

**Michigan Department of Transportation
Drainage Manual**

Revised January 2004

LIST OF REVISIONS

1. Drainage Manual cover sheet
 - Date changed to January 2004
 - Added: NOTE: The most current version of this manual can be found at: www.michigan.gov/stormwater
2. All chapter cover sheets
 - Date changed to January 2004
 - NOTE revised to: All questions and comments should be directed to the Drainage Specialist, Design Support Area.
3. Table of Contents
 - Changed revised date to January 2004
 - Page TOC-4: Section 5.5.3, changed heading to: Lining Culverts
4. Page 2-6, Sec. 2.2.1
 - Following title, added “updated January 2004”
 - End of first paragraph, added sentence.
5. Page 2-40, Sec. 2.9.11.3, added “updated” note
6. Page 2-41 – Fourth bullet; changed second item listed
7. Appendix 2-D, added “updated” note to cover sheet
8. Page 2-D-3
 - Following heading “Attachments,” added “updated” note
 - Corrected page numbers for Attachments B through E
9. Page 2-D-44, added note to Attachment A cover sheet
10. Page 2-D-45, deleted contract list and replaced with website
11. Page 2-D-61, added “updated” note following the title and corrected page numbers
12. Page 3-5, Sec. 3.2, following heading title, added “updated” note
13. Page 3-7, Following Time of Concentration, added , T_c
14. Appendix 3-C cover sheet, added “updated” note
15. Page 3-C-2, title sheet added document note
16. Page 5-2, table of contents, corrected page numbers for Sec. 5.3.5.2 and 5.3.5.3
17. Page 5-3, Sec. 5.5.3, changed heading to “Lining Culverts”
18. Page 5-13, Sec. 5.3.4, following heading, added “updated” note

19. Page 5-15, under heading Hydraulic Analysis Requirements, 2nd paragraph, near end of last sentence, changed word “subbase” to “edge of shoulder”
20. Page 5-22
 - Sec. 5.3.5.2, following heading, added “updated” note
 - Fourth bullet, change footing minimum to 18 inches
 - Following section Concrete Slab (3-sided) Culverts and before Headwalls and Wingwalls, add new section and paragraph (Precast Concrete Box Culverts)
21. Page 5-23, moved “General Note” from pg. 5-24 back to 5-23
22. Page 5-60, Sec. 5.5.3, changed heading to “Lining Culverts;” added “update” note
23. Page 5-B-1, Appendix cover sheet, added “updated” note
24. Page 5-B-2
 - Removed asterisk from table title and also from Note 1 at bottom of page
 - Added new column, “MDOT Design Value”
25. Page 6-3, under Appendices, following 6-D title, added “updated” note
26. Page 6-D-1, below title added “updated” note and “Appendix entirely replaced”
27. Page 6-42, following Pier Scour, added “updated” note
 - In equation, changed $y_s = 3.9$ (from 4.0)
28. Page 6-44, following Pier Scour, added “updated” note
 - In equation, changed $y_1 = 7.65$ (from 5.33)
29. Page 7-61, Sec. 7.4.8.1, following heading, added “updated” note
30. Page 7-63, following first paragraph of Storm Sewer Soil Borings, added sentence
31. Page 7-68, added period after sec. in gravity definition
32. Page 7-74, added parenthesis to equation 7.30
33. Page 7-78, second to last column of table, corrected work “Length’
34. Page 8-8, Sec. 8.3.2, following heading, added “updated” note
35. Page 8-9, beginning of 2nd paragraph, changed “engineer” to “project manager”
36. Page 8-12, last column of table, second to last bullet, corrected spelling, MDOT
37. Page 8-38, Figure 8-12 replaced
38. Page 8-42, Figure 8-15 replaced