

OBJECTIVE 2

Deficient stormwater management and drainage facilities will be upgraded in accordance with **Chapter 62-25 F.A.C and federal, state, regional, water management districts (WMD) and local regulations in effect on the date of adoption of this Comprehensive Plan State Water Policy** to an acceptable level of service to prevent violations of **water quality standards.** ~~State water quality standards described in Chapter 17-301 F.A.C.~~

- Policy 2.1 No development order shall be issued for new development which would result in an increase in demand on deficient facilities unless one of the following criteria are met:
1. The necessary facilities are under construction at the time a development permit is issued and will be completed when the impacts of development occur; or
 2. The necessary facilities are guaranteed in an enforceable development agreement that includes the provisions set forth in Policy 1.3.2-~~A~~ of the Capital Improvements Element; or
 3. The development is limited to pre-development contributions to the capacity of the existing facility in cases where upgrading of existing facilities would create adverse stormwater impacts to adjacent or downstream properties.
- Policy 2.2 Alachua County shall pursue the use of stormwater benefit assessments or other dedicated revenue sources for correcting localized deficiencies in stormwater management facilities and for designing, constructing and operating regional master stormwater management facilities.
- Policy 2.3** Priorities for correcting **volume and pollution abatement** deficiencies in existing County-maintained **stormwater management systems drainage facilities** shall be scheduled in the Capital Improvements Program in accordance with the criteria established in the Capital Improvements Element of this plan. **The Robin Lane, Sunningdale and S.W. 34th Street Industrial Park, North Florida Regional Doctor's Park, Kanapaha Prairie, and Emerald Woods stormwater facilities shall be included in the Capital Improvements Program for improvements within the five-year planning period provided a funding source has been established (e.g. Special Assessment District, Special Tax District, Stormwater Utility, grant or general funding).**
(Previous Policy 1.2 of adopted element.)
- Policy 2.4 The County shall pursue funding of stormwater projects through appropriate state or federal grant applications which address identified needs.

OBJECTIVE 3

Coordinate improvements to the **stormwater management drainage** system which serve new or future needs with the Future Land Use Map and level of service standards as adopted in this plan.

Policy 3.1 **To ensure water quality and flood protection,** ~~N~~ new development shall provide facilities designed to control and treat stormwater runoff at the following levels of service:

LEVELS OF SERVICE

Floodplain Management

All new building lots shall include adequate buildable area above the 100-year floodplain and all new habitable structures must be outside the floodplain. Existing lots of record (as of the adoption date of this updated plan) without buildable area above the floodplain may only develop subject to limitations such as intensity, impervious surface ratio (ISR), clearing, limits on the use of fill material and requirement for appropriate on-site sewage disposal. No development shall adversely impact the functions of the floodplain. Silviculture and agricultural uses shall be required to follow appropriate Best Management Practices.)

Facility	Level of Service
Residential floor elevation	1 foot above the 100 year/ <u>critical-duration 24 hour</u> storm elevation
Non-residential floor elevation	1 foot above 100 year/ <u>critical-duration 24 hour</u> storm elevation or <u>flood resistant construction floodproofed</u>

Water Quantity

Retention basins.....	100 year/ <u>critical-duration 24 hour</u> storm or applicable Water Management District standards
Detention basins.....	25 year/ <u>critical-duration 24 hour</u> storm with 100 year/ <u>critical-duration storm routing analysis 24 hour storm route</u>
Storm sewer systems.....	3 year/10 minute

Crossdrains..... 10/25 year/24hr. storm for closed system
100 year/24 hr. for open system

Sidedrains.....10 year/20 minute

Water Quality

All new development, redevelopment, and, when expansion occurs, existing developed areas, must provide adequate stormwater treatment so as not to degrade the water quality of the receiving water body. **Infill residential development within improved residential areas or subdivisions existing prior to the adoption of this Comprehensive Plan, must ensure that its post-development stormwater runoff will not contribute pollutants which will degrade the water quality of the watershed.** Regardless of the area served, the stormwater treatment provided must provide a level of treatment which meets or exceeds **Chapter 62-25 F.A.C. and applicable federal, state, regional, WMD and local requirements in effect on the date of adoption of this Comprehensive Plan.** ~~the requirements of Chapter 40C-42 or Chapter 40-B4, (whichever is applicable), Florida Administrative Code (F.A.C.), in effect on the date of adoption of this Comprehensive Plan, to ensure that the water quality standards of Chapter 17-302, section 17-302.500, F.A.C., are met and to ensure that the water quality of the receiving water body is not degraded below the minimum conditions necessary to maintain their classifications as established in Chapter 17-302, F.A.C. It is intended that all standards in these citations are to apply to all development and redevelopment and that any exemptions or exceptions in these F.A.C. citations, including project size thresholds, are not applicable.~~

~~**Infill residential development within improved residential areas or subdivisions existing prior to the adoption of this Comprehensive Plan, must ensure that its post-development stormwater runoff will not contribute pollutants which will cause the runoff from the entire improved area or subdivision to degrade receiving water bodies and their water quality as stated above.**~~

Policy 3.2 Stormwater management facilities for new development shall be provided concurrent with the impacts of such development as part of the County's Concurrency Management Program.

Policy 3.3 The County shall promote the use of and will assist in the development and implementation of regional master stormwater management plans for Activity Centers.

Policy 3.4 **The County shall amend land development regulations to include the standards adopted in this Stormwater Management Element.**
~~**The County shall adopt land development regulations to include the standards adopted in this Drainage Element. In the interim, these standards will be implemented on a case by case basis during the development review process.**~~

Policy 3.5 Upon receipt of new Flood Insurance Rate Maps, the County will review and update the Future Land Use Map and adopted level of service standards. The County will provide assistance to the maximum extent practicable, in application for Letters of Map Revision or Letters of Map Amendments solicited from the Federal Emergency Management Agency.

OBJECTIVE 4

The County shall ~~continue~~ **establish a program** to maintain and improve existing stormwater management facilities in order to maximize their capacity and lifespan and to ensure that discharges do not violate State water quality standards.

Policy 4.1 The Public Works Department shall ~~have expand its facility maintenance program to include~~ a preventive maintenance program for stormwater management facilities to maximize the efficiency of existing structures.

Policy 4.2 The County shall amend its development regulations to ensure periodic inspection and routine maintenance of privately owned community **stormwater management drainage** facilities. **The County shall coordinate inspections of privately owned stormwater managements facilities with the appropriate water management district to avoid duplication of inspections. The County shall investigate and implement, if determined to be financially-feasible, appropriate design techniques and maintenance strategies to minimize mosquito propagation.**

OBJECTIVE 5

Alachua County will ensure the protection of natural drainage features, including surface water quality and groundwater aquifer quality and quantity recharge functions, from stormwater runoff.

Policy 5.1 All development outside a regional master plan shall control post-development runoff rates and/or volumes to not exceed pre-development runoff rates and/or volumes.

Policy 5.2 Stormwater runoff from development shall not adversely impact stormwater storage capacity of adjacent lands, identified conservation areas, or downstream surface waters or groundwaters.

Policy 5.3 All stormwater management facilities shall be constructed and operated in accordance with State Water Policy and shall not cause violations of State water quality standards.

Policy 5.4 Stormwater runoff from development activities shall not violate State water quality standards during construction.

Policy 5.5 All new development, redevelopment, and, when expansion occurs, existing developed areas with a stormwater discharge to an active sinkhole shall provide a minimum treatment of the runoff from the first two (2) inches of rainfall from the design storm. ~~The County shall encourage the use of stormwater runoff for irrigation, agricultural or industrial water needs in order to conserve potable water sources.~~
(Previously Policy 5.6 of adopted element)

Policy 5.6 All new development, redevelopment, and, when expansion occurs, existing developed areas located within the High Aquifer Recharge Areas shall provide treatment of the stormwater before it enters the Floridan Aquifer. This shall be presumed to have been met by designing and constructing a stormwater management system to control post-development water runoff

rate and/or volume and water quality to not exceed pre-development runoff rate and/or volume and water quality.

(Previously Policy 5.7 of adopted element)

Policy 5.7 New stormwater management systems which receive stormwater from areas which are a potential source of oil and grease contamination shall include a baffle, skimmer, grease trap, pre-treatment basin or other mechanism suitable for preventing oil and grease from leaving the stormwater management system in concentrations that would cause violations of water quality standards in the groundwater or receiving waters.
(Previously Policy 5.8 of adopted element)

Policy 5.8 **Conserve and enhance through the use of system upgrades the use of drainageways where appropriate as habitat corridors which allow the passage of wildlife between natural areas and throughout the County, as well as providing wildlife habitat.**

Policy 5.9 **Conserve and enhance the use of floodplains where appropriate for flood and erosion control.**

Policy 5.10 **Alachua County shall require stormwater management facilities be designed in accordance with the Stormwater Management and Landscaping Policies of the Metropolitan Transportation Planning Organization (MTPO) as outlined in the MTPO Policies Manual as an integral part of the development, as a physical or visual amenity that provides usable open space or that resembles native habitat communities by planting native vegetation in and around the facility to the maximum extent feasible.**

Policy 5.11 **Stormwater management facilities shall utilize contours of the site and minimize disturbance to existing natural features to maximum extent feasible.**

Policy 5.12 **The proportion of the area of stormwater management facilities to the area of the site shall be limited to the maximum extent practicable through the reduction of impervious surfaces via vertical construction and the use of alternative parking surfaces in order to preserve the existing pre-development hydro-period from discharge to wetland systems and adequate existing vegetation on the site.**

OBJECTIVE 6

Ensure that stormwater discharges to groundwater or surface water resources that are within or affecting more than one governmental jurisdiction are effectively managed to preserve, protect, and enhance those watershed resources through continued active County coordination with adjacent governments and appropriate agencies.

Policy 6.1 Drainage improvements in unincorporated Alachua County shall be coordinated with the goals, objectives and policies of the Conservation and **Open Space** ~~Aquifer Recharge Elements~~ of this plan.

Policy 6.2 County land development regulations shall **continue to ensure** ~~be amended so~~ that standards for the treatment and discharge of stormwater runoff from developments within

the watershed of surface waters that flow into adjacent governmental jurisdictions are consistent with the standards established by those jurisdictions.

- Policy 6.3 All appropriate state, water management district, and/or federal permits required by a development shall be obtained and submitted to the County prior to the issuance of construction permits. **The County shall pursue opportunities for one-stop permitting with all appropriate agencies. The most restrictive criteria of the County or other agencies shall be utilized.**
- Policy 6.4 The County shall solicit input and review of proposed development which has the potential of discharging stormwater runoff into surface waters of other jurisdictions in accordance with procedures established in the Intergovernmental Coordination Element of this plan.

OBJECTIVE 7

Stormwater management in floodplain areas shall protect the public health, safety and welfare by incorporating hazard mitigation and multi-functional designs.

Policy 7.1 Alachua County shall continue participation in the State Local Mitigation Strategy program and emphasize public education programs for floodplain protection.

Policy 7.2 Construction activities in the 100 year floodplain areas shall conform to the National Flood Insurance Program, and shall meet or exceed Chapter 65-25 and all other federal, state, regional, WMD and local regulations in effect on the date of adoption this comprehensive plan.

Policy 7.3 All road construction and improvement projects within the 100 year floodplain shall be designed in such a manner as to avoid any increase in floodway obstruction, any increase in the peak rate or volume of stormwater runoff and any increase in pollutant runoff to the maximum extent technically feasible.

Policy 7.4 A natural regulated buffer determined on a site-specific basis shall be required on public lands within the 100 year floodplain for the purposes of visual screening, stormwater runoff, erosion control, resource-based recreation where deemed appropriate, and public safety.

Policy 7.5 Alachua County shall participate in the acquisition planning process of federal, state, regional, WMD and local agencies for land and unique natural areas located within the 100 year floodplain.

<u>Flood Insurance Rate Map (FIRM):</u>	<u>Insurance and floodplain management map issued by the Federal Emergency Management Agency (FEMA) that identifies, based on detailed or approximate analysis, areas of 100-year flood hazard.</u>
<u>Flood Insurance Zone Designations:</u>	<u>The zone designations that appear on the FIRM. Each designation indicates the magnitude of the flood hazard within a specific area.</u>
<u>Floodplains:</u>	<u>Lowlands adjoining the channels of rivers, streams or other watercourses, or lakes or other bodies of standing water. Includes the floodway and floodway fringe.</u>
<u>Floodway or Regulatory Floodway:</u>	<u>The channel of a river, stream, or other watercourse and adjacent land areas that must be reserved in order to discharge the 100-year flood without cumulatively increasing the 100-year flood elevation more than a designated height.</u>
<u>Hydro period:</u>	<u>Period of time in which soils, waterbodies and sites are wet.</u>
<u>Impervious Surface:</u>	<u>Land Surfaces which do not allow, or minimally allow, the penetration of water; included as examples are building roofs and normal concrete and asphalt pavements.</u>
<u>Obstruction:</u>	<u>Any fill, structure, work, appurtenant work, or surfacewater management system placed in a floodway which may impede the flow of water or otherwise result in increased water surface elevations.</u>
<u>One-stop permitting:</u>	<u>The ability to obtain a single permit from the County and other appropriate agencies as a result of an inter-local agreement for the permitting and construction of stormwater management facilities associated with new development or modification to existing facilities.</u>
<u>Open System:</u>	<u>An open stormwater conveyance system associated with roadways constructed with roadside swales.</u>
<u>Retention:</u>	<u>The prevention of the discharge of a given volume of stormwater runoff by complete on-site storage.</u>
<u>Stormwater:</u>	<u>The flow of water which results from, and which occurs immediately following a rainfall event.</u>

Stormwater Utility: **An enterprise fund established to provide stable funding for stormwater operations and capital projects.**

Structure: **Anything constructed or used for residence, business, industry, institutional or other public or private purposes or accessory thereto and including tents, lunch wagons, dining cars, trailers, mobile homes, sheds, garages, carports, animal kennels, storerooms, gasoline pumps, and similar structures, whether stationary or movable.**

Subdivision: **The platting of real property into three or more lots, parcels, tracts, tiers, blocks, sites, units, or any other division. Subdivision includes the establishment of new streets and alleys, additions, and re-subdivisions; and, when appropriate to the context, subdivision applies to the process of subdividing or to the lands or area to be subdivided.**

Usable Open Space: **Walkable outdoor area designed or used for public access, outdoor living, recreation or pedestrian access.**

Water Management District: **Any flood control, resource management, or water management district operating under the authority of Chapter 373, Florida Statutes. Unless otherwise stated, water management district shall refer to either or both, the St. Johns River Water Management District or the Suwannee River Water Management District.**

Watershed: **Land area included in a natural drainage basin for a river, stream or body of water.**

Watershed Resources: **Natural functions or systems that affect stormwater discharge characteristics within a specific watershed.**