

**PROPOSED REVISION TO THE 2016 COLUMBIA COUNTY SUPPLEMENT TO THE  
GEORGIA STORMWATER MANAGEMENT MANUAL (GSMM)**

The Columbia County Supplement to the GSMM is being revised to incorporate the changes made in the overhaul of the GSMM this year. Per our MS4 permit, Columbia County is required to implement the new changes by January 1, 2017. It is our intent to introduce the new Supplement effective July, 2016 to allow an opportunity to make any revisions prior to the State mandated 2017 deadline. Georgia EPD will updated and reissue the MS4 December 31, 2017.

The intent of this summary is to give a brief description of changes to the Supplement.

**CHAPTER 1: PURPOSE AND APPLICABILITY**

- References to chapter numbers in the GSMM were updated to match 2016 version.
- Wording in 1.1.1 revised to match verbiage in MS4 permit.

**CHAPTER 2: STORMWATER MANAGEMENT PLANNING, DESIGN, & IMPLEMENTATION**

- Chapter added to Supplement to correspond to new chapter in GSMM.
- New requirements added to development plans include Natural Resources Inventory. Also introduced were the Better Site Design requirements which may or may not be mandated by the State in upcoming MS4 update.

**CHAPTER 3: STORMWATER HYDROLOGY**

- References to chapter numbers in the GSMM were updated to match 2016 version.

**CHAPTER 4: STORMWATER MANAGEMENT PRACTICES**

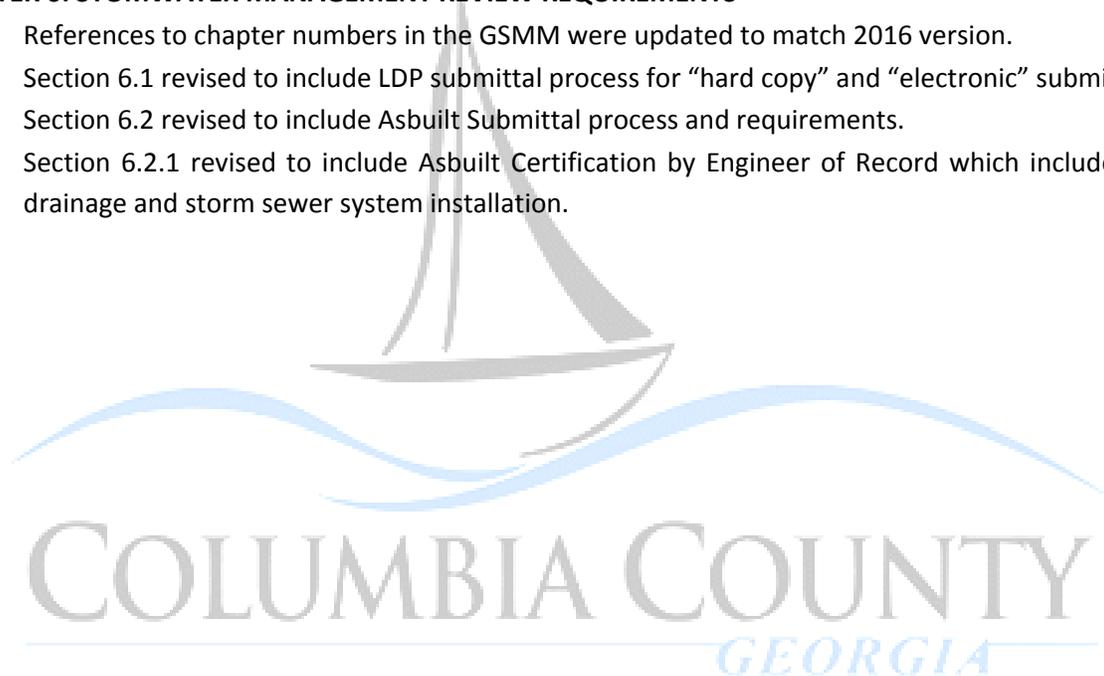
- References to chapter numbers in the GSMM were updated to match 2016 version.
- Table 4-1 replaced to introduce "Runoff Reduction" which may or may not be mandated by the upcoming MS4 update.
- Section 4.1 revised to include requirements for positive drainage of dry detention facilities.
- References to "design engineer" were replaced with "Engineer of Record" throughout Supplement.
- "Section 4.4 Stormwater BMP Specifications" replaces original section to match GSMM and Table 4.1.1.1 added to include all new BMP's in the 2016 version.
- Revised "Section 4.5.2 Stormwater Management Facility Fencing" to allow for fencing alternatives for privately owned facilities.
- Revised "Section 4.5.4 State Waters Regulated by the Georgia EPD" to removed reference to sediment storage not being allowed in ephemeral streams.
- Added "Section 4.5.5 Earthen Berms and Embankments" to reference added information in Columbia County Specification 18.0.
- Added "Section 4.5.6 Dedication of Stormwater Management Facilities" for clarification of what types of facilities can be dedicated to the Utility and when the deed can be accepted.

## **CHAPTER 5: STORMWATER DRAINAGE SYSTEM DESIGN**

- References to chapter numbers in the GSMM were updated to match 2016 version.
- Specification references changed from GDOT to Columbia County to coordinate with revised specifications.
- Section 5.1.3.3 clarifies when headwalls and energy dissipation are required.
- Section 5.1.3.6 clarifies minimum easement width of 20 feet.
- Pipe specifications removed and reference to Columbia County Specification 16.0 added.
- Asbuilt Certification removed from Chapter 5 and placed in Chapter 6.
- Section 5.4.8 revised to include new ordinance permitting requirements.

## **CHAPTER 6: STORMWATER MANAGEMENT REVIEW REQUIREMENTS**

- References to chapter numbers in the GSMM were updated to match 2016 version.
- Section 6.1 revised to include LDP submittal process for “hard copy” and “electronic” submittals.
- Section 6.2 revised to include Asbuilt Submittal process and requirements.
- Section 6.2.1 revised to include Asbuilt Certification by Engineer of Record which includes lot drainage and storm sewer system installation.



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**PROPOSED 2016 REVISION TO THE COLUMBIA COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS**

The Columbia County Construction Standards and Specifications is being revised to include revisions made in the Supplement and the addition of new construction materials approved by Columbia County.

**SECTION 16: CONSTRUCTION OF STORM DRAIN PIPE SYSTEMS**

- Replaced references of “County Engineer” to “County Personnel”.
- Added Pipe Specifications, Backfill requirements, and Jointing requirements for High Density Polyethylene (HDPE) Pipe and High Performance Polypropylene (HPP) Pipe.
- Added section 16.5.2 to include weep hole material.
- Added sections 16.4.2.C to include additional trenching requirements.
- Added soil classifications for backfill in section 16.4.4 for different pipe materials.
- Revised section 16.6.3 to clarify that field tests must be verified by County Personnel prior to acceptance.

**SECTION 17: CONSTRUCTION OF OPEN DRAINAGE SYSTEMS**

- Replaced references of “County Engineer” to “County Personnel”.

**SECTION 18: CONSTRUCTION OF STORM DRAINAGE STRUCTURES AND FACILITIES**

- Replaced references of “County Engineer” to “County Personnel”.
- Added sections 18.3.2, 18.3.4, 18.3.5, and 18.3.6 to include geotechnical and drain pipe requirements for earthen dam, berms, and/or embankments for stormwater management facilities.
- Revised section 18.4.5 to require poured inverts.
- Added 18.4.6 specifying weep hole construction requirements.

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