

List of Revisions to USDCM Volume 1 and 2

The following lists revisions made following the January 2016 update:

1. Chapter 9 (Hydraulic Structures), November 2016. Corrected equations for curves shown (Figure 9-1, page EDB-5)
2. Chapter 5 (Rainfall), March 2017. Made changes throughout this chapter as UDFCD adopted NOAA Atlas 14 and used values from this publication in a CUHP recalibration effort.
3. Chapter 6 (Runoff), March 2017. Changes reflect the adoption of NOAA Atlas 14 precipitation values and recalibration of CUHP. This includes revisions to runoff coefficients and the urban check equation for time of concentration (Equation 6-5). These items were revised to achieve better consistency between the rational method and CUHP (both peak flows and volume)
4. Chapter 12 (Storage), March 2017 changes:
 - a. Revised Figure 12-19 and text in Section 5.6 (Trash Racks and Debris Blockage) to match UDFCD practice related to assumptions regarding open area and debris blockage.
 - b. Chapter 12 (Storage), Figure 12-20 was replaced and mislabeled equations were corrected.
 - c. Modified the simplified equation for the 100-year detention volume (Equation 12-4) per the revised *Estimation of Runoff and Storage Volumes for Use with Full Spectrum Detention* technical memorandum dated January 5, 2017.
 - d. Removed references to UD-FSD as UDFCD has retired this workbook and replaced it with UD-Detention.
 - e. Clarified a preference for open channel emergency spillways.
5. Chapter 9 (Hydraulic Structures), September 2017. Changes eliminate use of grouted 18-inch boulders due to UDFCD observed problems in installation and stress the importance of proper installation of (including trimming) of joint restraints for pipe outfalls.
6. Chapter 12 (Storage), September 2017. Added references for riprap embankment protection. Updated tables 12 – 6, 12 – 7, and 12 – 8. These tables provide coefficients for pre-developed peak unit flowrates based on soil group and were revised as part of the technical memorandum entitled UDFCD Predeveloped Peak Unit Flowrates, dated December 21, 2016.
7. Chapter 6 (Runoff), August 2018. Corrected Table 6-4, *Runoff coefficient equations based on NRCS soil group and storm return period*. The correction was limited to the equation for the 25 year storm return period for Type A soils.