

# INFRASTRUCTURE ELEMENT

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**Goals, Objectives and Policies**

**GOAL #1:** NEEDED PUBLIC FACILITIES SHALL BE PROVIDED IN A MANNER WHICH PROTECTS INVESTMENTS IN EXISTING FACILITIES AND PROMOTES ORDERLY COMPACT URBAN GROWTH. [9J-5.011(2)(a)]

**GOAL #2:** THE CITY OF TITUSVILLE SHALL PROVIDE SANITARY SEWER, SOLID WASTE, DRAINAGE AND POTABLE WATER FACILITIES AND SERVICES TO MEET EXISTING AND PROJECTED DEMANDS IDENTIFIED IN THIS PLAN.

**OBJECTIVE #1:** BY 1992, THE CITY SHALL IMPLEMENT PROCEDURES TO ENSURE THAT AT THE TIME A DEVELOPMENT PERMIT IS ISSUED, ADEQUATE FACILITY CAPACITY IS AVAILABLE OR WILL BE AVAILABLE WHEN NEEDED TO SERVE THE DEVELOPMENT/ACCOMMODATE THE NEEDS OF NEW GROWTH. [9J-5.011(2)(b)(2)]

**Policy #1:** The following level of service standards are hereby adopted, and shall be used as the basis for determining the availability of facility capacity and the demand generated by development/future growth. [9J-5.011(2)(c)(2)(a through d)] These levels of service standards are based on information contained in the data and analysis reports for this element of the comprehensive plan.

Facility/Service Area	Acceptable Level of Service Standard
<u>A. Sanitary Sewer Facilities</u>	<u>Average Sewage Generation Rate</u>
North Service Area	80 gallons/capita/day
South Service Area	80 gallons/capita/day
<u>B. Potable Water Facilities</u>	<u>Average Water Consumption Rate</u>
*Titusville Service Area	125 gallons/capita/day
(includes area outside City limits which have service agreements with the City.)	Softening & filtration: 16 MGD
	Pumping capacity: 16 MGD
	Storage capacity: 3.9 MGD
<del>(The City of Titusville desires to reduce its consumption rate by adopting a Water Conservation Plan)</del>	
<u>C. Drainage Facilities</u>	<u>Design Storm</u>
City-wide	25-year frequency, 24-hour duration for sites over 1/2 acre.
For areas other than areas of critical concern	25-year, 24-hour storm or retain first inch over entire property.
<u>D. Solid Waste Facilities</u>	<u>Acceptable Level of Service</u>
Collection (City-wide)	6.30 lbs/capita/day
Disposal (LOS set by utilizing Brevard County's methodology)	6.30 lbs/capita/day

~~(The City of Titusville desires to reduce its generation rate through recycling, education and conservation.)~~

**Policy #2:** In order to assure that the above identified level of service standards are maintained, procedures/systems for determining available capacity and demand shall be developed by 1992 and these procedures shall incorporate appropriate peak demand coefficients for each facility and for the type of development proposed. [9J-5.011(2)(b)(2)]

**Strategy #1:** The Public Works/Engineering Department and Community Development Department shall jointly develop procedures to update facility demand and capacity information as development orders or permits are issued. [9J-5.011(2)(b)(2)]

**Policy #3:** All improvements for replacement, expansion or increase in capacity of facilities shall be compatible with the adopted level of service standards for the facilities. [9J-5.011(2)(c)(1)]

**Policy #4:** The City shall coordinate with and encourage recycling and resource recovery efforts in the County.

**OBJECTIVE #2:** EXISTING DEFICIENCIES IN THE PROVISION OF PUBLIC INFRASTRUCTURE AS IDENTIFIED IN THE ELEMENTS OF THE COMPREHENSIVE PLAN SHALL BE ELIMINATED THROUGH THE SCHEDULE OF IMPROVEMENTS CONTAINED IN THE CAPITAL IMPROVEMENTS ELEMENT. [9J-5.011(2)(b)(1)]

**Policy #1:** The level of service established in the Infrastructure Element of the Comprehensive Plan and listed under Objective 1, Policy 1, above shall be used to determine existing deficiencies. [9J-5.011(2)(c)(1)]

**Policy #2:** Projects shall be undertaken in accordance with the schedule of improvements provided in the Capital Improvements Element of this Plan. [9J-5.011(2)(c)(1)]

**OBJECTIVE #3:** THE CITY SHALL MAINTAIN A FIVE-YEAR SCHEDULE OF CAPITAL IMPROVEMENTS NEEDS FOR PUBLIC FACILITIES, TO BE UPDATED ANNUALLY IN CONFORMANCE WITH THE REVIEW PROCESS FOR THE CAPITAL IMPROVEMENTS ELEMENT OF THIS PLAN. [9J-5.001(2)(b)(2 and 3)]

**Policy #1:** Proposed capital improvement projects will be evaluated and ranked according to the following priority level guidelines: [9J-5.011(2)(c)(1) and 9J-5.011(2)(b)(3)]

**Level One:** whether the project is needed to protect public health and safety, to fulfill the City's legal commitment to provide facilities and services, or to preserve or achieve full use of existing facilities and correct existing deficiencies;

**Level Two:** whether the project increases efficiency of use of existing facilities, prevents or reduces future improvement costs, provides service to development areas lacking full service or promotes in-fill development; and

**Level Three:** whether the project represents a logical extension of facilities and services within a designated service area.

**Policy #2:** Projects shall be undertaken in accordance with the schedule provided in the Capital Improvements Element of the Plan. [9J-5.011(2)(b)(2)]

**Policy #3:** The annual work program of the Public Works/Engineering Department shall be reviewed to ensure that projects are scheduled to minimize disruption of services and duplication of labor and to maintain service levels for all facilities. [9J-5.011(2)(b)(2)]

**Policy #4:** Provision of centralized sanitary sewer and potable water service shall be consistent with the City's growth policies stated in the Land Use Element of this Plan and the Future Land Use Map, and to areas where the City has legal commitments to provide facilities and services as of the date of adoption of this plan. [9J-5.011(2)(b)(3) and 9J-5.04(b)(3)]

**Policy #5:** The use of common corridors for utilities shall be encouraged.

**OBJECTIVE #4:** EXISTING DEFICIENCIES WILL BE CORRECTED BY UNDERTAKING THE FOLLOWING PROJECTS: [9J-5.011(2)(b)(1)]

- A) Construction of the Blue Heron Treatment Facility;
- B) North Sewer Plant Upgrade;
- C) Upgrade of Lift Stations as identified in the element; and
- D) City-wide drainage improvement.

**OBJECTIVE #5:** AS OUTLINED IN THE FEASIBILITY STUDY CONDUCTED BY POST BUCKLEY, PROJECTED DEMANDS THROUGH THE YEAR 2000 WILL BE MET BY UNDERTAKING THE FOLLOWING PROJECTS: [9J-5.011(2)(b)(2)]

**SANITARY SEWER**

- A) New subregional Wastewater Treatment Plant; collection and disposal system (proposed Gateway Plant)

**SOLID WASTE**

- A) Maintenance, repair and replacement of rolling stock for collection purposes; and
- B) The County has identified several existing and future deficiencies/needs for land fill sites and resource recovery in their Solid Waste Element. The City of Titusville will coordinate and participate with Brevard County, to the greatest extent possible.

**STORMWATER MANAGEMENT AND AQUIFER PROTECTION**

- A) Master drainage and stormwater utility study; and
- B) Completion of city-wide drainage improvements as proposed in the Freshwater Management Study.

**POTABLE WATER**

- A) Alternative source of Potable Water Study;
- B) Construction of a ground storage tank;
- C) Construction of a 500M gallon elevated storage tank;
- D) Various water line extensions/improvements as identified in the element; and
- E) Water Reuse Program

**Policy #1:** The annual summaries of facility capacity and demand information prepared by the department heads shall be used to evaluate the need for the timing and location of projects to extend or increase the capacity of existing facilities. [9J-5.011(2)(b)(1) and 9J-5.011(2)(c)(1)]

**Policy #2:** All projects required to meet projected demands for the years 1992 through 2000 shall be scheduled in the Capital Improvements Element of this plan in accordance with the requirements of Section 163.3177(2), F.S. and 9J-5.011(2)(b)(2).

**OBJECTIVE #6:** THE CITY WILL COORDINATE WITH THE COUNTY IN THE COLLECTION, TRANSFER AND DISPOSAL OF SOLID WASTE AND IN THE DEVELOPMENT OF RESOURCE RECOVERY PROGRAMS.

**Policy #1:** The City will coordinate with the County in analyzing current and projected solid waste demand and facility needs for the five and ten year planning periods.

**Policy #2:** The general performance of the solid waste facility, adequacy of existing level of service, and impacts upon adjacent natural resources shall be analyzed in coordination with the County since the City does not have any city-owned or operated solid waste facilities.

**GOAL #3:** ADEQUATE STORMWATER MANAGEMENT WILL BE PROVIDED TO AFFORD REASONABLE PROTECTION FROM FLOODING AND TO PREVENT DEGRADATION OF QUALITY OF RECEIVING WATERS. [9J-5.011(2)(a)]

**OBJECTIVE #1:** BY 1991, THE STORMWATER DRAINAGE REGULATIONS CONTAINED IN THE CITY'S LAND DEVELOPMENT CODE WILL PROVIDE FOR PROTECTION OF NATURAL DRAINAGE FEATURES. [9J-5.011(2)(b)(5)]

**Policy #1:** The Public Works/Engineering Department, when planning transportation projects, will prepare amendments to the stormwater drainage provisions of the City's development regulations to ensure that:

- A) New developments are required to manage runoff from the 25-year frequency, 24-hour duration design storm event on-site so that post-development runoff rates, volumes, and pollutant loads do not exceed pre-development conditions;
- B) Stormwater engineering, design and construction standards for on-site systems are provided;
- C) Erosion and sediment controls are used during development; and
- D) Periodic inspection and maintenance of on-site systems and ensured as a condition of system permit renewal.

**Policy #2:** The City will study the feasibility of instituting a stormwater utility fee to: [9J-5.011(2)(c)(4)]

- A) Acquire required drainage easements;
- B) Support revenue bonds for required drainage improvements within each basin; and
- C) Fund operation and maintenance operations.

**Policy #3:** The City will initiate a maintenance program to ensure that major drainage systems are inspected and receive required maintenance on at least an annual basis. [9J-5.011(2)(c)(4)]

**GOAL #4:** THE FUNCTIONS OF NATURAL GROUNDWATER AQUIFER RECHARGE AREAS WITHIN THE CITY WILL BE PROTECTED AND MAINTAINED THROUGH THE IMPLEMENTATION OF THE CITY'S AQUIFER PROTECTION ORDINANCE. [9J-5.011(2)(a)]

**OBJECTIVE #1:** BY 1989, THE CITY LAND DEVELOPMENT REGULATIONS WILL PROVIDE FOR MAINTENANCE OF AQUIFER RECHARGE AREA FUNCTIONS. [9J-5.011(2)(b)(5)]

**Policy #1:** The subdivision regulations shall be amended to include standards for inclusion of recharge areas in open space preservation standards. [9J-5.011(2)(c)(4)]

**Policy #2:** The stormwater drainage regulations shall be amended to require retention of stormwater runoff to maximize groundwater recharge. [9J-5.011(2)(c)(4)]

**Policy #3:** The City will coordinate with local, state, and federal agencies to achieve regional aquifer recharge protection objectives. [9J-5.011(2)(c)(94)]

**GOAL #5:** THE CITY OF TITUSVILLE SHALL ESTABLISH AND UTILIZE POTABLE WATER PROTECTION/CONSERVATION STRATEGIES AND TECHNIQUES. [9J-5.011(a)(4)]

**OBJECTIVE #1:** BY 1989, THE CITY SHALL COMPLETE LAND DEVELOPMENT REGULATIONS WHICH PROVIDE FOR AND CODIFY EXISTING ORDINANCES RELATING TO AQUIFER PROTECTION. [9J-5.011(2)(b)(4)]

**Policy #1:** Areas with the greatest recharge potential shall be classified as prime recharge areas and referred to as the "area of critical concern". [9J-5.011(c)(3)]

**Policy #2:** Land use in the "area of critical concern" shall be regulated to ensure the protection of the groundwater and to facilitate recharge. [9J-5.011(c)(3)]

**Policy #3:** Priority will be given to identified prime recharge areas in the City's land acquisition program. [9J-5.011(c)(3)]

**OBJECTIVE #2:** BY 1990, THE CITY OF TITUSVILLE SHALL ADOPT A WATER CONSERVATION PLAN AIMED TOWARD THE ENHANCEMENT AND PROTECTION OF THE CITY'S SOLE SOURCE AQUIFER.

**Policy #1:** The City shall continue the moratorium on "sprinkler only" meters. [9J-5.011(c)(3)]

**Policy #2:** The City shall require low water use showers and toilets for all construction within the City and building outside the City which use City water. [9J-5.011(2)(c)(3)]

**Policy #3:** The City shall require wells for irrigation for all new construction. [9J-5.011(2)(c)(3)]

**Policy #4:** The City shall strengthen its Landscape Ordinance to require the use of native vegetation for landscaping in developments where it is now encouraged and to encourage its use where it is currently exempt. [9J-5.011(2)(c)(3)]

**Policy #5:** The City land development regulations shall provide incentives to developers to compost and mulch as a method of water conservation and which will also reduce solid waste disposal costs. [9J-5.011(2)(c)(3)]