

CITY OF WAUCHULA

2030 Comprehensive Plan



Adopted June 13, 2011

Infrastructure Element

**INFRASTRUCTURE ELEMENT:
SANITARY SEWER, SOLID WASTE,
STORMWATER MANAGEMENT, POTABLE WATER AND
NATURAL GROUNDWATER AQUIFER RECHARGE
Goal, Objectives, and Policies**

City of Wauchula 2030 Comprehensive Plan

GOAL 1: IT SHALL BE A GOAL OF THE CITY OF WAUCHULA TO PROVIDE ITS CITIZENS PUBLIC SERVICES IN SUCH A MANNER THAT THE DELIVERY OF THESE SERVICES PROTECTS INVESTMENTS THROUGH FISCAL RESPONSIBILITY, PROMOTES ORDERLY GROWTH AND REDEVELOPMENT OF THE CITY, AND ENSURES THE PROTECTION AND PRESERVATION OF THE ENVIRONMENT.

OBJECTIVE 1.1: CORRECTING EXISTING FACILITY DEFICIENCIES AND MAXIMIZING CURRENT FACILITIES

THE CITY OF WAUCHULA SHALL CORRECT ANY EXISTING DEFICIENCIES IN THE MUNICIPAL WATER AND WASTEWATER SYSTEMS, THROUGH A CONTINUED PROGRAM OF REGULAR INSPECTION, MAINTENANCE, RENOVATION, AND REPLACEMENT. [9J-5.011(2)(B)1]

Measurable Targets: Number of inspections of wastewater and potable water facilities; number of deficiencies identified; number of deficiencies corrected.

Policy 1.1.1: The City shall continue a program to replace or repair segments of the water and wastewater systems as necessary to maintain the level of service standards established in this plan. [9J-5.011(2)(c)1]

Policy 1.1.2: The City shall continue its current program to prioritize necessary replacement, correct any deficiencies, and provide for future needs of the City for all municipal services. [9J-5.011(2)(c)1]

OBJECTIVE 1.2: EXPANSION OF CURRENT FACILITIES TO MEET FUTURE NEEDS

THE CITY OF WAUCHULA WILL INCREASE FACILITY CAPACITY OR SERVICE AREA AS NECESSARY TO ENSURE THE PROVISION OF SERVICES AT OR ABOVE THE ESTABLISHED LEVEL OF SERVICE FOR ALL MUNICIPAL SERVICES AND FACILITIES AVAILABLE TO ACCOMMODATE FUTURE DEMANDS. [9J-5.011(2)(B)2,3]

Measurable Targets: Meet or exceed the adopted level of service standards of all municipal services and facilities (measured by the CMS) to accommodate future growth.

Policy 1.2.1: The City will extend municipal sanitary sewer or potable water facilities only if such expansion will not adversely impact the ability of the City to provide adequate service to the existing service area. [9J-5.011(2)(c)1]

Policy 1.2.2: The City shall approve extension of the geographical area of service for municipal sanitary sewer and potable water facilities into new developments only at the expense of the developer.

Policy 1.2.3: The City will continue to ensure, through land development regulations and the City's concurrency management system, that no development order will be issued that would result in a level of service deficiency. [9J-5.001(2)(c)1]

Policy 1.2.4: The extension of municipal sanitary sewer and potable water facilities beyond the City limits of Wauchula shall be extended to those areas suitable for higher densities and intensities of use, and to discourage urban sprawl.

Policy 1.2.5: All improvements, including repair, maintenance and expansion of municipal sanitary wastewater and potable water facilities shall be included in the 5-Year Schedule of Capital Improvements. [9J-5.001(2)(c)1]

OBJECTIVE 1.3: DESIGN/OPERATIONAL CRITERIA AND LEVEL OF SERVICE STANDARDS

THE CITY SHALL DESIGN/OPERATE AND MAINTAIN LEVEL OF SERVICE STANDARDS FOR ALL MUNICIPAL SERVICES, AS ESTABLISHED BY THIS COMPREHENSIVE PLAN. [9J-5.011(2)(B)2]

Measurable Targets: Meet or exceed adopted Level of Service standards during the planning period; number of deficiencies corrected to meet or exceed the water quality standards adopted by reference in Chapter 62-25, F.A.C., for all stormwater management facilities; number of times the system dropped below the operational minimums; number of variances approved to the stormwater management criteria.

Policy 1.3.1: The City establishes the following Levels of Service:

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|--|--|
| Sanitary Sewer | 170 gallons of treatment per person per day |
| Potable Water | Residential: 138 gallons per person per day. Non-residential: 380 gallons per day per equivalent residential unit |
| Solid Waste | Disposal of 4.28 pounds per person per day |
| Stormwater Management Facilities for <i>existing</i> development | Designed for a 3-year, 24-hour storm event |
| Stormwater Management Facilities for <i>new</i> development | Designed for a 25-year, 24-hour storm event |

[9J-5.011(2)(b)(2)a]

Policy 1.3.2: The City establishes minimum design and operational criteria for public supply potable water facilities of:

| | |
|------------------|---------------------------|
| Pumping Capacity | 2.160 million gallons |
| Storage Capacity | 550,000 gallons |
| Pressure | 50 pounds per square inch |

[9J-5.011(2)(c)(2)d]

Policy 1.3.3: Stormwater management facilities shall be designed to accommodate the 25-year, 24-hour design storm to meet the water quality and quantity standards that follow:

- a: Water Quantity: Peak post-development runoff shall not exceed peak pre-development runoff rates.
- b: Water Quality: Treatment of stormwater runoff shall be required for all development, redevelopment and, when expansion occurs,

existing developed areas. The stormwater treatment system or systems can be project specific, serve sub-areas within the City or be a system to serve the entire City. Regardless of the area served and in accordance with Chapter 62-25, F.A.C., the stormwater treatment systems must provide a level of treatment for the runoff from the first one (1) inch of rainfall for projects in natural drainage basins of 100 acres or more, or as an option, for projects or project subunits in natural drainage basins of less than 100 acres, the first one-half (1/2) inch of runoff, from the design storm in accordance with Rule 62-25, F.A.C. in order to meet the receiving water quality standards of Rule 62-302, section 62-302.500, F.A.C. Stormwater discharge facilities shall be designed so as to not lower the receiving water quality or degrade the receiving water body below the minimum conditions necessary to maintain their classifications as established in Chapter 62-302, 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 citations, including project size thresholds, do not apply for concurrency determinations.

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 run-off from the entire improved area or subdivision to degrade receiving water bodies and their water quality as stated above. [9J-5.011(2)(c)2.c]

Policy 1.3.4: No development permit will be issued if it will result in the inability of the City to maintain the Levels of Service at or above the levels established in this plan. [9J-5.015(2)(b)3]

OBJECTIVE 1.4: CONSERVATION OF POTABLE WATER RESOURCES

**THE CITY OF WAUCHULA SHALL CONSERVE WATER RESOURCES.
[9J-5.011(2)(B)4]**

Measurable Targets: Number of gallons of water saved per capita per year; lowering of the LOS for potable water.

Policy 1.4.1: The City shall conduct audits of the municipal water system to determine areas that may be in need of repair and may be contributing to increased water consumption through leaking pipes, and prioritize accordingly. [9J-5.011(2)(c)3]

- Policy 1.4.2:** The City shall encourage the use of low volume plumbing fixtures for all new construction, to be enforced as part of the City's building code and other appropriate permitting regulations. [9J-5.011(2)(c)3], also [553.14, F.S.]
- Policy 1.4.3:** The City will cooperate with the Southwest Florida Water Management District in regard to any future water shortage conservation plans or strategies. [9J-5.0011(2)(c)(3)]
- Policy 1.4.4:** The City shall encourage the use of Xeriscape landscaping techniques for all new development. [9J-5.011(2)(c)3]
- Policy 1.4.5:** As part of the City's 10-Year Water Supply plan, potable water conservation measures shall be established in the Land Development Code consistent with rules and recommendations of SWFWMD and SWUCA.
- Policy 1.4.6:** The City shall encourage conservation of water sources by the enforcement of water restrictions of customers, monitoring of excessive water uses and other active measures to ensure that water is conserved and non-compliance is corrected, maintaining and implementing a water-conservation educational program, adoption of watering restrictions and requirement that reclaimed (non potable) water be used by all customers when made available by the water utility provider.
- OBJECTIVE 1.5: AQUIFER PROTECTION**
- PROTECT GROUNDWATER RECHARGE AREAS WITHIN THE CITY'S JURISDICTION FROM ANY AVOIDABLE CONTAMINATION OR DAMAGE. [9J-5.011(2)(B)5]**
- Measurable Targets:** Completion of survey of all hazardous uses and uses that produce hazardous wastes within 400 feet of all wellheads; degree of elimination of any hazardous wastes within 200 feet of wellheads; number of hazardous uses or sources of contamination eliminated near wells.
- Policy 1.5.1:** The City will protect areas of "prime recharge" to the Floridan aquifer and delineate said areas in the Comprehensive Plan Infrastructure Map Series where such areas are designated by the Southwest Florida Water Management District. [9J-5.0011(2)(c)(4)]

- Policy 1.5.2:** The City shall continue to enforce its land development regulations that include restrictions on land use activities known to adversely affect groundwater, particularly in areas of known high aquifer recharge. These regulations further establish criteria regarding the location and extent of impervious surfaces, based on pollution potential to surface and ground waters. [9J-5.011(2)(c)4]
- Policy 1.5.3:** The City will keep an updated list of all hazardous wastes and uses within 400 feet of every wellhead.
- Policy 1.5.4:** Continue to enforce the City's Land Development Regulations related to minimum development standards for retention and detention areas and for the amount of impervious surface material permitted in developments. The City shall encourage the use of porous pavement and modular pavement for new development located in identified high aquifer recharge areas. [9J-5.011(2)(c)4]
- OBJECTIVE 1.6:** PROTECTION OF NATURAL DRAINAGE FEATURES AND MAN-MADE DRAINAGE STRUCTURES
- PROTECT NATURAL DRAINAGE FEATURES, MAN-MADE DRAINAGE STRUCTURES AND THE PEACE RIVER FROM RECEIVING STORMWATER RUNOFF THAT COULD DEGRADE WATER QUALITY IN THE CITY OR DOWNSTREAM FROM THE CITY. [9J-5.011(2)(B)5]
- Measurable Targets:** Monitor the City's stormwater discharge to assess compliance with standards of the Florida Department of Environmental Protection; number of site plans modified or rejected due to impacts on drainage features or structures, or impacts to the Peace River; number of inspections of retention facilities and amount of clean-up done.
- Policy 1.6.1:** The City shall institute a monitoring program to eliminate point and non-point sources of pollution to the Peace River. [9J-5.013(2)(c)6]
- Policy 1.6.2:** The City shall continue its participation with the Charlotte Harbor National Estuary Program to ultimately protect the Peace River from point and non-point sources of pollution so as to protect the water quality and potable water supply of persons downstream from the City. [9J-5.013(2)(c)6]
- Policy 1.6.3:** The City will enforce land development regulations to restrict land use activities which may adversely affect natural drainage features and man-made drainage structures. Submitted site plans shall include an

identification and analysis of natural drainage features and man-made drainage structures, and the impacts of proposed development on drainage and topographic features. [9J-5.011(2)(c)4]

Policy 1.6.4: The City shall regulate stormwater run-off for new development through the enforcement of performance standards for design and treatment of stormwater facilities at least as stringent as those specified in Section 62-25, F.A.C. [9J-5.0011(2)(c)4]

Policy 1.6.5: The City shall continue to participate in the Federal Flood Insurance Program.

Policy 1.6.6: The City shall institute a program to remove sediments from retention/detention ponds as well as silt and vegetation from ditches and storm sewers to ensure the design capacity of these facilities is maintained. This Policy shall only be applicable to facilities owned or maintained by the City of Wauchula. [9J-5.0011(2)(c)4]

Policy 1.6.7: The City shall ensure that stormwater management facility improvements requiring correction shall be included in the 5-Year Schedule of Capital Improvements (CIP).

Policy 1.6.8: The City shall only extend stormwater management facilities to new areas if such an extension will not exceed the present ability of the City to provide protection from flooding to presently served areas, consistent with the established level of service standard for new stormwater management facilities. [9J-5.011(2)(c)1]

OBJECTIVE 1.7: PROVISION FOR COLLECTION OF SOLID WASTE

THE CITY OF WAUCHULA WILL PROVIDE FOR THE ENVIRONMENTALLY SOUND COLLECTION AND DISPOSAL OF SOLID WASTE TO MEET THE NEEDS OF THE RESIDENTS OF THE CITY. [9J-5.011(2)(B)1,2,5]

Measurable Targets: All residents of the City receive service.

Policy 1.7.1: The City of Wauchula shall ensure that all solid waste within the City limits is collected. [9J-5.011(2)(c)1]

Policy 1.7.2: The City will ensure that the necessary solid waste facilities to support development are in place concurrent with the impacts of development. [9J-5.011(2)(c)1]

OBJECTIVE 1.8: REDUCING THE VOLUME OF THE MUNICIPAL SOLID WASTE STREAM

THE CITY OF WAUCHULA, IN COOPERATION WITH HARDEE COUNTY, SHALL CONTINUE TO RECYCLE AT LEAST THIRTY PERCENT OF THE TOTAL VOLUME OF SOLID WASTE GENERATED WITHIN THE CITY. THIS PROGRAM WILL INCLUDE THE SEPARATION OF ALUMINUM, PAPER, GLASS, AND OTHER MATERIALS TO COMPLY WITH THE STATE MANDATED REQUIREMENTS. [9J-5.011(2)(B)3]

Measurable Targets: Continued recycling and recycling education to keep the solid waste stream below that which was required by the State by 1994.

Policy 1.8.1: The City will maintain its current Level of Service of 4.28 pounds per person per day for solid waste by promoting and educating its citizens about recycling. [9J-5.0011(2)(c)1]

GOAL 2: ENSURE THE PROVISION OF ADEQUATE WATER RESOURCES TO MEET THE NEEDS OF ALL RESIDENTS, BUSINESSES, AND VISITORS IN WAUCHULA.**OBJECTIVE 2.1: THE CITY OF WAUCHULA SHALL PROVIDE SUFFICIENT AMOUNTS OF SAFE, HIGH QUALITY WATER TO MEET THE NEEDS OF CURRENT AND FUTURE USERS THROUGH THE YEAR 2018.**

Measurable targets: average per capita water use within adopted LOS; amount of water conserved to reduce overall water use.

Policy 2.1.1: The City shall annually assess the performance and effectiveness of its Ten Year Water Supply Plan and update the status of project development and potential funding sources, consistent with the corresponding SFWMD Regional Water Supply Plans and the policies of this Comprehensive Plan in order to maximize the use of existing facilities and provide for future needs.

Policy 2.1.2: The City shall maintain water sources capable of supplying an average of 138 gallons per person per day.

Policy 2.1.3: Through its concurrency review process, sufficient sources of water shall be in place, or scheduled to be in place to serve new development. Prior to issuance of a building permit, the City shall verify concurrence that its

water system can provide an adequate supply of potable water to serve a new development or construction by the anticipated date of issuance of a certificate of occupancy or its functional equivalent signifying that the impact of the development may occur.

Policy 2.1.4: The City shall conserve water sources by continuing to require all new development and redevelopment to utilize native drought tolerant landscaping, water conserving plumbing fixtures, and efficient irrigation design.

Policy 2.1.5: Upon agreement with the Water Management District, allow transfers of consumptive use permits to the City where existing agricultural wells are abandoned and plugged upon conversion to urban development.

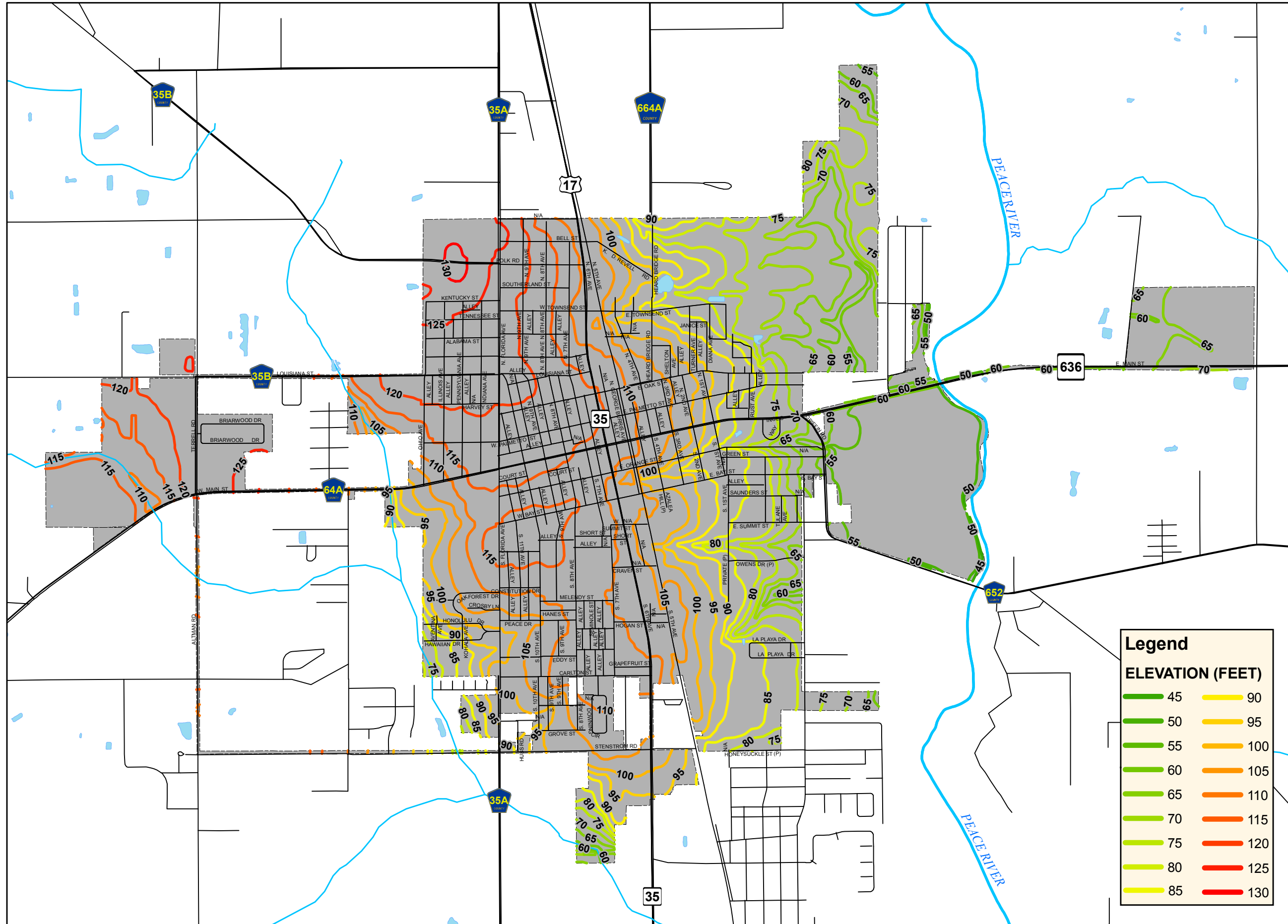
OBJECTIVE 2.2: **THE CITY OF WAUCHULA SHALL IDENTIFY AND DEVELOP ALTERNATIVES TO TRADITIONAL GROUNDWATER SOURCES FOR MEETING FUTURE WATER NEEDS.**

Measurable targets: Amount of water reuse to offset water use; identification of other sources

Policy 2.2.1: In addition to groundwater, the City's future water needs shall be supplied from a variety of alternative sources including reclaimed water, and surface water where permitted and State regulated.

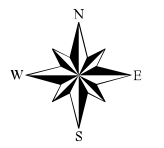
Policy 2.2.2: The City shall consider expanding or reallocating its water reuse capabilities for urban and public irrigation, with the target of reducing the proportion of potable water used for irrigation citywide by fifteen percent (15%) by 2018.

INF MAP 1 - CITY OF WAUCHULA - GENERALIZED TOPOGRAPHY MAP



General Legend

- Roads
- Parcels
- Wauchula City Limits



1:20,000
1 inch = 1,667 feet

Miles



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Legend

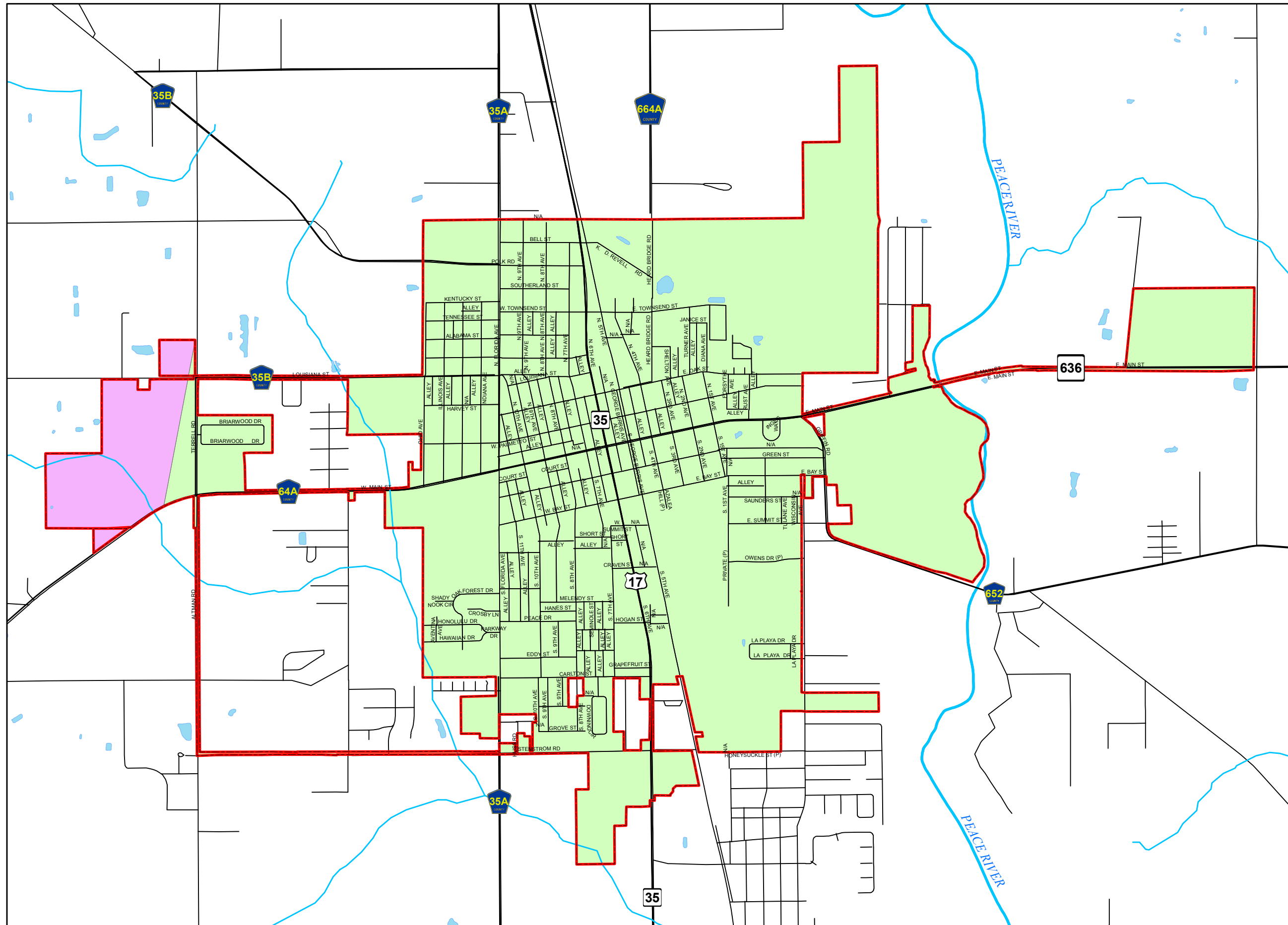
ELEVATION (FEET)

| | | | |
|--|----|--|-----|
| | 45 | | 90 |
| | 50 | | 95 |
| | 55 | | 100 |
| | 60 | | 105 |
| | 65 | | 110 |
| | 70 | | 115 |
| | 75 | | 120 |
| | 80 | | 125 |
| | 85 | | 130 |

DISCLAIMER:
The information on this map should be considered conceptual and subject to change. This map is not a survey.

Data Sources:
Hardee County Property Appraiser
City of Wauchula
Florida Department of Transportation
Central Florida Regional Planning Council
Topography Data: Florida Water Management Districts & USGS, FGDL

INF MAP 2 - CITY OF WAUCHULA - FLORIDAN AQUIFER RECHARGE AREAS MAP



Legend

- Roads
- ▭ Parcels
- ▭ Wauchula City Limits
- ▭ DISCHARGE/LESS THAN 1
- ▭ RECHARGE/LESS THAN 1



1:20,000
1 inch = 1,667 feet

Miles



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