



**CITY OF CLERMONT
COMPREHENSIVE PLAN**

**CHAPTER VI
STORMWATER MANAGEMENT ELEMENT**

Adopted June 23, 2009

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CHAPTER VI STORMWATER MANAGEMENT

GOAL 1: Assure the provision of stormwater management facilities that maximize capacity and use of existing facilities; protect public health and safety; promote aquifer recharge; fulfill requirements of the National Pollutant Discharge Elimination System (NPDES) and Total Maximum Daily Loads (TDML) mandates to ensure environmental quality; and provide the adopted level of service concurrent with development

Objective 1.1: Correct Existing Deficiencies: Within the planning timeframe, the City shall correct existing facility deficiencies.

Policy 1.1.1: Within the planning timeframe, the City shall prepare a stormwater master plan that includes an inventory of existing facilities and establishes priorities for stormwater system replacements, ensuring correction of existing drainage facility deficiencies and providing for future facility needs.

Policy 1.1.2: The City shall utilize the stormwater master plan in the preparation of the annual budget to correct existing deficiencies.

Policy 1.1.3: The City shall implement improvements adopted in the Five-Year Schedule of Capital Improvements to correct existing stormwater management facilities deficiencies.

Policy 1.1.4: The City shall continue to collect the stormwater utility fee to provide funding for the maintenance and operations of stormwater facilities within the City of Clermont.

Objective 1.2: Stormwater Facilities Capacity: The City shall maximize the use of existing stormwater management facilities and require new development to construct facilities to achieve and maintain adopted stormwater management level of service standards that fulfill NPDES and TMDL mandates for stormwater quality and quantity.

Policy 1.2.1: The City shall require new development to provide adequate easements for stormwater system maintenance and conveyance.

Policy 1.2.2: New developments shall design stormwater management systems to meet the rules and criteria established by the City of Clermont, the St. Johns River Water Management District (SJRWMD), the Florida Department of Transportation and Lake County, as applicable.

Policy 1.2.3: The City shall coordinate with Lake County and SJRWMD to encourage maintenance of conveyance and treatment features.

Policy 1.2.4: At a minimum, the existing stormwater management systems and current levels of service shall be maintained. The City shall achieve and maintain the following adopted stormwater management level of service standards for new development and redevelopment:

Facility Type	Design Storm Frequency
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	and Duration
Storm Sewers and Cross Drains	10 year/24-hour
Detention/ Retention Structures	50 year/24-hour
Retention with Percolation or Detention with Filtration	100-year/24 hour

Objective 1.3: Development Impacts. The City shall maintain high water quality by protecting the functions of aquifer recharge and natural drainage features from impacts of new development and redevelopment activities.

Policy 1.3.1: All new development and redevelopment shall provide stormwater retention, infiltration and/or wet or dry detention systems.

Policy 1.3.2: To the maximum extent feasible, development and redevelopment in the City shall reduce adverse impacts of stormwater on natural drainage features by mimicking the natural hydrology of the project site and its surroundings. The land development code shall require that, to the largest extent possible, natural systems are utilized in lieu of structural alternatives.

Policy 1.3.3: The City shall review detailed calculations for new projects prepared by a registered professional engineer which show that retention and detention will be accomplished to meet the adopted level of service, that drainage from new development will not adversely affect the City's natural drainage features, and that there will be no negative impacts to downstream water quality or quantity.

Policy 1.3.4: New development and redevelopment shall be required to accommodate upland flow that presently discharges through the site.

Policy 1.3.5: The City's land development regulations shall require that proposed stormwater systems have a negligible impact on adjacent native vegetation and/or wetlands and require mitigation where applicable.

Policy 1.3.6: Stormwater treatment shall be required to serve the development through a system that is site-specific. Regardless of the area served, the stormwater treatment system must provide a level of treatment that meets the requirements of the state, the City of Clermont and the SJRWMD. Development that causes runoff to Class I and II or Outstanding Florida Waters (OFW) shall carry pollution abatement treatment requirements of an additional 50 percent.

Policy 1.3.7: The City shall require erosion and sediment control practices that protect water bodies, wetlands and watercourses from siltation during stormwater facilities construction activities.

Policy 1.3.8: Pollutant retardant structures that separate oils and greases from runoff shall be designed for all new commercial and industrial projects.

Policy 1.3.9: The City shall prohibit development within the 100-year floodplain or limit development to those uses that will not adversely affect the capacity of the floodplain to store water.

Policy 1.3.10: Where feasible, the floodplain shall be reserved for conservation, open space and passive recreational uses to preserve the natural flow of runoff.

Policy 1.3.11: To improve the aesthetics of detention and retention facilities, the City shall discourage designs that require fencing while encouraging the following:

- Use of littoral zones within wet ponds to improve the aesthetics of the pond.
- Use of curvilinear ponds in lieu of rectilinear ponds.
- Use of water-tolerant plant species within dry ponds.

Objective 1.4: Intergovernmental Coordination. The City of Clermont shall educate citizens and coordinate with all applicable jurisdictions to address stormwater issues of mutual concern and to provide adequate levels of service.

Policy 1.4.1: The stormwater master plan process will include review of the plan by affected citizens and City advisory committees.

Policy 1.4.2: The City shall maintain a complaint monitoring system to log complaints and initiate work orders for corrective actions.

Policy 1.4.3: The City will support the SJRWMD's programs and stormwater regulations.

Policy 1.4.4: The City shall coordinate with Lake County and SJRWMD to encourage maintenance of conveyance and treatment features.

Policy 1.4.5: The City shall educate and inform citizens of their responsibility regarding maintenance and protection of stormwater collection systems.

Objective 1.5: Sustainable Stormwater Management Strategies. The City shall encourage the use of sustainable, low impact development (LID) strategies to address stormwater management for developments ranging from individual building sites, to subdivisions to large planned developments.

Policy 1.5.1: The City shall coordinate with local, regional, state and federal agencies to provide educational materials and forums to the public and the development community on the value and benefits of sustainable stormwater management facilities design.

Policy 1.5.2: For new construction or redevelopment of City buildings and facilities, the City shall utilize LID principles to the extent practicable to address stormwater management needs and to model innovative techniques:

- Manage stormwater as close to its origin as possible by using many small-scale LID techniques.
- Create a site design that slows surface flows and increases the amount of time stormwater flows over the site.
- Increase the reliability of the stormwater system by using multiple, redundant stormwater controls.
- Integrate stormwater controls into the design of the site and use the controls as site amenities.
- Reduce the reliance on traditional collection and conveyance stormwater practices.

Policy 1.5.3: The City shall consider updating land development regulations to permit innovative LID techniques in the design of stormwater management facilities for development and redevelopment sites including, but not limited to the following:

- Bioretention cells or swales (also known as rain gardens);
- Cisterns and rooftop rainwater harvesting;
- Permeable concrete pavers or pavement.