



# Comprehensive Plan 2009



## 2.6 STORMWATER MANAGEMENT

**Goal:** Provide an environmentally safe and efficient stormwater management system.

**Objective 1** *Correct existing stormwater management deficiencies by implementing improvements adopted in the 5-Year Schedule of Capital Improvements, developing and implementing a Stormwater Master Plan, and paving of roads according to adopted level of service standards.*

**Policy 1.1** Priorities for replacement, correction of deficiencies and providing for future facility needs shall be as follows:

1. When facilities must be replaced they shall be constructed according to the adopted level of service standards;
2. Correction of any remaining deficiencies shall be through the following implementation measures:
  - a. Where feasible, new roads shall be designed and constructed and existing roads overlaid providing for stormwater management according to adopted level of service standards according to the time frame adopted in the Capital Improvements Element;
  - b. The County shall coordinate with Natural Resource Conservation District erosion and sedimentation control programs and water quality improvement programs.
3. Development orders for new development and redevelopment shall not be issued until the applicant provides proof of FDEP, Army Corps of Engineers, or other applicable state or federal agencies, permit or exemption and proof of meeting adopted level of service standards for stormwater management.

**Policy 1.2** The development and adoption of a comprehensive Stormwater Master Plan for Okaloosa County shall be completed in its entirety or in phases in compliance with NPDES requirements. This plan will include an inventory of existing facilities and shall recommend needed stormwater management improvements, analyze the adopted level of service standards and recommend alternative standards if necessary. The Stormwater Master Plan will be coordinated with the Local Mitigation Strategy Guiding

Principles. The County's Comprehensive Plan, including the Capital Improvements Element, will be revised based on the Stormwater Master Plan.

**Objective 2** *Coordinate the extension of or increase the capacity of stormwater management facilities to meet future needs. This shall be accomplished in part through enforcement of land development regulations that protect the quantity and quality of stormwater runoff and that ensure that the capacity of stormwater management structures for roads and other development are designed to meet facility needs.*

**Policy 2.1** Stormwater management facilities necessary to accommodate new development shall be designed and constructed by the development. The cost for design, construction and maintenance for stormwater management facilities for developments shall be the sole responsibility of the developers until accepted by the Okaloosa County Board of County Commissioners for permanent maintenance by the County. The final plat approval and acceptance for permanent maintenance by the County shall be coordinated.

**Policy 2.2** The LDC shall contain design standards that prohibit the channeling of stormwater runoff directly into water-bodies, address erosion and sedimentation control, require the use of retention and detention ponds for treatment, require that runoff from parking lots be treated, and other similar standards that address the quality and quantity of stormwater runoff.

**Policy 2.3** The LOS standards for stormwater management shall be:

- a. Single-Family Detached Residential Subdivisions: Post development runoff shall not exceed the pre-development runoff rate for a twenty-five (25)-year storm event, up to and including an event with a twenty-four (24)-hour duration;
- b. All Other Development: The first one (1) inch of runoff from the property shall be retained on the site of the development and post development runoff shall not exceed the pre-development runoff rate for a twenty-five (25)-year storm event, up to and including an event with a twenty-four (24)-hour duration; and
- c. A "pop off" shall be provided for stormwater runoff beyond the above requirements. The developers must provide a pop off to an outfall with adequate capacity to handle additional stormwater runoff and must document that the pop off to the outfall has been authorized by the owner of the outfall system. If no pop off is available the stormwater storage facility shall be designed with a minimum capacity to retain a storm event of one hundred (100)-year frequency up to and including a twenty-four (24)-hour duration for post development.

Note: The LDC shall include design and performance standards that meet or exceed Section 17-25.025, F.A.C. and Section 17-3.051, F.A.C.

**Policy 2.4** The level of service standard for stormwater management on county roads shall be Level II (capacity maximum): Street gutter systems are flowing full however ten to twelve feet of the road crown is not submerged and traffic can move at a slightly reduced speed. Stormwater swales and ditches are full with water overflowing the tops

and edges in some locations. Water may be ponded eight (8) to ten (10) feet onto private property and yards. Inlets and culverts are flowing full to overfull slightly backing up water at entrances.

**Objective 3** *The County shall protect natural functions of stormwater management features. This shall be accomplished in part through land development regulations and proper classification of land uses.*

**Policy 3.1** The LDC shall include land use regulations which require site specific development plans to protect natural stormwater management features and incorporate such features into the site planning and site development process.

**Policy 3.2** Protect the quality and quantity of stormwater runoff through the implementation of all policies in the conservation element that are applicable to limiting specific and cumulative impacts of development or redevelopment upon wetlands, water quality and quantity.

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**Objective 4** *Discourage urban sprawl and maximize the use of existing stormwater management facilities through flexibility in the land development regulations to allow stormwater management facilities to serve more than one function and to promote the use of regional facilities where they will not contribute to urban sprawl.*

**Policy 4.1** Continue to utilize CDBG, hazard mitigation grants and other funding mechanisms to retrofit existing facilities in developed and redeveloping areas of the county.

**Policy 4.2** Regional stormwater management needs shall be a priority in planning, design and constructing locally funded stormwater management facilities. Where land is available, over sizing of facilities to accommodate future regional needs should also be a priority.