



Florida Department of Transportation

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ANANTH PRASAD
SECRETARY

MEMORANDUM

DATE: February 29, 2012
TO: Holders of the FDOT Drainage Manual
FROM: Mark Scott, P.E.
COPY:
SUBJECT: FDOT Drainage Manual – 2012

The Drainage Manual has been revised for 2012 and has been posted on the FDOT web site. A list of revisions and details of the revisions follow. These revisions should be implemented on all design projects when possible without impacting production schedules.

Table of Contents – Updated to reflect the revisions shown below.

Entire Document – Update Hyperlinks

Chapter 1 – Introduction

Section 1.7 – Revisions shown by revision date in header only (vertical bars in margin removed).

Chapter 3 – “Storm Drain Hydrology and Hydraulics”

Section 3.11 – New section added, “3.11 Additional Design Considerations”

Chapter 4 – “Cross Drain Hydraulics”

Section 4.3 – Divided Section 4.3 into two new subsections “4.3.1 Permanent Facilities” and “4.3.2 Temporary Facilities”

- Section 4.3.1 – Changed ADT to AADT and deleted the Temporary Detour rows from the frequency table.
- Section 4.3.2 – Based the Temporary Facility’s design on the detour’s length of time utilized.

Sections 4.6.1, 4.6.2, & 4.6.3 – Moved the clearance requirements to the PPM Volume 1, Section 2.10 but referenced the PPM in section 4.6.

Section 4.7.2 – Added “Alternatively, a steady discharge equal to the peak flow from a 10-year storm may be used in lieu of the above ACOE procedure.”

Section 4.9.2.2 – Replaced the numbered scour estimate conditions with a table using modified HEC-18

information.

Section 4.9.4.2 – Added restrictions for scupper discharge locations.

Section 4.10.4.1 – Added a sentence to the * note.

Section 4.10.4.1 – Added the ** note to the median drain culvert type.

Section 4.11.2.3 – Deleted item number 9 under item number 2.

Chapter 5 – Storm Water Management

Section 5.3.1.3 – Detention/retention system sizing based on critical duration specified in Rule 14-86 FAC.

Section 5.3.4.2 – Revised the pond “Freeboard” design feature.

Chapter 6 – “Optional Culvert Materials”

Section 6.2.1 – Added Polypropylene (50-year) to the materials list.

Section 6.5 – Removed aluminum pipes and added reinforced and F949 PVC pipes to vertical drains in the “Materials to be Considered” table.

Table 6-1 – “Culvert Material Applications and Design Service Life”

- Added a Vertical Drain column.
- Added rows polypropylene and fiberglass pipe
- Changed ADT to AADT in Note number 2.
- Added Note 10 – Resilient connections required for all vertical pipes.

Appendix C – “Drainage Law”

C.2 – Deleted the “cienega” reference under the “Swamps” definition.

C.5.5 – Deleted “and evaluatory” from the first sentence of the second paragraph regarding criteria overlap.