

Summary of Changes to 2024 Drainage Manual

Chapter 1 – Introduction

Section 1.4 – Added clarification on using partial duration series as well as depth and intensity from NOAA Atlas 14. Removed reference to FDOT IDF Curves that are now archived.

Section 1.5 – Added additional resilience measures already utilized in design, and additional reference documents.

Section 1.7 – Removed reference to FDOT IDF Curves.

Chapter 2 – Open Channel

Table 2.5 – “Geotextile Grid” updated to “Geogrid” to follow FDOT Specifications changes.

Chapter 3 – Storm Drain Hydrology and Hydraulics

Section 3.3 – General Design storm frequency updated to require 5-year storm (from NOAA Atlas 14) instead of 3-year from historical FDOT IDF Curves. Maintains same general level of design as provided using the FDOT IDF Curves.

Section 3.4 – Changed “Tidal Bays” to “Tidal Waterbody” for consistency within the document.

Section 3.6.2 – Added language to clarify major losses within storm systems, rearranged paragraph order. Separated closed systems from mixed systems.

Section 3.9.1 – Added classification to Table 3.5 for LA R/W facilities. Added note to Table 3.5 to use work zone speed for temporary conditions. Adjusted language for temporary drainage.

Section 3.13.2 – Moved pipe inspection and siltation report to top of the list. Added requirements to include correspondence for documentation.

Chapter 4 – Cross Drain Hydraulics

Section 4.8.1.1 – Added SRH-2D to the list of acceptable modeling software for riverine crossings.

Section 4.9.2.2 – Added clarification that scour estimates are for temporary and permanent installations.

Section 4.9.3.2.1 – Updated “filter fabric” to “geotextile” to match changes to Specifications.

Section 4.9.3.3 – Added language to clarify that scour countermeasures for new construction should be for the abutments only. The pier foundations must be designed to withstand design scour.

Section 4.9.3.4 – Updated “filter fabric” to “geotextile” to match changes to Specifications.

Chapter 5 – Stormwater Management

Section 5.2.2– Added HB599 information for regional stormwater treatment.

Section 5.2.5– Updated title to include FAC language for WNAS exception of the Study list. Added language for OFW, Impaired waters, and WNAS.

Section 5.4.1.1– Relocated considerations for the use of pond liners from the Drainage Design Guide for greater awareness. Clarified Base Clearance Water Elevation language.

Section 5.4.1.4.4 – Added reference to Appendix B for flood rights coordination.

Section 5.4.2– Added clarification on use of unit hydrographs.

Section 5.4.4.2– Clarified proposed borrow excavation sites to support Figure 5.1

Section 5.5– Updated to reflect regional stormwater options alternative, added PSR acronym, and expanded list of required items in a PSR to match PD&E criteria.

Chapter 6 – Optional Culvert Materials

Section 6.2– Added language for consideration of saltwater intrusion for durability analysis.