to identify new daytime lane closure restrictions for Florida's Turnpike, and that designers must be aware of lane closure policies other Districts may have.

This section has also been updated to provide a provision for the use of the Highway Capacity Manual (HCS2000) methodology for lane closure analysis in lieu of the PPM method.

IMPLEMENTATION:

The Turnpike [Daytime Lane Closure Procedure](#) became effective on June 10, 2004.

The Highway Capacity Manual lane closure analysis methodology may be used on all applicable projects beginning immediately.

Volume I, Chapter 13, Section 13.5.4 Projects Affecting Interstate Logo Signs

SUMMARY OF CHANGE:

This new section has been added to alert designers of new requirements for projects that may have potential impacts to Interstate Logo Signs. Corresponding changes have also been made to Section 7.2.5.

IMPLEMENTATION:

These changes are effective on all applicable projects beginning immediately.

Volume I, Chapter 20, Section 20.1 General

SUMMARY OF CHANGE:

This section has been updated with the requirement that all projects be delivered in electronic format. Additional changes have been made throughout Chapter 20 to provide guidance on electronic delivery.

IMPLEMENTATION:

This change is effective on all projects beginning with the July 2005 letting.

Volume I, Chapter 20, Section 20.4 Revisions to the Contract Plans Package

SUMMARY OF CHANGE:

This section has been updated with additional guidance for making design revisions.

IMPLEMENTATION:

These changes are clarification of existing requirements and are effective immediately.

Volume I, Chapter 20, Exhibits 20-A, 20-B and 20-C

SUMMARY OF CHANGE:

Exhibit 20-A (Transmittal of Plans, Specifications, and Estimates (PS&E) Package) has been updated to provide for the combined electronic transmittal of the PS&E Package using one transmittal.

Exhibit 20-B (Contract File Index) has been updated, and is now an integral part of the PS&E Package Transmittal.

Exhibit 20-C (Revision Memo) has been updated to provide for the electronic transmittal of Plans revisions and/or supplemental specifications.

Corresponding changes relating to the changes to the Exhibits have been made throughout Chapter 20.

IMPLEMENTATION:

These changes are effective on all projects beginning with the July 2005 letting but the forms may be used immediately on fully electronic deliveries.

Volume I, Chapter 21, Table 21.3 Horizontal Clearance to Trees

SUMMARY OF CHANGE:

This table has been updated to allow a reduced horizontal clearance in areas where the border width or median width is constrained.

IMPLEMENTATION:

This change is effective on all projects beginning immediately.

Volume I, Chapter 25, Section 25.4.5 Lane and Shoulder Widths

SUMMARY OF CHANGE:

This section has been changed to clarify that the widths in the tables are to allow existing lanes/shoulders to remain at, not for them to be reduced to those widths.

IMPLEMENTATION:

These changes are clarification of existing requirements and are effective immediately.

Volume I, Chapter 25, Section 25.4.8 Shoulder Treatment

SUMMARY OF CHANGE:

This section has been changed to provide right turn lane shoulder requirements when a bike lane is provided between the through lane and a right turn lane.

IMPLEMENTATION:

This change reflects current practice agreed upon by the District Design Engineers and is effective immediately.

Volume I, Chapter 25, Section 25.4.13 Vertical Clearance

SUMMARY OF CHANGE:

This section has been updated to include the vertical clearance criteria from Section 25.4.25.4 (which has been deleted).

IMPLEMENTATION:

These changes are clarification of existing requirements and are effective immediately.

Volume I, Chapter 25, Section 25.4.19 Pedestrian, Bicyclist and Transit Needs

SUMMARY OF CHANGE:

This section has been changed to clarify that even if new sidewalk is to be constructed, existing non-conforming driveways are not required to be upgraded to meet ADA requirements.

IMPLEMENTATION:

This change is clarification of existing requirements and is effective immediately.

Volume I, Chapter 25, Section 25.4.21 At-Grade Railroad Crossings

SUMMARY OF CHANGE:

This section has been changed to clarify that Index 560 vertical alignment criteria apply to RRR projects.

IMPLEMENTATION:

This change is clarification of existing requirements and is effective immediately.

Volume I, Chapter 26, Section 26.9.7 Alternative Designs

SUMMARY OF CHANGE:

This section has been updated to add considerations for evaluating justification for alternative designs.

IMPLEMENTATION:

These changes are based on the Structures Office Temporary Design Bulletin C04-03 and became effective March 31, 2004.

Volume I, Chapter 29, Section 29.1 General

SUMMARY OF CHANGE:

This new section has been added to include new anchor bolt requirements for sign, signal and lighting structures (50-year service life), and weld requirements for steel sign and signal structures.

IMPLEMENTATION:

These changes are based on the Structures Office Temporary Design Bulletin C03-03 and became effective June 24, 2003.

Volume I, Chapter 29, Section 29.4.1 General Requirements

SUMMARY OF CHANGE:

This section has been updated to include new requirements for the arm to pole connection on mast arm structures.

IMPLEMENTATION:

These changes are based on the Structures Office Temporary Design Bulletin C03-03 and became effective June 24, 2003.

Volume I, Chapter 30, Section 30.2.2 Retaining Walls (Proprietary Design) (Design...

SUMMARY OF CHANGE:

Item 1.f (Preapproved Standard Drawings) has been updated to identify where to find drawings and details for retaining wall systems before and after the July 2006 letting date. Corresponding language added to Section 30.2.3.

IMPLEMENTATION:

These changes are informational and are effective immediately.

Volume II, Chapter 2, Section 2.1 General

SUMMARY OF CHANGE:

This section has been changed to add “Intelligent Transportation System (ITS) Plans” as a standard component plan set. Corresponding changes were also made to Volume 2: Figure 2.1, Section 2.3.2.2, Section 3.5, and Section 3.6; and in Volume 1: Section 14.3.

IMPLEMENTATION:

These changes are effective on all applicable projects beginning immediately.

Volume II, Chapter 3, Section 3.12 Design Standards Modifications

SUMMARY OF CHANGE:

This section has been renamed from “Interim Standards” to “Design Standards Modifications”. This section has been changed to provide new requirements for the information to be shown on the Key Sheet. The applicable Interim Standards information that was being placed on the Key Sheet is being replaced by the applicable Design Standards Modifications. Corresponding changes have also been made to Exhibit KS-1.

IMPLEMENTATION:

These changes are effective on all applicable projects beginning with the July 2005 letting.

Volume II, Chapter 6, Section 6.2 Mandatory Information

SUMMARY OF CHANGE:

This section has been changed to show that pavement designs are now described in the plans by thickness rather than spread rate. Corresponding changes have also been made to Exhibits TYP-1 through TYP-15, and in Volume I, Sections 22.5 and 22.7

IMPLEMENTATION:

These changes were presented in the April 5, 2004 Basis of Estimates cover letter, and are effective on all applicable projects beginning with the January 2005 letting.

Volume II, Chapter 29 Intelligent Transportation Systems Plans

SUMMARY OF CHANGE:

This Chapter has been added to provide basic requirements for ITS Plans.

IMPLEMENTATION:

These changes are effective on all applicable projects beginning immediately.

All other changes in the January 1, 2005 Plans Preparation Manual Update Package primarily consist of minor editing, clarification and/or error corrections and are effective immediately. In addition, Chapter 2 of Volume 1 was reformatted to bring the criteria tables and figures together with their corresponding sections. This was done as a result of the 2004 PPM User Survey.

If you have any questions please contact this office, 850-414-4356, Suncom 994-4356.