

# INFRASTRUCTURE ELEMENT

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## SANITARY SEWER SUB-ELEMENT

**GOAL I: THE PROVISION OF AN ENVIRONMENTALLY SAFE AND EFFICIENT WASTEWATER TREATMENT AND DISPOSAL SYSTEM.**

**Objective A: The City will maintain and expand as necessary its a centralized wastewater treatment and disposal system.**

**Policy A.1:** The City will use USDA/RD, EPA, FDEP Loan/Grant funds and local sources to maintain and expand the centralized wastewater treatment system as proposed in the Facility Plan.

**Objective B: The City will continuously monitor development to ensure that future development is consistent with established Level of Service Standards.**

**Policy B.1:** The City hereby adopts the following Level of Service Standards to determine when improvements and additions to the existing system are required. Level of Service Standards for sanitary sewer are defined as follows:

LOS

Type of Use	Average Flow	Peak Flow
Residential	60 gpd/p	90 gpd/p
Commercial	60 gpd*	90 gpd*
Industrial	200 gpd*	300 gpd

\* Per 1000 square

**Policy B.2:** The City will develop and implement methodologies for determining available capacity and demand of a proposed development upon the system.

**Policy B.3:** All improvements or expansions made to the sanitary sewer facility shall be consistent with Level of Service Standards.

**Policy B.4** New development will be strongly encouraged to locate in areas with existing public services and in conformance with specific standards.

**Policy B.5:** Development activities shall not be approved unless there is sufficient available capacity to sustain the following levels of service for wastewater treatment as established Policy 2.1.

**Policy B.6:** The City will develop and implement procedures for updating facility demand and capacity information as development orders are issued.

**Objective C:** **The City will maintain a five-year schedule of capital needs for sanitary sewer system facilities improvement, to be updated annually in conformance with the review process for the capital improvement Element of this plan.**

**Policy C.1:** The Director of Public Works will evaluate and rank capital improvement projects for the sanitary sewer system proposed for inclusion in the five-year schedule of capital improvements needs based upon the following priority system:

1. Correction of existing facilities deficiencies.
2. Scheduled replacement of existing facilities as they wear out.
3. Provision for future expansion to meet realistic projected needs.

## **SOLID WASTE SUB ELEMENT**

**GOAL II:** **THE PROVISION OF AN ENVIRONMENTALLY SAFE AND EFFICIENT SYSTEM FOR SOLID WASTE DISPOSAL.**

**Objective A:** **The City will continuously monitor development to ensure that future development is consistent with Level of Service Standards.**

**Policy A.1:** The City will cooperate with the County to implement Level of Service Standards which have been established for the Central Landfill.

**Policy A.2:** The City adopts the following level of service standard for solid waste disposal.

<u>Types of Use</u>	<u>LOS</u>
Residential	4 lbs. per capita per day
Commercial	1 lbs. per capita per day
industrial	2 lbs. per capita per day
Other users	.5 lbs. per capita per day

**Policy A.3:** The City will provide or contract for transportation to achieve adopted levels of service.

**Policy A.4:** Development activities shall not be approved unless there is sufficient available capacity to sustain the following levels of service for the solid waste as established in Policy A.2.

**Policy A.5:** The City will coordinate with Walton County to insure the correction of existing deficiencies and extension of or increase in the capacity of solid waste facilities serving Freeport.

**Policy A.6:** The Director of Public Works will evaluate and rank capital improvement projects for solid waste facilities and coordinate their upgrade with Walton County based upon the following priority system:

1. Correction of existing facilities deficiencies.
2. Scheduled replacement of existing facilities as they wear out.
3. Provision for future expansion to meet realistic projected needs.

## **DRAINAGE SUB ELEMENT**

### **GOAL III: PROVISION OF AN ENVIRONMENTALLY SAFE AND EFFICIENT DRAINAGE SYSTEM.**

**Objective A:**     **The City will conduct periodic assessments of drainage problems in order to include appropriate costs related to upgrading of the system in the Capital Improvements Element.**

**Policy A.1:** The City enforces stormwater management through its Land Development Code.

**Policy A.2:** The City will maintain an inventory of existing drainage conditions and set priorities for system improvements and identify funding sources and timing in the Capital Improvements Element.

**Policy A.3:** The City establishes the following Level of Service Standard for drainage:

<b>Design Storm Frequency and Water Quality Treatment Volumes</b>		
<b>Facility Treatment</b>	<b>Minimum Volume Requirement</b>	<b>Attenuation or Conveyance Design</b>
Bridges	N/A	50 Year
Canals, ditches, or culverts (for drainage external to a Development)	N/A	25 Year
Cross drains, storm sewers	N/A	10 Year
Roadside swales for drainage (internal to a Development)	N/A	10 Year
Detention/Retention basins (with positive outfall)	1" of Rainfall / 0.5" of Runoff	25 Year
Detention/Retention basins (without positive outfall)	1" of Rainfall / 0.5" of Runoff	100 Year

**Policy A.4:** The City will monitor compliance with Northwest Florida Water Management District and Department of Environmental Protection requirements for stormwater management.

**Policy A.5:** Development activities shall not be approved unless there is sufficient available capacity to sustain the following levels of service for the drainage system as established in Policy A.3.

**Objective B:** The City of Freeport will correct existing drainage facilities deficiencies on a continuing basis within 24 months of initial identification of the deficiency.

**Objective C:** The City of Freeport will coordinate the extension of or increase in the capacity of drainage facilities to meet future needs with the Florida Department of Transportation, the Northwest Florida Water Management District, and the Walton County Road Department.

**Policy C.1:** The City will identify the responsible agency for drainage deficiencies when it has determined that they are out of the City's jurisdiction and work to ensure that the responsible agency addresses the deficiency.

**POTABLE WATER SUB ELEMENT**

**GOAL IV: TO CONTINUE TO PROVIDE HIGH QUALITY POTABLE WATER.**

**Objective A:** Continuously monitor development to ensure that future development is consistent with established Level of Service Standards.

**Policy A.1:** The City will work to implement Level of Service Standards to determine improvements and additions to the existing system. Level of Service Standards for potable water are defined as follows:

LOS

Type of Use	Average Flow	Peak Flow
Residential	65 gpd/p	100 gpd/p
Commercial	65 gpd*	100 gpd/p
Industrial	200 gpd*	300 gpd*
	*per 1,000 square feet	
Storage capacity		24 hour reserve
Pressure		20 psi to user

**Policy A.2:** The City will develop and implement methodologies for determining available capacity and demand of a proposed development upon the system in accordance with the Concurrency Management System in the Future Land Use Element.

**Policy A.3:** All improvements or expansions made to the facility shall be consistent with Level of Service Standards and monitored in accordance with the Concurrency Management System.

**Policy A.4:** Development activity shall not be approved unless there is sufficient available capacity to sustain the following levels of service for potable water as established Policy A.1.

**Policy A.5:** The City will develop and implement procedures for updating facility demand and capacity information as development orders are issued.

**Objective B:** **The City will maintain a five-year schedule of capital improvement needs for water system facilities, to be updated annually in conformance with the review process for the Capital Improvement Element of this plan.**

**Policy B.1:** The Director of Public Works will evaluate and rank capital improvement projects for the potable water system proposed for inclusion in the five-year schedule of capital improvements needs based upon the following priorities.

1. Correction of existing facilities deficiencies.
2. Scheduled replacement of existing facilities as they wear out.
3. Provision for future expansion to meet realistic projected needs.

**Objective C:** **The City of Freeport will correct existing potable water facilities deficiencies on a continuing basis within 24 months of initial identification of the deficiency.**

**Objective D:** The City of Freeport will coordinate the extension of or increase in the capacity of potable water facilities to meet future needs with Walton County and the Northwest Florida Water Management District.

**Policy D.1:** The City will seek joint funding through the USDA/RD, Community Development Block Grant and coordinate such funding and construction with Walton County and the Northwest Florida Water Management District.

**Objective E:** By 2010, reduce potable water demand by 10 percent of the 2000 demand.

**Policy E.1:** The City will require that all new development install water conservation devices.

**Policy E.2:** The City will require retrofitting of water conservation devices.

#### **NATURAL GROUNDWATER AQUIFER RECHARGE SUB-ELEMENT**

**GOAL V:** IDENTIFY AND PROTECT NATURAL GROUNDWATER AQUIFER RECHARGE AREAS WITHIN FREEPORT IN ORDER TO INSURE AVAILABILITY OF SUFFICIENT POTABLE WATER FOR RESIDENTIAL, BUSINESS AND AGRICULTURAL USES FOR BOTH THE CITY AND DOWNSTREAM LANDS.

**Objective A:** The City of Freeport will adopt regulations to govern development in natural groundwater aquifer recharge areas in its Land Development Code in order to protect the critical function of these areas in storing and cleansing water for the vital water cycle.

**Policy A.1:** The City of Freeport will restrict development in natural groundwater aquifer recharge areas to protect the storage and cleansing function of these areas.