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MEMORANDUM

DATE: March 3, 2017

FROM: Patrick Muench, P.E., Turnpike District Design Engineer

SUBJECT: 2017 Turnpike Plans Preparation and Practice Handbook (TPPPH)

This memorandum announces the release of the 2017 Turnpike Plans Preparation and Practice Handbook (TPPPH), which is available on the Turnpike Production Design website at the following link:

<http://floridasturnpike.com/design/tppph.html>

REQUIREMENTS:

The major changes in Turnpike design requirements and instruction on their implementation are listed below:

Volume 1, Chapter 2, Section 2.3 Shoulders

Clarification of shoulder requirements at toll gantries

Volume 1, Chapter 2, Section 2.3.4 Shoulder Rocking

Revised shoulder rocking criteria

Volume 1, Chapter 2, Section 2.19 Parallel Entrance & Exit Interchange Ramps

New parallel entrance & exit ramp requirement

Volume 1, Chapter 4, Section 4.2.6.1 New Construction Slope Criteria

Removed requirement for 1:6 slope

New requirements for slopes steeper than 1:2

Volume 1, Chapter 4, Section 4.3.2 Canal Hazards

New water body shielding requirements

Volume 1, Chapter 4, Section 4.4.1.1 Flexible Barrier

Section moved from 4.4.6.6

Volume 1, Chapter 7, Section 7.2.1 Design Criteria

Clarification of guide sign and DMS spacing requirements

Volume 1, Chapter 7, Section 7.3.1 Design Criteria

Additional compliance of General Tolling Requirements

Underdeck lighting language removed

Volume 1, Chapter 7, Section 7.3.1.1 Underdeck Lighting

New section added

Volume 1, Chapter 7, Section 7.3.1.5 Pole Design Criteria

Comments on bridge mounted light poles

Volume 1, Chapter 7, Section 7.3.5.1 Pole Cable Distribution System

Section deleted. Criteria moved to Section 7.3.1.5

Volume 1, Chapter 7, Section 7.5.4.1 Dynamic Message Sign (DMS)

System requirement update and other various updates to DMS requirements

Volume 1, Chapter 7, Section 7.5.5.1 Closed- Circuit Television Systems

Verification requirement added

Volume 1, Chapter 7, Section 7.5.9 Vehicle Detection and Data Collection

Additional MVDS requirements concerning express lanes and equipment requirement update

Volume 1, Chapter 8, Section 8.7.1 Design Criteria

Bridge fencing requirement update

Volume 1, Chapter 10, Section 10.12.7 Lane Closure Analysis

Required approval for daytime lane closures

Volume 1, Chapter 10, Section 10.12.7.1 Requesting Deviations from the Lane Closure Policy

New section added

Volume 1, Chapter 10, Section 10.12.18 Temporary Drainage

Requirement to show all temporary drainage in plans added

Volume 1, Chapter 16, Section 16.2 Design Documentation Submittals

New procedure for documents requiring Turnpike approval

Volume 1, Chapter 16, Section 16.2.3 Typical Section Package

New requirement for proposed roadway typical section drawings

Volume 1, Chapter 16, Section 16.2.3.1 FTE Processing

Removed typical section requirements for “future construction” typical sections

Volume 1, Chapter 16, Section 16.2.7.2 Cross Slope Analysis Report- Design

Added specific requirements for analyzing cross-slopes

Volume 1, Chapter 26, Section 26.9.3 Format

Content requirement for the Bridge Development Report (BDR).

Volume 1, Chapter 26, Section 26.19.1 Deck Thickness Determination

Section deleted

Volume 1, Chapter 26, Section 26.19.2 Barrier Conduits

Specific conduit quantity and size requirements added

Volume 1, Chapter 26, Section 26.19.3 Barrier Retrofit

Section deleted

Volume 1, Chapter 26, Section 26.19.4 Pier Retrofits

New section added

Volume 1, Chapter 31, Section 31.4 Geosynthetic Reinforcement Design Methodology

Section deleted

Volume 2, Chapter 1, Section 1.2.1 Format and Scale

Format and scale recommendations for RRR projects added

Volume 2, Chapter 2, Section 2.2.2 Presentation of Existing Data

Landscape project data requirements added

Volume 2, Chapter 2, Figure 2.1 Summary of Phase Submittals

Row added for Landscape Opportunity Plans

Volume 2, Chapter 2, Section 2.3.2.1 Requirements for Phase I Submittal

Landscape Opportunity Plan requirements added

Volume 2, Chapter 2, Section 2.3.2.2 Requirements for Phase II Submittal

Landscape Plan requirements added

Vegetation Disposition Plan requirements added

Volume 2, Chapter 2, Section 2.4.2.1 Requirements for Technical Proposal Submittal

Vegetation Disposition Plan requirements added

Volume 2, Chapter 2, Section 2.4.2.2 Requirements for 90% Plans Component Submittal

Vegetation Disposition Plan requirements added

Volume 2, Chapter 5, Section 5.1.2 Profile View

New section added

Volume 2, Chapter 14, Section 14.2 Required Information

Wall zone pipes labeling requirement added

Volume 2, Chapter 23 Section 23.7 Guide Sign Worksheet

Letter and word spacing requirement removed

Roadway Guide Drawings

- Removed duplication of FTE Lane Closure Policy (FTE Policy #0006) language and updated the electronic address of the FTE Lane Closure Policy from note #6 of *Maintenance of Traffic General Notes*
- Updated the electronic address of FTE U-Turn Policy (FTE Policy #0008) in note #8 of *Maintenance of Traffic General Notes*

Traffic Guide Drawings

- Sheets 105-1 through 105-6: Express Lane Sign Panel sheets renumbered
- Sheet 105-5: Local Exit signs added

General

Other changes in the 2017 Turnpike Plans Preparation and Practice Handbook consists of minor editing and updated references.

IMPLEMENTATION:

These changes are effective on projects beginning design on or after March 3, 2017 and on projects currently in the design phase where implementation will not adversely impact production schedules.