
INFRASTRUCTURE ELEMENT GOALS, OBJECTIVES, AND POLICIES

PURPOSE

Pursuant to Chapter 163.3177(6)(c) and 163.3180 F.S., the purpose of this element is to provide for necessary public facilities and services correlated to the future land use projections. This element addresses the following facilities and resources.

- Wastewater
- Solid Waste*
- Stormwater Management
- Potable Water*
- Natural Groundwater Aquifer Recharge

(* These services may be the responsibility of other providers or agencies.)

GOAL 3-1 PROVIDE NEEDED PUBLIC FACILITIES

The City shall ensure availability of needed public facilities associated with wastewater disposal, potable water distribution and treatment, drainage, solid waste collection and disposal, and protection of natural ground water aquifer recharge in a manner that is environmentally sound and protects marine environments (including sea grass meadows, near shore waters, mangrove islands and extensive living coral reef), while protecting investments in existing facilities and promoting orderly, compact growth. §163.3177(3)(a)3.; §163.3177(6)(c) and §163.3180(1)(b) F.S.

Objective 3-1.1 Adopt Level of Service (LOS) Standards

The City shall ensure that, at the time a development permit is issued, adequate wastewater treatment facilities, stormwater facilities, potable water and solid waste disposal facilities are available to support the development at adopted level of service standards, concurrent with the impacts of such development, in accordance with the following policies. §163.3177(6)(c) and §163.3180(1)(b) F.S.

Policy 3-1.1.1 Adopt Wastewater Management System(s) Level of Service Standards

The City hereby adopts the LOS standards for wastewater management systems as currently required by Federal and State regulations as follows:

TABLE 3-1: Florida Statutory Treatment Standards				
	Mg/L			
	BOD	TSS	TN	TP
On-Site Systems (BAT) Community Wastewater Collection and Treatment Systems	10	10	10	1
Design flows less than or equal to 100,000 gpd (BAT)	10	10	10	1
Design flows greater than 100,000 gpd (AWT)	5	5	3	1

Source: Monroe County Sanitary Wastewater Master Plan, CH2MHill, March 2000

Policy 3-1.1.2 Adopt Stormwater Management Level of Service Standards

The City hereby adopts LOS standards for stormwater management as currently mandated by State agencies, as defined in the City's adopted Stormwater Management Master Plan as follows:

- a. Post development runoff shall not exceed the pre-development runoff rate for a 25 year storm event, up to and including an event with 24 hour duration;
- b. Stormwater treatment and disposal facilities shall be designed to meet the design and performance standards established in Chapter 62-25, Section 25.025, FAC, with treatment of the runoff from the first one inch of rainfall on-site to meet the water quality standards required by Chapter 62, Section -302.500, F.A.C; and
- c. Stormwater facilities which directly discharge into 'Outstanding Florida Waters' (OFW) shall provide an additional treatment pursuant to Chapter 62-25.025 (9), FAC. Stormwater facilities must be designed so as to not degrade the receiving water body below the minimum conditions necessary to assure the suitability of water for the designated use of its classification as established in Chapter 62-302, F.A.C.

Policy 3-1.1.3 Adopt Potable Water Level of Service Standards

The City hereby adopts LOS standards for potable water as follows:

TABLE 3-2 Potable Water LOS	
Measure	LOS Standard
Residential LOS	66.5 gal/cap/day
Non Residential LOS	0.35 gal/sq. ft./ day
Overall LOS	100 gal/cap/day
Equivalent Residential Unit	149 gal/day
Minimum Pressure	20 PSI at customer service
Minimum Quality	Shall be as defined by the USEPA (part 143 National Secondary Drinking Standards, 40 CFR 143, 44FR 42198)

Source: Monroe County 2010 Comprehensive Plan

Policy 3-1.1.4 Adopt Solid Waste Level of Service Standards

The City hereby adopts LOS standards for solid waste management as follows:

TABLE 3-3 Solid Waste LOS	
Measure	LOS Standard
Residential Collection Frequency	Minimum 1 time/2 weeks for Domestic refuse
	Minimum 1 time/2 weeks for Yard trash
Disposal Quantity	5.44 lbs/capita/day or 12.2 lbs/day/ ERU (equivalent residential unit) 6.37 pounds/acre/day (non-residential unit)

Policy 3-1.1.5 Demand and Supply Information System

The City shall develop procedures for updating facility demand and capacity information and shall prepare annual summaries of capacity and demand information for respective facilities and service areas in coordination with the FKAA to the extent applicable.

Policy 3-1.1.6 Coordinate Between Future Land Use and Potable Water/Wastewater System Needs

The City's Land Development Regulations shall be enforced to ensure that incremental decisions by the City concerning potable water and wastewater system needs, plans, and the location and timing of improvements shall be consistent with the objectives and policies of the Future Land Use and Conservation Elements of this Plan.

Policy 3-1.1.7 Concurrency Requirements

Public facilities and services needed to support development shall be made available concurrent with the impacts of development in accordance with the adopted level of service referenced in this Element. Development approval may be phased to allow the provision of public facilities and services necessary to maintain the adopted level of service.

Objective 3-1.2 Maintain a Schedule of Public Facility Capital Improvement Needs to Ensure that the City's Infrastructure Responsibilities are Met

The City shall develop and maintain a five year schedule of capital improvement needs for public facilities and shall annually update the schedule as stipulated in the Capital Improvements Element. During the process of programming and budgeting for capital outlays, the City shall investigate innovative techniques, including impact fees, to finance public facilities and services. §163.3177(3) and §163.3180(1)(b) F.S.

Policy 3-1.2.1 Adopt a Capital Improvements Schedule

The City Council shall annually evaluate and rank capital improvement projects proposed for inclusion in the adopted five year schedule of capital improvement needs.

Policy 3-1.2.2 Correct Existing Deficiencies First

In developing the annual schedule of capital improvement projects, the City shall assign highest priority to those projects required for purposes of correcting existing deficiencies, to be ranked in accordance with Policy 3-1.2.3.

Policy 3-1.2.3 Establish Priorities for Programming Capital Improvement Projects

In developing the annual schedule of capital improvements, projects shall be evaluated and ranked according to the following priority guidelines:

Level 1 - Highest priority shall be assigned if the project:

1. Is needed to protect public health and safety;
2. Fulfills the City's legal commitment to provide facilities and services; and
3. Preserves or achieves full use of existing facilities.

Level 2 - Second priority shall be assigned if the project:

1. Increases efficiency of existing facilities;
2. Prevents or reduces future improvement costs; and
3. Provides service to developed areas lacking full service or promotes in-fill development.

Level 3 -Third priority shall be assigned if the project:

1. Represents a logical extension of facilities and services in a manner consistent with Future Land Use Element goals, objectives and policies, including the *Future Land Use Map*.

Policy 3-1.2.4 Ensure Compliance with the Capital Improvements Element

All major public facility projects shall be undertaken in accordance with the schedule provided in the Capital Improvements Element of the Plan, as may be hereinafter amended.

GOAL 3-2 SANITARY WASTEWATER MANAGEMENT

The City shall provide for environmentally and economically sound treatment and disposal of sewage, which meets the needs of present and future residents, while ensuring the protection of public health and the maintenance and protection of ground, nearshore and offshore water quality consistent with the City's growth policies. §163.3177(6)(c) and §163.3180(2) F.S.

Objective 3-2.1 Wastewater Concurrency

The City shall ensure that, at the time of a development permit is issued, adequate wastewater treatment and disposal facilities including sanitary wastewater treatment facilities and onsite sewage treatment and disposal systems, are available to support the development at the adopted level of service standards, concurrent with the impacts of such development. §163.3180(1)(b) F.S., §163.3180(2) F.S. and §163.3177(6)(c)2.F.S.

Policy 3-2.1.1 Focus on Appropriately Sized Systems

The wastewater systems shall be designed to provide only the service capacities necessary to comply with growth and development anticipated through the Plan.

Policy 3-2.1.2 Improve the City's Wastewater System(s)

The City shall continue to incorporate recommended improvements to the City's sanitary wastewater system into the Capital Improvements Element consistent with Objective 6-1.1 and shall amend the Comprehensive Plan as appropriate.

Policy 3-2.1.3 Conditions Governing Development Orders or Permits

The City shall assure that wastewater treatment facilities proposed through development orders or permits for new development or redevelopment shall be designed, installed and maintained consistent with regulations of all Federal, State and local on-site wastewater treatment systems.

Policy 3-2.1.4 Performance Criteria

Performance criteria shall be maintained within the Land Development Regulations that regulate the location, timing and scale of development in order to ensure that new development is effectively served by wastewater services.

Objective 3-2.2 Reduce Impacts of Wastewater Systems

The City shall regulate land use and development to conserve potable water and protect the functions of natural drainage features and groundwater from the impacts of wastewater systems. §163.3177(6)(c)2. F.S.

Policy 3-2.2.1 On-Site Wastewater Disposal Facilities to Minimize Potential Environmental Impacts

The City shall maintain Regulations which ensure that wastewater disposal facilities shall be designed and located in a manner that in the event of a power failure, untreated effluent will not be discharged into any surface body of water, groundwater or wetland.

Policy 3-2.2.2 Prepare Design Criteria, Minimum Performance Standards and Level of Service Standards

The City shall, based on the results of the City's Wastewater Management Master Plan, maintain and update level of service standards in the Plan and incorporate into the Land Development Regulations threshold design criteria, minimum performance standards and revised level of service standards as necessary. §163.3177(6)(c)2.

Policy 3-2.2.3 Reduce Environmental Impacts

The City shall maintain Land Development Regulations to ensure that the siting of any wastewater disposal system has the least environmental impact. Considerations shall include but not be limited to:

- a. restricting the location of any discharge point to as far away as possible from any water body,

- b. locating OSDS drain fields in the least environmentally sensitive portion of a parcel proposed for development,
- c. restricting the location of any new centralized facilities from environmentally sensitive parcels,
- d. appropriately sizing facilities consistent with limited growth objectives,
- e. identifying and implementing reuse alternatives, and
- f. ensuring that pipes carrying untreated effluent shall not cross any body of water.

Policy 3-2.2.4 Eliminate Phosphorous

The City of Marathon, in conjunction with appropriate Federal, State, and local agencies, shall continue to minimize or eliminate the use of products containing phosphorous.

Policy 3-2.2.5 Ensure Design Compliance

The City, in conjunction with the FCAA, shall ensure that wastewater disposal facilities shall be designed to meet the water quality standards established under State Statute.

Policy 3-2.2.6 Promote Reuse/Recycling of Treated Wastewater

The City, in conjunction with the FCAA, shall continually investigate the potential for reuse/recycling of treated wastewater and when feasible or when funding becomes available shall implement such a program.

Objective 3-2.3 Correct Existing Deficiencies

The City of Marathon, in conjunction with DOH, shall correct existing facility deficiencies by requiring the elimination of cesspits, improvement of failing septic tanks and package treatment plants, and the regulation of live-aboards. §163.3177(6)(c)2. F.S.

Policy 3-2.3.1 Eliminate Cesspits

The Wastewater Management Master Plan shall provide a cesspit identification and replacement process to be coordinated with the State of Florida Department of Health (DOH), which shall continue through all phases of wastewater infrastructure improvements. All cesspits within the City shall be replaced by 2010.

Policy 3-2.3.2 Nutrient Reduction Credits (NRC)

Effective July 13, 2005, no nutrient credits shall be required for ROGO allocations if the local government has made satisfactory progress in meeting the deadlines established by the work program adopted by rule after March 15, 2004. The purpose of the NRC program is to ensure that no net increase in nutrient loading occurs as a result of permitted development. This program shall require that new development obtain NRCs as generated from removal of cesspits and upgrading of other wastewater treatment facilities in accordance with the following table excerpted from Rule 28-20.100 and pursuant to the Coordinated Permit Review Agreement executed by the City:

	TREATMENT SYSTEM UPGRADE TO			
	On-Site	Centralized		
	OWNR or	Secondary	Best Available	Advanced

	Equivalent On-Site Treatment and Disposal Systems		Treatment (BAT)	Wastewater Treatment (AWT)
Cesspit	1 EDU Credit	1 EDU Credit	1 EDU Credit	1.5 EDU Credit
Substandard On-Site	0.5 EDU Credit	0.5 EDU Credit	1 EDU Credit	1.5 EDU Credit
Approved On-Site	0.5 EDU Credit	0 EDU Credit	1 EDU Credit	1.5 EDU Credit
Secondary	N/A	N/A	1 EDU Credit	1.5 EDU Credit

Policy 3-2.3.3 **Ensure Connection to Public Treatment Plants**

In accordance with the Sewage Connection Ordinance all existing development shall connect to public treatment plants when available. As wastewater facilities become available, affected property owners within the improvement area shall have 30 days to connect to the new or upgraded facility.

Policy 3-2.3.4 **Improve Failing Package Treatment Plants**

Through development review the City shall continue to cooperate with the Department of Environmental Protection to ensure that failing package plants are improved to meet State standards and connect, in accordance with the Sewage Connection Ordinance, to public treatment plants when available.

Policy 3-2.3.5 **Implement the No Discharge Zone Policy**

The City shall continue to implement the ‘No Discharge Zone’ policy of the FKNMS and shall implement the Marina policies relating to pump-out requirements that are established in the Coastal Element (creating a ‘No Discharge’ Zone), fee requirements and enforcement provisions designed to reduce pollutant discharges into surface waters from moored/anchored vessels and floating structures (live-aboards) in nearshore waters.

GOAL 3-3 SOLID WASTE

The City shall provide for the adequate collection, disposal and resource recovery of solid waste in an environmentally sound and economically feasible manner to meet the needs of present and future City residents.⁴ §163.3177(6)(c) and §163.3180(1)(b) F.S.

Objective 3-3.1 Provide Solid Waste Disposal

The City shall implement solid waste disposal methods which meet the projected demands for disposal. These disposal demands shall be met either by continuation of the City's current haul out contract or by other means as determined by the City. §163.3177(6)(c)2 and §163.3180(1)(b) F.S.

⁴ This service is provided by Monroe County through an Interlocal Agreement with the City of Marathon.

Policy 3-3.1.1 Ensure Land Fill Site Capacity

The City shall coordinate land use decisions with the annual review and projection of available capacity of the Dade County landfill site.

Policy 3-3.1.2 Prohibit Solid Waste Disposal Site in the City

Upon the effective date of the Plan, no solid waste and no wastewater residual disposal sites shall be allowed within the City.

Objective 3-3.2 Promote Recycling

The City shall strive for a 30 percent diversion rate of the municipal solid waste stream through recycling, where technically feasible. §163.3177(6)(c)2 F.S.

Policy 3-3.2.1 Implement Curbside Recycling

The City shall assess collection practices, rates of curbside collection and net material recovery, to design and implement a citywide, mandatory, curbside recycling program for residential and commercial locations. The City, in conjunction with Monroe County, shall continue to implement a citywide mandatory curbside recycling program, unless an alternate method of recycling is put in place.

Policy 3-3.2.2 Promote Public Awareness to Recycling

The City shall continue to promote public awareness by developing and implement recycling goals and programs which include public participation and educational programs.

Policy 3-3.2.3 Establish Drop-Off Collection Programs

At select locations, the City, in conjunction with Monroe County, shall implement and expand, as necessary, drop-off collection programs, which shall supplement the curbside collection program, and facilitate participation by properties, which are not equipped to participate in the curbside collection programs.

Objective 3-3.3 Regulate Hazardous Waste

The City shall undertake activities, which support existing state and federal laws pertaining to the handling, transportation and disposal of hazardous wastes. §163.3177(6)(d)2.1. F.S.

Policy 3-3.3.1 Identify Hazardous Materials Locations

The City shall continue to identify the location of all hazardous materials in the City and shall have plans prepared for containment, cleanup, public notification, and fire control, consistent with Federal, State, and County mandates.

Policy 3-3.3.2 Establish Containment Requirements

The City shall adopt Regulations for the storage and containment of those structures utilizing hazardous materials. Containment requirements shall include, but not be limited to, construction of impervious floors, without drains, to ensure containment and facilitate the cleanup of any spill or leak.

Policy 3-3.3.3 Identify Hazardous Waste "Small Quantity Generators"

The City shall continue to maintain Land Development Regulations which address the location of all hazardous waste "small quantity generators" with respect to adjacent uses. Criteria for the location of hazardous waste small quantity generators will be specifically indicated as allowed/prohibited by zoning designation.

Policy 3-3.3.4 External Agency Coordination

The City shall provide copies of the certificates of occupancy to the Department of Environmental Protection and the City Fire Department to notify them when buildings or sites become occupied by hazardous materials users and potential hazardous waste generators.)

Objective 3-3.4 Coordinate Solid Waste Programs

The City shall continue intergovernmental coordination efforts with Monroe County, the Department of Economic Opportunity (DEO), the Department of Environmental Protection (DEP), the South Florida Regional Planning Council (SFRPC), and other County municipalities to develop and implement the most cost-effective and environmentally sound methods of regional solid waste management. §163.3177(6)(c)2. F.S.

Policy 3-3.4.1 Pursue Funding Sources

The City shall coordinate efforts with the Department of Environmental Protection (DEP) and other involved federal and state agencies to pursue funding for the implementation of the goals, objectives, and policies of this element.

GOAL 3-4 STORMWATER MANAGEMENT

The City shall provide a stormwater management system which corrects existing deficiencies, protects real and personal property and enhances and protects ground and nearshore water quality. §163.3177(6)(c) F.S.

Objective 3-4.1 Stormwater Improvements

The City, in coordination with SFWMD and DEP, shall maintain and implement a comprehensive Stormwater Management Master Plan through administering an annual Stormwater Management Program, which will ensure that stormwater management facilities are maintained and developed to attain adopted levels of service for all existing and proposed land uses.

Policy 3-4.1.1 Complete a Detailed Engineering Study of Drainage

The City shall maintain coordination with the SFWMD and DEP, regarding detailed engineering studies of drainage within the City limits. This study shall maintain an inventory of surface water conveyance, treatment and discharge systems, both natural and manmade. The effects of pollutant loading, including the effects on recharge areas, will also be assessed. The study shall consider the unique hydrogeological characteristics of the Keys, and their effects on surface water runoff and pollutant loading. The City shall implement and fund applicable recommendations through the Capital Improvements Program and shall amend the Plan as needed to include implementation of the recommendations.

Policy 3-4.1.2 Implement Priority Stormwater Projects

The City shall continue implementation of priority improvement projects identified in the City's Stormwater Management Master Plan to improve and make corrections for stormwater management, erosion and sedimentation control and water quality. The Stormwater Management Program shall follow the schedule for improvements provided in the Stormwater Management Master Plan. Each improvement project shall include planning, design and construction phases. The City shall fund annual improvement projects through the various innovative funding mechanisms and grant programs identified in the Stormwater Management Master Plan. The City shall acquire easements as necessary, in conjunction with annual stormwater improvement projects. The City shall review and update the Stormwater Management Program, as needed, on an annual basis.

Policy 3-4.1.3 Implement Financial and Regulatory Mechanisms for Stormwater Improvements

The City shall amend the capital improvement schedule as necessary to incorporate programs and funding allocations for drainage basin improvements and for monitoring the performance of the system, including the establishment of stormwater utility, by December 2005 to implement stormwater improvement projects. Within two years of the effective date of the Plan, the City shall recommend a regulatory framework for alleviating or preventing increased stormwater and surface water management problems and issues generated by development or redevelopment activity.

Policy 3-4.1.4 Request Funding from State and Federal Agencies for Stormwater Improvements

The City shall continue to request funding from State and Federal agencies, as necessary to correct identified stormwater deficiencies within the City.

Policy 3-4.1.5 Establish Improvement Priorities

The City shall adopt a priority list of and sequence of stormwater outfalls to surface water that will be eliminated. Proposed surface water capital improvements projects shall be evaluated and ranked, with priority assigned to projects needed to correct existing deficiencies and to projects which eliminate known direct discharges in surface waters and areas disturbed by the construction of wastewater collection and distribution lines. The City shall adopt Land Development Regulations to ensure direct discharge outfalls are prohibited within the City of Marathon.

Objective 3-4.2 Protect Natural Functions

The City shall protect the functions of natural groundwater recharge areas and natural drainage features. §163.3177(6)(c)2 F.S.

Policy 3-4.2.1 Ensure that Developed Lands Provide Adequate Drainage and Protection from Flooding and Manage the Retention of Ground and Surface Water at Levels that Enhance Natural Storage Capacity of Watersheds

The City shall promote the ecological, biological and hydrological role that surface waters play in sustaining surface vegetation. The City shall manage the location, design and intensity of development in order to foster continuance of natural hydrological processes, including promoting on-site retention of surface waters, natural return of surface water into the soil, and channeling excess stormwater volume primarily via natural grassy swales. Within one year of the effective date of the Plan, Land Development Regulation shall be adopted requiring the integration of natural storage areas and natural drainage courses into water management plans for new development and redevelopment. The use of stormwater injection wells shall be discouraged.

Policy 3-4.2.2 Ensure Local Regulatory Consistency

Prior to any revision of City Regulations affecting natural groundwater drainage areas and natural features, the City shall ensure coordination of watershed management plans and policies with appropriate local, regional, State and Federal agencies, including Monroe County, the South Florida Water Management District, the State Department of Environmental Protection, the Agricultural Extension Service, the United States Army Corps of Engineers and the U.S. Fish and Wildlife Service to ensure that the local regulatory framework is consistent with the planning objectives and regulations of the region.

Policy 3-4.2.3 Land Use Controls to Assist Implementation of Stormwater Management Program

The City shall continue to maintain Land Development Regulations to include land use controls, such as subdivision regulations, zoning and site plan review, erosion controls, water quality controls, landscaping and flood management regulations to assist in implementing the Stormwater Management Program. The programs shall be assessed annually and updated as necessary based on improved knowledge of problems, issues and best management practices.

Policy 3-4.2.4 Pursue the Development of Adequate Off-Site Surface Water Management Facilities

The City shall monitor, at regular intervals, the performance of existing off-site drainage facilities, evaluate existing and potential future problems or issues, and pursue the funding of necessary structural and non-structural system improvements for effective surface water management. All new developments shall provide an equitable contribution for off-site drainage improvements necessitated by the development.

Policy 3-4.2.5 Require Buffer Zones

Within one year of the effective date of the Plan, the City shall adopt Land Development Regulations that require new development to provide buffer zones adjacent to natural drainage ways and retention areas.

Policy 3-4.2.6 Manage Land Use in the Floodplain and Coastal Areas

Within one year of the effective date of the Plan, the City shall amend its Land Development Regulations to include performance criteria regulating development within floodplain and shoreline areas as a result of the Stormwater Management Master Plan.

GOAL 3-5 POTABLE WATER

The City shall support the FCAA in the fulfillment of its statutory obligation and authority to provide for a safe, high quality and adequate supply, treatment, distribution, and conservation of potable water to meet the needs of present and future residents. §163.3177(6)(c) F.S.

Objective 3-5.1 Adopt a 10-Year Water Supply Facilities Work Plan

The City of Marathon shall adopt a 10-Year Water Supply Facilities Work Plan in coordination with the Florida Keys Aqueduct Authority that identifies existing and proposed alternative water supply projects, traditional water supply projects, conservation methods and reuse necessary to meet the water supply needs of the City, consistent with the South Florida Water Management District Lower East Coast Regional Water Supply Plan and the Florida Keys Aqueduct Authority 20-Year Water Supply System Capital Improvement Master Plan. §163.3177(6)(c)3 F.S.

Policy 3-5.1.1 Ensure Existing Concurrency for Management System is Consistent with SFWMD's Lower East Coast Water Supply Plan

The City of Marathon shall ensure that the existing concurrency management system is consistent with the South Florida Water Management District *Lower East Coast Water Supply Plan* and the Florida Keys Aqueduct Authority 20-Year Water Supply System Capital Improvement Master Plan.

Policy 3-5.1.2: Interlocal Agreement with FCAA to Identify the Availability of Water Supply to Serve Existing and New Development.

By December 31, 2011 the City of Marathon shall enter into an interlocal agreement with the Florida Keys Aqueduct Authority to formulate a mechanism that will allow the FCAA and the City to identify the availability of water supply needed to serve existing and new development within the City, monitor the use of potable water, and implement such alternative water supply projects, traditional water supply projects, conservation projects and reuse necessary to meet the City's water supply needs.

Policy 3-5.1.3: Ensure Adequate Water Supply for New Development.

Prior to the issuance of a building permit for new development, the City shall receive written notification from its water utility, the Florida Keys Aqueduct Authority that adequate water to serve the new development will be available no later than the anticipated time that a certificate of occupancy is to be issued.

Policy 3-5.1.4: Update 10-Year Water Supply Facilities Work Plan.

The City of Marathon shall update the 10-Year Water Supply Work Plan every five years or within 18 months after the government board of the South Florida Water Management District approves an updated regional water supply plan.

Objective 3-5.2 Coordinate with Other Agencies to Prevent Sprawl

In coordination with the FKAA, the City shall continue to maximize the use of existing FKAA facilities and discourage urban sprawl. §163.3177(6)(a)9.b. F.S.

Policy 3-5.2.1 Ensure Consistency with the Plan

All FKAA facility expansions shall be consistent with the *Future Land Use Map*, the Goals, Objectives, and Policies of the Plan, and adopted levels of service.

Policy 3-5.2.2 Review and Comment on the FKAA Capital Improvements Plan

The City shall evaluate existing FKAA policies related to identification and adoption of capital improvements. The City shall review and comment on the FKAA Capital Improvements Plan for Plan consistency prior to inclusion in the annual Concurrency Management Report prepared in accordance with Capital Improvements Objective 7-1.3 and subsequent policies.

Policy 3-5.2.3 Cooperate with FKAA in implementing the FKAA Fee Schedule

The City shall cooperate with the FKAA, in the implementation of the FKAA fee schedule to assess charges for new units, meter fees, tapping fees, service charges and water main extension costs in order to promote maximizing the use of existing facilities and discouraging urban sprawl.

Objective 3-5.3 Coordinate with Agencies to Protect the Florida City Well field

The City shall coordinate with the FKAA and other agencies as applicable to establish effective mechanisms to ensure the protection of and availability of an adequate raw water supply at the Florida City Well field to meet the needs of the City. §163.3177(6)(c)2 F.S.

Policy 3-5.3.1 Ensure Renewal of Consumptive Use Permit

The City shall coordinate with the FKAA to ensure renewal of the Florida City Well field consumptive use permit issued by the SFWMD.

Policy 3-5.3.2 Provide Technical Assistance to the FKAA

The City shall provide technical assistance to the FKAA for the consumptive use permitting process. This technical assistance shall include providing information regarding future land use growth patterns, population trends, growth management policies and demand projections to ensure consistency between the FKAA permitting process and the City's Comprehensive Plan.

Policy 3-5.3.3 Provide Concurrency Management Report to FKAA

The City shall annually supply FKAA and SFWMD with the Concurrency Management Report prepared in accordance with Capital Improvements Plan. These annual reports shall include the

latest information on land use, population trends, and growth management policies as well as facility capacity analyses using data supplied by service providers.

Objective 3-5.4 Ensure Adequate Water Pressures

The City shall coordinate with the FKAA to ensure adequate operating pressures in the transmission and distribution system to meet the adopted level of service standard for the customer service connection. §163.3177(6)(c)2 F.S.

Policy 3-5.4.1 Coordinate with FKAA to Ensure Transmission Network

The City shall coordinate with the FKAA to ensure the FKAA shall continue to maintain the transmission network and construction improvements to provide a minimum operating pressure of 20 PSI at customer service.

Objective 3-5.5 Promote Water Conservation

The City shall assist the FKAA with water conservation and reuse efforts and assist in implementing the FKAA's Water Conservation Plan consistent with SFWMD's Water Shortage Plan and Water Conservation Program. §163.3177(6)(c)2 and §163.3177(6)(d)(2)b. F.S.

Policy 3-5.5.1 Implement a Florida Friendly Landscape Ordinance

The City shall adopt Land Development Regulations which implement Florida Friendly landscape practices, using the SFWMD Model Landscape Code for South Florida.

Policy 3-5.5.2 Promote Water Conservation Measures

The City and FKAA shall evaluate utility regulations, landscaping ordinances, and public education programs for implementation of water conservation measures.

Policy 3-5.5.3 Assist FKAA in Leak Detection Program

The FKAA shall, with input from the City, continue to implement a leak detection program and a conservation rate structure. The City and the FKAA, with input from the SFWMD and other affected organizations, shall formulate and initiate implementation of a joint public education program for water conservation.

Policy 3-5.5.4 Comply With SFWMD Water Use Restrictions

The City and the FKAA shall continue to comply with SFWMD water use restrictions when water shortages are declared by the SFWMD.

Policy 3-5.5.5 Encourage Use of Rainwater

The City shall permit and encourage rainwater storage facilities for all household uses such as but not limited to, irrigation, car, patio, and boat washing.

Policy 3-5.5.6 Re-Evaluate the Adopted Potable Water Levels of Service

As the water conservation measures are implemented, the City shall re-evaluate the adopted potable water levels of service through the evaluation and appraisal report process.

Policy 3-5.5.7 Water Conservation

The City shall permit and encourage the use of alternative sources for potable water. These sources may include, but not be limited to, a primary water source cistern, a reverse osmosis (RO) system, or any other approved alternative potable water source.