

- d. Where the roll top or mountable curb and gutter section is used, drop inlets must be spaced so that the 10-year frequency gutter flow does not exceed a four inch depth at the face of curb.
- e. Storm Sewers should be designed to convey the 10-year runoff without surcharge; however, the system should be designed for the 50-year runoff and checked for the 100 year runoff in situations where it would be necessary to prevent flooding of interstate highways, underpasses or other depressed roadways where ponded water can only be removed through the storm sewer system.
- f. Storm Sewer System Pipe sizes – 15” pipe or equivalent elliptical shape shall be considered the minimum acceptable size. 12” or equivalent size may only be used as the initial pipe in a system or as a lateral line when necessary, provided there is 50 ft. or less between access points.
- g. Access points – Generally, distance between points of access in storm sewer trunk lines shall be limited, based on pipe diameter, to:
 

12” pipes,	50 feet
15” to 42” pipes,	300 feet
48” and larger pipes,	800 feet

#### 4. Documentation

All drainage design computation shall be complete, properly documented and presented to the Resident Engineer for review.

#### 5. Storm water management

All storm water management facilities located on the right of way must be designed in accordance with [Chapter 11 of the VDOT Drainage Manual](#). See the Subdivision Street Requirements to determine the need for any special agreements related to stormwater management.

#### 6. Dams

In addition to the VDOT Drainage Manual, all dams must be designed in accordance with all applicable provisions of the Department of Conservation and Recreation’s Virginia stormwater Management Handbook and Virginia’s Dam Safety program, which is administered by the Department of Conservation and Recreation located at ([www.dcr.virginia.gov](http://www.dcr.virginia.gov)) \*Pertinent information is posted on their web site. See the Subdivision Street Requirements to determine the need for any agreements related to dams.

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\* Rev. 1/06