



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
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DESIGN DIVISION DRAINAGE MANUAL
REVISION 16-01

TO: TDOT Roadway Design Division Drainage Manual Users

FROM: Ali R. Hangul, PE
C.E. Manager 1
Roadway Design Division
Office of Standards and Policy

DATE: June 15, 2016

SUBJECT: Revision to the Drainage Manual

Chapter 6

Table 6A-1 was revised to add Polypropylene Pipe (PP) as an alternate to High-density Polyethylene Pipe (HDPE) for all cases where HDPE is applicable and to increase the maximum diameter PP to 60".

ARH:VLN



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DESIGN DIVISION DRAINAGE MANUAL
REVISION 14-01

TO: TDOT Roadway Design Division Drainage Manual Users

FROM: Ali R. Hangul, PE
C.E. Manager 1
Roadway Design Division
Office of Standards and Policy

DATE: January 29, 2014

SUBJECT: Revision to the Drainage Manual

Chapter 6

Table 6A-1 was revised to add Polypropylene Pipe.

Tables 6A-3 through 6A-5 were updated to reflect the changes made to Table 6A-1

ARH:MWC



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**DESIGN DIVISION DRAINAGE MANUAL
REVISION 13-02**

TO: TDOT Roadway Design Division Drainage Manual Users

FROM: Ali R. Hangul, PE
C.E. Manager 1
Roadway Design Division
Office of Standards and Policy

DATE: September 13, 2013

SUBJECT: Revision to the Drainage Manual

Chapter 6

Tables 6A-2, 6A-3, 6A-4, 6A-5 were revised to remove concrete and steel quantities to match revisions done to the drawings D-PE-18A through D-PE-48A and the D-SEW drawings. These walls will now be paid on a per each basis.

Chapter 7

Section 7.03.5.4 was revised to include spring drain boxes.
Sections 7.03.5.4.1 and 7.03.5.4.2 was added
Table 7-7 in section 7.03.5.4.2 was added and subsequent tables were renumbered

Chapter 10

Section 10.05.3.4 was revised to add average slope of the drainage area at the outfall to the data required to show on the EPSC Plans.

ARH:MWC



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DESIGN DIVISION DRAINAGE MANUAL
REVISION 13-01

TO: TDOT Design Division Drainage Manual Users

FROM: Ali R. Hangul, PE
C.E. Manager 1
Design Standards and Guidelines Office

DATE: May 28, 2013

SUBJECT: Revision to the Drainage Manual

Chapter 6

Section 6.05.3 – Revised Figure 6-11 to more clearly show location of overtopping.

Table 6A-1 – Add HDPE Pipe to Longitudinal storm drains up to 16 feet of fill for Arterial and Collectors, removed SRTRP from Arterials.

Figure 6A-3: Removed SRTRP from option list

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**DESIGN DIVISION DRAINAGE MANUAL
REVISION 12-01**

TO: TDOT Design Division Drainage Manual Users

FROM: Ali R. Hangul, PE
C.E. Manager 1
Design Standards and Guidelines Office

DATE: August 21, 2012

SUBJECT: Revision to the Drainage Manual to Comply with the 2012 Construction General Permit

Chapter 1

Chapter 1 – Added reference to Chapter 11 in chapter Introduction
Chapter 1 – Miscellaneous minor edits and formatting revisions
Section 1.05 – Revised and updated Design Guidelines reference to 2012

Chapter 2

Chapter 2 – Miscellaneous minor edits and formatting revisions to Chapter 2 & Appendix
Section 2.01.1 – Minor edit to last sentence
Section 2.01.2 – Minor edit to first paragraph
Section 2.02.2.2 – Minor edit to Item Number 2, first sentence
Section 2.02.2.4.1 – Minor edit to last paragraph of section
Section 2.02.2.7.1 – Corrected section title spelling
Section 2.02.3.4 – Corrected misspelled word in first paragraph
Section 2.03 – Added entire second paragraph to this section
Section 2.04.1 – Revised and updated Design Guidelines reference to 2012

Chapter 3

Chapter 3 – Miscellaneous minor edits and formatting revisions to Chapter 3
Section 3.06.1.3 – Miscellaneous minor edits to first paragraph
Section 3.06.1.5 – Miscellaneous minor formatting edits
Section 3.06.3.3 – Miscellaneous minor edits to first paragraph. Added Chapter 11 reference
Section 3.06.3.4 – Minor updates and revisions to first paragraph
Section 3.06.3.8 – Added items 8 and 9 to list
Section 3.07.2 – Revised and updated Design Guidelines reference to 2012

Chapter 6

Chapter 6 – Miscellaneous minor edits and formatting revisions to Chapter 6
Chapter 6 Table of Contents – Revised titles for Sections 6.04.3.1, 2, 3 & 5
Chapter 6 Table of Contents – Updated page numbers for Section 6.03.3 & 6.05.2.2.1
Section 6.04.3.1.1 – Revised Section title & updated section for new endwall Standards
Section 6.04.3.1.2 – Revised Section title & updated section for new endwall Standards
Section 6.04.3.1.3 – Revised Section title & updated section for new endwall Standards
Section 6.04.3.1.5 – Revised Section title & updated section for new endwall Standards

Section 6.07.1 – Revised Table 6A-1: Revised fill heights, updated and modified various notes, added SRTRP to table

Section 6.07.1 – Revised Table 6A-2, Table 6A-3, Table 6A-4, Table 6A-5 for new endwall Standards

Section 6.07.4 – Revised and updated Design Guidelines reference to 2012

Section 6.07.5 – Added SRTRP, Steel Reinforced Thermoplastic Ribbed Pipe to Abbreviations

Chapter 7

Chapter 7 – Miscellaneous minor edits and formatting revisions to Chapter 7

Chapter 7 Table of Contents – Revised titles for Sections 7.04.6, 7.04.6.2.2, & 7.04.6.2.3

Chapter 7 Table of Contents – Updated page numbers for Section 7.03.3 & 7.03.5.7 to 7.05.2

Section 7.04.1.1 – Minor revision to TDOT terminology in paragraph 5

Section 7.04.5.1 – Added n-value for SRTRP to Table 7-9

Section 7.04.6.2.1 – Changed figure reference in Step 2 from 7A-12 to 7A-10.

Section 7.06.4 – Revised and updated Design Guidelines reference to 2012

Chapter 10

Chapter 10 – Miscellaneous minor edits and formatting revisions to chapter

Chapter 10 Table of Contents – Revised titles for Section 10.04.6

Chapter 10 Table of Contents – Revised Section 10.05.2.1 title, added new Section 10.05.2.2 and 10.06.2.2, other miscellaneous minor revisions, updated most page numbers,

Section 10.04.6.2 – Terminology revision. Changed ROW to disturbed acreage.

Section 10.05.3.4 – Replaced Figures 10-11 and 10-12 with updated versions. Removed reference to stream being an classed as an outfall

Section 10.06 – Updated terminology regarding phase and stage

Section 10.08.1 – Updated terminology regarding phase and stage

Section 10.08.2 – Updated terminology regarding phase and stage

Section 10.08.3 – Minor edit to 2nd paragraph

Section 10.08.3.1.3 – Added second paragraph to section

Section 10.08.3.2.4 – Minor terminology edit in first paragraph

Section 10.08.3.3.4 – Edits to design criteria in 3rd paragraph

Section 10.08.3.3.5 – Minor terminology edits in 2nd paragraph and Step 2

Section 10.08.3.4 – Miscellaneous minor edits to section

Section 10.09.3 – Updated terminology regarding phase and stage

Section 10.02 – Minor edits to paragraph 1 and 2

Section 10.03.1 – Minor edits to paragraph 3 and 4

Section 10.03.1.1 – Minor edits to paragraph 1

Section 10.03.3.1 – Minor edits to paragraph 2

Section 10.03.4.3 – Minor edits to paragraph 2

Section 10.03.6 – Minor edits to paragraph 1

Section 10.04.2.3 – Added 2nd paragraph

Section 10.04.4.2 – Added paragraph 4

Section 10.04.4.3 – Edits to paragraph 2

Section 10.04.5 – Edits to paragraph 3

Section 10.04.6.2 – Edits to paragraph 1 and 2

Section 10.05.1 – Edits to paragraph 2

Section 10.05.1.1 – Edits to paragraph 1 and 2

Section 10.05.1.3 – Edits to paragraph 1

Section 10.05.2 – Additional paragraph added to item 3 and edits to item 5

Section 10.05.2.1 – Added entire section

Section 10.05.2.2 – Added entire section

Section 10.05.03 – Edits to paragraph 1

Section 10.05.3.2 – Edits to paragraph 2 and 4

Section 10.05.3.4 – Edits to entire section

Section 10.06 – Edits to entire section

Section 10.06.1 – Edits to paragraph 1

Section 10.06.2 – Added paragraphs throughout section

Section 10.06.2.1 – Edits to paragraph 1 and 2

Section 10.06.2.2 – Added entire section

Section 10.06.2.3 – Edits to paragraph 1 and 3, added paragraph 2

Section 10.06.2.4 – Edits to paragraph 2
Section 10.07 – Edits to paragraph 1
Section 10.08 – Edits to paragraph 2
Section 10.08.1.1.2 – Minor edits to paragraph 1
Section 10.08.1.1.4 – Minor edits to paragraph 2, 8, and 9 and bullet in last paragraph
Section 10.08.1.1.5 – Added sentence to last paragraph
Section 10.08.1.2.3 – Edits to paragraph 1 and 2
Section 10.08.1.2.4 – Minor edits to paragraph 4
Section 10.08.1.2.5 – Added sentence to Step 3
Section 10.08.1.3.1 – Edits to both paragraphs
Section 10.08.1.3.2 – Edits and added paragraph
Section 10.08.1.3.4 – Minor edits to paragraph 3 and 6
Section 10.08.1.4.3 – Edits to paragraph 2
Section 10.08.1.4.4 – Minor edits to paragraph 4
Section 10.08.1.5.3 – Added sentence to make paragraph 2
Section 10.08.1.5.4 – Minor edits to paragraph 2
Section 10.08.1.6.2 – Edits to paragraph 1 and added paragraph 4
Section 10.08.1.6.4 – Minor edits to paragraph 4 and 5
Section 10.08.1.7.2 – Added paragraph 3
Section 10.08.1.8.4 – Minor edits to paragraph 1
Section 10.08.1.9.1 – Minor edits to paragraph 1
Section 10.08.1.9.4 – Edits to paragraph 2,3,5,8, and 9
Section 10.08.1.10.4 – Edits to paragraph 1,2,5,8,12, and 14
Section 10.08.1.11.2 – Edits to paragraph 1
Section 10.08.1.11.3 – Added paragraph 2
Section 10.08.1.11.4 – Added information to paragraph 2, edits to paragraph 7
Section 10.08.1.12.2 – Edits to paragraph 1 and 2
Section 10.08.1.12.3 – Added sentence to make paragraph 2
Section 10.08.1.12.4 – Minor edits to items E and F and paragraph 7
Section 10.08.1.12.5 – Minor edits to paragraphs 1 and 8
Section 10.08.1.14.1 – Minor edits to paragraphs 1 and 2
Section 10.08.1.14.2 – Minor edits to paragraph 2
Section 10.08.1.14.3 – Added first sentence and edits to paragraph 3
Section 10.08.1.14.4 – Edits to paragraph 1, 3, and 12
Section 10.08.1.14.5 – Edits to paragraph 1, and 4
Section 10.08.1.16.2 – Added information to paragraph 1
Section 10.08.1.18.4 – Minor edits to paragraph 1
Section 10.08.1.18.5 – Minor edits to paragraph 1
Section 10.08.2 – Minor edits to paragraph 2
Section 10.08.2.1.3 – Added paragraph 2
Section 10.08.2.1.4 – Additional info added to paragraph 11
Section 10.08.2.2 – Added caption
Section 10.08.2.2.3 – Added info to paragraph 1 and 3
Section 10.08.2.2.4 – Added paragraph 9
Section 10.08.2.3.4 – Edits to paragraphs 2, 3, and 4
Section 10.08.2.4.1 – Minor edits to paragraph 1
Section 10.08.2.4.4 – Minor edits to paragraphs 4, 5, and 6
Section 10.08.2.4.5 – Minor edits to paragraph 2
Section 10.08.2.6.2 – Minor edits to paragraph 2
Section 10.08.2.6.3 – Edits to paragraph 1
Section 10.08.2.6.4 – Edits to paragraphs 2, 3, 10, and 12
Section 10.08.2.6.5 – Added sentence to Step 3
Section 10.08.2.7.3 – Minor edits to paragraph 1
Section 10.08.2.8.2 – Minor edits to paragraph 2
Section 10.08.2.8.4 – Minor edits to paragraph 15
Section 10.08.2.8.5 – Added sentence to end of section
Section 10.08.2.9.4 – Minor edits to paragraph 3 and 8
Section 10.08.2.9.5 – Added sentence to end of section
Section 10.08.2.10.3 – Edits to paragraphs 1 and 2
Section 10.08.2.10.5 – Added sentence to end of section
Section 10.08.2.11.1 – Minor edits to paragraph

Section 10.08.2.11.4 – Added information to paragraph 2
Section 10.08.2.11.5 – Minor edits to paragraph 1 and added sentence to end of section
Section 10.08.2.12 – Re-worked and reorganized significant portion of entire section for new NPDES requirements including new requirement for floating outlet structure.
Section 10.08.2.13.5 – Added sentence to Step 2
Section 10.08.2.14.1 – Minor edits to paragraph 1
Section 10.08.2.14.4 – Minor edits to paragraph 6
Section 10.08.2.14.5 – Added sentence to Step 3
Section 10.08.2.15.4 – Miscellaneous edits throughout section
Section 10.08.2.17.4 – Miscellaneous edits throughout section
Section 10.08.2.17.5 – Miscellaneous edits throughout section
Section 10.08.2.18.5 0 Minor edits in paragraph 1
Section 10.09.1.1 Appendix – Minor edits in Figure 10A-3 Sediment Control Measures table
Section 10.09.3 Appendix – Added items and miscellaneous edits throughout Glossary
Section 10.09.4 Appendix – Added items to References
Section 10.09.5 Appendix – Added items to Abbreviations

Chapter 11

Chapter 11 Table of Contents – Updated page numbers for Section 11.08.1.4 thru 11.08.1.8
Section 11.04.1.2 – Minor terminology change in last section
Section 11.06.2.3 – Minor terminology changes to paragraph 2, on page 11-81
Section 11.08.1.7.4 – Revised dimension locations in Figure 11HC-12
Section 11.08.2.7.4 – Minor edits to first paragraph
Section 11.09.3 Appendix – Added Exceptional Tennessee Waters to Glossary

ARH:mwc