Hillsborough County Florida

ENGINEERING & OPERATIONS
PO Box 1110, Tampa, FL 33601-1110
813-635-5400 | Fax: (813) 272-5811

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STORMWATER MANAGEMENT TECHNICAL MANUAL BULLETIN 25-03

DATE: March 14, 2025

TO: County Director of Engineering & Operations Department,
County Director of Capital Programs Department,
County Manager of Construction Services,
County Director of Transportation Maintenance Division,
County Project Managers, and Project Engineers of Record

FROM: County Engineer,
County Director of Technical Services Division

COPIES: County Director of Performance Data and Analytics Department

SUBJECT: **SIDE DRAIN REQUIREMENTS**

This bulletin announces the Hillsborough County's side drain requirements within the County's right-of-way.

REQUIREMENTS

Any side drain at a driveway, existing or proposed, in Hillsborough County within the right-of-way must consider the following:

- Side drains must be designed in accordance with the Hillsborough County Stormwater Management Technical Manual (SMTM).
- Minimum pipe cover standards are presented in the SMTM, Section 8.2.12. Achieve an absolute minimum cover thickness of 4" of "base material" over side drain pipes when the minimum cover identified in the SMTM, Section 8.2.12 cannot be achieved.
- Minimum standard side drainpipe size is 18" round Reinforced Concrete Pipe (RCP), or equivalent 14" x 23" Elliptical Reinforced Concrete Pipe (ERCP) for shallow systems with minimal cover.
- Side drainpipes must be sized to meet the flow conditions of the side drain system. Should there be a variation in the driveway pipe sizes along the roadway, please contact Hillsborough County's Technical Service Division's Stormwater Engineering Services at PW-Stormwater for assistance in determining required pipe size.
- Installation or replacement of side drainpipes larger than 18" pipe must equal existing pipe size of the side drain system while also meeting the required cover requirements. Equivalent ERCP's are allowed to meet shallow conditions with a minimum cover thickness of 4" of "base material" over side drainpipe.

- Replace all side drainpipes made of plastic type materials and damaged metal pipes with round RCP or ERCP and concrete Mitered End Sections (MES).
- Pipes and Mitered End Sections replaced at driveways will require a 5' wide shoulder to be constructed adjacent to each side of the driveway. The MES must not encroach on the shoulder. Refer to Florida Department of Transportation Standard Plans, Index 330-001 for shoulder requirements.
- Existing 12" and 15" pipes that require extension to meet shoulder requirements must be replaced with minimum 18" RCP or equivalent ERCP or sized to meet the flow conditions of the side drain system if 18" RCP or equivalent ERCP is inadequate. When it is not possible to meet the clearance requirements by employing ERCP and elevating the driveway apron cannot be done, please contact Hillsborough County's Technical Service Division's Stormwater Engineering Services at PW-Stormwater for clarification.
- MES must be used as pipe end treatments when the pipe is in the clear zone. If there is an existing end wall in the clear zone it must be removed and replaced with a MES. Some site conditions may not allow for the installation of an MES within the clear zone and may require system reconfiguration.
- Where new side drains or end treatments are installed, or a system is reconfigured with different new drainage structures, notify Hillsborough County GIS office of drainage system change providing the upstream and downstream pipe inverts conforming to the minimum flow rate identified in the SMTM, Section 8.2.7. Where these assets are included in as-built submittals or Right-of-Way Use Permits no additional steps are required.

BACKGROUND

The side drains have specific requirements that will need to be incorporated within the County's Stormwater Management Technical Manual. This design bulletin is issued to provide uniformity with instructions in the side drain installation.

IMPLEMENTATION

Implementation is the date of the County Engineer's signature.

CONTACT

Please use the email link below to address any questions or comments in reference to this Design Bulletin:

PW-Standards_Inquiry

Recommended / Date:

Leland Dicus

Digitally signed by Leland Dicus
Date: 2025.04.21 08:25:14 -04'00'

Leland Dicus, Professional Engineer
Technical Services Division Director

Approved / Effective Date:

Michael J. Williams

Digitally signed by Michael J. Williams
Date: 2025.04.21 12:43:24 -04'00'

Michael J. Williams, Professional Engineer
County Engineer