

## 5. APPROVED CONSTRUCTION MATERIALS

### 5.1. Conveyance Structures

#### 5.1.1. Pipes under Roads and Pavement

All pipes under roadways, parking lots and other surfaces designed for vehicular traffic shall be constructed of reinforced concrete pipe (RCP) meeting ~~Georgia Department of Transportation Standards~~. Longitudinal pipes with diameters of 30-inches or smaller may utilize High Density Polyethylene (HDPE) Pipe if the depth of the pipe is four feet or less (as measured from the invert of the pipe to the finished grade). ~~Bedding standards for HDPE pipe shall be such that stone bedding, or equivalent, shall be placed to half of the pipe diameter or in accordance with manufacturer's specifications. Joints shall be wrapped with a double layer of non-woven geotextile with a minimum weight of 16 ounces per yard.~~ Effingham County Standard Specifications.

#### 5.1.2. Pipes Not Under Roads and Pavement

Pipes not under roadways, parking lots and other surfaces meant for vehicular traffic shall be constructed of RCP or HDPE meeting ~~Georgia Department of Transportation Standards and approved by the County Engineer or his designee.~~ Bedding standards for HDPE pipe shall be such that stone bedding, or equivalent, shall be placed to half of the pipe diameter for all depths greater than four feet and/or in accordance with manufacturers specifications whichever are greater. All pipes must have a minimum of 12-inches of cover from the crown of the pipe unless prior approval of the County or its Agent has been obtained. Effingham County Standard Specifications.

#### 5.1.3. Channels

All channels must be protected from erosion through the use of rip-rap, concrete, erosion control matting or similar method acceptable to the County Engineer or his designee. All channel side slopes shall have a 3-foot horizontal to 1-foot vertical (3:1) slope or less, unless otherwise approved by the County Engineer or his designee.

#### 5.1.4. Inlets

All inlets shall be constructed of materials and methods ~~approved by the Georgia Department of Transportation (GDOT)~~ <sup>meeting Effingham County Standard Specifications.</sup> and designs pre-approved by the County Engineer or his designee. <sup>maximum of</sup> ~~or~~

### 5.2. Detention Ponds

All stormwater management and detention facilities constructed in accordance with the requirements of the LDM shall be constructed on subdivided parcels deeded to the property owner (for non-residential parcels) or the homeowners association (for residential parcels). No stormwater management or detention facility for residential subdivisions shall be constructed in whole or part on a parcel or lot intended for future sale or use as a residential property.