



# CITY OF WESTLAKE

## COMPREHENSIVE PLAN



LIVE



WORK



PLAY

2018

# CITY OF WESTLAKE



TECHNICAL  
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Data & Analysis

# ADMINISTRATIVE

2018



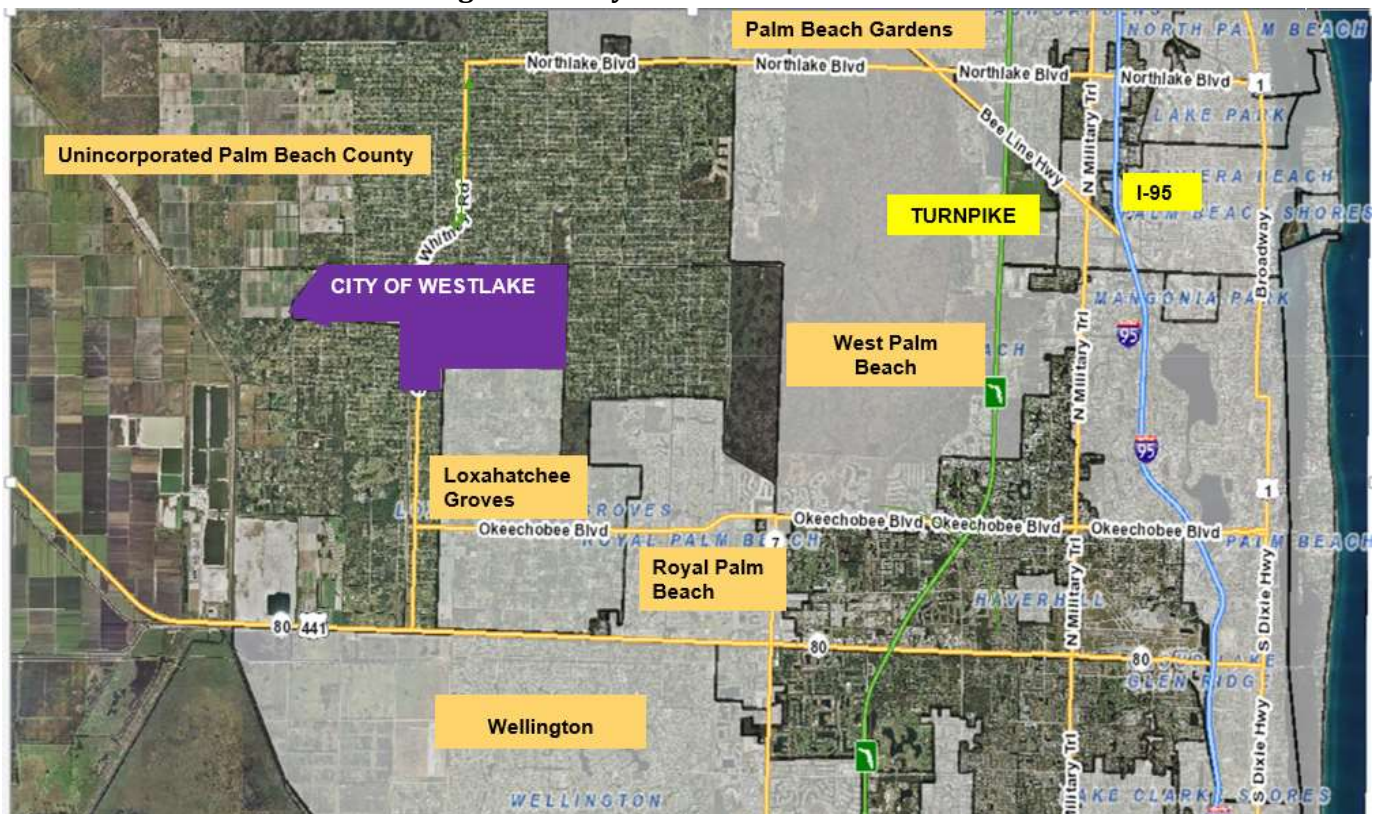
# CHAPTER 1. ADMINISTRATIVE ELEMENT DATA AND ANALYSIS

## INTRODUCTION

### Location

The City of Westlake (the “City”) is located in central Palm Beach County, northwest of the Village of Royal Palm Beach and north of the Village of Wellington and the Town of Loxahatchee Groves. The main access route to the City is Seminole Pratt Whitney Road from either State Road 80 (Southern Boulevard) or Okeechobee Boulevard from the south, or Northlake Boulevard from the north. The City is surrounded by the unincorporated area known as the Acreage, the Town of Loxahatchee Groves, and a small area of agricultural lands to the west. Some of the land to the west of the City has recently been approved for low-density development by Palm Beach County, including Indian Trails Grove. The land comprising the City has been described as the “hole in the donut” in as much as it is a large, undeveloped parcel surrounded by a sprawling development pattern. Figure 1.1 below illustrates the City’s location.

Figure 1.1 City of Westlake Location





## History of Incorporation

The City is coextensive with the Seminole Improvement District (SID), which was established in 1970 pursuant to Chapter 70-854, Laws of Florida, codified pursuant to Chapter 2000-431, Laws of Florida. SID is an independent special purpose government formerly known as the Seminole Water Control District, and consists of approximately 4,142 acres of land.

SID is empowered to construct and maintain a number of public works and utilities including water, sewer, drainage, irrigation, water management, parks, recreation facilities, roads and/or related activities. The majority of the property located within the SID boundary is comprised of the former Callery-Judge Groves property (CJG), which includes roughly 3,788 acres used for active agriculture for over 50 years. The boundary also includes a separate agricultural area known as Silverlake, a utility site and a packing plant. In addition, three school sites and a small shopping center site lie within the SID boundary.

In 2016, the City was incorporated pursuant to Section 165.0615, Florida Statutes.

## Legal Authority and Purpose

This Plan was developed in compliance with Florida's Community Planning Act, Chapter 163, Florida Statutes, which provides legal standards and guidance to local governments on comprehensive planning. The Land Development Regulations and all development orders shall be consistent with the Plan.

The Plan establishes meaningful and predictable standards for the use and development of land and provides meaningful guidelines for the content of more detailed Land Development Regulations. The Land Development Regulations that will be adopted within one year of the adoption of this Plan will contain more specific regulations and requirements to implement the Plan and control land development within the City. The statute requires that the Plan guide growth to the directed ends while also recognizing private property rights and allowing the operation of real estate markets to provide adequate choices.

The Plan is used to address specific growth management issues. Importantly, however, the Plan is not only a regulatory tool to guide growth, but is a means to achieve community goals. The overall purpose of this Plan is to guide the City in achieving a desirable vision of the future.

## Content and Structure of the Plan

The Comprehensive Plan, or "Plan," is a tool for directing growth and development within the City. The comprehensive plan addresses various aspects of future development through a coordinated group of plan elements. These elements address nine subjects: Administration, Future Land Use, Transportation, Infrastructure, Capital Improvements, Housing, Conservation, Recreation and Open Space, and Intergovernmental Coordination. The goals, objectives, and policies of the Future Land Use Element, along with the Future Land Use Map (FLU Map 2.1), describe the types of land uses, the related densities and intensities, and direct the location of development in the City. The Future Land Use Element is both enabled and restricted by the other elements of the Plan, which address transportation, infrastructure, conservation, recreation and open space, and housing planning goals. The Plan also includes a Capital Improvements



Element to plan for the provision of public facilities necessary to serve development anticipated in the short and long term planning periods pursuant to the Future Land Use Map (FLU Map 2.1). The Intergovernmental Coordination Element addresses coordination with local, regional, and state entities. All elements of the Plan were developed in consideration of existing development, the availability of adequate facilities and services, and the character of the land and water resources on and surrounding the jurisdiction.

### **PLANNING PERIODS**

The Plan provides guidance on development over two planning periods: a short term period beginning in 2018 and ending in 2023 and a long term period ending in 2038. However, for the purpose of the Capital Improvements Element, which must be updated annually, the fiscal year, rather than the calendar year, is used. (For example, the short term planning period ends FY 2022-23, rather than calendar year 2023).

### **RELATED PLANS AND PROGRAMS**

#### **Palm Beach County Comprehensive Plan**

The land area located within the City has been the subject of several planning efforts in Palm Beach County over many decades. These studies were focused on addressing the long-standing land use imbalance of central Palm Beach County, which is dominated by low density, poorly planned, single family residential development.

Palm Beach County designated much of the Acreage surrounding the City with a future land use designation of 2.5 units per acre, even though the Acreage consists almost exclusively of previously subdivided 1.25 acre lots. Accordingly, the actual land use pattern in the area designated by Palm Beach County's Managed Growth Tier System as "Exurban" is twice as dense as the Tier designation would indicate. Land to the west of the City, known as Indian Trails Grove, has recently been approved for residential development by Palm Beach County

Several studies conducted by Palm Beach County over the years identified development of the former CJG property, which the City occupies today, for much needed non-residential uses to balance land uses in the region.

In 2014, Palm Beach County approved the development of a large mixed-use project on approximately 3,788 acres within the City. Commercial and residential development is currently underway pursuant to these approvals, which are now under the City's jurisdiction.

#### **Loxahatchee Groves Comprehensive Plan**

The Town of Loxahatchee Groves became a municipality on November 1, 2006. The Town is the 38th municipality in Palm Beach County.

The Town aspires to be a rural community in the "midst of an urbanizing region" as stated in the "Vision for the Future of the Community" in the "Strategic Vision & Plan," July, 2008. The Town's Comprehensive Plan



Future Land Use Element provides for a predominantly rural residential setting with the Rural Residential 5 future land use (1 dwelling unit per 5 acres) covering the majority of the Town. Future commercial development is limited to the southern perimeter of the Town along the Southern Boulevard corridor, which further supports the need for a commercial center in the City to balance the regional land use pattern.

### **Seminole Improvement District**

The City is coextensive with the jurisdiction of the Seminole Improvement District (SID.) Pursuant to the City charter, the City may not duplicate services provided by SID. The cooperative relationship between the City and SID for provision of those services and facilities is detailed in the Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 (“SID-Westlake Interlocal”). SID’s specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan, Seventh Amended, dated October 13, 2015 and its Water, Wastewater and Reuse Utilities Master Plan dated April 29, 2015.

### **Indian Trail Improvement District**

The Indian Trail Improvement District (ITID) is an Independent Special District with jurisdiction over most of the Acreage lying north, south, and east of certain portions of the City. ITID is empowered to, among other things, construct, operate, and maintain works for drainage, water control purposes, and irrigation, and to construct and maintain roads, natural gas facilities, recreation facilities, and related infrastructure.

### **Palm Beach County School District**

Three Palm Beach County Public Schools – Golden Grove Elementary School, Western Pines Middle School, and Seminole Ridge High School – lie within the boundaries of the City. Two additional schools – Osceola Creek Middle School and Frontier Elementary School – are north of the City. Loxahatchee Grove Elementary School lies to the south. Currently, students from the City are zoned to attend Gold Grove Elementary and Seminole Ridge High School within the City’s boundaries. At the time of adoption of this Plan, students are zoned for Osceola Creek Middle School, not Western Pines Middle School.

### **Intergovernmental Plan Amendment Review Committee (IPARC)**

The Intergovernmental Plan Amendment Review Committee, or “IPARC” was formed to establish a comprehensive plan amendment coordinated review process in Palm Beach County. A procedure for the coordination of proposed plan amendments was also adopted, including cooperation between affected local governments and service providers. Service providers include some special districts that provide infrastructure services and the School District of Palm Beach County. This process provides opportunities to prevent and resolve potential disputes with minimum overlap or duplication of other existing processes within each participating entity, and aims for an expedited and simplified resolution.



## PLAN VISION AND GUIDING PRINCIPLES

The Plan addresses the need to balance the urban sprawl of the surrounding area with the provision of adequate non-residential uses, with the appropriate residential mass to make the city functional and sustainable in the long term. A sustainable community works to use its resources to meet current needs while providing that adequate resources are available for future generations.

The Vision and Guiding Principles of the Plan embrace the following **sustainable community** concept: *An urban area with a long term planning and management vision that incorporates a multi-modal transportation network; walkable, mixed use patterns of development; denser development where infrastructure exists; civic spaces and interconnected open spaces for recreation; economic vitality and job choices; choices in housing price and size; a quality educational system; and a unique identity.* The City's sustainable community concept serves as an umbrella under which all the elements of the Plan are developed.

The Plan is based on data and analysis which includes a vision and guiding principles that provide the general outline for a sustainable community. The adopted provisions of the Plan establish the specific and measurable objectives, policies, and maps that translate the sustainability community concept into an operational plan that can be used to effectively direct growth.

The City's Vision and Guiding Principles describe the future of the City in aspirational terms and are not adopted components of the Plan, but serve to guide the development of the adopted goals, objectives, and policies of the Plan.





## Vision for the City

The City will be a vibrant, desirable and welcoming place to live, work and play. The City will support mixed uses and promote safe neighborhoods with access to thriving business districts, employment centers, schools, parks and open spaces. The City will create incentives to promote the development of diverse housing, and will offer public open spaces. An emphasis on the development of complete streets will promote multi-modal transportation opportunities. The City's plans and policies will embrace public participation, encourage a sustainable community, and stimulate a vibrant economy.

## The City's Guiding Principles

### Build City Character and Identity

The City will promote economic development and provide for attractive public spaces through the coordination of building architecture, site design, and streetscape improvements.

### Balance the Central Communities in Palm Beach County

The development of the City will include commercial, employment, and recreational opportunities to help alleviate the existing urban sprawl pattern of development that currently exists in central Palm Beach County.

### Promote Mixed-Use Corridor

The Downtown Mixed-Use Category is important to the development of the City as a center of commerce, employment, and services. Neighborhood centers, which will vary in scale, use, and intensity, will be developed within walking distance of residential neighborhoods to provide accessible and convenient opportunities to work, shop, and participate in civic life.

### Emphasize Housing Diversity and Livable Neighborhoods

A variety of housing choices will be provided to accommodate a diverse range of residents at varying income levels and at all stages of life, including young adults, families, non-family households, empty nesters, retirees, and seniors. Housing opportunities will include small lots, multi-family housing, and live-work units, in addition to the traditional large, single family homes. Neighborhood commercial centers will offer convenient and walkable amenities to residents by providing retail and service facilities.

### Grow A Vibrant Economy

The City will work towards becoming a Sustainable Community with an environmentally, socially, and economically healthy and resilient City for existing and future populations. A healthy and sustainable business environment will be promoted through investment in efficient infrastructure, the provision of incentives, and by fostering development of a community that is attractive to employers and their workers. The Plan will seek to enhance the City's competitive advantage and to attract high quality companies, entrepreneurs, and knowledge-based businesses to the area.





### **Promote Complete Streets, Transportation Choice and Mobility**

A safe, reliable, and integrated transportation system that supports multiple modes of transportation including walking, biking, mass transit, and motor vehicles will be encouraged within the City. Investment in the transportation system should promote multi-modal travel solutions, especially in the Downtown Mixed-Use Category, around schools, and between neighborhoods.

## **ADOPTED PROVISIONS**

The Plan is comprised of the following nine elements, a Map Series, and a 5-Year Schedule of Capital Improvements.

- Chapter 1 Administrative Element
- Chapter 2 Future Land Use Element
- Chapter 3 Transportation Element
- Chapter 4 Infrastructure Element
- Chapter 5 Conservation Element
- Chapter 6 Recreation and Open Space Element
- Chapter 7 Housing Element
- Chapter 8 Capital Improvements Element
- Chapter 9 Intergovernmental Coordination Element

The Goals, Objectives and Policies (GOPs) within each element, the Map Series, and the 5-Year Schedule of Capital Improvements are adopted as part of the Plan. Maps within the Map Series are identified by the element, chapter number and the map number (i.e. FLU Map 2.1). The Data and Analysis summarized for each element in a separate volume is not formally adopted, but supports the GOPs, 5-Year Schedule of Capital Improvements, and the maps in the Map Series. Additional data and analysis documentation is available at the City.

# CITY OF WESTLAKE



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## FUTURE LAND USE

2018



## CHAPTER 2. FUTURE LAND USE ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Future Land Use Element and Future Land Use Map is to guide the future growth and development of the City. The Future Land Use Map (FLU Map 2.1) designates the distribution, general location, extent, density, and intensity of land uses. The Future Land Use Element includes adopted Goals, Objectives, and Policies that govern the development of land depicted on the Future Land Use Map consistent with the City's Vision, Guiding Principles and the other elements of the Plan.

### POPULATION PROJECTIONS

Chapter 163.3177(1)(f)3, F.S., requires local government comprehensive plans to be based upon permanent and seasonal population estimates and projections, which shall either be those published by the Office of Economic and Demographic Research (OEDR) or generated by the local government based upon a professionally acceptable methodology. The OEDR issues the projections generated by the Bureau of Economic and Business Research (BEBR). BEBR makes permanent population projections for counties, but not for municipalities or unincorporated areas. Neither OEDR nor BEBR make seasonal population projections.

Projections are provided for the short term and long term planning periods. Projections are used to plan for the impacts of development, envision how Westlake will develop over the course of these planning periods, and develop the plan to achieve planning goals and objectives. The plan does not dictate the exact timing of development and population projections do require development to occur at a certain amount or rate. Further, the rate of development may speed up or slow down depending on economic conditions.

Projections are an important part of planning but are not the sole determining factor for the development of a Plan. Projections should not be misused to unnecessarily constrain operation of the plan or preclude the achievement of important planning goals. Also, the Community Planning Act in Florida Statutes states that: "The amount of land designated for future land uses should allow the operation of real estate markets to provide adequate choices for permanent and seasonal residents and businesses and may not be limited solely by the projected population."

The development of Westlake will occur over the course of many years. A likely scenario is that development will proceed at an uneven rate, some years faster and some years slower. Thus, projections for multi-year planning periods are useful for planning purposes. The purpose of Land Development Regulations is to manage the variability of the amount and rate of development to assure consistency with the comprehensive plan and the timely provision of adequate infrastructure.



## City of Westlake Comprehensive Plan

The implementation of the plan and the development process are monitored. From time to time, projections, as well as plan policies, will require revision. This is a normal and expected aspect of the planning process. The Westlake Plan establishes policies for this monitoring, evaluation, and amendment process.

Palm Beach County uses the BEBR medium permanent population projection to compute a projection for the unincorporated county. The total county BEBR projection is geographically divided and allocated to small geographic areas called Traffic Analysis Zones (TAZs). There are over 1,700 TAZs in Palm Beach County. The TAZs in each municipality and in the unincorporated area are then combined to make projections for each municipality and the unincorporated area. The allocation of population to each TAZ is based upon the projection of dwelling units in each TAZ as well as other demographic factors such as vacancy and seasonal rates. The latest population projection and allocation for Palm Beach County was conducted in 2015, prior to the incorporation of the City (2015 Palm Beach County Population Allocation Model (2015-PBC-PAM).)

Palm Beach County's population grew from 1,131,184 in 2000 to 1,320,134 in 2010 (U.S. Census 2000 DP-1 and 2010 DP-1). The population change during this decade was very uneven, reflecting both population booms and busts due to both local and national economic conditions. BEBR's latest population estimate for 2017 is 1,414,246, representing an increase of 94,010 persons since 2010 which included an estimated increase of about 22,400 persons from 2016 to 2017. The county's population has grown each year since 2010. The County is projected to increase its population by 345,856 persons between 2017 and 2040, a 24.5% increase (BEBR FPS 180). Table 2.1 shows the latest BEBR projections through 2040 as well as the projections used in the 2015-PBC-PAM. The latest BEBR medium projections published in 2018 for the year 2035 is 25,000 persons higher than the previous BEBR medium projections relied upon by Palm Beach County in the 2015-PBC-PAM. The 2018 BEBR medium population projection is higher for every five year increment from 2020 to 2045 than the previous year's BEBR projection. This substantially higher medium projection increases the projected demand for housing units in Palm Beach County over the course of the Westlake long term planning period.



**Table 2.1: Palm Beach County Population Projections**

	<b>2010 Census</b>	<b>2017</b>	<b>2020</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>
BEBR FPS-180	1,320,134	1,414,144	1,473,000	1,559,600	1,636,400	1,703,700	1,760,000
2015-PBC-PAM Projections			1,463,900	1,543,200	1,615,100	1,678,700	Not Available

*Source: University of Florida Bureau of Economic and Business Research, Population Projections (FPS 180), U.S. Census Bureau, 2010 Decennial Census, DP-1, 2015-PBC-PAM*

The TAZs associated with the City and the surrounding area are shown in Figure 2.1. The 2015-PBC-PAM allocated 4,546 dwelling units associated with the Minto West plan amendment to four TAZs (#1593, #864, #1058, and #1079) for year 2030. As these dwelling units were associated with a specific development approval, no dwelling units were allocated to those portions of the City that are outside of the Minto West development area. The areas within the City that received no allocation of dwelling units include the 119-acre Silverlake property, the 10-acre Grove Marketplace, and the 27-acre packing plant parcel. The Plan allows residential development to occur in each of these areas. The larger geographic area where residential development may now occur, the longer extended planning timeframe to 2038 instead of 2030, and the increased 2018 BEBR medium county population projections, which shows 25,000 more persons than assumed in the 2015-PBC-PAM, supports additional development opportunities for dwelling units and associated population. Therefore, the City projects 6,500 units by the year 2038, which corresponds to the long term planning period. This reflects a generally steady growth rate and considers growth trends in nearby cities. The densities established in the Future Land Use Element will accommodate the increase in dwelling units.

The 6,500 dwelling units are converted to permanent household population as follows. First, the total number of housing units is converted to an estimate of occupied housing units by subtracting units anticipated to be vacant or used for seasonal residents. Second, occupied housing units are converted to household population by applying an average population per household rate (PPH). PPH, vacancy rates, and seasonal housing rates are based upon the surrounding Census County Divisions (CCDs) which have population characteristics expected to be more comparable to the City than the county as a whole. These CCDs are located in the central portion of Palm Beach County between the eastern coastal communities and the western areas. Specifically, the City PPH, vacancy rate and seasonal rate are averages derived from the Royal Palm Beach-West Jupiter, Western Community, and Sunshine Parkway CCDs from the 2010 US Census. Figure 2.2 shows the boundaries of the CCDs. The vacancy rate used for the City is 7.45 percent. The seasonal rate is 5.85 percent. The PPH is 2.65. These rates are kept constant for the planning periods.



Figure 2.1: Traffic Analysis Zones Map

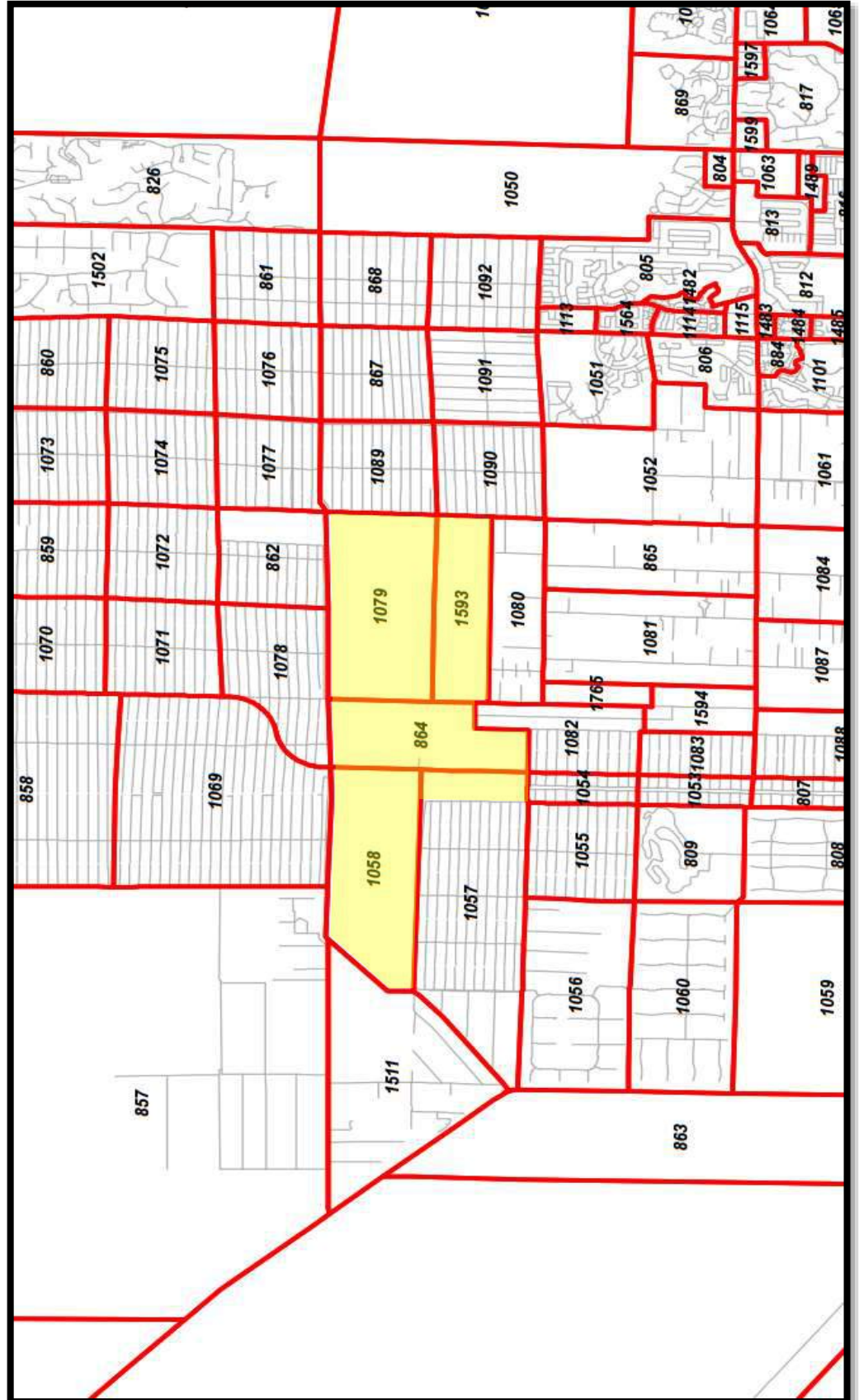
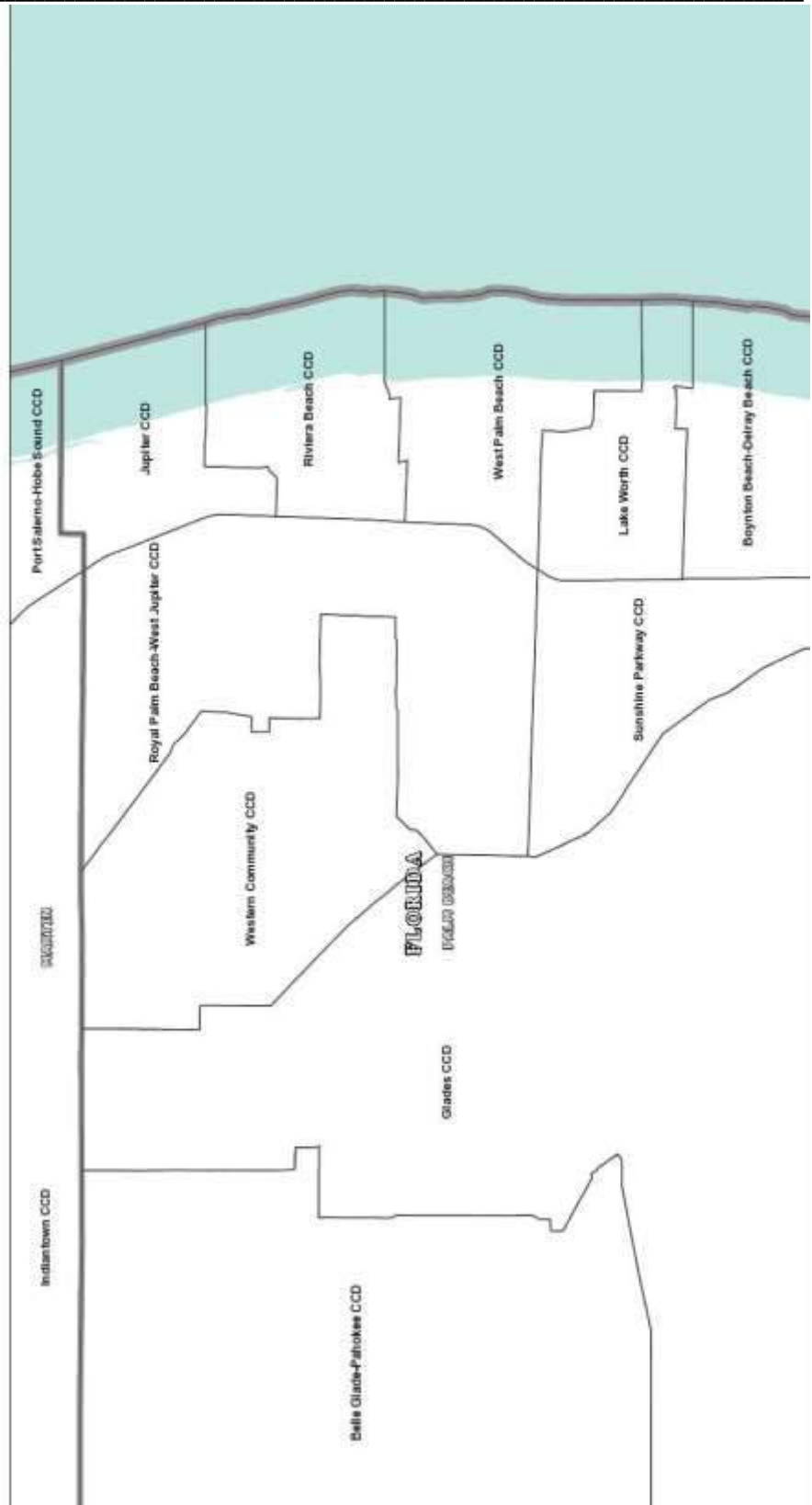






Figure 2.2: 2010 Census County Divisions (CCDs)

### Palm Beach County Subdivisions







In addition to the permanent household population, some persons may live in group quarters (e.g. nursing homes.) The percent of permanent population expected to live in group quarters is zero in year 2023. However, a group quarters population is projected for 2038 by using the average group quarters rate from the same surrounding CCDs. The average group quarters rate is 0.642% which equates to 96 persons in 2038.

The permanent population estimate for 2018 and projections for years 2023 and 2038 are provided in Table 2.2A based on the anticipated development of housing units and assumptions for group quarters populations.

Table 2.2A: City Permanent Population Projections

Year	Total Housing Units	Permanent Population	Group Quarters Population	Population
2018	150	298	0	298
2023	1,575	3,619	0	3,619
2038	6,500	14,934	96	15,030

The seasonal population projection is based on the seasonal housing rate of 5.85% of projected housing units as well as the plan for a 150-room hotel. An estimate of 2 persons per seasonal house or hotel room is assumed. The seasonal projection is shown in Table 2.2B below.

Table 2.2B: City Seasonal Population Projections

Year	Housing Population	Hotel Population	Total Seasonal
2018	0	0	0
2023	184	300	484
2038	761	300	1,061

The total population projection, consisting of both permanent and seasonal residents is shown in Table 2.3. These numbers were used for purposes of analyzing public infrastructure needs in the short and long term planning periods.

Table 2.3: City Total Population Projection

Year	Permanent Population	Seasonal Population	Total Population
2018	298	0	298
2023	3,619	484	4,103
2038	15,030	1061	16,091



## ANALYSIS OF LAND NEEDED TO ACCOMMODATE THE PROJECTED POPULATION

### Residential Analysis

Table 2.4 shows the estimated acreage for each of the land use categories.

**Table 2.4: Future Land Uses**

Future Land Use	Total Acreage	Acreage Excluding ROW	% of Total Area (based on Acreage Excluding ROW)
Residential-1	1,920	1,875	46.9%
Residential-2	1,363	1,301	32.5%
Downtown Mixed-Use	593	563	14.1%
Civic	187	185	4.6%
Open Space and Recreation*	79	77	1.9%
<b>Total</b>	<b>4142**</b>	<b>4,001**</b>	<b>100%**</b>

*\*A portion of the residential area will be allocated for open space and recreation.*

*\*\*Approximately 141 acres in the City, which is approximately 3% of the City, consists of existing ROW.*

*The land underlying the existing ROW cannot be developed.*

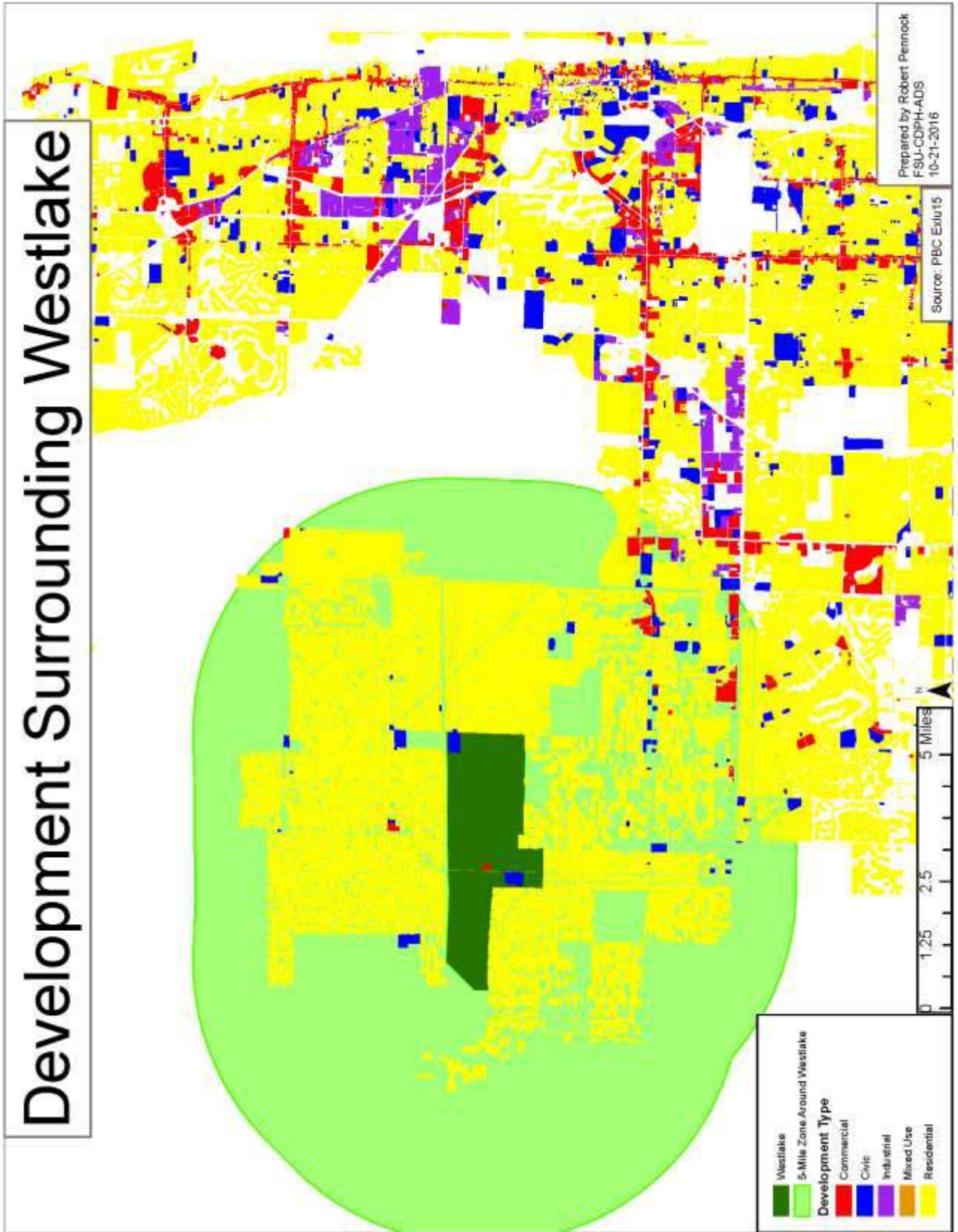
*NOTE: The acreage numbers reflected in the table have been rounded to the nearest whole number.*

The density provided for in the Residential (1 & 2) categories established by policy in this Element and shown on the Future Land Use Map (FLU Map 2.1) will more than accommodate the projected population. In addition, the density provided in Residential categories will permit development of a variety of types of housing to accommodate all affordability levels in balance with requirements in the Plan that necessary infrastructure be provided to serve development.

### Non-Residential Analysis

Within the central area of the County surrounding the City, there is an extensive area of residential development, limited amount of commercial uses, and virtually no existing industrial or employment uses. Currently, existing and approved non-residential uses, which total approximately 389,000 square feet, can be found at the intersection of Seminole-Pratt Whitney Road and Orange Boulevards, the Grove Market on Seminole-Pratt Boulevard, and throughout Loxahatchee Groves. Figure 2.3 shows the scant amount of nonresidential development in a five-mile zone surrounding the City and illustrates the imbalance of residential and nonresidential land uses surrounding the City. Additionally, the Loxahatchee Groves Plan directs all future commercial development to the Southern Boulevard corridor which is the farthest removed from the City.

Figure 2.3: Development Surrounding Westlake





The imbalance of residential and nonresidential land uses in the surrounding area and how Westlake may serve to mitigate that imbalance may be examined through the use of hypothetical development scenarios. The scenarios consider how much nonresidential use is needed and potentially feasible to serve residential. This is done by calculating non-residential land use demand based on the ratio of number of square feet of non-residential use per capita. In the absence of data for the City planning jurisdiction, average ratios for Palm Beach County were calculated based on actual 2015 data for Palm Beach County and were then applied to the projected population of the City for the long term planning period.

The City of Westlake Comprehensive Plan provides for increased amounts of non-residential, which will serve the City and which will also contribute to balancing the deficit in the surrounding area as shown in Table 2.4. The development scenario described in Table 2.4 is not the plan's projection of non-residential uses for the long term planning period. For those purposes, in addition to existing nonresidential uses, the City estimates 2.2 million square feet of nonresidential uses, a 3,000 student college and a 150 room hotel to develop through 2038. In the short term planning period, it is expected that approximately 650,000 square feet of nonresidential uses and a hotel will develop. As indicated in Table 2.4, there is sufficient land for nonresidential uses to serve the projected population through the long term planning period.

With regards to transportation impacts outside of Westlake, an increase in nonresidential within Westlake, will serve the surrounding communities (particularly north of SR 80, east of SR 7, and south of Northlake Boulevard) and will likely redirect travel in different directions to and from Westlake, potentially contributing to a reduction in traffic volumes generally heading eastward on those state roads.

An analysis of existing and potential commercial development in the five-mile area surrounding the City shows a substantial deficit of square footage of non-residential uses to serve the projected population for the surrounding region in 2038, as shown in Figure 2.3. Since 2015, Palm Beach County has adopted other land use changes in the general area including Indian Trails Grove, which includes low-density residential and small amounts of commercial which further contribute to the imbalance of land uses in the area. Indian Trail Grove does not provide for industrial or employment development. This regional deficit can be substantially offset by potential development in the City as shown in the Tables 2.4 and 2.5 below.

Importantly, the nonresidential development amounts are hypothetical and merely shown what could occur beyond the long term planning period as the City continues to mature as a sustainable center for commerce, employment, and civic activities. Any increased amounts of nonresidential development above that used to determine impacts for the 2038 period would require further analysis, plans, and actions to ensure the adequate infrastructure can be provided, including transportation facilities.



**Table 2.5: Non-Residential Demand and Potential Surplus Supply Scenario**

Land Use	City Demand for Long Term Planning Period		Downtown Mixed-Use Supply Scenario			
	Average County Square Feet Per Capita	Square Footage Demand Based on Average County Square Feet Per Capita	Percent of Downtown Mixed-Use Acreage*	Average FAR*	Square Footage Supply In Downtown Mixed-Use*	Surplus Square Footage Available in Downtown Mixed-Use to Serve Deficit in Surrounding Area
Commercial*	120.9	1,816,479	40%	1.0	7,232,702	5,427,826
Industrial	39.4	591,853	15%	1.0	2,712,263	2,124,191
Civic*	49.1	737,319	16%	1.0	2,893,081	2,160,471

\*Notes:

Civic includes education.

Commercial includes office, hotels, and medical facilities.

The maximum FAR in Downtown Mixed-Use is 3.0. These calculation assumes an average FAR of 1.0 and the mid-point of allowable acreage percentages and after netting out 30% for road and canal right of way and other non-developable areas. The square footage supply in downtown mixed use is based upon a set of assumptions regarding demand for nonresidential and potential development of nonresidential. However, as indicated in the text, the amounts of nonresidential development provided in this scenario is contingent upon the operation of the plan as a whole, including the provision of adequate infrastructure and transportation to serve such uses.

Data Sources: 2015 Palm Beach County Exlu GIS, 2015 Palm Beach County Population Allocation Model, City of Westlake Comprehensive Plan, Palm Beach County Comprehensive Plan.



**Table 2.6: Demand for Commercial in 5-Mile Area Surrounding the City for 2038 (Excluding the City)**

Land Use	Average County Sq. Ft. per Capita	Sq. Ft. Demand Based on Avg. County Sq. ft. per Capita	Existing and Potential Future Sq. Ft. w/in 5-mi Perimeter	Deficit w/in 5-mi Perimeter	City Downtown Mixed-Use Sq. Ft. Available in Downtown Mixed-Use to serve Deficit in Surrounding Area	% of Commercial Demand Deficit of Surrounding 5-mile Area Served by the City
Commercial	120.9	16,180,195	6,687,881	9,492,315	5,416,224	57%
Project Population for Area is:		133,879				

Data Sources: 2015 Palm Beach County Exlu GIS, 2015 Palm Beach County Population Allocation Model, Palm Beach County Comprehensive Plan and Loxahatchee and Royal Palm Beach Comprehensive Plans.

## JOB CREATION, CAPITAL INVESTMENT, AND ECONOMIC DEVELOPMENT

By providing for significant development of commercial, civic, educational, and light industrial uses, the Future Land Use Element of the Plan provides opportunities for job creation, capital investment, and economic development. The non-residential development envisioned and encouraged by the Plan will serve to remediate the existing urban sprawl pattern and the current scarcity of non-residential uses throughout the central communities of Palm Beach County.

## EXISTING AND FUTURE LAND USE CONDITIONS

### Existing Land Use

The majority of the lands located within the City are agricultural fields (improved pasture, row crops, active citrus groves, tree nurseries and fallow or vacant crop land), which include an extensive system of agricultural irrigation ditches and surface water conveyances. Existing development within the City includes a shopping center, elementary school, middle school, high school, agricultural packing plant, and some small commercial and civic uses near the packing plant. Table 2.7 provides acreage estimates for the existing land uses. FLU Map 2.2 shows the existing uses.

**Table 2.7 Existing Land Uses**

Existing Land Use	Acreage	% of Total Area
Agricultural	3,974	95.9%
Residential in Development*	109	2.6%
Commercial in Development*	75	1.8%
Recreation in Development*	18	0.4%



## City of Westlake Comprehensive Plan

Civic	7	0.2%
Commercial	13	0.3%
Educational	124	3.0%
Industrial	23	0.6%
Utility	1	0.0%
<b>Total</b>	<b>4,142</b>	<b>100.0%</b>

\*Note: The areas noted as “in Development” are included in the Agricultural Land Use total and thus not included in the Total calculation.

### Future Land Use

The Future Land Use Element identifies land use designations and allowed development density and intensity coordinated with the topography and soil characteristics; the location of natural, cultural and historic resources; and the availability of public facilities and services within the City. The Future Land Use Element includes a Future Land Use Map (FLU Map 2.1) depicting the location of uses within the City’s jurisdictional limits.

### Future Land Use Categories

The future land use categories in the Future Land Use Element define the amount, type, density and intensity of future development that is allowed in a given location within the City. Each of the Plan land use categories shall be implemented by corresponding zoning districts in the Land Development Regulations. The Land Development Regulations will implement the Plan through more specific regulations governing allowed and conditional uses, site development standards, and performance criteria.

Each of the residential land use categories includes a range of allowable density. The maximum density defines the maximum number of dwelling units per gross acre that can occur within the specific land use category.

Building intensity for nonresidential land uses are measured by floor area ratio (FAR). FAR is the ratio of total net floor area of a building to the total lot area. Where a mix of uses is required, as within the Downtown Mixed-Use, density and intensity shall be calculated using a combination of FAR and density. Residential density calculations will be based on the gross acreage and the non-residential portions will be based on FAR.

The future land use categories within the City are listed in Table 2.4 above.

### Solar Energy Overlay

The Plan includes a Solar Energy Overlay in the southwestern area of the City to allow the development of Primary Solar Facilities. The City may, if feasible, establish incentives to encourage the development of Primary Solar Facilities to promote a sustainable community.



## Redevelopment

At the time of that this Plan was prepared, the majority of the lands are either vacant and/or in agricultural use. The existing developed areas may require evaluation for their potential redevelopment in the future.

## Land Cover, Natural Resources and Cultural and Historic Resources

The lands located within the City limits have a long and consistent history of agricultural use, which has resulted in the elimination of all native and natural habitat features. There are no environmentally sensitive lands identified within the City. FLU Map 2.2 depicts existing land uses within the City. Minerals and soils within the City are depicted on FLU Map 2.3. Floodplain designations within the City are depicted on FLU Map 2.4. FLU Map 2.5 shows that there are no existing or planned public potable wellfields, cones of influence, or wellhead protection areas within the City. Similarly, FLU Map 2.6 shows that there are currently no wetlands within the City. Additional analyses regarding land cover and natural resources within the City are found in the Conservation Element data and analyses.

There are no known cultural or historic resources located within the boundaries of the City as determined by the Division of Historical Resources in its letter dated June 25, 2015, from the State Historic Preservation Officer. Should cultural or historic resources be identified in the future, appropriate policies will be applied.

## Facilities Analysis

### Traffic Circulation

The current traffic circulation network within the City is illustrated in T.E. Map 3.1. A full analysis of the existing traffic circulation system is provided in the Transportation Element data and analysis. Existing land uses are adequately served by the existing traffic circulation system, and all roads are functioning within the adopted level of service standards. Therefore, there are no traffic circulation system road improvements required to meet existing land use needs.

The future traffic circulation network will provide adequate capacity on roads located within the City. Seminole Pratt Whitney Road is maintained by Palm Beach County and currently functions as a minor arterial road. Minor arterial roads provide service for trips of moderate length, serve geographic areas that are smaller than their higher arterial counterparts (interstates, freeways, and principal arterials), and offer connectivity to the higher arterial system. In an urban context, they interconnect and augment the higher arterial system, provide intra-community continuity and carry local bus routes. Through both the 2023 and 2038 planning periods, Seminole Pratt Whitney Road will continue to serve as an minor arterial at its adopted level of service.

A system of major collector roads, including Persimmon Boulevard and Town Center Parkway, will connect to Seminole Pratt Whitney Road, and will provide access into and through the City. Roads functionally classified as major collector roads are intended to distribute and channel trips between local roads and arterials, usually over a distance of greater than three-quarters of a mile. These major collector roads will





be connected to future land uses by a network of minor collector and local roads, which network will be determined as the City develops. Any road that is not an arterial or collector road is by definition a local road. Except for Seminole Pratt Whitney Road and the future extension of 60th Street North, the City has jurisdiction over all roads located within the City boundaries. Through both the 2023 and 2038 planning periods, the City's collector and local roads will operated at their adopted levels of service.

A detailed analysis of future road conditions, needs, and plans for future transportation facilities is provided in the data and analysis for the Transportation and Capital Improvement Elements.

### **Hurricane Evacuation Routes**

There are no designated hurricane evacuation routes within the City. Seminole Pratt-Whitney Road provides access from the City to the designated hurricane evacuation route at US 441.

Future designation of evacuation routes within the City is not anticipated. However, it is essential to monitor routes connecting the City to designated evacuation routes in order to ensure safe evacuation of residents if necessary. Maintaining capacity on Seminole Pratt Whitney Road at an acceptable level of service will facilitate the evacuation of City residents if necessary.

### **Mass Transit**

Mass transit service in Palm Beach County is provided by Palm Tran. There is currently no fixed-route transit service within the City.

As the City population grows, the viability of expanding transit service will increase, especially as commercial and other non-residential uses develop along Seminole Pratt Whitney Road. The City will regularly coordinate with Palm Tran, especially during updates of the Palm Tran Transit Development Plan (TDP), to ensure that transit needs of City residents are evaluated and appropriately serviced as the community develops.

### **Wasterwater**

SID will be the retail provider of wastewater service to the City pursuant to the Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal"). Adequate wastewater capacity exists to serve the projected population through the 2023 and 2038 planning periods. SID will plan and construct wasterwater lines and liftstations to connect new development with the county's wastewater treatment plan. A detailed analysis and projections for wastewater are provided in the data and analyses for the Infrastructure and Capital Improvement Elements.

### **Solid Waste**

The Solid Waste Authority of Palm Beach County (SWA) is the agency responsible for managing the solid waste disposal and recycling programs within Palm Beach County, including the City. The SWA integrated solid waste management system includes 334 acre landfill, a 2,000 ton per day waste energy facility, a recovered materials processing facility, a biosolid pelletization facility, a vegetative waste processing



operation, household hazardous collection facilities and six transfer facilities. The SWA's 2017 Landfill Depletion Model projects sufficient landfill capacity through the 2038 planning period with the current lifespan of the facility projected to extend from 2038 to 2051 depending upon various demand and operational assumptions. This projection is based upon countywide growth projections. Based on the average solid waste generation rate for the county as a whole, the City is establishing a solid waste level of service standard of 7.02 pounds per capita per day, which can be maintained through both the 2023 and 2038 planning periods. Further details and analysis of the solid waste service is provided in the Infrastructure Element data and analysis.

### **Drainage**

SID provides and maintains drainage facilities for the City pursuant to the SID-Westlake Interlocal. SID's adopted work plan provides for the drainage system to be developed in phases as development occurs within the City. SID's specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan dated October 13, 2015 and its Water, Wastewater and Reuse Utilities Master Plan dated April 29, 2015. As currently planned, the drainage system will consist of an extensive system of lakes to be constructed in phases to accept runoff from common areas, collector roads, residential and non-residential development areas. FLU Map 2.4 shows the Federal Emergency Management Agency flood designations within the City. The master water management system will continue to discharge into the M-2 Canal. Drainage for the City can be maintained through the 2023 and 2038 planning periods. The City is located within the SFWMD C-51 Basin and is subject to the SFWMD C-51 Basin Rules (found in Part III, Ch. 40E-41, Rules 40E-41.220 through 40E-41.265, Florida Administrative Code) in addition to other stormwater regulations. The data and analyses for the Infrastructure and Capital Improvement Elements provide further details on stormwater facilities including the established level of service standards.

### **Potable Water**

SID will be the retail provider of potable water within the City pursuant to the SID-Westlake Interlocal. This ensures adequate potable water is available to serve the projected population through the 2023 and 2038 planning periods. Detailed analysis and projections related to potable water facilities and services is provided in the data and analysis for the Infrastructure and Capital Improvement Elements.

### **Reuse Water**

SID will be the retail provider of reuse water within the City pursuant to the SID-Westlake Interlocal. A separate interlocal agreement between SID and Palm Beach County for the purchase of bulk reuse water, dated April 20, 2010, gives SID a "prior reserve capacity" of reuse water to be provided by the county. SID will not produce its own reuse water, but will receive reuse water pursuant to this agreement with the county. At this time, a re-pump and storage facility and some transmission pipes are connected and in operation. Further expansion of the distribution system within the City will occur as the City develops. Additional analysis on reuse water supply and demand projections is provided in the data and analyses for the Infrastructure and Capital Improvement Elements.



### **Parks and Recreation**

There are no existing parks within the City. A community park is planned within the City to serve future residents. The park is indicated on the Future Land Use Map (FLU Map 2.1) on the west side of Seminole Pratt Whitney Road, immediately south of the Seminole Ridge Community High School and is comprised of approximately 50 acres.

As development of the City occurs, a range of parks including tot-lots, neighborhood parks, and community parks, will be distributed within or near neighborhoods. Shared use paths, sidewalks, and bicycle lanes will be provided throughout the City.

The City is currently serviced by the following Palm Beach County regional and district parks and beaches: Okeehelie North Park (regional), Phil Foster Park (beach) and Seminole Palms Park (district).

Additional analysis of parks and open space facilities serving the City is included in the Recreation and Open Space Element data and analysis.

### **Public Schools**

Three public schools exist within the City boundaries: Golden Grove Elementary School, Western Pines Middle School, and Seminole Ridge High School. The City lies within the district boundaries of Golden Grove Elementary and Seminole Ridge High. In 2017, the School District adopted a new district for Western Pines Middle School, which excludes students from the City. Therefore, students within the City will be served by Osceola Creek Middle School, which is located to the northwest of the City. There is sufficient capacity at schools within and adjacent to the City to serve the City's student population through the 2023 planning period. The City will coordinate with the School District to ensure capacity exists to serve the City's population through the 2038 planning period.

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# TRANSPORTATION

2018



## CHAPTER 3. TRANSPORTATION ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Transportation Element is to plan for a safe, convenient multi-modal transportation system that is coordinated with the Future Land Use Map (FLU Map 2.1) and Map Series and designed to support all elements of the Plan for the short and long term planning periods. This element addresses the transportation facilities which are to be provided within the City. These include:

- Roads
- Shared Use Paths, Bicycle Lanes, and Sidewalks
- Mass Transit

Each of these facility types are analyzed below separately. The City of Westlake Comprehensive Plan – Transportation Element Data and Analysis document prepared by Pinder Troutman Consulting, Inc. dated September 18, 2017, revised February 26, 2018, attached as Appendix A, is expressly incorporated by reference as if fully set forth herein.

Consistent with Florida Statutes Section 163.3177(6)(b), which requires that the transportation element of the Plan be consistent with the plans and programs of the Palm Beach TPA and FDOT, the City utilized the TPA’s 2040 model to analyze the impacts to roads from anticipated development over the long term planning period.

As used in the “Lanes” columns of the tables below, the following terms have the following meanings:

- 2LU means 2 lane undivided.
- 2LD means 2 lane divided.
- 4LU means 4 lane undivided.
- 4LD means 4 lane divided.
- 6LD means 6 lane divided.

### Background Information

As part of the review of any development within the City, impacts to the regional road network will be reviewed by Palm Beach County pursuant to its Traffic Performance Standards Ordinance, Article 12 of the Palm Beach County Unified Land Development Code (TPS). As with other municipalities within the County, as part of the City’s review process, applicants will be required to demonstrate compliance with the Palm Beach County Traffic Performance Standards Ordinance. If required by TPS, development applications will be submitted to Palm Beach County for review of their impacts to the regional road network. Any level of service deficiencies identified would need to be mitigated



through means such as construction of improvements or execution of a proportionate share agreement with the County.

The majority of property within the City is subject to a set of development orders issued to Minto PBLH, LLC, by Palm Beach County prior to the City's incorporation. The development orders permit Minto to construct 4,546 residential units, a college, hotel and 2.2 million square feet of other nonresidential uses. By operation of law, after the City's incorporation, the development orders remain in effect, except that they are now administered by the City. In conjunction with its receipt of that development order, Minto PBLH, LLC (Minto), was required to demonstrate compliance with the County's TPS. As part of this process, Minto was required to enter into a proportionate share agreement with Palm Beach County, committing it to pay approximately fifty (50) million dollars towards road improvements throughout the region. Seminole Pratt Whitney Road is already being expanded within the City pursuant to that proportionate share agreement. Minto's obligations under the proportionate share agreement remain notwithstanding the City's incorporation because Palm Beach County retains jurisdiction over impacts to the regional thoroughfare system, which includes state roads and roads identified as part of Florida's Strategic Intermodal System (SIS). Any increase in the density and intensity of Minto's development orders that generates additional peak hour directional traffic impacts above the approved development would be subject to review by Palm Beach County for approval pursuant to TPS.

## TRAFFIC CIRCULATION NETWORK

### Connectivity

Connectivity is promoted or discouraged by the design of the transportation network and the arrangement of development. Thus, connectivity relates not just to single trips, but to the totality of all trips within an area.

A 'connectivity index' can be used to measure the degree of connectivity. The street connectivity index is the ratio of the number of street links to the number of intersections. Road ends such as cul-de-sacs and corners may also be added to the number of intersections. The number of links (which may match up with smaller development blocks) compared to the number of intersections provides for greater connectivity. Finally, access to bicycle lanes, sidewalks, and shared use paths further enhance connectivity.

### Existing Traffic Circulation

The current traffic circulation network is illustrated in TE Map 3.1. The existing functional classification of the road network is also illustrated in TE Map 3.1, as is the existing road network jurisdiction. Palm Beach County has jurisdiction over county roads, including Seminole Pratt Whitney Road, which bisects the City. The existing level of service on Seminole Pratt Whitney Road was determined using the FDOT generalized level of service tables for peak hour and peak direction. The existing road levels of service are illustrated in TE Map 3.2. The precise level of service for roads indicated to be "Level D or Better" is not available because the roads have not been in service long



enough for them to be properly analyzed under normal traffic conditions. The existing road characteristics are summarized in Table 3.1 below.



**Table 3.1: Existing (2016) Peak Hour Peak Direction LOS**

Road Name	From	To	Lanes	Adopted LOS**	Road Classification	Peak Hour Peak Direction Capacity*	2016 Peak Hour Peak Direction Volume*	Current LOS
Seminole Pratt Whitney Road	N. of Sycamore Drive West	Seminole Ridge Community High School north entrance	4LD	D	Minor Arterial	2,000	999	C
Seminole Pratt Whitney Road	Seminole Ridge Community High School north entrance	S. of 60 <sup>th</sup> Street North	4LD	D	Minor Arterial	2,000	999	C

*\*Source: FDOT Generalized Service Volume Tables (12/18/12) and FDOT Transportation Statistics Office*

*\*\* A description of the various level of service standards, including “D,” can be found in FDOT’s Highway Capacity Manual, December 2010.*

As shown in Table 3.1, existing land uses are adequately served by the existing traffic circulation system, and all roads are operating within the adopted level of service standards. Therefore, there are no existing transportation deficiencies.

### Future Traffic Circulation

Through the 2023 and 2038 planning periods, it is estimated that the permanent population will grow to 3,619 and 15,030 people, respectively. Residential uses will be located throughout the City, with single-family detached housing located further east and west of Seminole Pratt Whitney Road, and higher density housing located closer to and within the Downtown Mixed-Use area planned along Seminole Pratt Whitney Road.

It is also anticipated that, in addition to existing non-residential uses, there will be additional non-residential uses constructed during the 2023 and 2038 planning periods, including commercial, industrial, recreational, and civic uses. Non-residential uses will be located primarily within the Downtown Mixed-Use Future Land Use Category located along either side of Seminole Pratt Whitney Road.





The future traffic circulation network will provide adequate capacity on roads located within the City to meet the projected population and residential and nonresidential development for the long and short term planning periods. Seminole Pratt Whitney Road is a county maintained road that currently functions as a minor arterial road. Minor arterial roads provide service for trips of moderate length, serve geographic areas that are smaller than their higher arterial counterparts (interstates, freeways, and principal arterials), and offer connectivity to the higher arterial system. In an urban context, they interconnect and augment the higher arterial system, provide intra-community continuity and carry local bus routes. Through the long and short term planning periods, Seminole Pratt Whitney Road will continue to serve as a minor arterial.

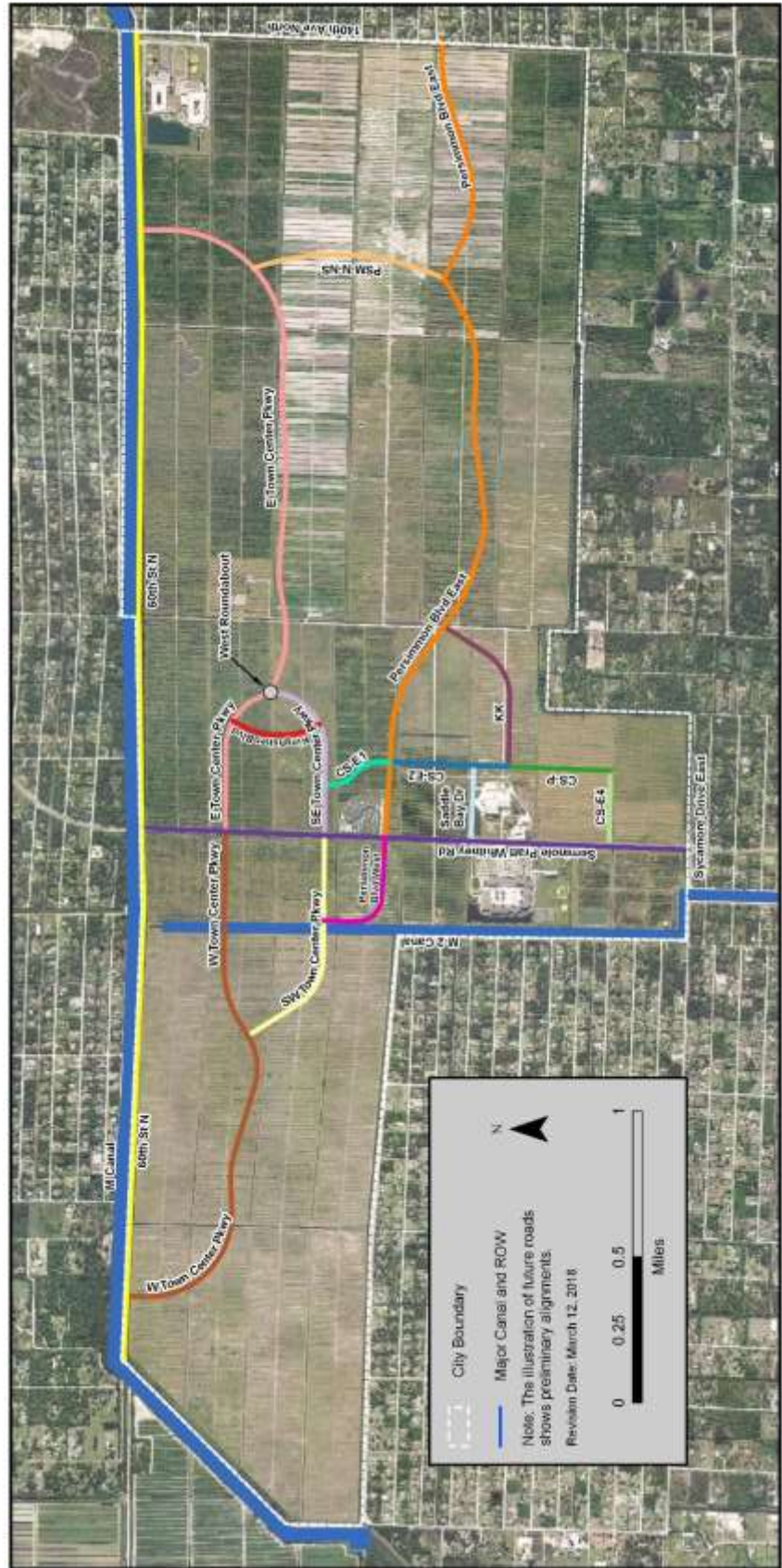
A system of major collector roads, including Persimmon Boulevard and Town Center Parkway, will connect to Seminole Pratt Whitney Road and will provide access into and through the City. Roads functionally classified as major collector roads are intended to distribute and channel trips between local roads and arterials, usually over a distance of greater than three-quarters of a mile.

These major collector roads will be connected to future land uses by a network of minor collector and local roads, which network will be determined as the City develops. Any road that is not an arterial or collector road is by definition a local road. Except for Seminole Pratt Whitney Road and the future extension of 60th Street North, the City has jurisdiction over all roads located within the City boundaries.

TE Map 3.4 illustrates the 2038 Future Traffic Circulation network, which will accommodate traffic circulation through the 2038 planning period. TE Map 3.5 depicts the 2038 Future Functional Classification of the City's roads. Anticipated future right-of-way for the Future Traffic Circulation Network is also illustrated on TE Map 3.5. Table 3.2, below, summarizes the road characteristics and road levels of service for the future functionally classified road system. Figure 3.1 below illustrates the location of each road segment identified in Table 3.2 and Table 3.3.



Figure 3.1: Road Segment Identification





**Table 3.2: Year 2038 Peak Hour Peak Direction LOS**

Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2038 Peak Hour Peak Direction Volume	2038 LOS
Seminole Pratt Whitney Road	N. of Sycamore Drive West	Persimmon Boulevard	6LD	D	Minor Arterial	3,020	2,393	C
Seminole Pratt Whitney Road	Persimmon Boulevard	S. of 60 <sup>th</sup> Street North	6LD	D	Minor Arterial	3,020	2,060	C
East Town Center Parkway	Seminole Pratt Whitney Road	West Roundabout	2LU	D	Major Collector	675	570	D
East Town Center Parkway	West Roundabout	PSM-N-N2	4LD	D	Major Collector	1,800	864	C
East Town Center Parkway	PSM-N-N2	60 <sup>th</sup> Street N	4LD	D	Major Collector	1,800	580	C
Southeast Town Center Parkway	Seminole Pratt Whitney Road	West Roundabout	2LU	D	Major Collector	675	448	D
Southwest Town Center Parkway	West Town Center Parkway	Seminole Pratt Whitney Road	2LU	D	Major Collector	675	223	C
West Town Center Parkway	Western Terminus	Southwest Town Center Parkway	2LU	D	Major Collector	675	95	C
West Town Center Parkway	Southwest Town Center Parkway	Seminole Pratt Whitney Road	2LU	D	Major Collector	675	340	D
Persimmon Boulevard East	Seminole Pratt Whitney Road	PSM-N-N2	4LD	D	Major Collector	1,800	1,014	C
Persimmon Boulevard East	PSM-N-N2	140 <sup>th</sup> Avenue	4LD	D	Major Collector	1,800	683	C
PSM-N-N2	Persimmon Boulevard East	East Town Center Parkway	2LD	D	Minor Collector	709	423	D
Persimmon Boulevard West	Southwest Town Center Parkway	Seminole Pratt	2LU	D	Minor Collector	675	203	C



City of Westlake Comprehensive Plan

Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2038 Peak Hour Peak Direction Volume	2038 LOS
		Whitney Road						
KK	CSP	Persimmon Blvd East	2LU	D	Minor Collector	675	341	D
CS-E4	Seminole Pratt Whitney Road	CSP	2LU	D	Minor Collector	675	329	C
CSP	CS-E4	KK	2LU	D	Minor Collector	675	425	D
CSP	KK	Saddle Bay Drive	2LU	D	Minor Collector	675	199	C
CS-E2	Saddle Bay Drive	Persimmon Blvd East	2LU	D	Minor Collector	675	199	C
CS-E1	Persimmon Blvd East	Southeast Town Center Parkway	2LU	D	Minor Collector	675	417	D
Kingfisher Blvd (CS-E5)	Southeast Town Center Parkway	East Town Center Parkway	2LU	D	Minor Collector	675	71	C
Saddle Bay Drive	Seminole Pratt Whitney Road	CSP	2LU	D	Minor Collector	675	149	C
60th Street North	Western Terminus	West Town Center Parkway	4LD	D	Major Collector	1,800	1133	C
60th Street North	West Town Center Parkway	Seminole Pratt Whitney Road	4LD	D	Major Collector	1800	843	C
60 <sup>th</sup> Street North	Seminole Pratt Whitney Road	East Town Center Parkway	2LU	D	Minor Collector	675	106	C
60 <sup>th</sup> Street North	East Town Center Parkway	140 <sup>th</sup> Avenue	4LD	D	Major Collector	1,800	686	C

\*Source: FDOT Generalized Service Volume Tables (12/18/12)



The City’s future traffic circulation network will be developed in coordination with the plans of the Florida Department of Transportation (FDOT), Palm Beach County, and the Palm Beach Transportation Planning Agency (TPA). The Palm Beach TPA was formerly known as the Palm Beach Metropolitan Planning Organization (MPO).

Within the short term planning period (through 2023), it is anticipated that there will be some residential development in areas east of Seminole Pratt Whitney Road. A portion of the future road network will be required to support this development. TE Map 3.6 illustrates the required future traffic circulation network through the short term planning period. TE Map 3.8 depicts the 2023 Future Functional Classification and anticipated right-of-way for the 2023 Future traffic circulation network. The road characteristics and level of service for Year 2023 are summarized below in Table 3.3.

**Table 3.3: Year 2023 Peak Hour Peak Direction LOS**

Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2023 Peak Hour Peak Direction Volume	2023 LOS
Seminole Pratt Whitney Road	N. of Sycamore Drive West	Persimmon Blvd	4LD	D	Minor Arterial	2,000	1,735	C
Seminole Pratt Whitney Road	Persimmon Blvd	East Town Center Parkway	4LD	D	Minor Arterial	2,000	1,673	C
Seminole Pratt Whitney Road	East Town Center Parkway	60 <sup>th</sup> Street	4LD	D	Minor Arterial	2,000	1,737	C
East Town Center Parkway	Seminole Pratt Whitney Road	West Round-about	2LU	D	Major Collector	675	424	D
East Town Center Parkway	West Round-about	Eastern Terminus	2LU	D	Major Collector	792	183	C
Persimmon Boulevard East	Seminole Pratt	Eastern Terminus	4LD	D	Major Collector	1,800	96	C



Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2023 Peak Hour Peak Direction Volume	2023 LOS
	Whitney Road							
Southeast Town Center Parkway	Seminole Pratt Whitney Road	West Round-about	2LU	D	Major Collector	675	241	C
Persimmon Boulevard West	Western Terminus	Seminole Pratt Whitney Road	2LU	D	Minor Collector	675	29	C
Saddle Bay Drive	Seminole Pratt Whitney Road	CSP	2LU	D	Minor Collector	675	39	C
CS-E4	Seminole Pratt Whitney Road	CSP	2LU	D	Minor Collector	675	135	C

\*Source: FDOT Generalize Service Volume Tables (12/18/12)

Note: The projected development for the short term planning period did not have a significant impact on all links. The links that were not significantly impacted have been excluded from this table. See Exhibits 3B and 3C of Appendix A.

While the traffic circulation network is expected to meet adopted level of service standards in both the 2023 and 2038 planning periods given the planned future development of the City, changes to planned developments could occur over time that, if not monitored, result in transportation deficiencies. For this reason, the City will implement a Mobility System to review proposed development projects with respect to transportation standards. The Mobility System will be implemented through the Land Development Regulations that will specify development review procedures and transportation mitigation options, including proportionate share agreements for new development and will integrate review by of impacts to regional roads by Palm Beach County pursuant to TPS. The Mobility System will also provide for regular and periodic monitoring of transportation facilities by the City to ensure that adopted transportation standards are maintained.

Finally, to provide for flexibility in development and to respond to long-term changes in the needs of the City’s residents, the Land Development Regulations may provide for a land use equivalency process, through which exchanges of different land uses, consistent with the Future Land Use Map (FLU Map 2.1), may be accomplished so long as the proposed development does not result in additional transportation impacts.



## EVACUATION ROUTES

There are no existing designated evacuation routes within the City. However, Seminole Pratt Whitney Road provides access to the designated evacuation route at US 441.

Future designation of evacuation routes within the City is not anticipated. However, it is essential to ensure the safe evacuation of residents within the City, if required, by monitoring routes connecting the City to designated evacuation routes. Maintaining capacity on Seminole Pratt Whitney Road at an acceptable level of service will facilitate the evacuation of City residents if necessary.

## MASS TRANSIT

Mass transit service in Palm Beach County is provided by Palm Tran. There is currently no fixed-route service within the City.

Americans with Disabilities Act (ADA) paratransit services are provided through Palm Tran Connection. This service is provided within 3/4 miles of a Palm Tran fixed-route bus service. Since no part of the City is currently within 3/4 mile of a Palm Tran fixed-route, Palm Tran Connection ADA paratransit services are not currently available within the City.

Transportation Disadvantaged services in Palm Beach County are also provided by Palm Tran Connection. Service is available to anywhere within Palm Beach County, including the City, for qualifying individuals.

As the City population grows, the viability of expanding transit service will increase, especially as commercial and other non-residential uses develop along Seminole Pratt Whitney Road. The City will regularly coordinate with Palm Tran, especially during updates of the Palm Tran Transit Development Plan (TDP), to ensure that transit needs of City residents are evaluated and appropriately serviced as the community grows.

## AVIATION

No airports, aviation facilities or other aviation-related developments currently exist or are proposed within the City. The closest airstrip is approximately 6.03 miles to the south in a fly-in fly-out residential neighborhood called the Wellington Aero Club. Palm Beach International Airport is approximately 11.3 miles southeast of the City and North Palm Beach County Airport is approximately 6.27 miles to the Northeast. The William P. Gwinn Airport, a private airport, is approximately 9.9 miles north of the City. A site plan has been approved for an additional airstrip approximately 8 miles from the City on Flying Cow Ranch Road. These measurements are based on the City border closest to the respective airports. Therefore, no airports are within or immediately adjacent to the City, and there are no issues concerning land use compatibility with airports.



## **PORTS**

The City does not contain and is not adjacent to any coastal areas or natural water bodies. The Port of Palm Beach is approximately 13.13 miles to the east of the City.

## **SHARED USE PATH, BICYCLE LANES, AND SIDEWALKS**

A shared use path has been constructed along both sides of Seminole Pratt Whitney Road and Town Center Parkway East. The shared use path runs almost the entire length of Seminole Pratt Whitney Road, and in the areas where there is not a shared use path, there is a sidewalk. There are also existing bicycle lanes along Seminole Pratt Whitney Road and Town Center Parkway East. Existing bicycle lanes, sidewalks, and shared use paths are depicted on TE Map 3.3.

The City envisions a multi-modal transportation system that appropriately utilizes a combination of roads, mass transit facilities, shared use paths, bicycle lanes, and sidewalks, and other elements of complete streets to serve its residents and visitors to the City. As part of the City's overall vision, non-motorized transportation will continue to be accommodated and encouraged to reduce the need for motorized transportation within the City, especially between residential and non-residential uses. The shared use paths, bicycle lanes, and sidewalks planned through the 2023 planning period are depicted on TE Map 3.9. TE Map 3.7 illustrates the future shared use paths, sidewalks, and bicycle lanes along collector and arterial roads through the 2038 planning period.

As part of the recreational amenities with the City, shared use paths may be established in non-developed or other open space areas. The City will take steps to ensure that where shared use paths, sidewalks, or bicycle lanes are co-located with other transportation facilities, appropriate design measures are taken to facilitate the safety of all travelers. This will also apply where shared use paths, sidewalks, or bicycle lanes cross other transportation facilities.



**CITY OF WESTLAKE  
COMPREHENSIVE PLAN - TRANSPORTATION ELEMENT  
DATA AND ANALYSIS**

**Prepared by**

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**#PTC15-074  
September 18, 2017  
Revised February 26, 2018**

**CITY OF WESTLAKE  
 COMPREHENSIVE PLAN – TRANSPORTATION ELEMENT  
 DATA AND ANALYSIS**

**INTRODUCTION**

The purpose of this analysis is to develop the transportation network for the City of Westlake that meets the adopted level of service standards. This analysis includes an examination of traffic conditions in five years (Year 2023) and long range (Year 2038) timeframes. The City boundaries are located on the east and west sides of Seminole Pratt-Whitney Road, south of 60<sup>th</sup> Street and north of Sycamore Drive as shown on Exhibit 1.

**LAND USE DATA**

The Minto West project that is included within the boundaries of the City of Westlake received approvals for residential and non-residential uses. The non-residential uses included in the Year 2038 analysis are based on the current approvals and the residential uses are based on population projections. For this analysis, the following land use scenarios were examined:

<u>Land Use</u>	<u>Year 2023</u>	<u>Year 2038</u>
Single Family Residential Units	1,213 DUs	4,977 DUs
Multi-family Residential Units	362 DUs	1,523 DUs
Professional Office	146,250 SF	450,000 SF
Research & Development	195,000 SF	600,000 SF
Retail	146,250 SF	500,000 SF
Light Industrial	162,500 SF	450,000 SF
Government Office		50,000 SF
Hotel	150 Rooms	150 Rooms
Community College		3000 Students
Elementary School		970 Students
Civic Uses	Varies *	Varies *

\* Includes parks, community center, day care, fire station and sheriff's substation.

## **LEVEL OF SERVICE (LOS) STANDARD**

The LOS Standard for the roadways within the City of Westlake is proposed to be LOS D for all roadways. The LOS D service volumes were obtained from the 2012 FDOT Quality / Level of Service Handbook. Adjustment factors for Non-State Signalized Roadways and exclusive left turn lanes were applied as appropriate.

## **FIVE YEAR ANALYSIS (YEAR 2023)**

### **Trip Generation**

Palm Beach County and the Institute of Transportation Engineers (ITE), *Trip Generation, 9<sup>th</sup> Edition*, were the sources of trip generation data utilized in this study. The first phase of development is mixed use which allows for internalization of trips. Daily trips generated by the Five Year development are shown on Exhibit 2A. Exhibits 2B and 2C provide the AM and PM peak hour trip generation data for the Five Year development. Internalization matrices are included in Appendix A.

### **Trip Distribution and Assignment**

In order to determine the impact of the proposed development's traffic on the surrounding roadway network, a directional distribution was developed based upon a review of approved projects in the area and the Five Year roadway network. Exhibit 3A provides the project traffic distribution for the City of Westlake surrounding roadway network. Exhibits 3B and 3C provide the project traffic assignment to these roadways.

### **Existing Traffic Conditions**

Existing (2016/2017) peak season daily and peak hour traffic volumes obtained from the Palm Beach County Traffic Division were reviewed. Traffic count data is provided in Appendix B.

### **Roadway Improvements**

Seminole Pratt-Whitney Road from Persimmon Boulevard to 60<sup>th</sup> Street is currently under construction to be widened to four lanes.

## **Background Growth**

Historic growth trends and committed development traffic must be analyzed in the projection of future background traffic volumes. Historic growth data was reviewed for the last 10 years as included in Appendix B. The overall trend for the last 10 years is negative with the most recent 5 years having positive growth. Historic growth data for the last 5 years is provided on Exhibit 4 for the surrounding roadway links and was used in this analysis.

Committed development data, compiled by Palm Beach County, was reviewed. Numerous projects were considered in the projection of background traffic. Committed development data is provided in Appendix C. Total traffic includes existing traffic, committed development traffic, background growth and Project traffic. The higher of the historic growth or the committed development traffic plus 1% growth was used for background growth.

## **Capacity Analysis**

Exhibits 5A and 5B show future AM and PM peak hour directional traffic conditions for the Five Year analysis, Year 2023, for the City of Westlake roadway links. All roadway links are projected to meet the adopted standards.

## **LONG RANGE ANALYSIS (YEAR 2038)**

### **Transportation Model**

Consistent with Florida Statutes Section 163.3177(6)(b), which requires that the transportation element of the Plan be consistent with plans and programs of the Palm Beach Transportation Planning Agency (TPA) and FDOT, the City utilized the TPA's 2040 model to analyze the impacts to roads from anticipated development over the long range planning period. For this Long Range analysis, the Palm Beach TPA's latest model, SERPM Version 7.062, was obtained.

This model analyzes Year 2040 conditions; therefore, it provides a conservative analysis for the Year 2038 analysis. The SERPM Version 7.062 was updated by the Palm Beach TPA to include the approved Minto West and Avenir projects. The model inputs were updated to include the City of Westlake anticipated additional population growth from 4,546 to 6,500 residential dwelling units.

In addition to incorporating the City of Westlake projected population growth, two (2) other large proposed developments in the area were added to the model. These projects include Indian Trails Grove and Central Park of Commerce. The land use inputs are provided below and are also included in Appendix D. The non-residential square footage was converted to employment data per SERPM guidelines with the results provided in Appendix D.

**Indian Trails Grove**

<u>TAZ</u>	<u>Residential Uses</u>	<u>Non-Residential Uses</u>
857	3,543 Single Family DUs 400 Multi-family DUs	300,000 SF Retail 20,000 SF Industrial 30,000 SF Professional Office 2000 Student High School

**Central Park of Commerce**

<u>TAZ</u>	<u>Residential Uses</u>	<u>Non-Residential Uses</u>
863		120,000 SF Industrial 680,000 SF Warehouse 420 Employee Data Center 20,000 SF Office

**Capacity Analysis**

The model run plots are provided in Appendix D. Population data is also included in the Appendix. In the model, the northern east/west roadway within Westlake represents both 60<sup>th</sup> Street and Town Center Parkway. A selected link analysis was completed to determine traffic volumes that would only utilize 60<sup>th</sup> Street. This analysis is also included in Appendix D. Adjustments to the Seminole Pratt-Whitney Road model volumes were made based upon comparison between the 2010 model and 2010 FDOT counts as provided on Exhibit D-1 in Appendix D.

The daily model volumes were then assigned to the internal roadway network on a pod by pod basis as shown on Exhibit D-2 in Appendix D. Thru volumes for Persimmon Boulevard were estimated from a selected link analysis as provided in Appendix D. These daily volumes were then converted to peak hour directional volumes based on a K factor of 0.09, which is the Standard K factor for

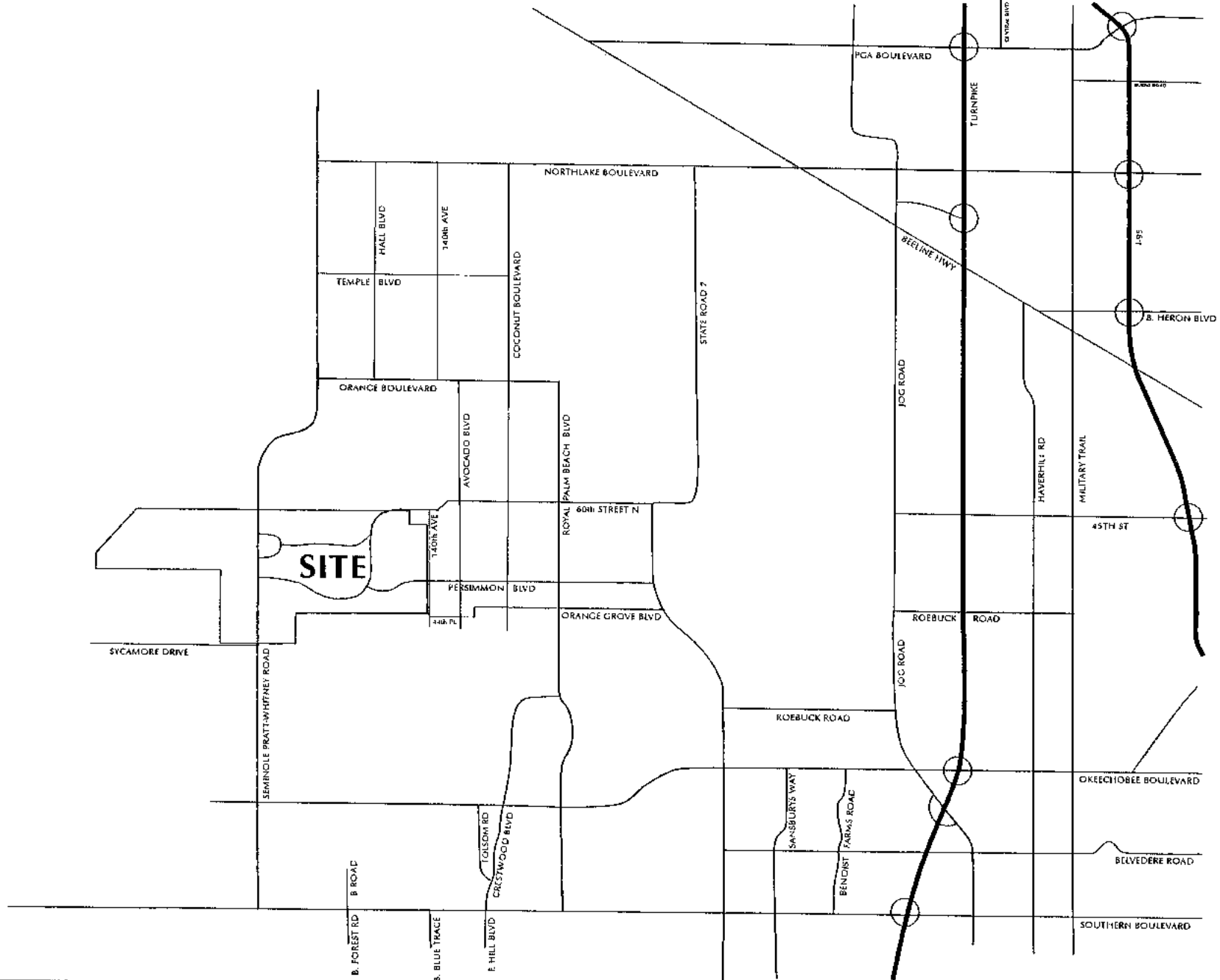
arterial roadways, and a D factor of 0.604 based on the nearest FDOT count station on Seminole Pratt-Whitney Road.

Exhibit 6 provides the Year 2038 peak hour directional traffic conditions for the City of Westlake roadway links. The roadway links are projected to meet the adopted standards.

## **CONCLUSIONS**

This analysis shows that the proposed Five Year and Long Range roadway network can accommodate the anticipated development for the City of Westlake while providing operation at the adopted levels of service.

## **EXHIBITS**



CITY OF WESTLAKE

EXHIBIT 1  
PROJECT LOCATION

3/1/16  
15-074





**Exhibit 2A**  
**City of Westlake**  
**Daily Trip Generation - Five Year Analysis**

**East Side**

Land Use	ITE Code	Intensity	Trip Generation Rate (1)	Total Trips	Internal Trips (2)		External Trips	Pass-by Trips (1)		New Trips
Residential - SF	210	1,213 DUs	10 /DU	12,130	1,034	8.5%	11,096	-	0%	11,096
Residential - MF Condos.	230	362 DUs	6.65 /DU	2,407	301	12.5%	2,106	-	0%	2,106
Hotel	310	150 Rooms	8.92 /Room	1,338	462	34.5%	876	88	10%	788
General Office	710	146,250 SF	$\text{Ln (T) = 0.77Ln (X)+3.65}$	1,788	256	14.3%	1,532	153	10%	1,379
Research & Devel.	760	195,000 SF	$\text{Ln (T) = 0.83Ln (X)+3.09 (3)}$	1,749	250	14.3%	1,499	150	10%	1,349
Light Industrial	110	162,500 SF	6.97 /1000 SF	1,133	162	14.3%	971	97	10%	874
Retail	820	146,250 SF	$\text{Ln (T) = 0.65Ln (X)+5.83}$	8,695	870	10.0%	7,825	2,880	36.8%	4,945
Civic Uses			(3)	338	-	0.0%	338	0	0%	338
<b>TOTALS</b>				29,578	3,335	11.3%	26,243	3,368		22,875

(1) Source: Palm Beach County ULDC Article 13, unless otherwise noted.

(2) Utilized average of individual AM and PM peak hour internalization rates. Retail reduced to 10 %. See Appendix A for internalization matrices.

(3) Source: Includes 17 acre park, fire station and sheriff's substation. See Appendix A for trip calculations.

**Exhibit 2B**  
**City of Westlake**  
**AM Peak Hour Trip Generation - Five Year Analysis**

**East Side**

Land Use	ITE Code	Intensity	Trip Generation Rate (1)	Total Trips			Internal Trips (2)		External Trips			Pass-by Trips (3)		New Trips		
				In	Out	Total	In	Out	In	Out	Total	In	Out	Total		
Residential - SF (F,L,P,Q)	210	1,213 DUs	0.75 /DU (25/75)	228	682	910	41	4.5%	222	647	869	-	0%	222	647	869
Residential - MF Condos.	230	362 DUs	$\ln(T) = 0.80\ln(x)+0.26$ (17/83)	25	120	145	7	4.5%	24	114	138	-	0%	24	114	138
Hotel	310	150 Rooms	0.53 /Room (59/41)	47	33	80	24	30.0%	45	11	56	6	10%	41	9	50
General Office	710	146,250 SF	$\ln(T) = 0.80\ln(x)+1.57$ (88/12)	228	31	259	37	14.2%	201	21	222	22	10%	181	19	200
Research & Devel.	760	195,000 SF	$\ln(T) = 0.87\ln(x)+0.86$ (83/17)	193	39	232	33	14.2%	171	28	199	20	10%	154	25	179
Light Industrial	110	162,500 SF	0.92 /1000 SF (88/12)	132	18	150	21	14.2%	117	12	129	13	10%	105	11	116
Retail	820	146,250 SF	0.96 /1000 SF (62/38)	87	53	140	57	40.7%	50	33	83	31	36.8%	32	20	52
Civic Uses			(4)	20	3	23	-	0.0%	20	3	23	0	0%	20	3	23
<b>TOTALS</b>				<b>960</b>	<b>979</b>	<b>1,939</b>	<b>220</b>	<b>11.3%</b>	<b>850</b>	<b>869</b>	<b>1,719</b>	<b>92</b>		<b>779</b>	<b>848</b>	<b>1,627</b>

(1) Source: Institute of Transportation Engineers, Trip Generation, 9th Edition, unless otherwise noted.

(2) Internalization matrices are included in Appendix A.

(3) Source: Palm Beach County ULDC Article 13.

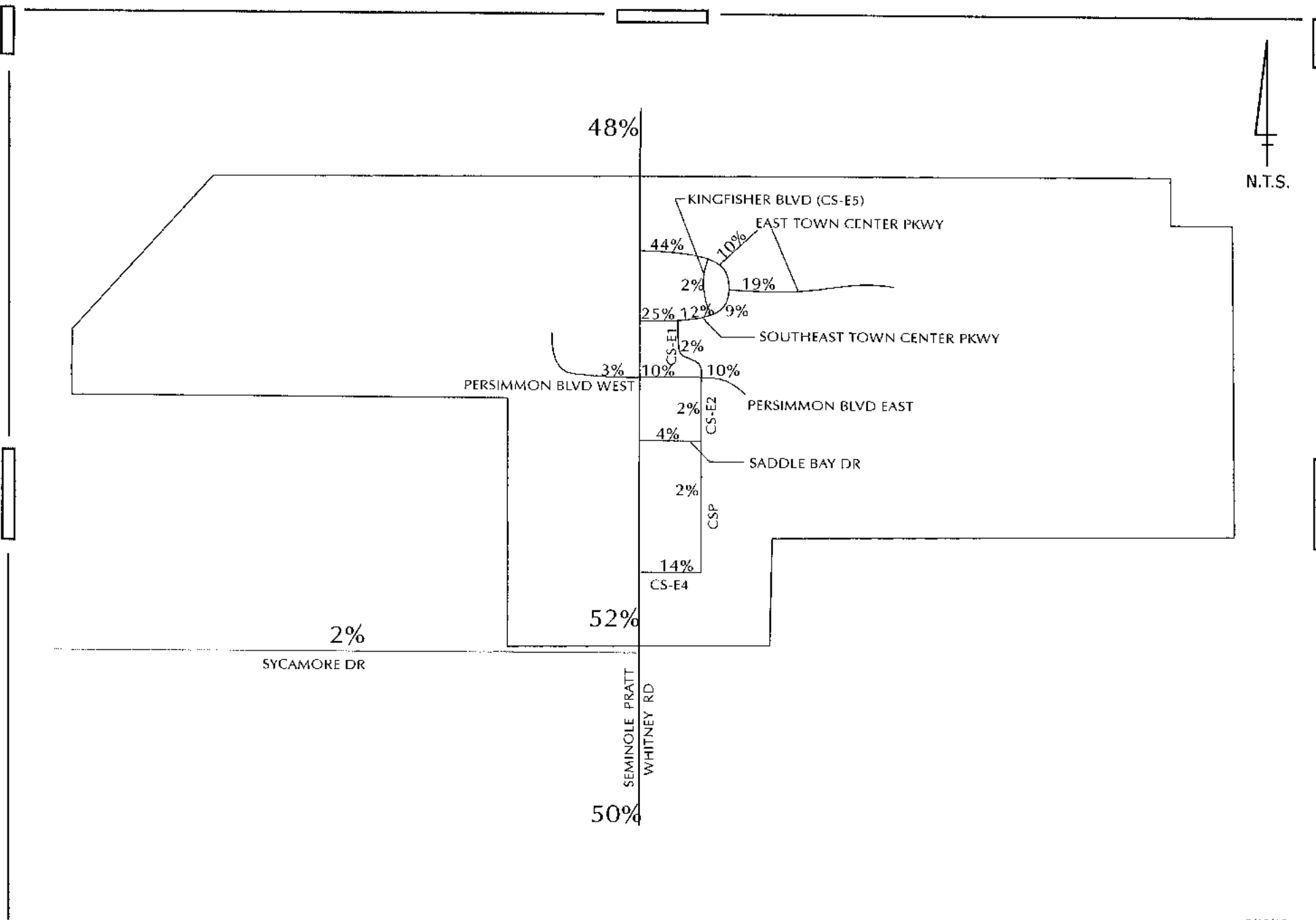
(4) Source: Includes 17 acre park, fire station and sheriff's substation. See Appendix A for trip calculations.

**Exhibit 2C**  
**City of Westlake**  
**PM Peak Hour Trip Generation - Five Year Analysis**

**East Side**

Land Use	ITE Code	Intensity	Trip Generation Rate (1)	Total Trips			Internal Trips (2)		External Trips			Pass-by Trips (3)		New Trips		
				In	Out	Total	In	Out	In	Out	Total	In	Out	Total		
Residential - SF (F,L,P,Q)	210	1,213 DUs	$\ln(T) = 0.90\ln(x)+0.51$ (63/37)	626	367	993	204	20.5%	484	305	789	-	0%	484	305	789
Residential - MF Condos.	230	362 DUs	$\ln(T) = 0.82\ln(x)+0.32$ (67/33)	116	57	173	35	20.5%	90	48	138	-	0%	90	48	138
Hotel	310	150 Room	0.6 /Room (51/49)	46	44	90	35	38.9%	24	31	55	6	10%	22	27	49
General Office	710	146,250 SF	1.49 /1000 SF (17/83)	37	181	218	31	14.4%	26	161	187	19	10%	23	145	168
Research & Devel.	760	195,000 SF	$\ln(T) = 0.83\ln(X)+1.06$ (15/85)	35	195	230	33	14.4%	25	172	197	20	10%	23	154	177
Light Industrial	110	162,500 SF	0.97 /1000 SF (12/88)	19	139	158	23	14.4%	14	121	135	14	10%	13	108	121
Retail	820	146,250 SF	$\ln(T) = 0.67\ln(X)+3.31$ (48/52)	371	402	773	249	32.2%	282	242	524	193	36.8%	178	153	331
Civic Uses			(4)	10	23	33	-	0.0%	10	23	33	-	0%	10	23	33
<b>TOTALS</b>				<b>1,260</b>	<b>1,408</b>	<b>2,668</b>	<b>610</b>	<b>22.9%</b>	<b>955</b>	<b>1,103</b>	<b>2,058</b>	<b>252</b>		<b>843</b>	<b>963</b>	<b>1,806</b>

- (1) Source: Institute of Transportation Engineers, Trip Generation, 9th Edition, unless otherwise noted.
- (2) Internalization matrices are included in Appendix B.
- (3) Source: Palm Beach County ULDC Article 13.
- (4) Source: Includes 17 acre park, fire station and sheriff's substation. See Appendix A for trip calculations.



CITY OF WESTLAKE

EXHIBIT 3A  
FIVE YEAR PROJECT DISTRIBUTION

2/12/18  
15-074  
**PTC**

**Exhibit 3B**  
**City of Westlake**  
**Project Traffic Assignment - Five Year Significance AM Peak Hour**

Roadway	Link	Lanes	Class	Dir	LOS D Service Volume (2)	Project Traffic		Total Project Impact	Sig- nificant Impact?
						% Dist	Pk Hour Trips		
East Town Center Parkway	Seminole Pratt Whitney to Roundabout	2LU	II	EB	675	44%	343	50.81%	YES
				WB			373	55.26%	YES
	Roundabout to East Terminus	2LU	I	EB	792	19%	148	18.69%	YES
				WB			161	20.33%	YES
Persimmon Boulevard East	Seminole Pratt Whitney to East Terminus	4LD	I	EB	1800	10%	78	4.33%	YES
				WB			85	4.72%	YES
Seminole Pratt Whitney Rd	Sycamore Dr to Persimmon Blvd	4LD	I	NB	2000	52%	405	20.25%	YES
				SB			441	22.05%	YES
	Persimmon Blvd to East Town Center Parkway (3)	4LD	I	NB	2000	(1)	343	17.15%	YES
				SB			341	17.05%	YES
	East Town Center Parkway to 60th Street (3)	4LD	I	NB	2000	48%	407	20.35%	YES
				SB			374	18.70%	YES
Southeast Town Center Pkwy	Seminole Pratt Whitney to East Town Center Pkwy	2LU	II	EB	675	25%	195	28.89%	YES
				WB			212	31.41%	YES
Persimmon Boulevard West	West Terminus to Seminole Pratt Whitney	2LU	II	EB	675	3%	25	3.70%	YES
				WB			23	3.41%	YES
Kingfisher Blvd	SE Town Center Pkwy to East Town Center Pkwy	2LU	II	NB	675	2%	17	2.52%	No
				SB			16	2.37%	No
Saddle Bay Dr	Seminole Pratt Whitney to CSP	2LU	II	EB	675	4%	31	4.59%	YES
				WB			34	5.04%	YES
CS-E1	Persimmon Blvd East to SE Town Center Parkway	2LU	II	NB	675	2%	17	2.52%	No
				SB			16	2.37%	No
CS-E2	Saddle Bay Dr to Persimmon Blvd East	2LU	II	EB	675	2%	17	2.52%	No
				WB			16	2.37%	No
CSP	CS-E4 to Saddle Bay Dr	2LU	II	EB	675	2%	17	2.52%	No
				WB			16	2.37%	No
CS-E4	Seminole Pratt Whitney to CSP	2LU	II	EB	675	14%	109	16.15%	YES
				WB			119	17.63%	YES

(1) NB: 19% In and 23% Out; SB: 10% In and 31% Out.

(2) Utilized 2012 FDOT Quality/LOS Handbook Tables. Service volumes for City roads adjusted using FDOT factors for Non-State Signalized Roadway (-10%) and Exclusive Left Turn Lanes (+5% for 2-lane facility).

(3) 4LD improvement is under construction.

**Exhibit 3C**  
**City of Westlake**  
**Project Traffic Assignment - Five Year Significance PM Peak Hour**

Roadway	Link	Lanes	Class	Dir	LOS D Service Volume (2)	Project Traffic		Total Project Impact	Sig- nificant Impact?
						% Dist	Pk Hour Trips		
East Town Center Parkway	Seminole Pratt Whitney to Roundabout	2LU	II	EB	675	44%	371	54.96%	YES
				WB			424	62.81%	YES
	Roundabout to East Terminus	2LU	I	EB	792	19%	160	20.20%	YES
Persimmon Boulevard East	Seminole Pratt Whitney to East Terminus	4LD	I	WB	1800	10%	183	23.11%	YES
				EB			84	4.67%	YES
				WB			96	5.33%	YES
Seminole Pratt Whitney Rd	Sycamore Dr to Persimmon Blvd	4LD	I	NB	2000	52%	438	21.90%	YES
				SB			501	25.05%	YES
	Persimmon Blvd to East Town Center Parkway (3)	4LD	I	NB	2000	(1)	382	19.10%	YES
				SB			383	19.15%	YES
	East Town Center Parkway to 60th Street (3)	4LD	I	NB	2000	48%	462	23.10%	YES
				SB			405	20.25%	YES
Southeast Town Center Pkwy	Seminole Pratt Whitney to East Town Center Pkwy	2LU	II	EB	675	25%	211	31.26%	YES
				WB			241	35.70%	YES
Persimmon Boulevard West	West Terminus to Seminole Pratt Whitney	2LU	II	EB	675	3%	29	4.30%	YES
				WB			25	3.70%	YES
Kingfisher Blvd	SE Town Center Pkwy to East Town Center Pkwy	2LU	II	NB	675	2%	19	2.81%	No
				SB			17	2.52%	No
Saddle Bay Dr	Seminole Pratt Whitney to CSP	2LU	II	EB	675	4%	34	5.04%	YES
				WB			39	5.78%	YES
CS-E1	Persimmon Blvd East to SE Town Center Parkway	2LU	II	NB	675	2%	19	2.81%	No
				SB			17	2.52%	No
CS-E2	Saddle Bay Dr to Persimmon Blvd East	2LU	II	EB	675	2%	19	2.81%	No
				WB			17	2.52%	No
CSP	CS-E4 to Saddle Bay Dr	2LU	II	EB	675	2%	19	2.81%	No
				WB			17	2.52%	No
CS-E4	Seminole Pratt Whitney to CSP	2LU	II	EB	675	14%	118	17.48%	YES
				WB			135	20.00%	YES

(1) NB: 19% In and 23% Out; SB: 10% In and 31% Out.

(2) Utilized 2012 FDOT Quality/LOS Handbook Tables. Service volumes for City roads adjusted using FDOT factors for Non-State Signalized Roadway (-10%) and Exclusive Left Turn Lanes (+5% for 2-lane facility).

(3) 4LD improvement is under construction.

**Exhibit 4**  
**City of Westlake**  
**Historic Growth - Year 2023 Analysis**

Roadway	Link	Peak Season Daily Traffic Volumes		Growth Rate
		2012	2017	
Seminole Pratt Whitney Rd	Okeechobee Blvd to Sycamore Dr	N/A	20,942	N/A /Year
	Sycamore Dr to 60th St N (1)	16,094	19,259	3.66% /Year
	60th St N to Orange Blvd	12,152	16,514	6.33% /Year
	Orange Blvd to Northlake Blvd	10,118	13,655	6.18% /Year

(1) Utilized available 5 year growth calculation from 2011 to 2016.

**Exhibit 5A**  
**City of Westlake**  
**Five Year Link Analysis (Year 2023) - AM Peak Hour**

Roadway	Link	Lanes	Adopted LOS	Road Class	Dir	AM PEAK HOUR									
						Existing (2016) (1)	Committed Dev. Analysis (2)			Growth (2023)		Project	Total (2023)	Service Volume (4)	Meets Std?
							Projects	Growth	Total	Volume	%/Year				
East Town Center Parkway	Seminole Pratt Whitney to Roundabout	2LU	D	II	EB	-	-	-	-	-	-	343	343	675	Yes
	Seminole Pratt Whitney to Roundabout	2LU	D	II	WB	-	-	-	-	-	-	373	373	675	Yes
	Roundabout to East Terminus	2LU	D	I	EB	-	-	-	-	-	-	148	148	792	Yes
	Roundabout to East Terminus	2LU	D	I	WB	-	-	-	-	-	-	161	161	792	Yes
Persimmon Boulevard	Seminole Pratt Whitney to East Terminus	4LD	D	I	EB	-	-	-	-	-	-	78	78	1,800	Yes
	Seminole Pratt Whitney to East Terminus	4LD	D	I	WB	-	-	-	-	-	-	85	85	1,800	Yes
Seminole Pratt Whitney Rd	Sycamore Dr to Persimmon Blvd	4LD	D	I	NB	970	290	70	360	278	3.66%	405	1,735	2,000	Yes
	Sycamore Dr to Persimmon Blvd	4LD	D	I	SB	999	218	72	290	286	3.66%	441	1,730	2,000	Yes
	Persimmon Blvd to E. Town Center Pkwy (3)	4LD	D	I	NB	970	290	70	360	278	3.66%	343	1,673	2,000	Yes
	Persimmon Blvd to E. Town Center Pkwy (3)	4LD	D	I	SB	999	218	72	290	286	3.66%	341	1,630	2,000	Yes
	East Town Center Pkwy to 60th Street (3)	4LD	D	I	NB	970	290	70	360	278	3.66%	407	1,737	2,000	Yes
	East Town Center Pkwy to 60th Street (3)	4LD	D	I	SB	999	218	72	290	286	3.66%	374	1,663	2,000	Yes
Southeast Town Center Pkwy	Seminole Pratt Whitney to East TCP	2LU	D	II	EB	-	-	-	-	-	-	195	195	675	Yes
	Seminole Pratt Whitney to East TCP	2LU	D	II	WB	-	-	-	-	-	-	212	212	675	Yes
Persimmon Blvd West	West Terminus to Seminole Pratt Whitney	2LU	D	II	EB	-	-	-	-	-	-	25	25	675	Yes
	West Terminus to Seminole Pratt Whitney	2LU	D	II	WB	-	-	-	-	-	-	23	23	675	Yes
Saddle Bay Dr	Seminole Pratt Whitney to CSP	2LU	D	II	EB	-	-	-	-	-	-	31	31	675	Yes
	Seminole Pratt Whitney to CSP	2LU	D	II	WB	-	-	-	-	-	-	34	34	675	Yes
CS-E4	Seminole Pratt Whitney to CSP	2LU	D	II	EB	-	-	-	-	-	-	109	109	675	Yes
	Seminole Pratt Whitney to CSP	2LU	D	II	WB	-	-	-	-	-	-	119	119	675	Yes

(1) Count data from Palm Beach County. See Appendix B. Year 2017 count data unavailable for this link of Seminole Pratt-Whitney Road.

(2) Committed development data from Palm Beach County. See Appendix C.

(3) 4LD improvement is under construction.

(4) Utilized 2012 FDOT Quality/LOS Handbook Tables. Service volumes for City roads adjusted using FDOT factors for Non-State Signalized Roadway (-10%) and Exclusive Left Turn Lanes (+5% for 2-lane facility).



**Exhibit 5B**  
**City of Westlake**  
**Five Year Link Analysis (Year 2023) - PM Peak Hour**

Roadway	Link	Lanes	Adopted LOS	Road Class	Dir	PM PEAK HOUR									
						Existing (2016) (1)	Committed Dev. Analysis (2)			Growth (2023)		Project	Total (2023)	Service Volume (4)	Meets Std?
						Projects	Growth	Total	Volume	%/Year					
Fast Town Center Parkway	Seminole Pratt Whitney to Roundabout	2LU	D	II	EB	-	-	-	-	-	-	371	371	675	Yes
	Seminole Pratt Whitney to Roundabout	2LU	D	II	WB	-	-	-	-	-	-	424	424	675	Yes
	Roundabout to East Terminus	2LU	D	I	EB	-	-	-	-	-	-	160	160	792	Yes
	Roundabout to East Terminus	2LU	D	I	WB	-	-	-	-	-	-	183	183	792	Yes
Persimmon Boulevard	Seminole Pratt Whitney to East Terminus	4LD	D	I	EB	-	-	-	-	-	-	84	84	1,800	Yes
	Seminole Pratt Whitney to East Terminus	4LD	D	I	WB	-	-	-	-	-	-	96	96	1,800	Yes
Seminole Pratt Whitney Rd	Sycamore Dr to Persimmon Blvd	4LD	D	I	NB	865	330	62	392	247	3.66%	438	1,695	2,000	Yes
	Sycamore Dr to Persimmon Blvd	4LD	D	I	SB	837	332	60	392	239	3.66%	501	1,730	2,000	Yes
	Persimmon Blvd to E. Town Center Pkwy (3)	4LD	D	I	NB	865	330	62	392	247	3.66%	382	1,639	2,000	Yes
	Persimmon Blvd to E. Town Center Pkwy (3)	4LD	D	I	SB	837	332	60	392	239	3.66%	383	1,612	2,000	Yes
	East Town Center Pkwy to 60th Street (3)	4LD	D	I	NB	865	330	62	392	247	3.66%	462	1,719	2,000	Yes
	East Town Center Pkwy to 60th Street (3)	4LD	D	I	SB	837	332	60	392	239	3.66%	405	1,634	2,000	Yes
Southeast Town Center Pkwy	Seminole Pratt Whitney to East TCP	2LU	D	II	EB	-	-	-	-	-	-	211	211	675	Yes
	Seminole Pratt Whitney to East TCP	2LU	D	II	WB	-	-	-	-	-	-	241	241	675	Yes
Persimmon Blvd West	West Terminus to Seminole Pratt Whitney	2LU	D	II	EB	-	-	-	-	-	-	29	29	675	Yes
	West Terminus to Seminole Pratt Whitney	2LU	D	II	WB	-	-	-	-	-	-	25	25	675	Yes
Saddle Bay Dr	Seminole Pratt Whitney to CSP	2LU	D	II	EB	-	-	-	-	-	-	34	34	675	Yes
	Seminole Pratt Whitney to CSP	2LU	D	II	WB	-	-	-	-	-	-	39	39	675	Yes
CS-E4	Seminole Pratt Whitney to CSP	2LU	D	II	EB	-	-	-	-	-	-	118	118	675	Yes
	Seminole Pratt Whitney to CSP	2LU	D	II	WB	-	-	-	-	-	-	135	135	675	Yes

(1) Count data from Palm Beach County. See Appendix B. Year 2017 count data unavailable for this link of Seminole Pratt-Whitney Road.

(2) Committed development data from Palm Beach County. See Appendix C.

(3) 4LD improvement is under construction.

(4) Utilized 2012 FDOT Quality/LOS Handbook Tables. Service volumes for City roads adjusted using FDOT factors for Non-State Signalized Roadway (-10%) and Exclusive Left Turn Lanes (+5% for 2-lane facility).

## Exhibit 6

## City of Westlake (6,500 DUs)

## Long Range Link Analysis (Year 2038)

Roadway	Link	Lanes	Adopted LOS	Road Class	Functional Classification	Peak Hour Directional Serv. Vol. (1)	Model Volumes Daily (2)	Hourly Volume		Meets Std?
								2-Way	Peak Direction	
Seminole Pratt Whitney Rd	Sycamore Dr to Persimmon Blvd	6LD	D	I	Minor Arterial	3,020	44,023 (3)	3,962	2,393	Yes
Seminole Pratt Whitney Rd	Persimmon Blvd to 60th Street	6LD	D	I	Minor Arterial	3,020	37,892 (3)	3,410	2,060	Yes
East Town Center Parkway	Seminole Pratt Whitney Rd to West Roundabout	2LU	D	II	Major Collector	675	10,473 (4)	943	570	Yes
East Town Center Parkway	West Roundabout to PSM-N-N2	4LD	D	I	Major Collector	1,800	15,893 (4)	1,430	864	Yes
East Town Center Parkway	PSM-N-N2 to 60th Street N.	4LD	D	I	Major Collector	1,800	10,675 (4)	961	580	Yes
Southeast Town Center Parkway	Seminole Pratt Whitney Rd to West Roundabout	2LU	D	II	Major Collector	675	8,234 (4)	741	448	Yes
Southwest Town Center Parkway	West Town Center Pkwy to Seminole Pratt Whitney Rd	2LU	D	II	Major Collector	675	4,111 (4)	370	223	Yes
West Town Center Parkway	Western Terminus to Southwest Town Center Parkway	2LU	D	II	Major Collector	675	1,748 (4)	157	95	Yes
West Town Center Parkway	Southwest Town Center Parkway to Seminole Pratt Whitney Rd	2LU	D	II	Major Collector	675	6,254 (4)	563	340	Yes
Persimmon Boulevard East	Seminole Pratt Whitney Rd to PSM-N-N2	4LD	D	I	Major Collector	1,800	18,650 (5)	1,679	1,014	Yes
Persimmon Boulevard East	PSM-N-N2 to 140th Ave	4LD	D	I	Major Collector	1,800	12,566 (5)	1,131	683	Yes
PSM-N-N2	Persimmon Blvd to East Town Center Parkway	2LD	D	II	Minor Collector	709	7,778 (4)	700	423	Yes
Persimmon Boulevard West (CS-W2)	SW Town Center Pkwy to Seminole Pratt Whitney Rd	2LU	D	II	Minor Collector	675	3,729 (4)	336	203	Yes
KK	CSP to Persimmon Blvd East	2LU	D	II	Minor Collector	675	6,281 (4)	565	341	Yes
CS-E4	Seminole Pratt Whitney Rd to CSP	2LU	D	II	Minor Collector	675	6,057 (4)	545	329	Yes
CSP	CS-E4 to KK	2LU	D	II	Minor Collector	675	7,822 (4)	704	425	Yes
CSP	KK to Saddle Bay Dr	2LU	D	II	Minor Collector	675	3,665 (4)	330	199	Yes
CS-E2	Saddle Bay Dr to Persimmon Blvd East	2LU	D	II	Minor Collector	675	3,665 (4)	330	199	Yes
CS-E1	Persimmon Blvd East to Southeast Town Center Pkwy	2LU	D	II	Minor Collector	675	7,681 (4)	691	417	Yes

**Exhibit 6****City of Westlake (6,500 DUs)****Long Range Link Analysis (Year 2038)**

Roadway	Link	Lanes	Adopted LOS	Road Class	Functional Classification	Peak Hour Directional Serv. Vol. (1)	Model Volumes Daily (2)		Hourly Volume		Meets Std?
							(4)	(6)	2-Way	Peak Direction	
Kingfisher Blvd	SE Town Center Pkwy to East Town Center Pkwy	2LU	D	II	Minor Collector	675	1,313	(4)	118	71	Yes
Saddle Bay Dr	Seminole Pratt Whitney Rd to CSP	2LU	D	II	Minor Collector	675	2,728	(4)	246	149	Yes
60th Street N	Western Terminus to West Town Center Parkway	4LD	D	I	Major Collector	1,800	20,830	(6)	1,875	1,133	Yes
60th Street N	West Town Center Pkwy to Seminole Pratt Whitney Rd	4LD	D	I	Major Collector	1,800	15,500	(6)	1,395	843	Yes
60th Street N	Seminole Pratt Whitney Rd to East Town Center Pkwy	2LU	D	II	Minor Collector	675	1,940	(7)	175	106	Yes
60th Street N	East Town Center Pkwy to 140th Street	4LD	D	I	Major Collector	1,800	12,615	(8)	1,135	686	Yes

(1) Utilized 2012 FDOT Quality/LOS Handbook Tables, adjusted using FDOT factors for Non-State Signalized Roadway (-10%) and Exclusive Left Turn Lanes (+5% for 2-lane divided facility). No factors were applied to Seminole Pratt Whitney Road.

(2) Based on 2040 long range model projections as provided in Appendix D; therefore, represents a conservative analysis for Year 2038.

(3) Model volumes adjusted based on 2010 model volume comparison with 2010 counts. See Appendix D - Exhibit D-1.

(4) Includes pod by pod assignment for the internal roadways which is also included in Appendix D - Exhibit D-2.

(5) Same as footnote 4 with 1,840 daily thru volumes added. See Appendix D for selected link analysis.

(6) Extracted West Town Center Parkway volumes from 60th Street North model volumes.

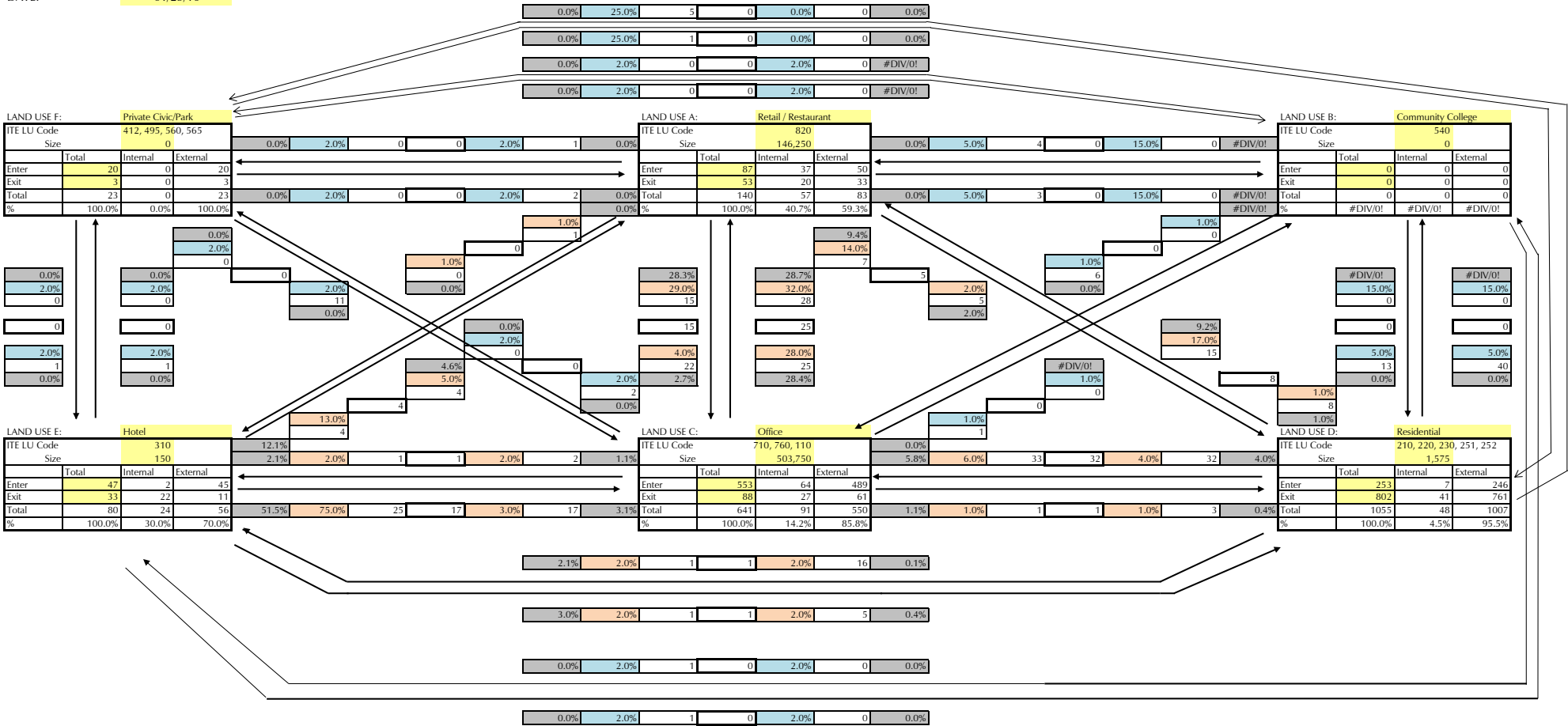
(7) See Appendix D for selected link analysis.

(8) Combined 60th Street North and East Town Center Parkway volumes.

## APPENDIX A

**INTERNAL CAPTURE WORKSHEET**

PROJECT: Westlake - East Side  
TIME PERIOD: AM Peak Hour Traffic  
DATE: 01/25/16



	Net External Trips for Multi-Use Development						TOTAL
	L.U. A	L.U. B	L.U. C	L.U. D	L.U. E	L.U. F	
Enter	50	0	489	246	45	20	850
Exit	33	0	61	761	11	3	869
Total	83	0	550	1007	56	23	1719
Single-Use Trip Gen. Estimate	140	0	641	1055	80	23	1939

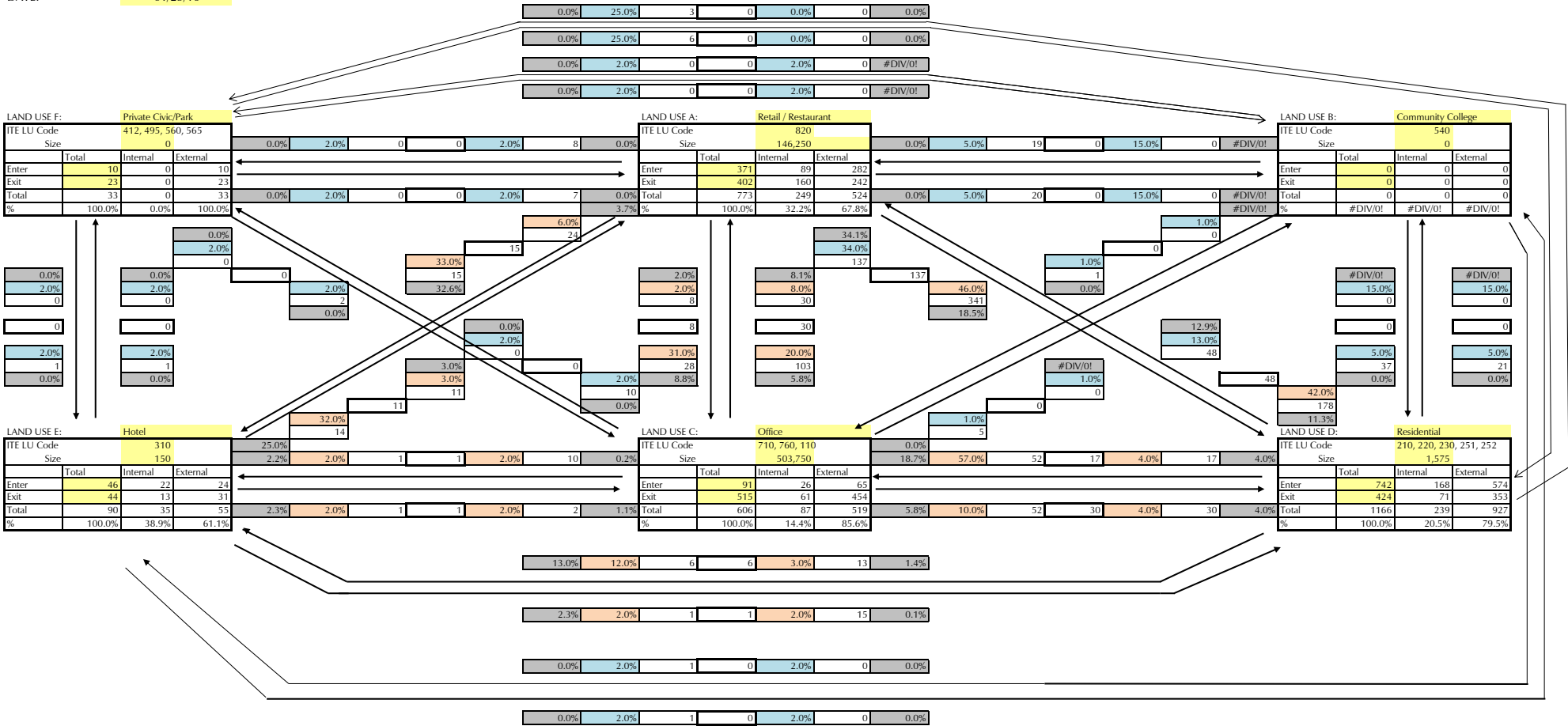
**INTERNAL CAPTURE**

**LEGEND**

- 1.0% Actual percent of trips entering (or exiting) a land use from another land use based on balanced number of trips.
- 5.0% Estimated percent of trips entering (or exiting) a land use from another land use based on NCHRP Report 684 (input by user).
- 5.0% Estimated percent of trips entering (or exiting) a land use from another land use (input by user).
- 61 Number of trips entering (or exiting) a land use from another land use based on percent input by user.
- 12 Balanced number of trips (lowest value) between two land uses.

**INTERNAL CAPTURE WORKSHEET**

PROJECT: Westlake - East Side  
TIME PERIOD: PM Peak Hour Traffic  
DATE: 01/25/16



	Net External Trips for Multi-Use Development						TOTAL
	L.U. A	L.U. B	L.U. C	L.U. D	L.U. E	L.U. F	
Enter	282	0	65	574	24	10	955
Exit	242	0	454	353	31	23	1103
Total	524	0	519	927	55	33	2058
Single-Use Trip Gen. Estimate	773	0	606	1166	90	33	2668
							22.9%

**INTERNAL CAPTURE**

LEGEND	
1.0%	Actual percent of trips entering (or exiting) a land use from another land use based on balanced number of trips.
5.0%	Estimated percent of trips entering (or exiting) a land use from another land use based on NCHRP Report 684 (input by user).
5.0%	Estimated percent of trips entering (or exiting) a land use from another land use (input by user).
61	Number of trips entering (or exiting) a land use from another land use based on percent input by user.
12	Balanced number of trips (lowest value) between two land uses.

**City of Westlake  
Trip Generation - Civic Uses - Phase 1**

**Daily**

Land Use	Intensity	Trip Generation Rate	Total Trips
Fire Station	1 Station	107 /Station (1)	107
Sheriff's Substation	1 Station	192 /Station (2)	192
Park	17 Acres	2.28 /Acre (3)	39
<b>Total</b>			<b>338</b>

**AM Peak Hour**

Land Use	Intensity	Trip Generation Rate	Total Trips		
			In	Out	Total
Fire Station	1 Station	7.9% of Daily (89/11) (4)	7	1	8
Sheriff's Substation	1 Station	7.9% of Daily (89/11) (4)	13	2	15
Park	17 Acres	0.02 /Acre (61/39) (3)	-	-	-
<b>Total</b>			<b>20</b>	<b>3</b>	<b>23</b>

**PM Peak Hour**

Land Use	Intensity	Trip Generation Rate	Total Trips		
			In	Out	Total
Fire Station	1 Station	10.2% of Daily (31/69) (4)	3	8	11
Sheriff's Substation	1 Station	10.2% of Daily (31/69) (4)	6	14	20
Park	17 Acres	0.09 /Acre (61/39) (3)	1	1	2
<b>Total</b>			<b>10</b>	<b>23</b>	<b>33</b>

(1) Source: Palm Beach County approved rate. Based on operational data for battalion headquarters.

(2) Source: Palm Beach County approved rate. Based on employees for PBSO Substations.

(3) Source: ITE, Trip Generation, 9th Edition - ITE Code 412.

(4) Estimated based on peak hour to daily ratio for Government Office Complex, ITE 733, from ITE, Trip Generation, 9th Edition.

## **APPENDIX B**



# 2017 COUNT DATA

STN#	ROAD	FROM	TO	LANES	PK HR LOS	DAILY TRAFFIC VOLUMES					2017 DAILY		16-17 GR	3YR GR	2017 AM PEAK HOUR			2017 PM PEAK HOUR		
						2012	2013	2014	2015	2016	DATE	VOL			2-WAY	NB/EB	SB/WB	2-WAY	NB/EB	SB/WB
3681	ROEBUCK RD	Haverhill Rd	Military Trail	2	810	9305	9334	9390	9916	9454	2/1/2017	9998	5.75%	2.11%	916	504	423	925	419	506
3107	ROEBUCK RD	Jog Rd	Haverhill Rd	2	880	18395	18295	18539	19457	20463	2/1/2017	22244	8.70%	6.26%	1966	1129	837	2217	866	1362
3426	ROYAL PALM BEACH BL	60th St	Persimmon Bl	4D	1960	14297	14621	14030	13868	13516	2/1/2017	15053	11.37%	2.37%	1132	482	659	1391	699	703
2402	ROYAL PALM BEACH BL	Orange Blvd	M Canal	2	880	15740	16300	15932	15664		2/1/2017	17556		3.29%	1354	542	856	1600	926	701
3454	SANSBURYS WAY	Okeechobee Bl	Belvedere Rd	2	880	10427	6287	6835	6607	7270	2/6/2017	7283	0.18%	2.14%	763	352	432	739	448	293
3414	SANSBURYS WAY	Belvedere Rd	Southern Blvd	2	880	6280	10945	11970	11057	12961	4/19/2017	14006	8.06%	5.38%	1049	610	456	1249	645	610
5800	SEACREST BLVD	Boynton Beach Blvd	Woolbright Rd	5	1960	12263	12680	11793	12985	13234	1/17/2017	13453	1.65%	4.49%	954	413	556	1241	693	554
4806	SEACREST BLVD	Hypoluxo Rd	Gateway Blvd	5	1960	12101	11543	11046	11738	13461	2/13/2017	13611	1.11%	7.21%	807	469	444	1199	691	519
5302	SEACREST BLVD	Gateway Blvd	Boynton Beach Blvd	5	1960	11566	11621	11423	13215	13466	1/17/2017	13782	2.35%	6.46%	953	381	573	1320	832	505
5802	SEACREST BLVD	Woolbright Rd	23rd Ave	4	1860	20933	19995	20566	21450	21630	1/17/2017	21735	0.49%	1.86%	1742	668	1074	1787	964	857
2406	SEMINOLE PRATT-WHITE	Northlake Blvd	Orange Bl	2	1140	10118	11479	10460	11577	12585	2/13/2017	13655	8.50%	9.29%	1003	567	533	1255	625	630
2408	SEMINOLE PRATT-WHITE	Orange Bl	60th St N	4D	1960	12152	12959		13600	14873	2/12/2017	16514	11.03%		1289	849	590	1467	722	752
3420	SEMINOLE PRATT-WHITE	Okeechobee Blvd	Southern Blvd	4D	1960		14444	13400	14153	15965	2/1/2017	17000	6.48%	8.26%	1347	423	929	1492	929	576
3424	SEMINOLE PRATT-WHITE	Sycamore Dr E	Okeechobee Blvd	4D	3320				18026	18997	4/17/2017	20942	10.24%		1896	741	1273	1713	1068	648
4200	SHERWOOD FOREST BL	Forest Hill Blvd	Cresthaven Blvd	2	880	6431		6751	7078	7360	3/1/2017	7652	3.97%	4.26%	576	269	312	684	262	428
4644	SHERWOOD FOREST BL	10th Ave N	Lake Worth Rd	2	880	6461	7391	7699	7925	7883	2/8/2017	8213	4.19%	2.18%	564	155	418	728	387	349
4654	SHERWOOD FOREST BL	Cresthaven Blvd	10th Ave N	2	810	7909	8145	8622	8499	9108	2/21/2017	10064	10.50%	5.29%	946	418	528	870	454	421
2807	SILVER BEACH RD	Old Dixie Hwy	US-1	2	880	10996	10795	11939	12264	12967	4/3/2017	13754	6.07%	4.83%	975	491	500	1137	567	576
2615	SILVER BEACH RD	Congress Ave	Old Dixie Hwy	2	880	12250	11598	13490	13765	14485	3/6/2017	15103	4.27%	3.84%	1055	548	533	1329	648	690

# 2005-2010 COUNT DATA

STA	ROAD	FROM	TO	LANES	DAILY TRAFFIC VOLUMES					2010 DAILY			2010 AM PEAK HOUR*			2010 PM PEAK HOUR*		
					2005	2006	2007	2008	2009	DATE	VOL	GR	2-WAY	NB/EB	SB/WB	2-WAY	NB/EB	SB/WB
3420	SEMINOLE PRATT-WHITE	Southern Blvd	Okeechobee Blvd	2	18769	16222	15492	14222	12632	3/23/2010	14351	-2.52%	1188	352	866	1227	817	418
3424	SEMINOLE PRATT-WHITE	Okeechobee Blvd	Sycamore Dr E	2	22377	22406	21273	18706	18051	3/24/2010	17383	-6.51%	1387	527	922	1480	968	515
3442	SEMINOLE PRATT-WHITE	Sycamore Dr E	60TH ST N	2	18742	18991	17100	15809	19149	3/23/2010	16620	-0.94%	1516	847	763	1375	803	573
2408	SEMINOLE PRATT-WHITE	60TH ST N	Orange Bl	2	14646	16992	14310	14727	15620	1/11/2010	14772	1.06%	1311	809	648	1267	690	596
2406	SEMINOLE PRATT-WHITE	Orange Bl	Northlake Blvd	2	15781	13274	11563	11199	11736	3/24/2010	11076	-1.42%	921	455	497	930	471	459
6904	SHERATON WAY	Glades Rd	NW 19 ST	2	8538	9446	4693	4286	3712	2/17/2010	3991	-5.26%	277			384		
4644	SHERWOOD FOREST BL	Lake Worth Rd	10th Ave N	2	7677	7706	7095	6790	6950	3/17/2010	5767	-6.67%	340	96	252	482	252	258
4654	SHERWOOD FOREST BL	10th Ave N	Cresthaven Blvd	2	9095	8655	9129	8073	7971	3/17/2010	7736	-5.37%	511	193	331	672	369	324
4200	SHERWOOD FOREST BL	Cresthaven Blvd	Forest Hill Blvd	2	7434	7723	7323	7354	6447	1/5/2010	6348	-4.65%	399	197	202	643	261	391
2615	SILVER BEACH RD	Congress Ave	Old Dixie Hwy	2		12004	13197	14235	14048	3/16/2010	13508	0.78%	907	459	460	1164	575	589
2807	SILVER BEACH RD	Old Dixie Hwy	US-1	2	13451	14402	13166	12823	12265	1/12/2010	11591	-4.16%	917	500	435	1011	486	532
3418	SKEES RD	Okeechobee Bl	Belvedere Rd	2	5651	6736	5398	5102	4858	1/5/2010	4956	-2.81%	388	228	171	421	246	130
3446	SOUTH SHORE DR	Lake Worth Rd	Greenview Shores Bl	2	18874	18100	16746	16711	14176	1/19/2010	16271	-0.95%	1240	524	756	1363	829	584
3429	SOUTH SHORE DR	Greenview Shores Bl	Big Blue Trace	4D	20318	21978	19744	19087	18028	1/19/2010	18470	-2.20%	1518	587	990	1530	904	651
3421	SOUTH SHORE DR	Big Blue Trace	Forest Hill Blvd	4D	26822	24190	26556	25227	22287	1/19/2010	23838	-3.54%	1612	1016	610	2132	1060	1072
3101	SOUTHERN BLVD	CR 880	Lion Country Safari	4D	17567	18085	17190	16198	16585	3/15/2010	19702	4.65%	1482	643	903	1709	1106	651
3467	SOUTHERN BLVD	Lion Country Safari	Seminole Pratt Whitney Rd	4D			23814	21535	23112	3/15/2010	22490	-1.89%	1823	650	1333	2125	1455	690
3443	SOUTHERN BLVD	Seminole Pratt Whitney Rd	Binks Forest Drive	4D	37182	35612	29807	28605	32183	3/15/2010	28630	-1.33%	2237	1211	1160	2616	1516	1167
3431	SOUTHERN BLVD	Binks Forest Drive	Big Blue Trace	4D	35256	33195	32664	30997	32120	3/9/2010	35305	2.63%	2928	1544	1564	2974	1553	1473
3413	SOUTHERN BLVD	Big Blue Trace	Forest Hill/Crestwood	4D	45385	44364	44382	42116	43777	3/9/2010	46881	1.84%	3607	2032	1605	3877	1961	2038
3417	SOUTHERN BLVD	Forest Hill/Crestwood	Cypress Head	6D	42335	43100	46087	48632	52215	3/9/2010	54303	5.62%	4131	2773	1440	4522	1919	2648
3437	SOUTHERN BLVD	Cypress Head	Royal Palm Beach Blvd	6D	45352	43747	46826	46769	51088	3/3/2010	53158	4.32%	4122	2806	1368	4501	1966	2639

Thursday, June 10, 2010

\*Note: Where no peak hour volumes are shown, the 2009 daily volume was estimated based on previous count data or collected without peak hour data.

# 2011-2016 COUNT DATA

STA	ROAD	FROM	TO	LANES	LOS	DAILY TRAFFIC VOLUMES					2016 DAILY			2016 AM PEAK HOUR			2016 PM PEAK HOUR		
						2011	2012	2013	2014	2015	DATE	VOL	GR	2-WAY	NB/EB	SB/WB	2-WAY	NB/EB	SB/WB
3420	SEMINOLE PRATT-WHIT	Southern Blvd	Okeechobee Blvd	4D	1960	13133		14444	13400	14153	1/13/2016	15965	3.39%	1357	437	920	1427	893	554
3424	SEMINOLE PRATT-WHIT	Okeechobee Blvd	Sycamore Dr E	4D	3320					18026	1/13/2016	18997		1670	660	1047	1709	1064	663
3442	SEMINOLE PRATT-WHIT	Sycamore Dr E	60TH ST N	4D	1960	16094	15382	16344		16772	1/11/2016	19259	5.62%	1850	970	999	1702	865	837
2408	SEMINOLE PRATT-WHIT	60TH ST N	Orange Bl	4D	1960	12224	12152	12959		13600	1/11/2016	14873	4.70%	1334	733	616	1386	670	723
2406	SEMINOLE PRATT-WHIT	Orange Bl	Northlake Blvd	2	1140	10411	10118	11479	10460	11577	1/11/2016	12585	3.11%	1085	550	535	1084	555	532
4644	SHERWOOD FOREST BL	Lake Worth Rd	10th Ave N	2	880	6068	6461	7391	7699	7925	2/24/2016	7883	2.17%	545	153	399	680	369	311
4654	SHERWOOD FOREST BL	10th Ave N	Cresthaven Blvd	2	810	7794	7909	8145	8622	8499	2/24/2016	9108	3.80%	769	323	459	811	437	374
4200	SHERWOOD FOREST BL	Cresthaven Blvd	Forest Hill Blvd	2	880	6576	6431		6751	7078	2/24/2016	7360		538	245	293	675	279	407
2615	SILVER BEACH RD	Congress Ave	Old Dixie Hwy	2	880	12629	12250	11598	13490	13765	3/7/2016	14485	7.69%	1061	553	542	1246	603	648
2807	SILVER BEACH RD	Old Dixie Hwy	US-1	2	880	12068	10996	10795	11939	12264	3/7/2016	12967	6.30%	923	474	449	1097	611	507
3418	SKFES RD	Okeechobee Bl	Belvedere Rd	2	880	4436	4743	4673	4663	4644	2/3/2016	5411	5.01%	467	244	228	482	267	230
3446	SOUTH SHORE DR	Lake Worth Rd	Greenview Shores Bl	2	880			15592	16739	17402	2/10/2016	18111	5.12%	1438	633	852	1495	831	673
3429	SOUTH SHORE DR	Greenview Shores Bl	Big Blue Trace	4D	1960	19147	19657	20364	21697	22634	2/10/2016	22744	3.75%	1824	710	1218	1910	1200	712
3421	SOUTH SHORE DR	Big Blue Trace	Forest Hill Blvd	4D	1960	25586	25823	24709	26986	25965	2/10/2016	27365	3.46%	1825	1105	778	2306	1238	1084
3101	SOUTHERN BLVD	CR 880	Lion Country Safari	4D	3320	15140	13813	15476	15321	16177	3/2/2016	18794	6.69%	1632	541	1166	1472	880	589
3467	SOUTHERN BLVD	Lion Country Safari	Seminole Pratt White	4D	3320	18663	16681	19744	20081	21463	1/13/2016	21367	2.67%	1713	747	1012	1819	1141	678
3443	SOUTHERN BLVD	Seminole Pratt Whitney	Binks Forest Drive	4D	1960	27143	25048	28400	29957	30197	1/13/2016	31426	3.43%	2464	1336	1198	2683	1403	1285
3431	SOUTHERN BLVD	Binks Forest Drive	Big Blue Trace	4D	1960	31051	33763	32256	33674	31648	1/13/2016	34827	2.59%	2865	1687	1288	2963	1496	1467
3413	SOUTHERN BLVD	Big Blue Trace	Forest Hill/Crestwood	4D	1770	43698	42972	37398	46540	46151	1/13/2016	45756	6.95%	3653	2047	1633	3558	1671	1921
3417	SOUTHERN BLVD	Forest Hill/Crestwood	Cypress Head	6D	2940	54813	53757	56449	55493	57424	3/7/2016	61162	2.71%	4882	3097	1815	4825	2075	2757
3437	SOUTHERN BLVD	Cypress Head	Royal Palm Beach Bl	6D	2940	55124	52734	54435	59036	55995	2/29/2016	60598	3.64%	4955	3042	1920	4545	2096	2449

## APPENDIX C

Input Data  
 ROAD NAME: Seminole Pratt Whitney Rd  
 CURRENT YEAR: 2016  
 ANALYSIS YEAR: 2023  
 GROWTH RATE: 5.62%

STATION: 3442  
 FROM: Sycamore Dr  
 TO: Persimmon Blvd  
 COUNT DATE: 1/11/2016  
 PSF: 1

Report Created  
 8/7/2017

Link Analysis

Time Period Direction	AM			PM		
	2-way	NB/EB	SB/WB	2-way	NB/EB	SB/WB
Existing Volume	1850	970	999	1702	865	837
Peak Volume	1850	970	999	1702	865	837
Diversion(%)	0	0	0	0	0	0
Volume after Diversion	1850	970	999	1702	865	837

Committed Developments							Type	% Complete
Arden PUD	270	184	86	289	117	172	Res	0%
Seminole Orange Plaza	38	21	17	104	50	55	NR	30%
City of Westlake							NR	0%
Loxahatchee Groves Commons	40	19	20	84	43	42	NR	25%
Avenir	129	67	63	170	96	74	Res	0%
Central Park of Commerce	58	9	49	64	53	11	NR	0%
Total Committed Developments	535	300	235	711	359	354		
Total Committed Residential	399	251	149	459	213	246		
Total Committed Non-Residential	136	49	86	252	146	108		
Double Count Reduction	27	10	17	50	29	22		
Total Discounted Committed Developments	508	290	218	661	330	332		

Input Data  
 ROAD NAME: Seminole Pratt Whitney Rd  
 CURRENT YEAR: 2016  
 ANALYSIS YEAR: 2023  
 GROWTH RATE: 5.62%

STATION: 3442  
 FROM: Persimmon Blvd  
 TO: 60th St N  
 COUNT DATE: 1/11/2016  
 PSF: 1

Report Created  
 8/7/2017

Link Analysis

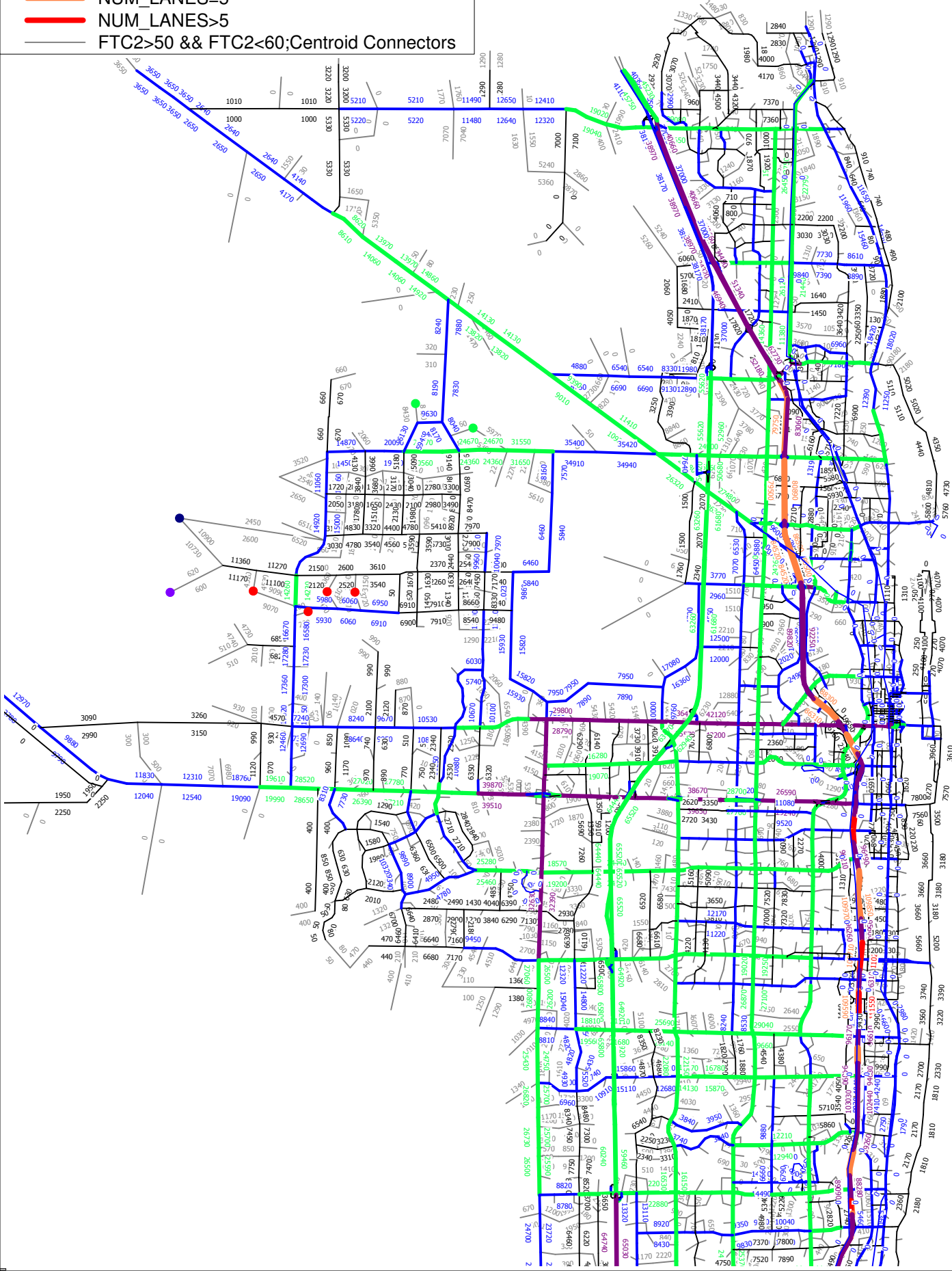
Time Period Direction	AM			PM		
	2-way	NB/EB	SB/WB	2-way	NB/EB	SB/WB
Existing Volume	1850	970	999	1702	865	837
Peak Volume	1850	970	999	1702	865	837
Diversion(%)	0	0	0	0	0	0
Volume after Diversion	1850	970	999	1702	865	837

Committed Developments							Type	% Complete
Arden PUD	270	184	86	289	117	172	Res	0%
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Loxahatchee Groves Commons	40	19	20	84	43	42	NR	25%
Avenir	129	67	63	170	96	74	Res	0%
Central Park of Commerce	58	9	49	64	53	11	NR	0%
Total Committed Developments	535	300	235	711	359	354		
Total Committed Residential	399	251	149	459	213	246		
Total Committed Non-Residential	136	49	86	252	146	108		
Double Count Reduction	27	10	17	50	29	22		
Total Discounted Committed Developments	508	290	218	661	330	332		

## APPENDIX D

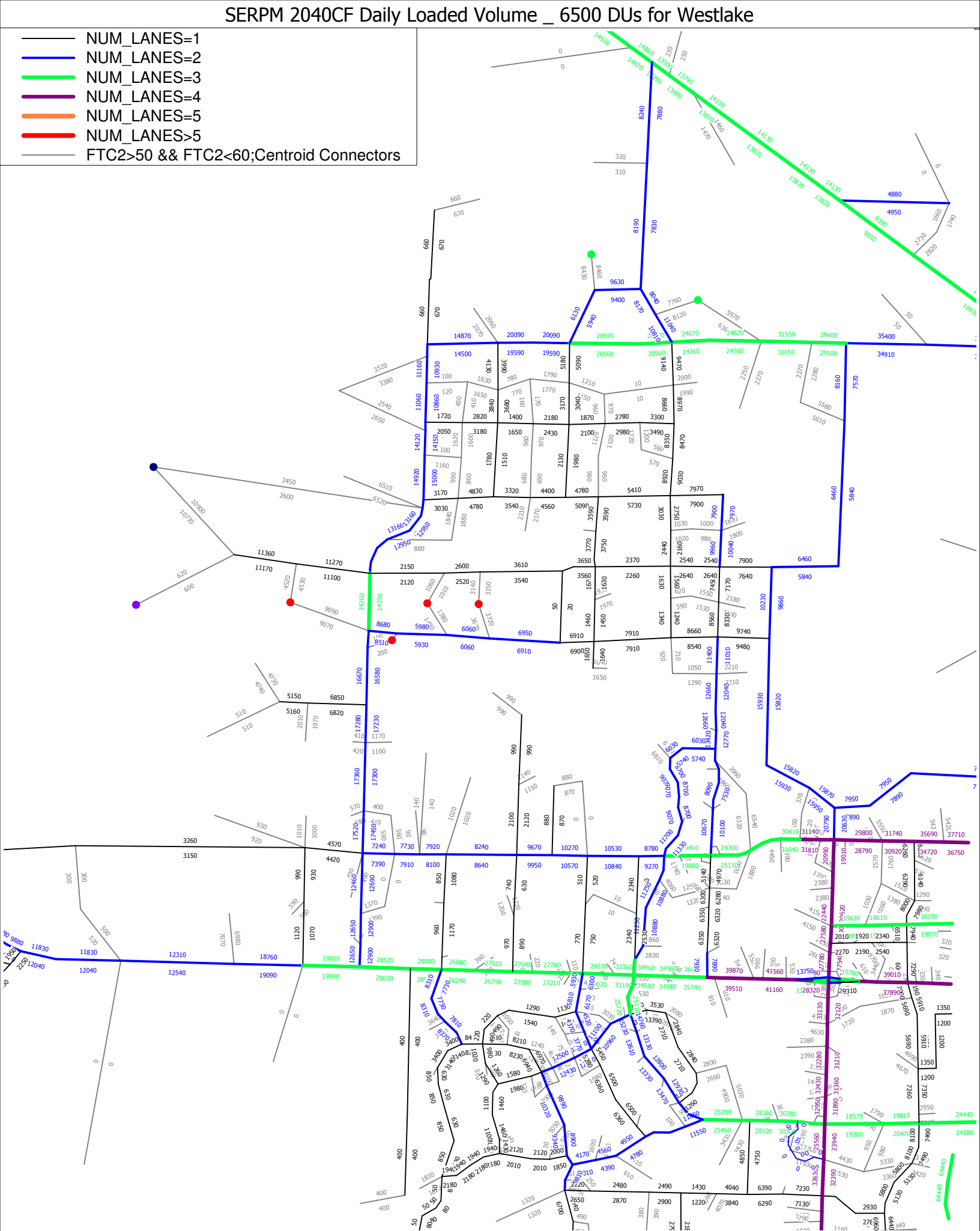
# SERPM 2040CF Daily Loaded Volume \_ 6500 DUs for Westlake

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- NUM\_LANES=3
- NUM\_LANES=4
- NUM\_LANES=5
- NUM\_LANES>5
- FTC2>50 && FTC2<60;Centroid Connectors



# SERPM 2040CF Daily Loaded Volume \_ 6500 DUs for Westlake

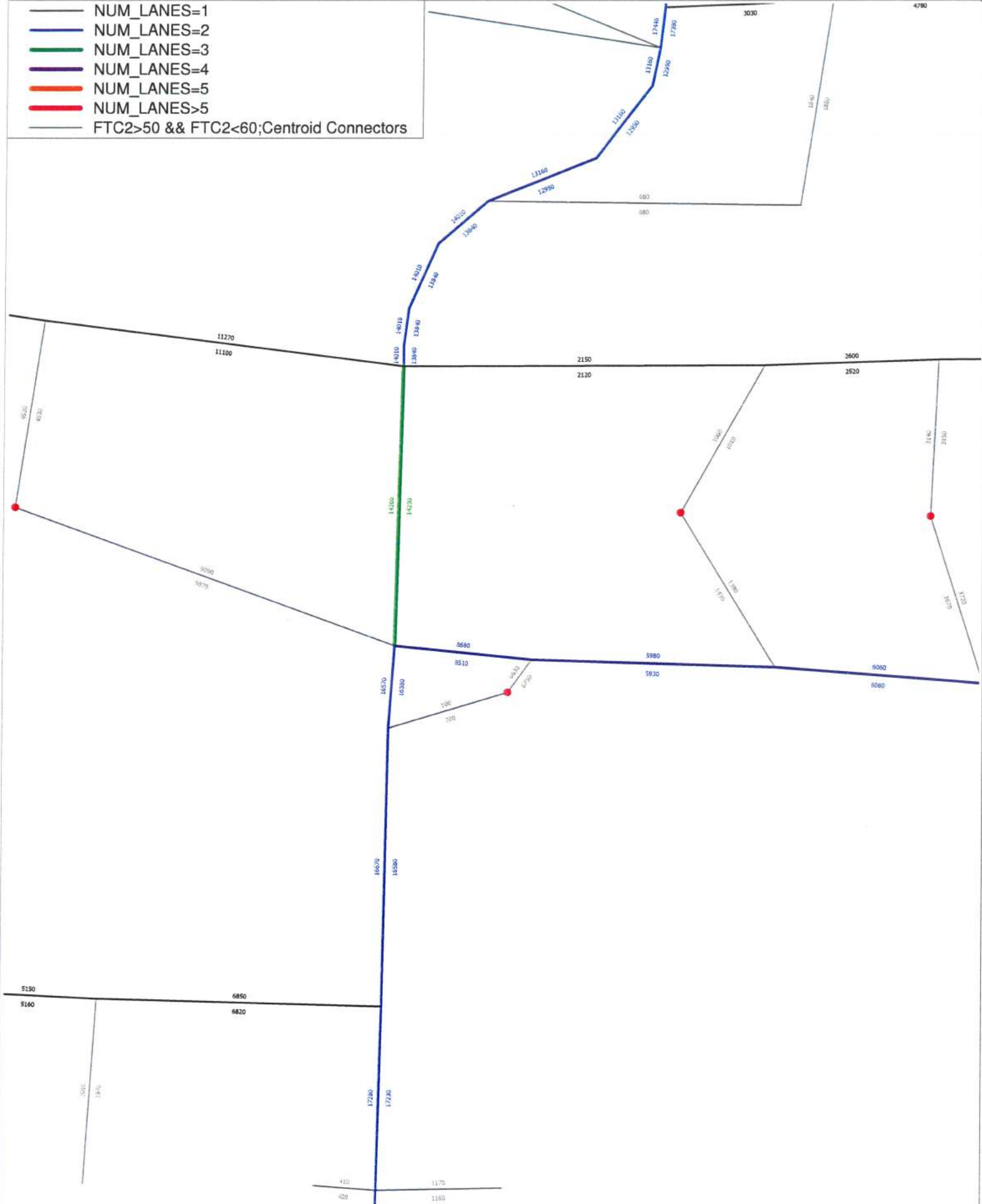
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- FTC2>50 && FTC2<60;Centroid Connectors





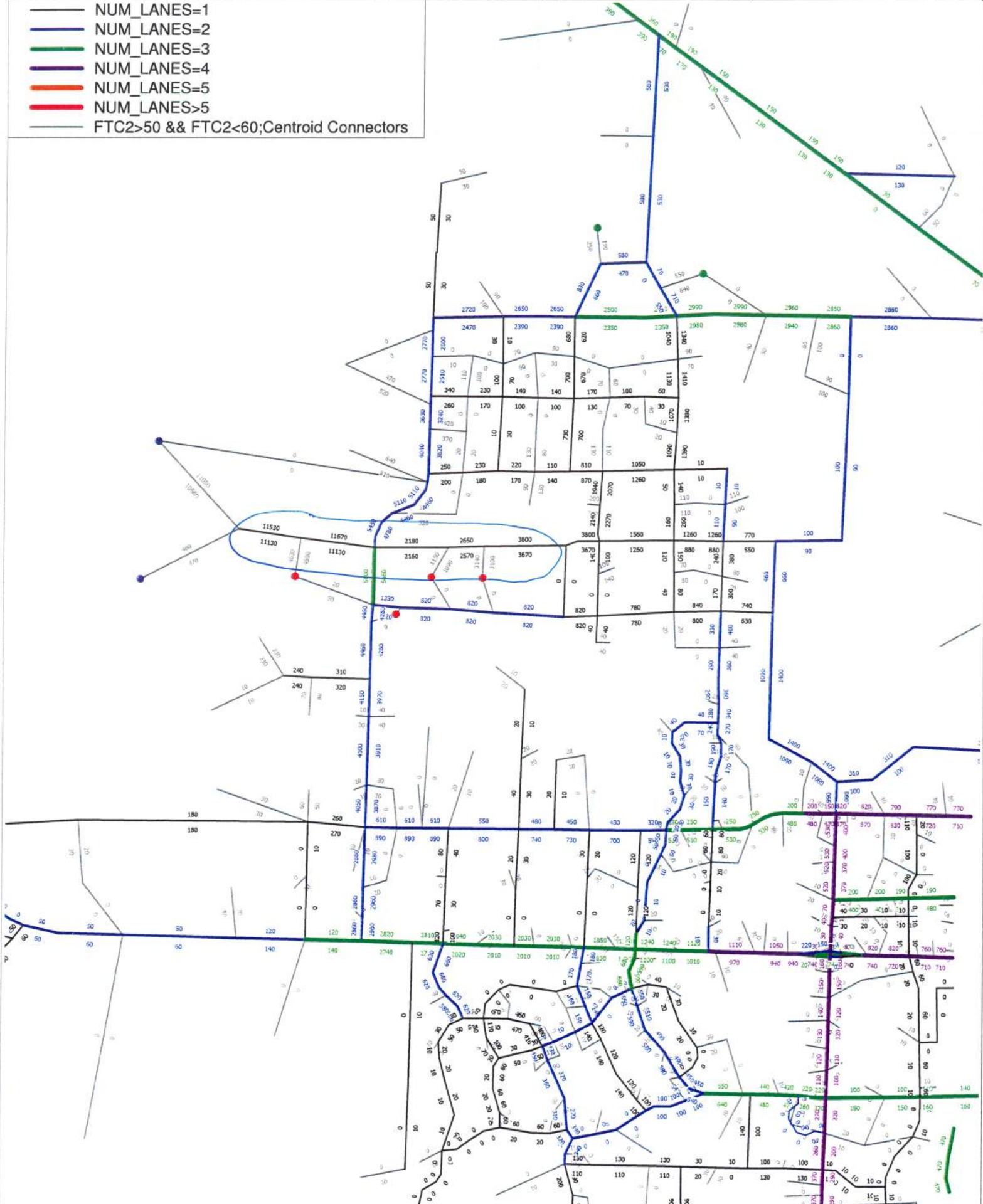
# SERPM 2040CF Daily Loaded Volume \_ 6500 DUs for Westlake

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- NUM\_LANES=2
- NUM\_LANES=3
- NUM\_LANES=4
- NUM\_LANES=5
- NUM\_LANES>5
- FTC2>50 && FTC2<60;Centroid Connectors

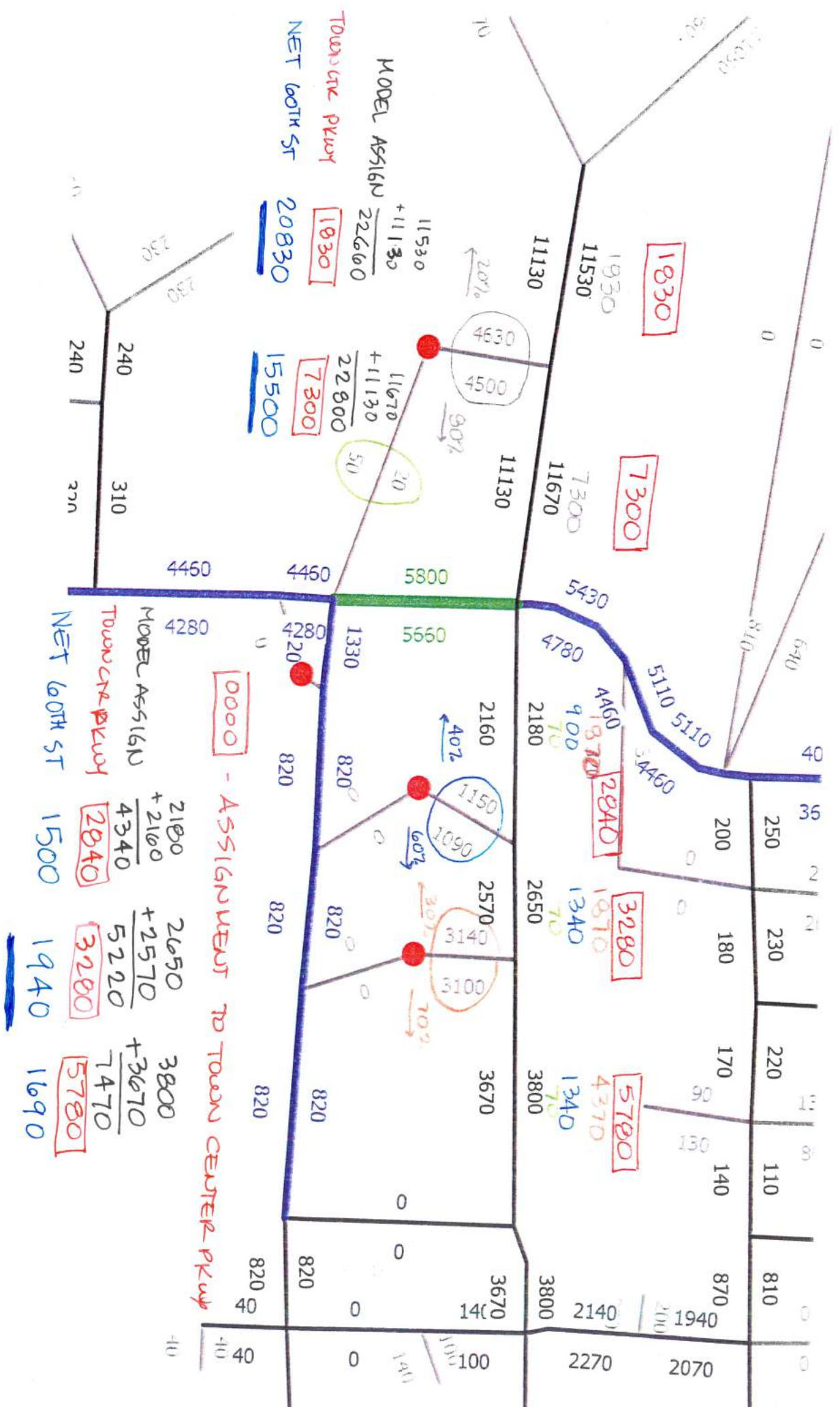


# SERPM Daily \_ 6500 DUs Westlake \_ Select Link \_ County Town Center Parkway and 60th Street

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- NUM\_LANES=2
- NUM\_LANES=3
- NUM\_LANES=4
- NUM\_LANES=5
- NUM\_LANES>5
- FTC2>50 && FTC2<60;Centroid Connectors



SELECTED LINK ANALYSIS - 60TH STREET / TOWN CENTER PARKWAY



11530  
+11130  
22660  
1830  
20830

11670  
+11130  
22800  
7300  
15500

4280  
+2160  
4340  
2840  
1500

2650  
+2570  
5220  
3280  
1940

3800  
+3670  
7470  
5780  
1690

1400  
100  
100  
40  
40

**Exhibit D-1**  
**City of Westlake (6,500 DUs)**  
**Seminole Pratt-Whitney Road Adjustments**

<b>Roadway</b>	<b>Link</b>	<b>2010 Model Volumes</b>	<b>2010 FDOT AADT</b>	<b>Adjustment Factor</b>
Seminole Pratt Whitney Rd	Okeechobee Blvd to Sycamore Dr	16,053	16,400	1.02
Seminole Pratt Whitney Rd	Sycamore Dr to 60th St	11,315	15,000	1.33
Seminole Pratt Whitney Rd	60th St to Orange Blvd	11,560	14,600	1.26
Seminole Pratt Whitney Rd	Orange Blvd to Northlake Blvd	8,105	9,900	1.22
	TOTAL	47,033	55,900	1.19

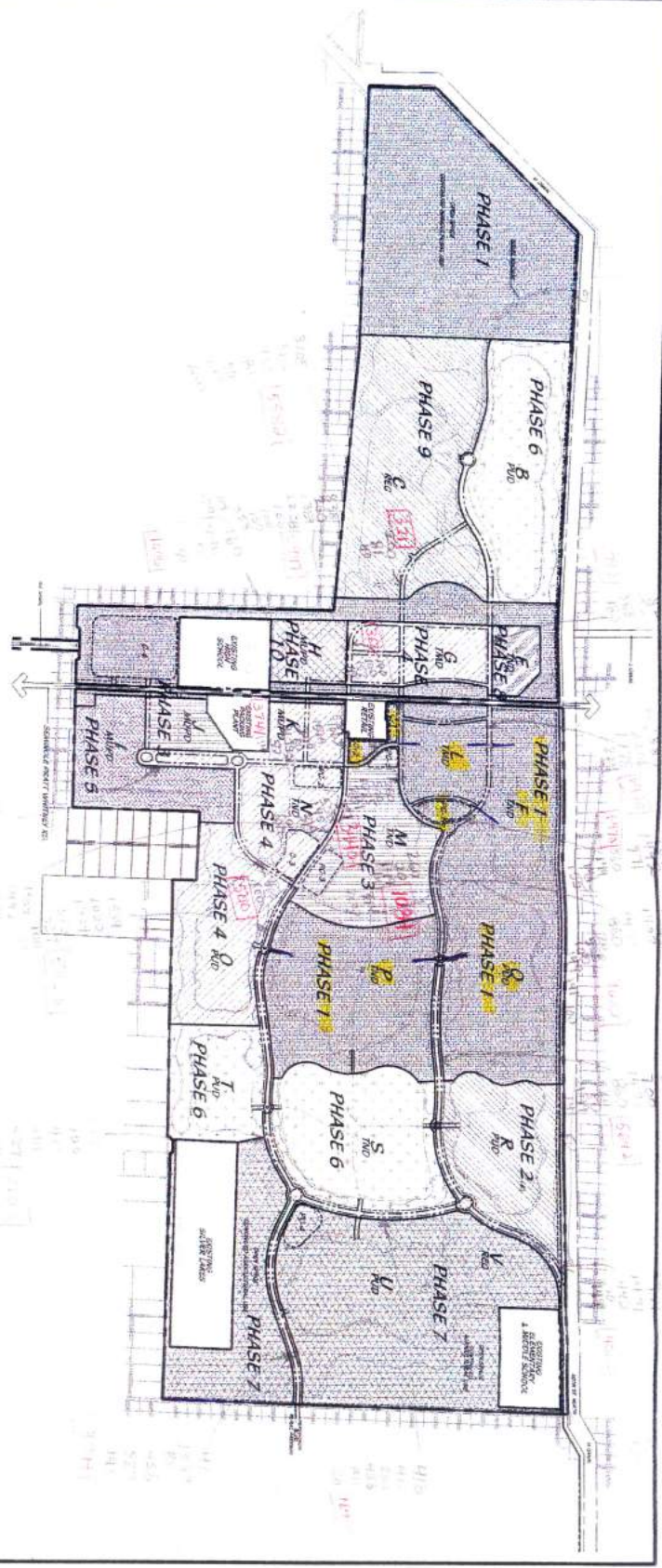
<b>Roadway</b>	<b>Link</b>	<b>2040 Model Volumes</b>	<b>Adjustment Factor</b>	<b>Adjusted 2040 Volume</b>
Seminole Pratt Whitney Rd	Sycamore Dr to Persimmon Blvd	33,100	1.33	44,023
Seminole Pratt Whitney Rd	Persimmon Blvd to 60th St	28,490	1.33	37,892

**Exhibit D-2**  
**Westlake**  
**Internal Roadway Volumes**

Roadway	Link	% Assign	Daily Model * 59450
West Town Center Pkwy	B/C Driveway to SW Town Center Pkwy	3%	1,748
	SW Town Center Pkwy to CS-W2 (pka G Rd)	3%	1,543
	CS-W2 (pka G Rd) to W Parallel Rd	7%	4,308
	W Parallel Rd to SPW Rd	11%	6,254
East Town Center Pkwy	SPW Rd to E Parallel Rd	17%	10,395
	E Parallel Rd to F/L Driveway	17%	10,395
	F/L Rd to Kingfisher Blvd (pka PC1 Rd)	18%	10,473
	Kingfisher Blvd (pka PC1 Rd) to Roundabout	17%	10,179
	Roundabout to Q/P Driveway	27%	15,893
	Q/P Driveway to R/S Driveway	22%	12,985
	R/S Driveway to Roundabout	19%	11,455
	Roundabout to V Driveway	18%	10,675
SW Town Center Pkwy	V Driveway to 60th Street N	18%	10,675
	West Town Center Pkwy to C Driveway	2%	1,246
	C Driveway to CS-W2 (pka G Rd)	2%	1,298
	CS-W2 (pka G Rd) to W Parallel Rd	3%	1,674
SE Town Center Pkwy	W Parallel Rd to SPW Rd	7%	4,111
	SPW Rd to E Parallel Rd	13%	7,857
	E Parallel Rd to CS-E1 (pka JINK Rd)	13%	7,857
	CS-E1 (pka JINK Rd) to Kingfisher Blvd (PC1 Rd)	14%	8,234
CS-W2 (pka Persimmon Blvd)	Kingfisher Blvd (pka PC1 Rd) to Roundabout	14%	8,090
	G/H Driveway to W Parallel Rd	6%	3,658
	W Parallel Rd to SPW Rd	6%	3,729
Persimmon Blvd East	SPW Rd to CS-E2 (pka JINK Rd)	12%	6,951
	CS-E2 (pka JINK Rd) to KK (pka NO Rd)	20%	11,818
	KK (pka NO Rd) to O/P Driveway	28%	16,810
	O/P Driveway to S/T Driveway	24%	14,177
	S/T Driveway to PSM-N-N2 (pka Roundabout)	21%	12,322
	PSM-N-N2 (pka Roundabout) to U Driveway	18%	10,726
	U Driveway to Persimmon East	17%	10,064
KK (pka NO Rd)	CSP (pka JINK Rd) to N Driveway	11%	6,281
	N Driveway to Persimmon Blvd East	11%	6,281
CS-E4 (pka I Rd)	SPW Rd to I/J Driveway	10%	6,057
	I/J Driveway to CSP (pka JINK Rd)	10%	6,057
CS-W2 (pka G Rd)	G/H Driveway to SW Town Center Pkwy	2%	1,438
	SW Town Center Pkwy to W Town Center Pkwy	2%	1,050
CSP (pka JINK Rd)	CS-E4 (pka I Rd) to KK (pka NO Rd)	13%	7,822
	KK to Saddle Bay Dr (pka K/N Driveway)	6%	3,665
CS-E2 (pka JINK Rd)	Saddle Bay Dr (pka K/N Driveway) to Persimmon Blvd East	6%	3,665
CS-E1 (pka JINK Rd)	Persimmon Blvd East to SE Town Center Pkwy	13%	7,681
Kingfisher Blvd (pka PC1 Rd)	SE Town Center Pkwy to East Town Center Pkwy	2%	1,313
PSM-N-N2 (pka Persimmon/TCP Connector)	Persimmon Blvd East to S/U Driveway	13%	7,778
	S/U Driveway to E Town Center Pkwy	13%	7,778
Saddle Bay Dr (pka K/N Driveway)	SPW Rd to CSP	5%	2,728

\* Volume from all 4 Westlake TAZs

SAMPLE PHASE 1 POD BY POD ASSIGNMENT



TTD PHASING TABLE

PHASE	PANEL	ACRES	%	CUMULATIVE ACRES	DWELLING UNITS	%	CUMULATIVE DU	NON RES. ACRES	%	NON RES. ACRES
1	F.L.P.D	1339.12	35%	1339.12	1,315	29%	1,315	61.71	19%	61.71
2	M	196.51	5%	1532.63	250	5%	1,565	32.2	10%	93.91
3	J.M	491.22	13%	2023.85	600	13%	2,165	123.15	37%	217.06
4	G.M.A.O	403.21	11%	2427.06	435	10%	2,600	68.38	21%	285.44
5	B.S.T	413.27	11%	2840.33	1,399	31%	3,999	0%	0%	285.44
6	U.V	583.46	16%	3423.79	397	9%	4,396	0%	0%	285.44
7	C	429.29	11%	3853.08	190	5%	4,586	43.94	13%	329.38
8	E	310.74	8%	3763.82	0%	0%	4,586	0%	0%	329.38
9	H	48.35	1%	3772.17	0%	0%	4,586	0%	0%	329.38
10	M	3788.80	100%	3772.17	4,548	100%	4,548	329.38	100%	329.38

CL, C2, PC1, C4 (30)

PROJECT TEAM

- PROPERTY OWNER**  
MINTO WEST PALM BEACH, LLC  
1000 S. STATE ROAD 1, SUITE 200  
PALM BEACH, FL 33480
- ARCHITECT**  
MINTO WEST ARCHITECTS, INC.  
1000 S. STATE ROAD 1, SUITE 200  
PALM BEACH, FL 33480
- ENGINEER**  
MINTO WEST ENGINEERS, INC.  
1000 S. STATE ROAD 1, SUITE 200  
PALM BEACH, FL 33480
- LANDSCAPE ARCHITECT**  
MINTO WEST LANDSCAPE ARCHITECTS, INC.  
1000 S. STATE ROAD 1, SUITE 200  
PALM BEACH, FL 33480
- ENVIRONMENTAL CONSULTANT**  
MINTO WEST ENVIRONMENTAL CONSULTANTS, INC.  
1000 S. STATE ROAD 1, SUITE 200  
PALM BEACH, FL 33480
- CONSTRUCTION MANAGER**  
MINTO WEST CONSTRUCTION MANAGERS, INC.  
1000 S. STATE ROAD 1, SUITE 200  
PALM BEACH, FL 33480

LOCATION MAP



MINTO WEST  
PHASING PLAN  
PALM BEACH COUNTY, FL

**Colleur & Hearing**  
Environmental Consultants  
3040 Commerce Lane  
Jupiter, Florida 33458-1177  
www.colleurandhearing.com  
LPA1 LC-0000028

DATE: 11/21/17  
SCALE: 1" = 1.000'  
SHEET: 1 OF 1  
PROJECT: MINTO WEST PHASING PLAN  
DRAWN BY: [Name]  
CHECKED BY: [Name]  
APPROVED BY: [Name]

# SAMPLE MANUAL POD BY POD ASSIGNMENT

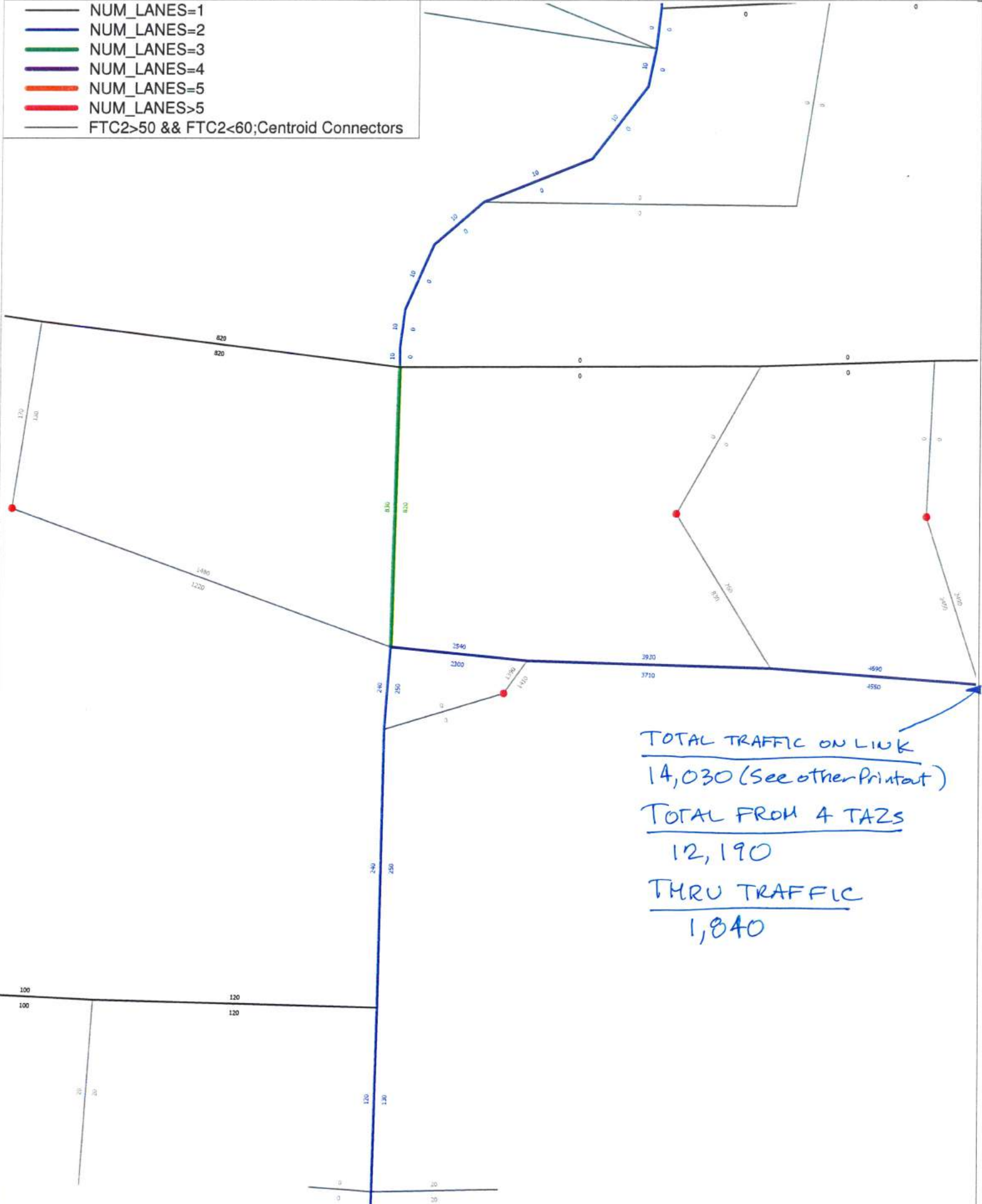
Internal Roadways 13-013 10-23-14  
8/30/2017

Exhibit  
Minto West  
Internal Roadway Volumes

Roadway	Link	Daily Volumes										Required Lanes	
		Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8	Phase 9	Phase 10		Total
West Town Center Pkwy	B/C Driveway to SW Town Center Pkwy	200	-	10	400	10	1,400	-	-	116	100	2,236	2L
	SW Town Center Pkwy to G Rd	200	-	10	400	10	1,173	-	-	116	65	1,974	2L
	G Rd to W Parallel Rd	597	100	40	2,660	50	1,000	133	814	107	10	5,511	2L
East Town Center Pkwy	W Parallel Rd to SPW Rd	797	100	40	5,320	50	640	133	814	107	-	8,001	2L
	SPW Rd to E Parallel Rd	6,920	660	1,326	1,330	-	1,440	1,350	229	43	-	13,298	2L
	E Parallel Rd to F/L Driveway	6,920	660	1,326	1,330	-	1,440	1,350	229	43	-	13,298	2L
	F/L Rd to PC1 Rd	6,920	760	1,326	1,330	-	1,440	1,350	229	43	-	13,398	2L
	PC 1 Rd to Roundabout	6,470	760	1,010	1,330	100	1,540	1,540	229	43	-	13,022	2L
	Roundabout to Q/P Driveway	9,082	1,595	1,788	2,710	300	2,623	1,917	229	43	-	20,332	4LD
	Q/P Driveway to R/S Driveway	5,642	1,595	1,738	2,680	100	2,623	1,917	229	43	45	16,612	4LD
	R/S Driveway to Roundabout	5,642	906	1,738	2,680	20	1,415	1,937	229	43	45	14,655	4LD
	Roundabout to V Driveway	4,062	374	1,268	3,906	1,124	1,529	888	118	43	345	13,657	2L
	V Driveway to 60th Street N	4,062	374	1,268	3,906	1,124	1,529	888	118	43	345	13,657	2L
SW Town Center Pkwy	West Town Center Pkwy to C Driveway	321	-	-	408	10	590	-	-	100	165	1,594	2L
	C Driveway to G Rd	321	-	17	408	10	590	-	-	150	165	1,661	2L
	G Rd to W Parallel Rd	321	50	17	1,073	100	400	100	-	80	-	2,141	2L
SE Town Center Pkwy	W Parallel Rd to SPW Rd	321	50	17	4,380	150	161	100	-	80	-	5,259	2L
	SPW Rd to E Parallel Rd	5,582	450	1,521	1,344	-	810	300	-	-	45	10,052	2L
	E Parallel Rd to JINK Rd	5,582	450	1,521	1,344	-	810	300	-	-	45	10,052	2L
	JINK Rd to PC1 Rd	3,440	835	2,792	1,490	500	1,082	350	-	-	45	10,534	2L
Persimmon Blvd	PC 1 Rd to Roundabout	3,440	835	2,788	1,410	400	1,082	350	-	-	45	10,350	2L
	C/H Driveway to W Parallel Rd	362	-	36	2,712	100	400	100	-	70	900	4,680	2L
	W Parallel Rd to SPW Rd	362	-	36	2,712	100	490	100	-	70	900	4,770	2L
	SPW Rd to JINK Rd	3,744	274	958	4,274	200	1,210	1,057	-	40	626	12,383	2L
	JINK Rd to NO Rd	5,550	114	442	4,350	100	2,410	1,487	-	40	626	15,119	4LD
	NO Rd to O/P Driveway	5,528	174	939	5,738	2,586	3,454	2,420	-	40	626	21,505	4LD
	O/P Driveway to S/T Driveway	3,108	174	939	4,976	2,400	3,454	2,420	-	40	626	18,137	4LD
	S/T Driveway to Roundabout	3,108	174	786	4,976	2,236	1,398	2,420	-	40	626	15,764	4LD
	Roundabout to U Driveway	3,794	353	1,196	3,690	1,082	1,444	1,686	111	40	326	13,722	2L
	U Driveway to Persimmon East	3,794	353	1,196	3,690	1,082	1,444	1,686	111	40	326	12,875	2L
NO Rd	JINK Rd to N Driveway	500	60	716	2,052	2,731	1,044	933	-	-	-	8,036	2L
	N Driveway to Persimmon Blvd	500	60	716	2,052	2,731	1,044	933	-	-	-	8,036	2L
I Road	SPW Rd to I/J Driveway	680	60	600	2,224	2,486	876	823	-	-	-	7,249	2L
	I/J Driveway to JINK Rd	680	60	600	2,224	2,486	876	823	-	-	-	7,249	2L
G Rd	C/H Driveway to SW Town Center Pkwy	362	-	10	1,000	10	173	-	50	70	165	1,840	2L
	SW Town Center Pkwy to W Town Center Pkwy	100	-	-	1,000	10	173	-	50	-	10	1,343	2L
JINK Rd	I Rd to NO Rd	680	60	1,044	2,304	4,002	1,044	873	-	-	-	10,007	2L
	NO Rd to K/N Driveway	1,006	100	318	1,944	1,271	-	50	-	-	-	4,689	2L
	K/N Driveway to Persimmon Blvd	1,006	100	318	1,944	1,271	-	50	-	-	-	4,689	2L
	Persimmon Blvd to SE Town Center Pkwy	5,997	335	1,710	354	900	200	330	-	-	-	9,826	2L
PC1 Rd	SE Town Center Pkwy to East Town Center Pkwy	1,084	-	456	40	100	-	-	-	-	-	1,680	2L
	Persimmon Blvd to S/U Driveway	1,648	532	1,028	1,256	1,134	1,202	2,740	111	-	300	9,951	2L
SU Rd	S/U Driveway to E Town Center Pkwy	1,648	532	1,028	1,256	1,134	1,202	2,740	111	-	300	9,951	2L

SERPM Daily \_ 6500 DUs Westlake \_ Select Link \_ Persimmon Blvd

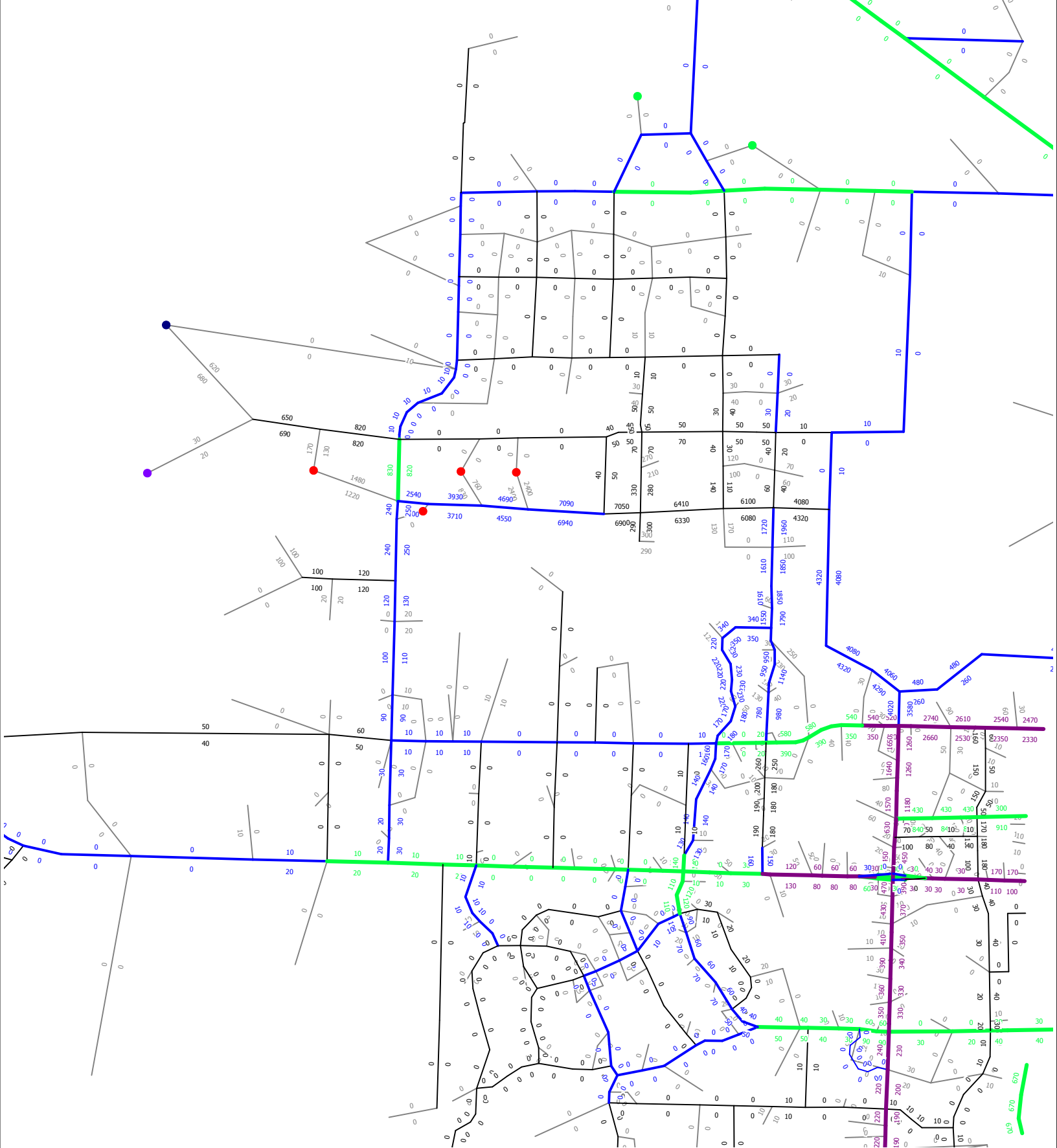
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- NUM\_LANES>5
- FTC2>50 && FTC2<60;Centroid Connectors





# SERPM Daily \_ 6500 DUs Westlake \_ Select Link \_ Persimmon Blvd

- NUM\_LANES=1
- NUM\_LANES=2
- NUM\_LANES=3
- NUM\_LANES=4
- NUM\_LANES=5
- NUM\_LANES>5
- FTC2>50 && FTC2<60;Centroid Connectors



From serpm 7.062 model 2040 Land use data

Westlake

mgra	TAZ	hh (household)	pop (population)	employee_total	HotelRoomTotal	Student
8563	864	940	2321	3070	150	3970
8561	1058	3204	8322	3000	0	0
8562	1079	1474	3645	184	0	2380
9387	1593	751	1853	0	0	0

Indian Trails Grove

mgra	TAZ	hh (household)	pop (population)	employee_total	HotelRoomTotal	Student
8289	857	3790	13368	988	0	2287

Avenir

mgra	TAZ	hh (household)	pop (population)	employee_total	HotelRoomTotal	Student
8480	825	1402	3444	8160	150	0
8481	854	2225	5655	89	150	600
8461	855	144	304	0	0	0

Central Park of Commerce

mgra	TAZ	hh (household)	pop (population)	employee_total	HotelRoomTotal	Student
8572	863	0	0	1552	0	0

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# INFRASTRUCTURE

2018



## CHAPTER 4. INFRASTRUCTURE ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Infrastructure Element is to identify and describe the necessary public facilities and services needed to accommodate the City's population through the 2023 and 2038 planning periods. This element addresses the public facilities provided within the City which include:

- Potable Water
- Wastewater
- Solid Waste
- Drainage
- Ground Water Recharge

The Seminole Improvement District (SID) is the exclusive retail provider of potable water, reuse water, and wastewater facilities in the City, and is empowered to construct and maintain the facilities related to those services and drainage. SID's service area is limited to the City's municipal boundaries, and therefore, SID's capacity will be used only within the City. Pursuant to the City Charter, the City may not duplicate services provided by SID. The relationship between the City and SID for provision of those services and facilities is detailed in the Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal"). SID's specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan dated October 13, 2015 and its Water, Wastewater and Reuse Utilities Master Plan dated April 29, 2015. The SID utility service area is depicted on INF Map 4.1. The anticipated infrastructure facilities needed for the 2023 and 2038 planning periods depicted on INF. Map 4.2 and INF. Map 4.3.

SID operates pursuant to a number of permits from the South Florida Water Management District (SFWMD), the United States Army Corps of Engineers, and other agencies. These permits, which serve as data and analysis for the Plan, are available upon request.

### POTABLE WATER

SID is the retail provider of potable water within the City. There is an Interlocal Agreement between Palm Beach County and the Seminole Improvement District Regarding the Sale of Bulk Water and Wastewater Service and Establishment of Water, Wastewater, and Reclaimed Water Service Areas and Settling Certain Disputes and Lawsuits Between the Parties, dated April 18, 2006, which provides that SID can purchase bulk water from the County at a rate of up to 5.0 MGD for the next thirty (30) years with provisions to extend the



agreement for 50 or more years. SID and Palm Beach County have invested in significant infrastructure in the City's area to provide potable water service. The development of the City will not require additional capacity to provide potable water to the City; rather it utilizes existing excess capacity from existing infrastructure. SID maintains water distribution facilities for service within the City and will expand internal potable water distribution lines concurrent with development within the City.

The City's level of service standard for potable water is 110 gallons per capita per day for residential uses and 150 gallons per 1,000 sq. ft. per day for non-residential uses with the following exceptions. Schools have a level of service standard of 18 gpd per student. Hotels have a level of service standard of 100 gpd per room. Parks have a level of service standard of 10 gpd per visitor. The per capita level of service standard will be applied to dwelling units using a 2.65 average population per household (PPH) unless it can be demonstrated that a different PPH is applicable. The City will continue to coordinate with SID to monitor and evaluate future operating demands as the City increases utility users and to adjust the level of service standard, if needed, through the planning periods.

The table below provides an analysis of potable water demand over the short and long term planning periods. The first section identifies the level of service standards used for the planning analysis. The second section identifies existing and projected population and uses that require potable water. Existing non-residential square footages include the Grove Market commercial area and the packing house parcel which includes industrial and office uses. Square footage numbers are from the Palm Beach County property appraiser parcel database. Existing student numbers are based on school capacity numbers from the Palm Beach County School District 2016/17 Work Plan and anticipated students from a potential new school. New development square footage, hotel rooms, and college students are based on the existing development orders within the City. Projections of recreation and park day time visitors are based on averages derived from the National Recreation and Park Association 2016 study of park usage entitled "NRPA Americans' Engagement with Parks Survey." The third section computes the current and projected demand for the 2023 and 2038 planning periods.

The anticipated facilities needed for the 2023 and 2038 planning periods are identified in Table 4.1 and are also depicted on INF. Map 4.2 and INF. Map 4.3.



**Table 4.1: Potable Water Analysis**

<b>Potable Water Level of Service</b>				
	Gallons Per Day			
Per Person	110			
Per square foot for Commercial, Civic, and Industrial	0.15			
Per Student	18			
Per Hotel Room	100			
Per visitor of park and recreation facilities	10			
<b>Demand Generators</b>				
	<b>2018</b>	<b>2023</b>	<b>2038</b>	
Population (excluding hotel population)	298	3,803	15,791	
Existing Commercial, Civic, and Industrial S.F.	180,581	180,581	180,581	
New Commercial, Civic, and Industrial S.F.	75,000	650,000	2,200,000	
Total Commercial, Civic, and Industrial S.F.	255,581	830,581	2,380,581	
K-12 Students	4,463	4,463	5,433	
College Students	0	0	3,000	
Total Students	4,463	4,463	8,433	
Hotel Rooms	0	150	150	
Recreation and Park Daytime Visitors	0	650	2,600	
<b>Demand Projections</b>				
	<b>2018</b>	<b>2023</b>	<b>2038</b>	
Population (excluding hotel population)	32,780	418,330	1,737,010	
Total Commercial, Civic, and Industrial	38,337	124,587	357,087	
Total Students	80,334	80,334	151,794	
Hotel Rooms	0	15,000	15,000	
Recreation and Park Day Time Visitors	0	6,500	26,000	
Total Demand (Gallons Per Day)	151,451	644,751	2,286,891	

The City will adopt a Water Supply Facilities Work Plan for the City that will identify water resource development and water supply development options consistent with the 2013 Lower East Coast Regional Water Supply Plan Update. The City is required to update the Infrastructure Element within 18 months of any update to the 2013 Lower East Coast Regional Water Supply Plan Update by SFWMD.

The M Canal runs along the northern boundary of the City, west of Seminole Pratt Whitney Road, and within the City boundary east of Seminole Pratt Whitney Road. The City of Westlake does not use the M Canal as a public water supply; however, the City of West Palm Beach does use the M Canal as a public water supply. The City’s storwater management and drainage, which is under SID’s jurisdiction, is separate from and unconnected from the M Canal. The M-2 canal serves as the City’s drainage canal, which carries water to the C-51 Basin.

## WASTEWATER

SID is the retail provider of wastewater services to the City. SID has an Interlocal Agreement with Palm Beach County (the same 2006 interlocal agreement that addresses potable water) to purchase wastewater capacity at a rate up to 4.0 MGD. SID and Palm Beach County have invested in significant infrastructure in the Westlake area to provide wastewater service. The development of the City will not require additional capacity to provide wastewater service to the City; rather, it will utilize existing excess capacity, thereby discouraging



urban sprawl. SID has decommissioned its wastewater treatment facility but maintains pump stations, force mains, collection facilities and interconnects to the County system for wastewater service within the City. The City will coordinate with SID to expand internal wastewater distribution lines concurrent with development within the City.

The City's level of service standard for wastewater is 100 gallons per capita per day (gpd) for residential uses and 150 gallons per 1,000 sq. ft. per day for non-residential uses with the following exceptions: schools have a level of service standard of 18 gpd per student; hotels have a level of service standard of 100 gpd per room. Parks have a level of service standard of 10 gpd per visitor. The per-capita level of service standard will be applied to dwelling units using a 2.65 average PPH unless it can be demonstrated that a different PPH is applicable. The City will continue to coordinate with SID to monitor and evaluate future operating demands as the City increases utility users and to adjust the level of service standard if needed through the planning periods.

The table below provides an analysis of wastewater demand over the 2023 and 2038 planning periods. The first section identifies the level of service standards used for the planning analysis. The second section identifies existing and projected population and uses that require wastewater service. Existing non-residential square footages include the Grove Market commercial area and the packing house parcel which includes industrial and office uses. Square footage numbers are from the Palm Beach County property appraiser parcel database. Student numbers are based on school capacity numbers from the Palm Beach County School District 2016/17 Work Plan and anticipated students from a potential new school. New development square footage, hotel rooms, and college students are based on the existing development orders within the City. Projections of recreation and park daytime visitors are based on averages derived from the National Recreation and Park Association 2016 study of park usage entitled "NRPA Americans' Engagement with Parks Survey." The third section computes the current and projected demand for the 2023 and 2038 planning periods. The anticipated infrastructure facilities needed for the 2023 and 2038 planning periods are identified in Table 4.1 and also depicted on INF Map 4.2 and INF Map 4.3.



**Table 4.2: Wastewater Analysis**

<b>Wastewater Level of Service Standard</b>			
	<b>Gallons Per Day</b>		
Per Person	100		
Per square foot for Commercial, Civic, and Industrial	0.15		
Per Student	18		
Per Hotel Room	100		
Per visitor of park and recreation facilities	10		
<b>Demand Generators</b>			
	<b>2018</b>	<b>2023</b>	<b>2038</b>
Population (excluding hotel population)	298	3,803	15,791
Existing Commercial, Civic, and Industrial	180,581	180,581	180,581
New Commercial, Civic, and Industrial S.F.	75,000	650,000	2,200,000
Total Commercial, Civic, and Industrial S.F.	255,581	830,581	2,380,581
K-12 Students	4,463	4,463	5,433
College Students	0	0	3,000
Total Students	4,463	4,463	8,433
Hotel Rooms	0	150	150
Recreation and Park Daytime Visitors	0	650	2,600
<b>Demand Projections</b>			
	<b>2018</b>	<b>2023</b>	<b>2038</b>
Population (excluding hotel population)	29,800	380,300	1,579,100
Total Commercial, Civic, and Industrial	38,337	124,587	357,087
Total Students	80,334	80,334	151,794
Hotel Rooms	0	15,000	15,000
Recreation and Park Day Time Visitors	0	6,500	26,000
Total Demand (Gallons Per Day)	148,471	606,721	2,128,981

## REUSE WATER

Pursuant to the SID-Westlake Interlocal, SID will be the exclusive retail provider of reuse water within the City and will provide development within the City reuse water for irrigation. If reuse is not available from the County, irrigation may be supplemented by canal water as allowed by permit with the South Florida Water Management District.





An Interlocal Agreement for the Purchase and Sale of Bulk Reclaimed Water between SID and Palm Beach County for the purchase of bulk reuse water dated April 20, 2010 gives SID a “prior reserve capacity” of reuse water to be provided by the county. The amount of reuse water is contingent upon the amount needed by Florida Power and Light. The agreement calls for the county to make available 2.85 MGD of reuse water in 2017, which is scheduled to increase to 3.85 MGD by 2025. SID will not produce its own reuse water, but will receive reuse water pursuant to this agreement with Palm Beach County. At this time, a re-pump and storage facility and some transmission pipes are connected and in operation. Further expansion of the distribution system within the City will occur as the City develops.

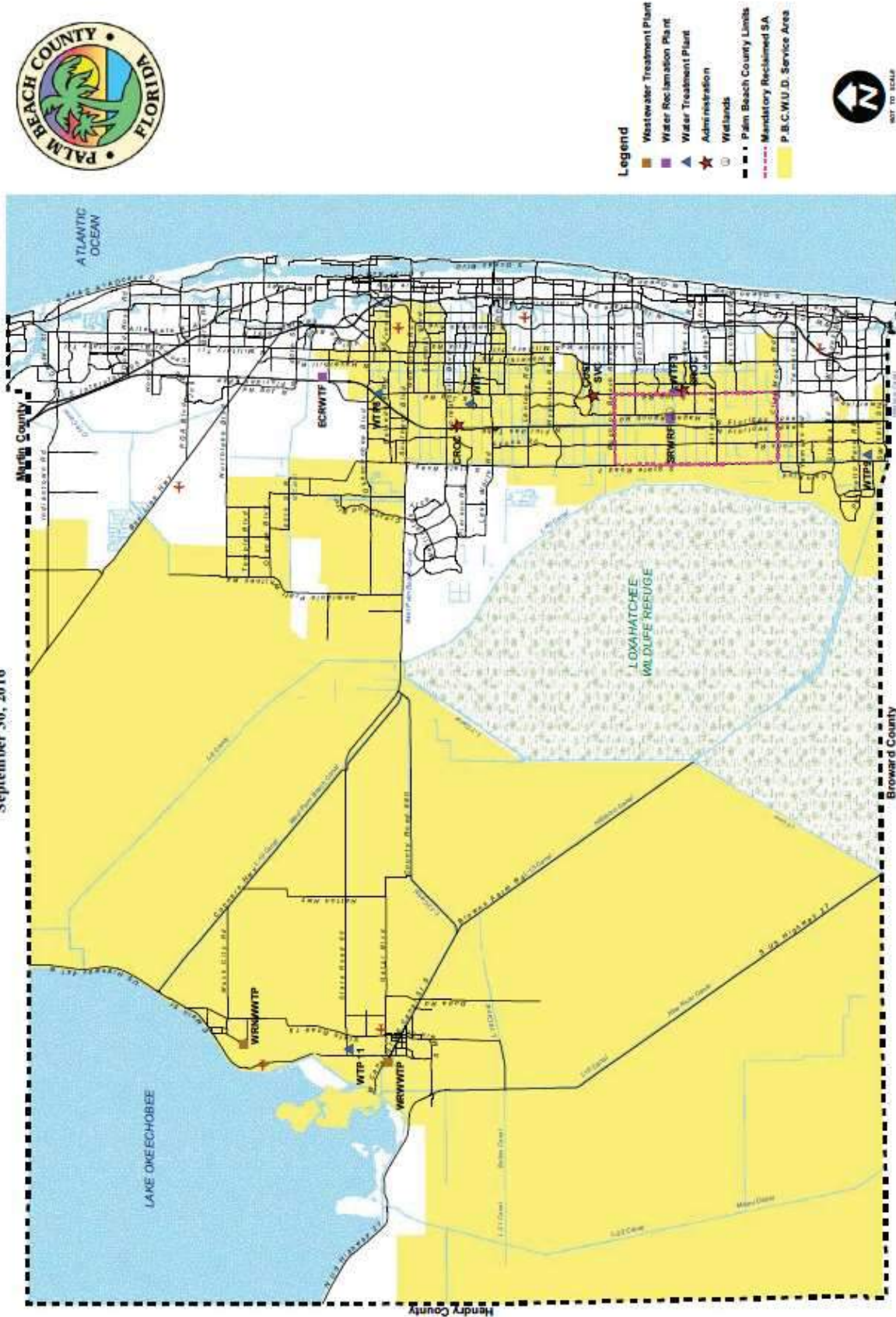
The anticipated infrastructure facilities for the 2023 and 2038 planning periods are depicted on INF Map 4.2 and INF Map 4.3.

Figure 4.1 below shows the service area and major facilities of the Palm Beach County Water Utilities Department as depicted in its Comprehensive Annual Financial Report Fiscal years Ended September 30, 2016 and 2015.



Figure 4.1

PALM BEACH COUNTY, FLORIDA  
WATER UTILITIES DEPARTMENT  
SERVICE AREA (SA) AND MAJOR FACILITIES  
September 30, 2016





## SOLID WASTE

The Solid Waste Authority (SWA) of Palm Beach County is a dependent special district responsible for managing solid waste disposal and recycling programs within Palm Beach County pursuant to a Special Act of the Florida Legislature in 2001. The SWA integrated solid waste management system includes a 334 acre landfill, a 2,000 ton per day waste to energy facility, a 3,000 ton per day mass burn waste-to-energy plant, a recovered materials processing facility, a biosolid pelletization facility, a vegetative waste processing operation, household hazardous collection facilities and 6 transfer facilities.

The SWA's 2017 Landfill Depletion Model projects sufficient landfill capacity through the 2038 planning period with the current lifespan of the facility projected to extend from 2038 to 2051 depending upon various demand and operational assumptions. This projection is based upon countywide growth projections. Based on the average solid waste generation rate for the county as a whole, the City is establishing a solid waste level of service standard of 7.02 pounds per capita per day, which can be maintained through both the 2023 and 2038 planning periods.

## DRAINAGE

SID manages drainage throughout the City. The land area of the City is currently drained through the M-2 Canal. The ultimate discharge point for the area is the South Florida Water Management District C-51 Canal. There are numerous agricultural ditches and canals currently running through the City. The system was created for citrus agricultural use and provided both irrigation water supply and flood control within the area. Permits for peak discharge up to 2-inches in 24 hours via M-2 Canal to C-51 Canal are in place for SID, which can accommodate the City's future land uses shown Future Land Use Map (FLU Map 2.1).

SID will continue to provide drainage for the City. SID's master drainage management plan currently provides for a drainage system which will consist of an extensive lake system to be constructed in phases to accept runoff from common areas, collector roads, and residential and non-residential development areas. The water management system will continue to discharge into the M-2 Canal.

Drainage for the City can be maintained through the 2023 and 2038 planning periods. The anticipated infrastructure facilities needed for the 2023 and 2038 planning periods is depicted on INF Map 4.2 and INF Map 4.3.

The City is located within the SFWMD C-51 Basin and is subject to the SFWMD C-51 Basin Rule, (found in Part III, Ch. 40E-41, Rules 40E-41.220 through 40E-41.265, Florida Administrative Code), in addition to other stormwater regulations. The proposed minimum building floors will be designed at or above the higher of the peak stage in the 100-year, 3-day, zero discharge design storm or the SFWMD's C- 51 Basin 100-year stage. As set forth in Table 4.3A below, flood protection within the City will be provided for various storm events based on the rainfall depths provided by the isoheytal graphs in the SFWMD's Environmental Resource Permit Applicant's Handbook Volume II. The SID drainage infrastructure is designed to



accommodate the City as a whole, therefore the perimeter berm and peak discharge criteria applies to the overall SID stormwater management system, rather than individual development within the City.

**Table 4.3A Drainage Level of Service Standards**

<b>Storm Event</b>	<b>Intensity of Rainfall Depth (in.)</b>	<b>Development, Roads, and Drainage Facilities</b>
10 year-1 day	7.4	Local Roads and Parking Lots
25 year-3 day	12	Arterial Roads, Collector Roads, Perimeter Berm, and Peak Discharge
100 year-3 day, zero discharge	14	Finished Floors

*Source: Isohytel Graphs SFWMD's Environmental Resource Permit Applicant's Handbook Volume II*

*\*Perimeter Berm and Peak Discharge are referring to master SID stormwater management system.*

SFWMD maintains and implements design elevation guidelines for buildings and road construction that address possible flooding, as illustrated in the Table 4.3B below.



**Table 4.3B Drainage Level of Service Standards**

<b>Elevation (NAVD 88)</b>	<b>Development, Roads, and Drainage Facilities</b>
18.23	Local Road Crown
18.23	Parking Lots
19.23	Arterial and Collector Road Crown
19.83	Finished Floors

*Source: SFWMD Conceptual Permit 50-0021-S*

## **GROUND WATER RECHARGE**

The City is located within the jurisdiction of the SFWMD, and more specifically, within the SFWMD Lower East Coast (LEC) Planning Area. The principal ground water resource for the LEC Planning Area is the Surficial Aquifer System. The extensive water management and lake system within the City will provide for recharge of the local surficial aquifer consistent with the requirements of the SFWMD.

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# CONSERVATION

2018



## CHAPTER 5. CONSERVATION ELEMENT DATA AND ANALYSIS

### INTRODUCTION

This Element addresses the conservation, use, and protection of natural resources in the City, including air, water, water recharge areas, wetlands, waterwells, estuarine marshes, soils, beaches, shores, floodplains, rivers, bays, lakes, harbors, forests, fisheries, wildlife, marine habitat, minerals, and other natural and environmental resources to the extent they exist within the City, including factors that affect energy conservation.

### NATURAL RESOURCES

The City is centrally located in the interior of Palm Beach County, almost equidistant from the Intracoastal Waterway and Atlantic Ocean to the east and Lake Okeechobee to the West. Thus, the City does not have any marine habitat, beaches, fisheries, estuarine marshes, harbors, bays or shorelines within its jurisdiction.

Lands within the City have been in active agriculture for over 50 years, which has resulted in the removal of most natural features and habitat within the City, including wildlife habitat and wetlands. Further, though silviculture has been conducted on the property, there is no naturally occurring forest habitat within the City.

The City's climate, soils and minerals, air, floodplains, water resources, ground water recharge areas, land cover, natural habitats including wetlands, wildlife, and other environmentally sensitive lands are analyzed in detail below.

### Climate

The climate of an area affects the amount and type of development, including building practices and structural and design features. Use of climate-appropriate practices supports the efficient use of energy sources, greenhouse gas reduction, and overall resource conservation. The U.S. Department of Energy has designated Building America climate regions based on the International Energy Conservation Code (IECC). Palm Beach County is in the Hot-Humid climate region. (Building America Best Practice Series, Volume 7.3, "[Guide to Determining Climate Regions by County](#)," U.S. Department of Energy, August 2015).

Normal temperature and precipitation variables for the City are not currently available. However, the National Climate Data Center provides the normal weather variables for temperature and precipitation for Palm Beach County International Airport. These normal variable are shown in Table 5.1 and Figures 5.1 and 5.2 below. It should be noted that there is some evidence that the summer season may slowly become hotter and longer due to global warming. ("A brief update: Sea Level Rise and Climatic Trends," SFWMD Palm Beach County Water Resources Task Force, April 16, 2015).



**Table 5.1: Temperature (°F) and Precipitation (Inches) by Month at Palm Beach County International Airport**

Month	Precipitation (Inches)	Minimum Temperature (°F)	Average Temperature (°F)	High Temperature (°F)
January	3.13	56.8	65.7	74.6
February	2.82	59.1	67.8	76.5
March	4.59	62.2	70.5	78.7
April	3.66	65.8	73.8	81.7
May	4.51	71	78.4	85.7
June	8.3	74.3	81.4	88.4
July	5.76	75.5	82.7	89.9
August	7.95	75.9	83	90.1
September	8.35	75.2	81.8	88.3
October	5.13	71.7	78.3	84.9
November	4.75	65.5	72.8	80.1
December	3.38	60	68.1	76.2

Source: National Climate Data Center

**Figure 5.1: Temperature (°F) by Month at Palm Beach County International Airport**

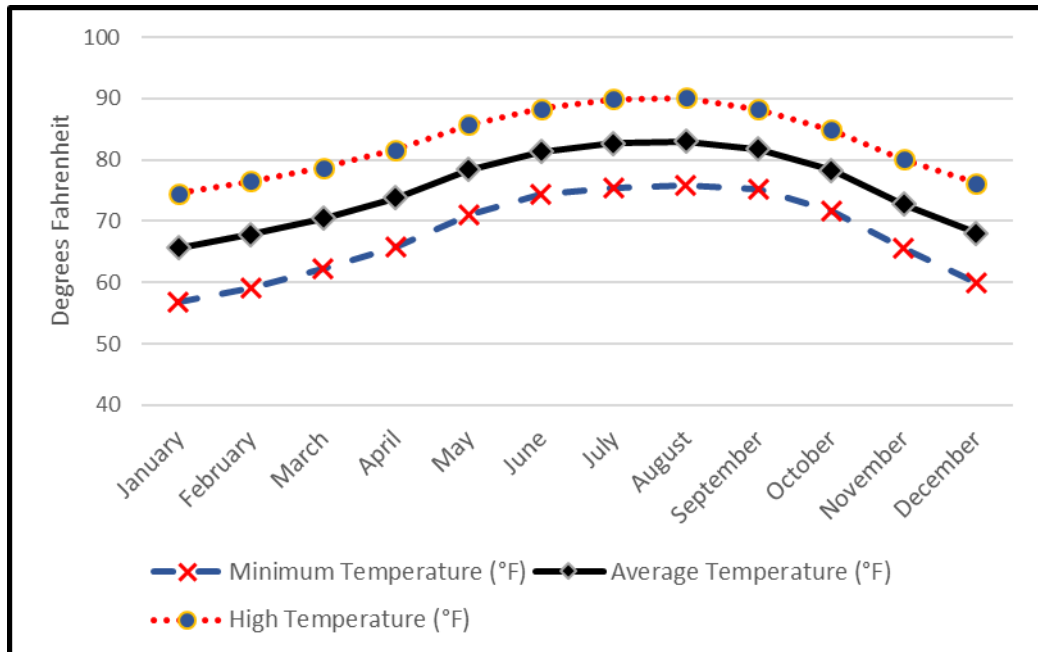
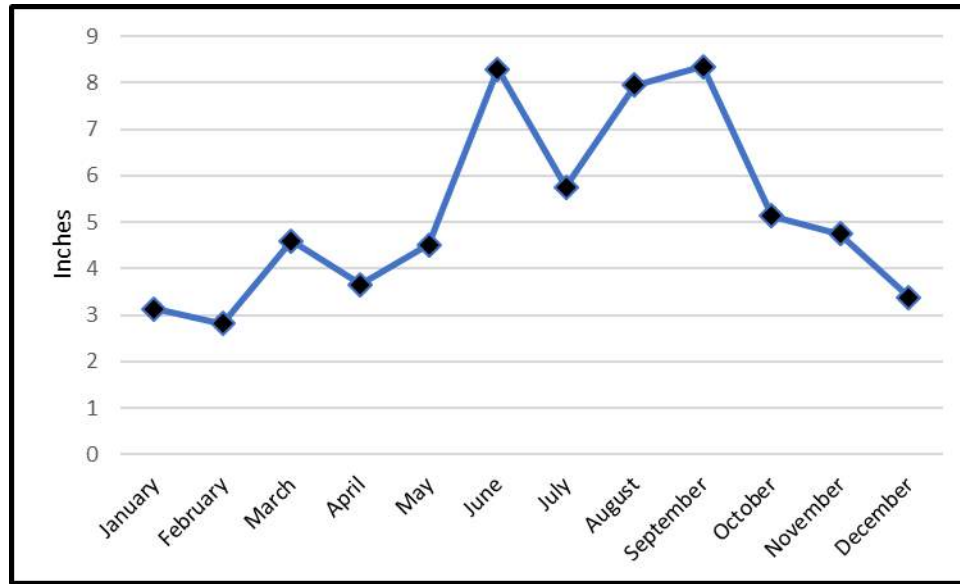






Figure 5.1: Precipitation (Inches) by Month at Palm Beach County International Airport



Useful measures for considering the impact of the climate, as well as month-to-month weather conditions, on energy cost and conservation are “heating degree days” and “cooling degree days.” The National Weather Service of the National Oceanic and Atmospheric Administration provides the following explanation.

*A "degree day" is a unit of measure for recording how hot or how cold it has been over a 24-hour period. The number of degree days applied to any particular day of the week is determined by calculating the mean temperature for the day and then comparing the mean temperature to a base value of 65 degrees F. (The "mean" temperature is calculated by adding together the high for the day and the low for the day, and then dividing the result by 2.)*

*If the mean temperature for the day is, say, 5 degrees higher than 65, then there have been 5 cooling degree days. On the other hand, if the weather has been cool, and the mean temperature is, say, 55 degrees, then there have 10 heating degree days (65 minus 55 equals 10).*

*Why do we want or need to know the number of "degree days?" It is a good way to generally keep track of how much demand there has been for energy needed for either heating or cooling buildings. The cooler (warmer) the weather, the larger the number of "heating (cooling) degree days"... and the larger the number of heating (cooling) degree days, the heavier the demand for energy needed to heat (cool) buildings.*  
<https://www.weather.gov/ffc/degdays>

Palm Beach County has a high number of cooling degree days – days for which air conditioners must be running and where improved building insulation, materials, design, orientation, and vegetation can reduce energy use and costs.



The Florida Climate Center, Office of the State Climatologist at Florida State University provides data on heating and cooling degree days for the Palm Beach International Airport. These are shown in Table 5.3 below.

**Table 5.3: 1981-2010 Degree Days for Palm Beach County International Airport**

	Heating Degree Days	Cooling Degree Days
January	86	108
February	48	127
March	24	193
April	4	267
May	0.5	414
June	0	490
July	0	549
August	0	558
September	0	502
October	1	413
November	11	245
December	59	155

*Source: Florida Climate Center*

People, buildings, and infrastructure are also affected by severe weather conditions. Palm Beach County has been affected by several hurricanes, flooding events, and severe wind events in recent years. Hurricane events include Irma in 2017, Wilma in 2005, and Jeanne and Frances in 2004. Flooding conditions like those that occurred in January of 2014 are due to unusual convergences of rain producing conditions.([https://www.weather.gov/mfl/palm\\_beach\\_flood\\_010914](https://www.weather.gov/mfl/palm_beach_flood_010914)). High wind events such as tornadoes are relatively rare, but do occur ([https://www.weather.gov/mfl/pb\\_tornado](https://www.weather.gov/mfl/pb_tornado)).

Climate related events such as sea level rise may also affect Palm Beach County in the long-term future. All of Florida will be impacted directly or indirectly if high sea level rise forecasts are realized. According to the SFWMD, sea level rise may affect flood control, water supply, natural systems, and water quality. Key vulnerabilities include reduced flood discharge capacity, reduced flood capacity in secondary canal systems, saltwater intrusion, and inundation of coastal wetlands and changes in ecology.

Fortunately for the City, Palm Beach County is in relatively better condition than other counties in southeast Florida due to its topography and the existence of fewer waterways west of the Intercoastal Waterway. (Sources include “Vulnerability Analysis for Southeast Florida to Sea Level Rise;” “Climate Change and Sea Level Rise Planning and Adaptation Strategies,” SFWMD. 2010; and “A brief update: Sea Level Rise and Climatic Trends,” SFWMD Palm Beach County Water Resources Task Force. April 16, 2015). Due to the City’s location west of the coastal area, it is less likely to experience the direct inundation from sea level rise that may occur in the coastal communities, especially along waterways. (“Analysis of the Vulnerability of Southeast Florida to Sea Level Rise,” Southeast Florida Regional Compact Climate Change). Several resources



are available regarding this issue and may be found at [www.flseagrant.org/climate-change/sea-level-rise/](http://www.flseagrant.org/climate-change/sea-level-rise/) and <https://coast.noaa.gov/digitalcoast/stories/slr.html>.

### Soils and Minerals

The general distribution of soils within the City is shown on FLU Map 2.3, which is based on the soil survey of Palm Beach County conducted by the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service. ([www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=FL](http://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=FL)).

The survey identifies the following soil series in the City: Arents-Urban Land Complex (0 To 5 % Slopes), Arents-Urban Land Complex (Organic Substratum), Boca Fine Sand, Chobee Fine Sandy Loam, Floridana Fine Sand, Hallandale Fine Sand, Okeelanta Muck, Pineda Fine Sand, Pinellas Fine Sand, Riviera Fine Sand, Riviera Fine Sand (Depressional), Tequesta Muck, Wabasso Fine Sand and Water. The USDA describes these soils as follows:

**Arents – Urban Land Complex** – This complex consists of nearly level, somewhat poorly drained, sandy soils and urban land overlying organic soils. These areas were formerly organic marshes and swamps that were filled for urban use. This complex is primarily in the vicinity of Lake Mangonia and Clear Lake in the Palm Springs area, but it is also in a few places along the Intracoastal Waterway. Arents consist of lawns, vacant lots, undeveloped areas, and other open land. Urban land consists of areas covered by streets, side-walks, driveways, houses, and other structures.

**Boca Fine Sand** – The Boca series consists of moderately deep, poorly drained and very poorly drained, moderately permeable soils in low broad flats, poorly defined drainage-ways and depressions of the flatwoods and adjacent tidal flats. They formed in sandy and loamy marine sediments deposited over limestone bedrock.

**Chobee Fine Sandy Loam** –The Chobee series consists of very deep, very poorly drained, slowly to very slowly permeable soils in depressions, flats, and occasionally on river flood plains in the lower Coastal Plain. They formed in thick beds of loamy marine sediments.

**Floridana Fine Sand** – The Floridana series consists of very deep, very poorly drained, slowly to very slowly permeable soils on low broad flats, flood plains, and in depressional areas. They formed in thick beds of sandy and loamy marine sediments.

**Hallandale Fine Sand** – The Hallandale series consists of shallow, poorly and very poorly drained, rapidly permeable soils formed in thin deposits of marine sandy materials over limestone. They occur on broad low flats, sloughs, shallow depressions, and adjacent tidal areas in Peninsular Florida. They are saturated during the summer rainy season and after periods of heavy rainfall in other seasons.

**Okeelanta Muck** – The Okeelanta series consists of very deep, very poorly drained, rapidly permeable soils in large fresh water marshes and small depressional areas. They formed in decomposed hydrophytic non-woody organic material overlying sand.



**Pineda Fine Sand** – The Pineda series consists of deep and very deep, poorly and very poorly drained, very slowly permeable soils in depressions, low hammocks, poorly defined drainageways, broad low flats, and flood plains. They formed in thick beds of sandy and loamy marine sediments on the lower Coastal Plain.

**Pinellas Fine Sand** – The Pinellas series consists of very deep, poorly drained, very rapid to rapidly permeable soils on flats that border sloughs and depressions. They formed in sandy marine sediments over loamy sediments.

**Riviera Fine Sand** – The Riviera series consists of nearly level, poorly drained soils that have a loamy subsoil. These soils are on broad, low areas and in depressions. They formed in beds of sandy and loamy marine sediment.

**Tequesta Muck** – The Tequesta series consists of nearly level, very poorly drained soils that have a thin organic layer overlying a mineral soil that has a sandy surface layer, a sandy subsurface layer and a loamy subsoil. Tequesta Muck is on broad, low flats and in marshes and depressions.

**Wabasso Fine Sand** – The Wabasso series consists of nearly level, poorly drained, sandy soils that have a black, weakly cemented sandy layer over loamy material. These soils are in broad, flatwoods areas. They formed in thick beds of sandy marine sediment and the underlying loamy material. Wabasso fine sand is found in broad, flatwoods areas.

There are no areas within the City known to have experienced soil erosion problems. In addition, there are no known sources of commercially valuable minerals and there is no mining of mineral deposits within the City. Mining is not allowed by the Plan.

## Air

Air quality within the City is generally good. Based upon ambient air quality monitoring conducted by the Florida Department of Environmental Protection (FDEP) and documented in the 2012 Florida Air Monitoring Report, Palm Beach County is an attainment area for five of the six major air contaminants: carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO<sub>2</sub>), particulate matter (PM), and sulfur dioxide (SO<sub>2</sub>). The attainment area designation indicates that the concentrations of major pollutants are within the acceptable limits set by the FDEP and the U.S. Environmental Protection Agency (EPA).

Palm Beach County is classified as an attainment/maintenance area for the pollutant ozone (O<sub>3</sub>). A maintenance area is an area previously classified as non-attainment that has successfully reduced air pollutant concentrations to below the standard, but must maintain some of the non-attainment area plans to stay in compliance with the standards. However, the U.S. Environmental Protection Agency (EPA) reports that “the 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.” (<https://www3.epa.gov/airquality/greenbook/ancl.html>).

Therefore, although the most recent data available from FDEP indicates a level of ozone comparable to the level in 2012, the previous standards no longer exist.



(see [http://www.dep.state.fl.us/air/air\\_quality/techrpt/quick/Quicklook-2015-q1-q3.pdf](http://www.dep.state.fl.us/air/air_quality/techrpt/quick/Quicklook-2015-q1-q3.pdf)).

Palm Beach County is no longer classified as a nonattainment area for any of these air pollutants, i.e. it is an attainment area for classified pollutants. The Palm Beach County Health Department monitors ambient air quality and regulates mobile and stationary sources of air pollution. It also administers the asbestos and open burning regulations and implements Pollution Prevention (P2) programs.

### Floodplains

A floodplain is a strip of relatively flat land bordering a stream channel that is inundated at times of high water. ([https://water.usgs.gov/water-basics\\_glossary.html](https://water.usgs.gov/water-basics_glossary.html)). In undeveloped areas, typically adjacent to natural water bodies, flooding may occur with such frequency so as to create and support floodplain ecosystems. However, in the City, such natural flow regimes have been replaced by a drainage system managed by SID that regulates water levels and flows. Natural floodplains do not exist in the City.

In developed and developing areas like the City, flooding may occur from rainfall events. Areas that may be inundated by a 100-year storm event have been delineated by the Federal Emergency Management Agency as part of the National Flood Insurance Program. These areas are designated as Special Flood Hazard Areas (FLU Map 2.4) on the Flood Insurance Rate Map (FIRM). The FIRM (dated October 5, 2017) shows that portions of the City are within the AE special flood hazard area which is subject to inundation by the 1% annual chance flood. There is a 1 percent chance of the 100-year flood (also known as the base flood) being equaled or exceeded in any given year. The AE area designation means that a base flood elevation (BFE) has been determined. The BFE is the computed elevation to which floodwater is anticipated to rise during the base flood (100-year flood). The BFE is used in conjunction with the federal flood insurance program. The BFE for the AE area in the City is 18.5 feet (referenced to the North American Vertical Datum of 1988). The City has adopted minimum development elevations as part of its stormwater level of service standards. These elevations exceed the BFE in order to protect development from flooding events.

The areas designated AE by FEMA include the man-made swales, ditches, and canals used for agricultural irrigation and surface water management. In addition, some farm fields at lower lying elevations and some stormwater retention/detention areas are designated AE. As development of the City proceeds, these lower lying areas will likely be filled or transformed into an urban stormwater management system of connected lakes. Thus, the current AE designations will have less relevance to future flooding concerns.

### Water Resources

There are no natural rivers, bays, or lakes in the City. All surface waters in the City are manmade and consist of ditches, swales, canals, and retention/detention ponds in association with either the previous agricultural operations or existing development. These existing features are anticipated to be substantially replaced and/or modified as urban development replaces the existing agricultural uses.

The City is bisected by the M-2 Canal to the west. The existing drainage facilities, constructed and maintained by SID, consist of a perimeter canal, numerous primary and lateral canals, internal culverts, and control



structures. The proposed stormwater management system for the City will consist of a network of inlets, culverts, lakes, created shallow vegetated areas, and outfall structures. Water quality treatment will be provided on-site in the lakes and shallow vegetated areas. Discharges will be directed to the M-2 Canal, which flows into the C-51 Canal. The stormwater management system is permitted by the SFWMD and will be designed to meet the requirements of the SFWMD C-51 Basin Rule found in Part III, Ch. 40E-41, Rules 40E-41.220 through 40E-41.265, Florida Administrative Code).

The M Canal runs along the northern boundary of the City west of Seminole Pratt Whitney Road, and within the City boundary east of Seminole Pratt Whitney Road. Westlake does not use the M Canal as a public water supply; however, the City of West Palm Beach does use the M Canal as a public water supply. The City's stormwater management and drainage, which is under SID's jurisdiction, is separate from and unconnected to the M Canal. The M-2 canal serves as the City's drainage canal, which carries water to the C-51 Basin.

There are no natural springs or potable water wells within the City. As agricultural uses are converted to urban development, water demand will diminish, as residential and commercial uses demand less water than agriculture.

### Ground Water Recharge

The City is regulated by the SFWMD. The City is located within the SFWMD's Lower East Coast (LEC) Planning Area. The principal ground water resource for the LEC Planning Area is the Surficial Aquifer System. The extensive water management and lake system within the City has been permitted by the SFWMD and will provide for recharge of the local surficial aquifer as required by District regulations.

### Water Conservation and Reuse Water

Palm Beach County supplies reuse water to SID through an Interlocal Agreement for the Purchase and Sale of Bulk Reclaimed Water dated April 20, 2010. City residents will use reuse water from SID for landscape irrigation. The existing SID water use permit, which allows for withdrawals from the M Canal for agricultural irrigation purposes, has demands based on the irrigation requirements for agricultural crops. SID will modify its permit over the long term planning period consist with SFWMD requirements as the City develops and agricultural land converts to other land uses. If reuse is not available from the County, it will be supplemented with surface water as allowed pursuant to SID's permit with the South Florida Water Management District. The existing permitted water use allocation (3,000 MGD) can cover the reuse needs of the entire City if reuse is not available from the County.

## LAND COVER

### Natural Habitats

The historical agricultural use of land that now comprises the City resulted in the elimination of all native and natural habitat features. The entire City has been altered for agricultural use, originally for citrus production. The clearing, ditching, and crop activities of the past 50+ years have erased any natural systems that would have occurred historically on the site. The more recent conversions to varied agricultural uses in



the City have continued this condition. As a result, there is less than one acre of native habitat or natural features within the City.

### **Wetlands**

The agriculture improvements and operations that have been conducted for the past 50 plus years have resulted in no naturally occurring wetlands within the City. There are approximately 258.5± acres of surface waters existing today throughout the City, which consist of man-made swales, ditches, and canals that are currently used or were previously used, for agricultural irrigation at the site, and for surface water management. The swales primarily consist of very shallow depressional areas which can either contain shallow standing water or no water. The ditches primarily consist of unvegetated water areas with steep-sided unvegetated banks that experience frequently fluctuating water levels depending on on-site agricultural irrigation activities and surface water management. The canals primarily consist of unvegetated, deep water areas with steep-sided unvegetated banks.

During the permitting process for the Minto development, Minto purchased 5.90 freshwater herbaceous federal credits from the Loxahatchee Mitigation Bank in conjunction with the Army Corps of Engineers (ACOE) Permit No. SAJ-2004-07618, which mitigates for Waters of the United States on the property at the time of the permit.

### **Uplands**

As noted earlier, due to previous agricultural activities, no existing native habitats or natural features exist within the City. The agricultural activities since 1964 eliminated any native upland habitats or natural features that may have been present on the property prior to agricultural development.

Although there are areas within the City in which native vegetation can be found, these are limited to tree nursery and pine plantation areas where native species are being cultivated for commercial sale or uses. They do not constitute forests, native habitats or natural features as they are monotypic single species stands under cultivation for production of landscape vegetation or silviculture.

## **WILDLIFE**

### **Protected Species**

Wildlife is a valuable resource within the Palm Beach County area. Although there are no naturally occurring wetlands or preferred habitat for wetland-dependent endangered or threatened wildlife species or species of special concern within the City, man-made ditches, canals, and excavated ponds can support a large number of wildlife species. To date, there are no known threatened or endangered species living within the City.

### **Invasive Species**

South Florida has become an inviting destination for some undesirable species that threaten to undermine the health of the environment. More than an inconvenience, invasive plants and animals can greatly alter the native landscape, adversely impact native wildlife, destroy agricultural crops and threaten public health.



### **Invasive Plants**

Non-native invasive plants were brought into Florida through a variety of methods. Certain non-native plants are more harmful to the ecosystems of Florida than others. Those that begin to cause widespread ecological damage to the native plant and animal communities are called invasive. These non-native invasive plants grow quickly, produce abundant seeds, have no natural enemies, flourish in a wide range of soil conditions, and prevent native species from growing. These invaders destroy natural habitat, out competing native plants for space, soil, sunlight, air, and water. This loss of habitat impacts Florida wildlife. Local and State governments are also affected, spending millions annually to control these invasive non-native plants and to restore natural habitat which has been impacted due to their prolificacy.

Having been in active agriculture over the past 50 years, there are few invasive species remaining within the City. The Plan requires removal of all invasive vegetation identified by the Florida Exotic Pest Plant Council found during the process of approving new development within the City.

### **Invasive Animal Species**

Invasive animal species are not native to Florida and are introduced by human activity. They are brought in either intentionally as ornamentals or pets, or accidentally, as hitchhikers that arrive at airports, seaports or through the mail. Species have always moved around the globe, and the majority are not problematic. It is today's enormous volume of global trade and travel that provides an unprecedented opportunity for species to invade. One-third of all plant species in Florida are now exotic.

(<https://nps.gov/ever/learn/education/upload/2008-Florida-invaders-For-web.pdf>).

Having been in active agriculture over the past 50 years, there is no natural habitat for either native or invasive species within the City.

## **ENVIRONMENTALLY SENSITIVE LANDS**

Environmentally sensitive lands have not been identified or designated within the City. As previously described, the majority of the lands have been utilized for agricultural purposes resulting in the elimination of all native and natural habitat features. Therefore 163.3177(6)(d)2.h., Florida Statutes is not applicable.



# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# RECREATION AND OPEN SPACE

2018



## CHAPTER 6. RECREATION AND OPEN SPACE ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Recreation and Open Space Element is to foster recreation uses and open space that will support the local population, and provide for the creation of natural features; tree-lined roads and shared use paths; parks; and lakes and canals. The recreation uses and open space provided for in this element may also foster a sense of place in the community. Furthermore, this element is intended to guide the decision making process relative to recreation facility development and programs, including ongoing funding and maintenance, to meet the recreational needs of the residents through the short and long term planning periods.



Example of a passive park gathering space

Recreation areas and open spaces provide opportunities for social interaction, enable healthy and active lifestyles, and contribute to the overall urban form. The City will have a community park in addition to neighborhood parks. The parks will consist of active and passive recreation opportunities.

### CITY PARKS

#### Neighborhood Parks

The neighborhood park is a "walk to" park generally located along streets where people can walk or bicycle without encountering heavy traffic. Because the service areas of a neighborhood park and an elementary school often coincide, it is desirable for the neighborhood park to physically join an elementary school when feasible. Both park and school serve the same basic population, share compatible land uses, and maintain recreation facilities that are of mutual benefit.

#### Community Parks

A community park is a "ride to" park located near major streets or arterials. Multi-modal access to community parks is strongly encouraged. Multi-modal access can be accomplished through roads, bicycle lanes, shared use paths, and sidewalks. Typical facilities found in community parks include both passive and active recreation opportunities such as playground areas, recreation buildings, sports fields, paved multipurpose courts, picnic areas, open or free play areas, swimming pools, and landscaping. Adequate off-street parking may be needed to contain parking overflow.



## OPEN SPACE

Open space may serve several purposes including the provision of or access to outdoor recreation; shaping and enhancing urban form including the provision of plazas, courtyards, squares, attractive landscapes, transportation corridor parkways, and vegetated buffers; and management of water resources. Open spaces may assist in providing for land use compatibility, accessibility to recreational opportunities, and stormwater management.

## PALM BEACH COUNTY FACILITIES

### Palm Beach County School District Lands

While, not classified as park, lands owned and maintained by the Palm Beach County School District are still considered as part of the City's recreation and open space system. School lands contain baseball, soccer, and football fields, tennis courts, and indoor recreation facilities that are or may be available to the public and may be considered part of the City's open space system.

### Palm Beach County Regional and District Parks

In addition to the anticipated community and neighborhood parks mentioned above, the following Palm Beach County regional and district parks and beaches will also serve City residents. Palm Beach County recognizes three types of parks: regional, district, and beach parks, which are generally described as follows. Palm Beach County Regional Parks are the largest class of parks in Palm Beach County, and generally exceed 200 acres in size and provide access to a substantial natural or manmade resource. Palm Beach County Regional Parks typically provide passive recreational facilities, and to a lesser degree, active regional facilities. Palm Beach County District Parks are generally greater than 25 acres in size and primarily provide active recreational opportunities, but can also include passive recreational facilities. District Park recreational facilities can include lighted fields or courses; exercise trails; support facilities such as restrooms, concessions, and parking; recreation centers; competitions pools; golf courses; boat ramps; and docks. Palm Beach County Beach Parks are generally greater than 2 acres in size, front the Atlantic Ocean, or its inlets, and provide public beach access. Beach parks may include recreation facilities necessary to support beach access and activities, play areas, picnic areas, and parking.

Okeehelie Park is a 1,702 acre regional park located at 7715 Forest Hill Boulevard, west of West Palm Beach, Florida. The facility is open from sunrise until sunset and includes baseball fields, bike paths, a BMX track, a boating area, a dog park, an equestrian center and trail, a golf course, mountain biking paths, multi-purpose fields, a nature center, picnic areas and pavilions, a playground, softball field, tennis courts, and volleyball courts. Seminole Palms Park is a 70 acre District Park located at 151 Lamstein Lane, Royal Palm Beach, Florida. The facility is open from sunrise to sunset and includes baseball fields, multi-purpose fields, picnic areas, playgrounds, softball fields, and a water park. Phil Foster Park is a 14 acre beach located at 900 East Blue Heron Boulevard, Riviera Beach, Florida. The facility is open sunrise to sunset and offers beach frontage, docks and ramps, fishing platforms, picnic areas, a fishing pier, a playground, restrooms, and showers.



Okeeheelee Park



Seminole Palms Park



Phil Foster Park

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# HOUSING

2018



## CHAPTER 7. HOUSING ELEMENT DATA AND ANALYSIS

### INTRODUCTION

At the time of incorporation in 2016, the City had a population of only six persons residing in four housing units. A windshield survey showed that those existing units are structurally sound, contain plumbing and kitchen facilities, and have electrical and utility services. Those existing housing units do not represent the anticipated housing development of the City over the short and long term planning periods.

It is anticipated that by the end of 2018, there will be approximately 150 housing units built within the City of Westlake. By 2023, 1,575 housing units are projected and by 2038, 6,500 housing units are projected. This Housing Element focuses on the provision of adequate and affordable housing for anticipated future residents of the City.

The City of Westlake is planned to serve unmet land use and development needs in the vicinity which is characterized by low-density residential uses. The future population and housing conditions in the City will be distinct from the nearby area and will complement the development profile of the central county area. Therefore, it shall be assumed that the City will contain housing more similar to the broader housing conditions in the surrounding Census County Divisions (CCDs), than housing conditions in the immediately surrounding communities of the Acreage (a Census Designated Place, or a “CDP”) with an estimated 2017 population of about 38,000 persons; the Town of Loxahatchee Groves with an estimated 2017 population of about 3,300; or Palm Beach County as a whole.

The City of Westlake is located within the Royal Palm Beach-West Jupiter CCD, as are the two closest municipalities of Loxahatchee Groves and Royal Palm Beach. The Acreage is located along the northern, eastern and southwestern borders of the City. The Western Community CCD is located to the north and the Sunshine Parkway CCD is located to the south. Figure 7.1 shows these CCDs. These three CCDs exclude the older communities in the eastern portion of the county, including the higher density housing near the coast, which do not reflect the type and style of housing expected in the City. The three CCDs also exclude the communities located near Lake Okeechobee.

Housing data and analysis for these three CCDs will be combined and used as temporary substitute measures for future City housing conditions. The use of the combined CCDs serves to moderate the differences in housing and household characteristics that exist within the CCDs. The data which follows will illustrate the significant variation among some of the sub-areas included within the three CCDs. Figure 7.2 shows these Census areas and incorporated places surrounding the City.



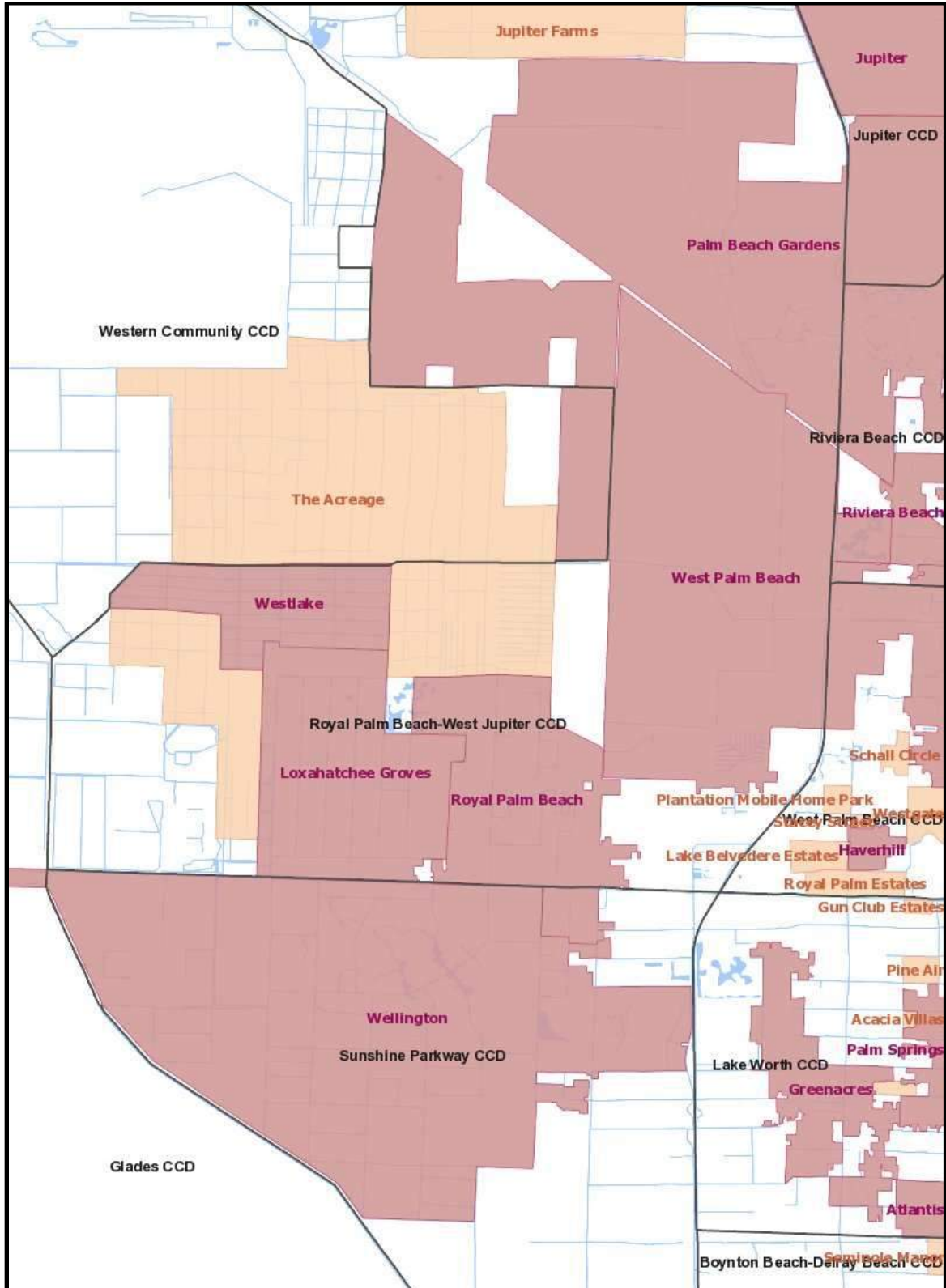
**Figure 7.1: Census County Divisions in Palm Beach County**



Source: <https://tigerweb.geo.census.gov/tigerweb/>



**Figure 7.2: Census County Divisions, Census Designated Places, and Incorporated Places Surrounding the City of Westlake**



Source: <https://tigerweb.geo.census.gov/tigerweb/>





Florida Housing Data Clearinghouse information has not been compiled by the Shimberg Center for Housing Studies for the City of Westlake. The City will update the data and analysis in the future when the Shimberg Center for Housing Studies has provided the data. Also, once substantial housing development occurs within the City, this data and analysis section will be updated to use City-specific data. At this time, however, the best available data is provided by the 2010 Decennial Census and the 2015 5-Year American Community Survey (ACS). The 2010 Census is an actual count whereas the ACS is based on a sample survey. All data presented here from the ACS has statistically calculated margins of error. Both data sources are used. The 2010 Census generally has more accurate information with regard to people, housing, and households, but does not include other data, e.g. income and housing costs, which is only available from the ACS. Since the data are not City data, but are used to represent future City conditions, descriptive statistics, such as averages or percentages are more useful than actual numbers. For example, the number of occupied housing units in the three CCDs is not relevant whereas the percentage of housing units that are occupied can be useful for planning purposes.

## EXISTING HOUSING CONDITIONS

### Housing Characteristics – Type of Housing

Within the surrounding CCDs, as shown in Table 7.1, single-family houses (one-unit, detached and attached) constitute 77 percent of the total number of housing units, which is higher than the countywide percentage of 56 percent. The surrounding CCDs have the highest percentage of single family houses of all CCDs in the county. However, there is also considerable variation of housing type within the surrounding CCDs. For example, the adjacent communities of Loxahatchee Grove and the Acreage have much higher percentages of single-family houses – with 93 percent and 99 percent of their housing stock in single-family houses, respectively – than Royal Palm Beach and Wellington, which have 78 percent and 81 percent of their housing stock in single-family houses, respectively. Conversely, the Glades and West Palm Beach CCDs have the lowest percentages of single family houses in the county, at 22 and 38 percent, respectively. Thus, while the percentage of single-family houses in the surrounding CCDs is higher than the county as a whole, it is much lower than the percentage in the nearest communities. Figure 7.3 is a column chart that compares the single-family house percentages in the proximate geographic areas.

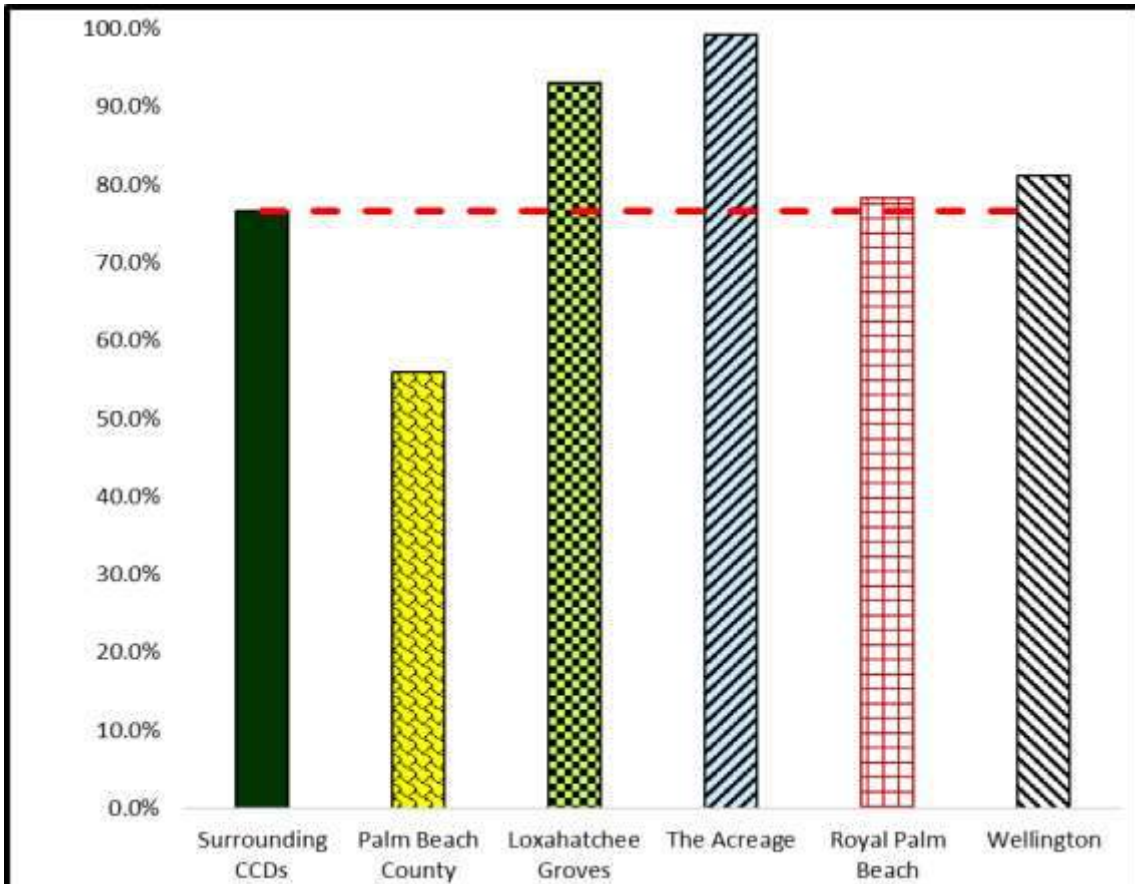


**Table 7.1: Type of Housing Including the Percentage of Total Housing Units by Number of Units in Structure**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage	Royal Palm Beach	Wellington
<b>Type of Unit / Units in Structure</b>						
One-Unit Detached	66.5%	45.9%	92.6%	99.1%	70.8%	73.0%
One-Unit Attached	10.1%	10.1%	0.5%	0.2%	7.4%	8.2%
Two-Units	1.3%	3.1%	0.0%	0.0%	1.3%	3.1%
Three or Four	4.6%	7.2%	0.0%	0.0%	4.1%	5.1%
Five to Nine	4.8%	6.2%	0.6%	0.0%	6.0%	3.8%
Ten to Nineteen	4.0%	6.2%	0.0%	0.0%	7.3%	2.7%
Twenty or more	7.3%	18.5%	0.0%	0.1%	2.3%	3.0%
Mobile Home	1.4%	2.8%	6.1%	0.6%	0.7%	0.8%
Other (Boat, RV, Van, etc.)	0.0%	0.0%	0.4%	0.0%	0.0%	0.1%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

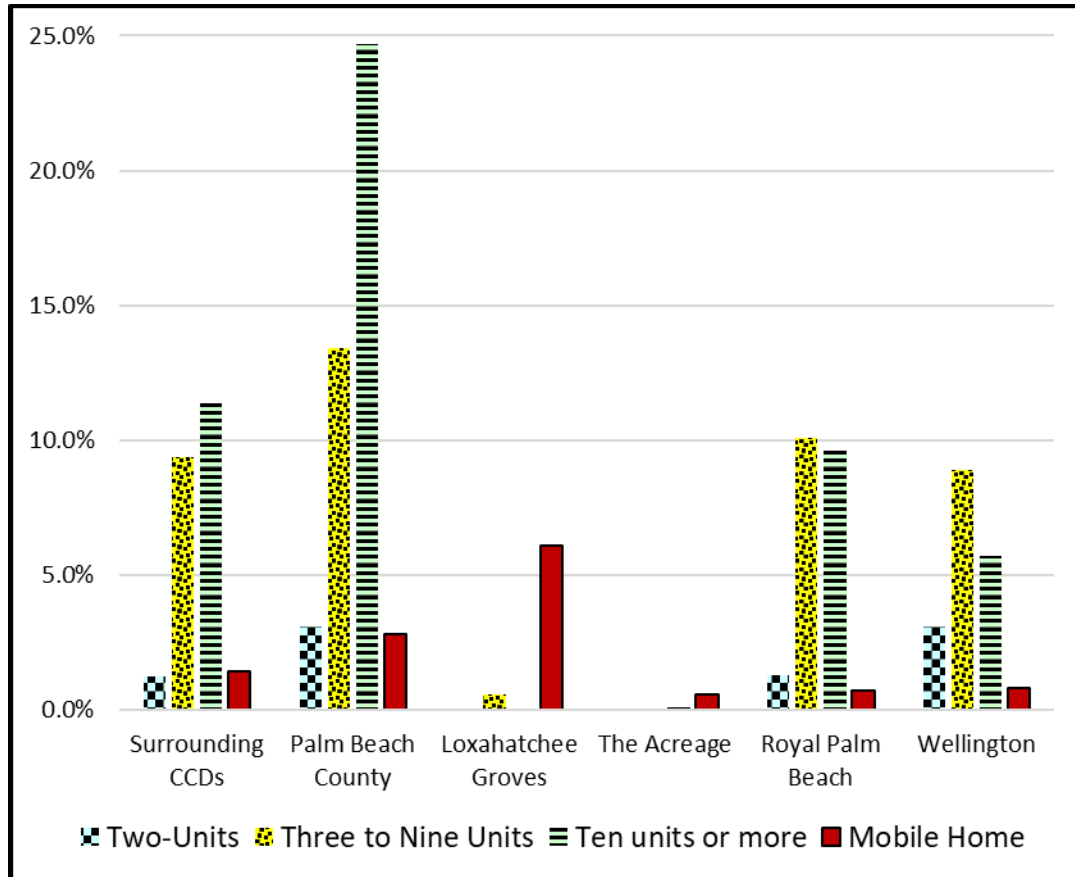
**Figure 7.3: Percentage of Total Housing Units in One-Unit Structures (Both Detached and Attached)**





About 22 percent of housing units in the surrounding CCDs are multi-family. This is also higher than the corresponding percentages in the Acreage, Loxahatchee, Royal Palm Beach and Wellington. Mobile homes constitute 1.4 percent, which is a higher percentage than the Acreage, Royal Palm Beach, and Wellington. Figure 7.4 is a column chart that compares multi-family and mobile home housing unit percentages in the various geographic areas. The chart clearly shows the scarcity of multi-family housing in the two adjacent communities of the Acreage and Loxahatchee Groves.

**Figure 7.4: Percent of Total Housing Units in Multi-Unit Structures and Mobile Homes**



### Housing Characteristics – Age of Housing

The age of the housing stock in the surrounding CCDs are presented in Table 7.2. This data shows that housing in the three surrounding CCDs is newer than housing in the county as a whole. About 64 percent of housing in Palm Beach County was built after 1989, whereas about 85 percent of housing in the surrounding CCDs was built after 1989. Figure 7.5 charts the age of housing. The housing in the City will be newly built, and will conform to the latest Florida Building Code, and therefore is likely to remain in good condition for the duration of the long term planning period.

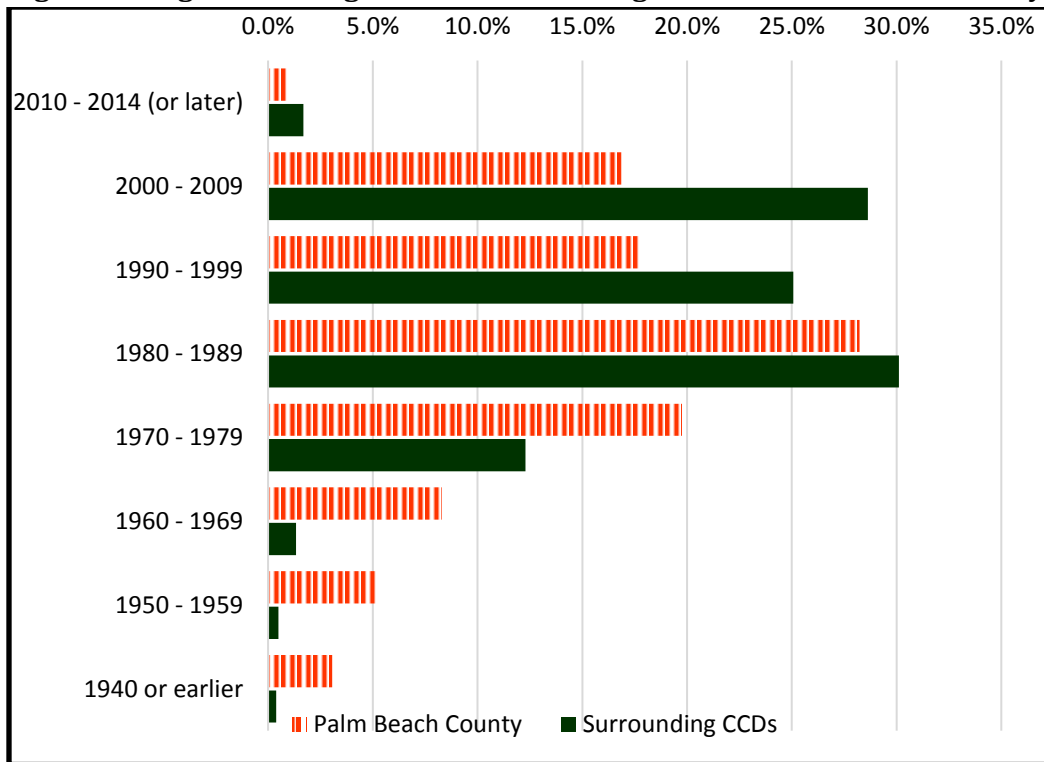


**Table 7.2: Age of Housing Units**

Year Structure Built	Surrounding CCDs	Palm Beach County
Built 2014 or later	0.2%	0.1%
2010 - 2013	1.5%	0.8%
2000 - 2009	28.6%	16.9%
1990 - 1999	25.1%	17.7%
1980 - 1989	30.1%	28.2%
1970 - 1979	12.3%	19.8%
1960 - 1969	1.3%	8.3%
1950 - 1959	0.5%	5.1%
1940 - 1949	0.1%	1.3%
1939 or earlier	0.3%	1.7%

Source: U.S. Census, ACS\_15\_5YR\_B25034

**Figure 7.5: Age of Housing Units in Surrounding CCDs and Palm Beach County**



## Housing Characteristics: Average Household Size

The 2010 Census defines a household as all the people who occupy a housing unit such as a house or apartment as their usual place of residence. A household may be a family household or a non-family household, which may include someone living alone or two or more non-related persons, e.g., roommates, living together. Average household size (also referred to as Population Per Household or PPH) is presented



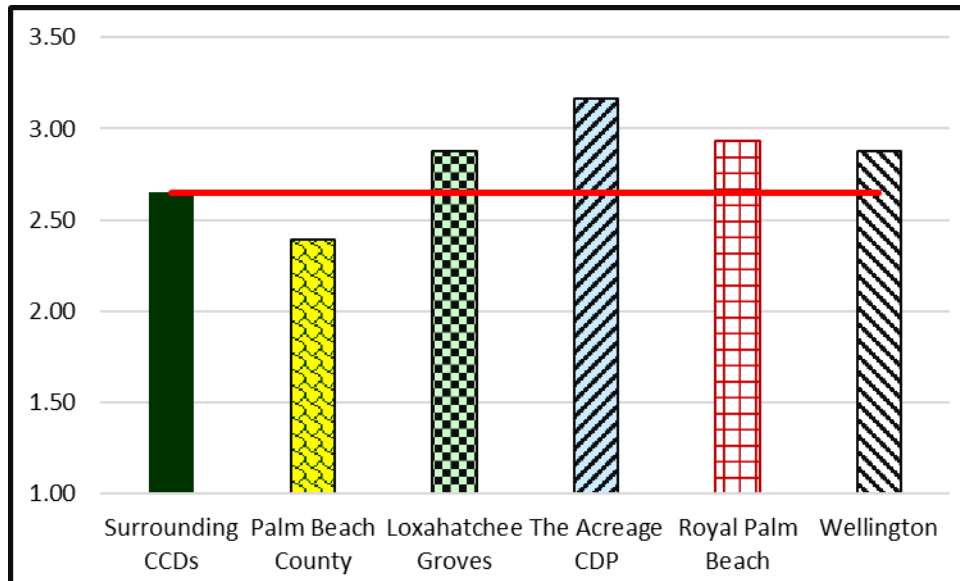
for the three surrounding CCDs as well as Palm Beach County and other nearby areas in Table 7.3. The 2.65 PPH for the surrounding CCDs is lower than all of the surrounding communities, but higher than the county's PPH. Figure 7.6 charts the PPHs for easy comparison. Table 7.3 also shows average household size based on tenure, i.e. owner and renter housing, which is addressed in the next section.

**Table 7.3: Average Household Size -Population Per Household (PPH)**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
<b>All Occupied Housing Units</b>	2.65	2.39	2.88	3.17	2.93	2.87
<b>Owner Occupied Housing Units</b>	2.63	2.34	2.87	3.15	2.87	2.85
<b>Renter Occupied Housing Units</b>	2.75	2.5	2.92	3.39	3.25	2.97

Source: U.S. Census: DEC\_10\_DP1

**Figure 7.6: Average Household Size – Average Population Per Household (PPH)**





## Housing Characteristics - Tenure

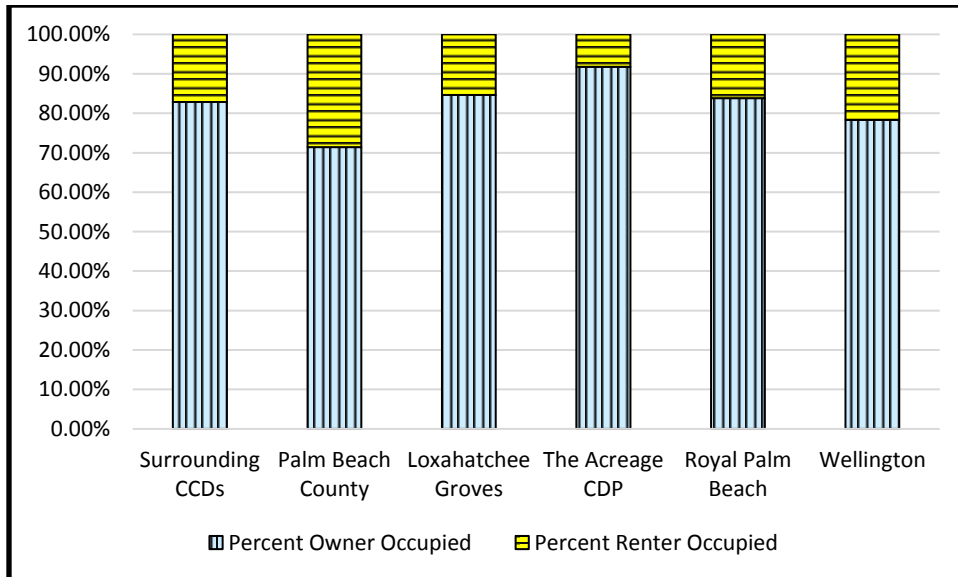
Tenure “refers to the distinction between owner-occupied and renter-occupied housing units.” (U.S. Census). Table 7.4 shows a significant difference in the percent of renter households for the county as a whole compared to the central county area (the surrounding CCDs). In particular, the percentages of rental housing in the Acreage, Loxahatchee Groves, and Royal Palm Beach are much lower than the county as a whole. These differences are charted in Figure 7.7. It is frequently observed that owning a house is an aspiration of most Americans – part of the “American Dream.” However, for many, renting is a much more affordable option. Rental housing (e.g., apartments) are clearly a necessary part of the affordable housing market and are specifically allowed under the Plan.

**Table 7.4: Household Characteristics –Tenure, Percent Owned and Rented**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Percent Owner Occupied	82.88%	71.38%	84.62%	91.80%	83.80%	78.31%
Percent Renter Occupied	17.12%	28.62%	15.38%	8.20%	16.20%	21.69%

Source: US Census DEC\_10\_SF1\_SF1DP1

**Figure 7.7: Tenure – Percent Owned and Rented**





## Housing Characteristics – Occupancy and Vacancy

Household occupancy and vacancy rates are shown in Table 7.5 and charted in Figure 7.8. The occupancy rate is about 87 percent for the surrounding CCDs. The total vacancy rate, of about 13 percent for the surrounding CCDs, includes vacancies for rent; rented but not occupied; for sale only; sold but not occupied; for seasonal, recreational, or occasional use; and vacancies for other reasons. The seasonal vacancy rate of almost 6 percent for the surrounding CCDs is a part of the total vacancy rate and has also been listed separately in order to project the seasonal population living in housing units. The number of occupied housing units equals the number of households. The occupancy rate for the three surrounding CCDs as well as for Loxahatchee Groves, the Acreage, and Royal Palm Beach is higher than the county as a whole. The corresponding vacancy rates are lower, especially for the nearest residential areas. This reflects a tighter residential real estate market for this part of the county relative to the county as a whole. In other words, demand for housing is higher relative to available supply compared to the rest of the county.

**Table 7.5: Occupancy and Vacancy Rates**

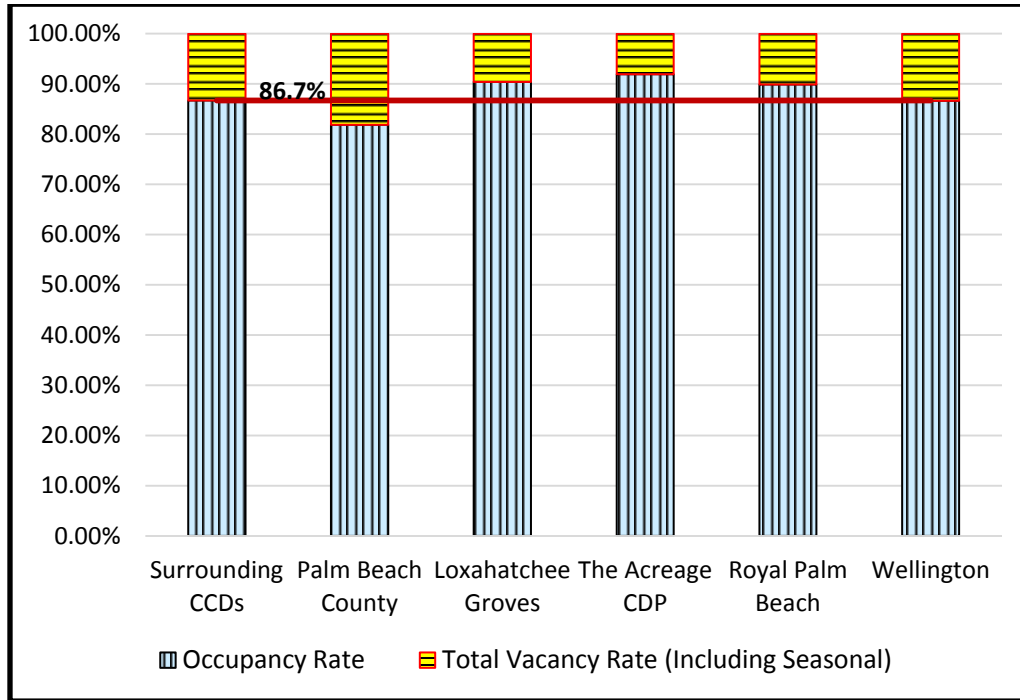
	<b>Surrounding CCDs</b>	<b>Palm Beach County</b>	<b>Loxahatchee Groves</b>	<b>The Acreage CDP</b>	<b>Royal Palm Beach</b>	<b>Wellington</b>
<b>All Housing Units</b>						
Occupancy Rate	86.70%	81.89%	90.43%	91.91%	89.90%	86.66%
Total Vacancy Rate*	13.30%	18.11%	9.57%	8.09%	10.10%	13.34%
Vacancy Rate Excluding Seasonal	7.45%	9.06%	8.02%	7.39%	7.86%	6.69%
<b>Owner Housing</b>						
Homeowner Vacancy Rate*	2.77%	3.37%	1.68%	2.62%	2.64%	2.43%
<b>Renter Housing</b>						
Rental Vacancy Rate*	10.91%	12.28%	6.08%	5.24%	10.81%	11.32%

*\* The homeowner vacancy rate is based on units for sale only and does not count other vacancies. The rental vacancy rate is based on units for rent and does not count other vacancies.*

*Source: US Census DEC\_10\_SF1\_SF1DP1*



Figure 7.8: Household Occupancy and Vacancy Rates



## Housing Costs

Gross rent is defined by the US Census as:

[T]he amount of the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water and sewer) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment.

Table 7.6 lists the percentage of rental households by gross rent ranges. While each geographic area has a unique gross rent distribution, the data show that a higher percentage of rental households in the Acreage, Royal Palm Beach, and Wellington pay gross rent above \$1,000 per month than do rental households in the three CCDs. The gross rent distribution in the three surrounding CCDs depicts a more normal distribution curve than the other communities, indicating a more diverse rental housing profile than any of the other areas, which all have higher gross rent peaks, albeit in different gross rent ranges. The median gross rent for the three CCDs falls in-between the median value for Royal Palm Beach and Wellington. See Figure 7.9 for charted values.





**Table 7.6: Percent of Rental Households By Gross Rent and Median Rent**

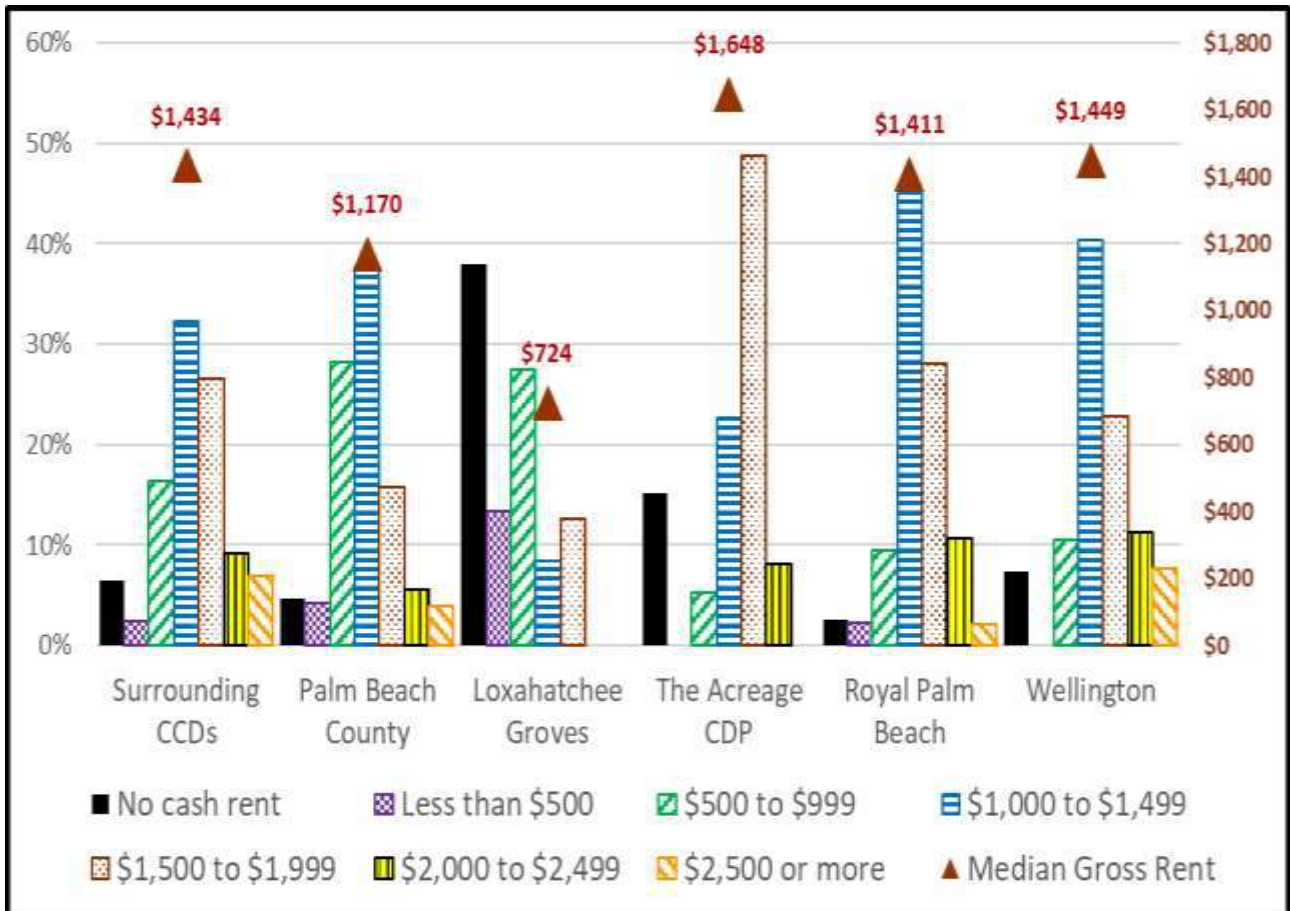
Monthly Gross Rent	Surrounding CCDs	Beach County	Loxahatchee Groves	Acreage CDP	Royal Palm Beach	Wellington
No cash rent	6.4%	4.6%	38.0%	15.1%	2.6%	7.4%
Less than \$500	2.5%	4.3%	13.4%	0.0%	2.2%	0.0%
\$500 to \$999	16.3%	28.3%	27.5%	5.2%	9.4%	10.5%
\$1,000 to \$1,499	32.2%	37.6%	8.5%	22.7%	45.0%	40.3%
\$1,500 to \$1,999	26.5%	15.7%	12.7%	48.7%	28.0%	22.8%
\$2,000 to \$2,499	9.2%	5.6%	0.0%	8.2%	10.7%	11.3%
\$2,500 or more	6.9%	3.9%	0.0%	0.0%	2.0%	7.7%
Median Gross Rent	\$1,433	\$1,170	\$724	\$1,648	\$1,411	\$1,449

Source: U.S. Census, ACS\_15\_5YR\_B25063 and ACS\_15\_5yr\_DP04

Notes: Percentages include units that paid no rent. Median gross rent excludes units for which no rent was paid.

Median gross rent for surrounding CCDs calculated from data using linear interpolation.

**Figure 7.9: Percent of Rental Households by Gross Rent and Median Rent**



Housing value data for Palm Beach County and the surrounding CCDs are presented in Table 7.7. The median value of owner-occupied units of the surrounding CCDs in the 2015 5-Year Estimate was \$257,942, as



compared to \$204,700 for Palm Beach County. The median value of the three CCDs is lower than Loxahatchee Groves and Wellington, but higher than Royal Palm Beach and the Acreage. Figure 7.10 charts the data.

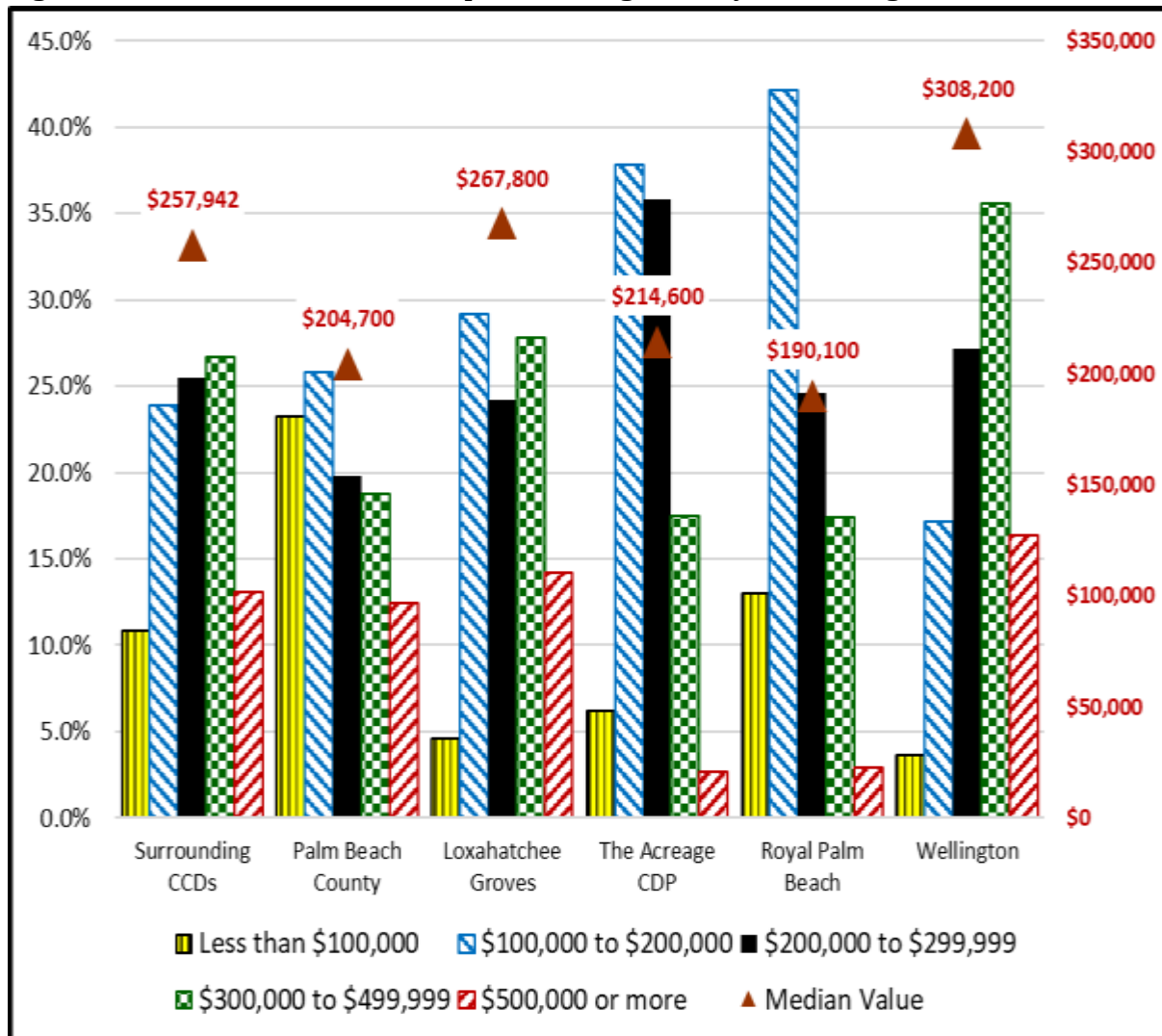
**Table 7.7: Percent of Owner Occupied Housing Units by Value Range and Median Value**

Value Range	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$50,000	4.4%	9.1%	2.5%	1.8%	3.5%	1.9%
\$50,000 to \$99,999	6.4%	14.2%	2.1%	4.4%	9.5%	1.7%
\$100,000 to \$149,999	9.9%	12.9%	12.2%	12.5%	17.8%	6.1%
\$150,000 to \$199,999	14.0%	12.9%	17.0%	25.3%	24.4%	11.0%
\$200,000 to \$299,999	25.5%	19.8%	24.2%	35.8%	24.6%	27.2%
\$300,000 to \$499,999	26.7%	18.8%	27.8%	17.5%	17.4%	35.6%
\$500,000 to \$999,999	11.2%	8.8%	13.4%	2.6%	2.1%	13.5%
\$1,000,000 or more	2.0%	3.6%	0.8%	0.1%	0.7%	2.9%
Median Value	\$257,942	\$204,700	\$267,800	\$214,600	\$190,100	\$308,200

*Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics and B25075  
Median value for surrounding CCDs calculated from data using linear interpolation.*



**Figure 7.10: Percent of Owner Occupied Housing Units By Value Range and Median Value**



Comparative monthly owner cost data for Palm Beach County is presented Tables 7.8 and 7.9. According to the US Census, “selected monthly owner costs (SMOC) are calculated from the sum of payment for mortgages, real estate taxes, various insurances, utilities, fuels, mobile home costs, and condominium fees.” Selected monthly owner costs (SMOC) are divided into housing units with a mortgage and housing units without a mortgage. Countywide, 56.6 percent of owner-occupied housing units have mortgages. Within the three CCDs, that percentage rises to 66.1 percent. Over 71 percent of owner occupied housing in the surrounding municipalities and the Acreage have mortgages. In other words, more owner-occupied houses are still paying off mortgages in the central portion of Palm Beach County compared to the county as a whole.

The median SMOC for houses with a mortgage in the three CCDs is \$1,976, which is higher than the overall county, Royal Palm Beach and the surrounding Acreage community, but it is lower than Loxahatchee Groves and Wellington. The median SMOC for houses without a mortgage in the three CCDs is \$671, which is higher than the nearby communities, except for Wellington, which has a median SMOC for houses without of mortgage of \$766.



**Table 7.8: Percent of Owner Occupied Units with a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**

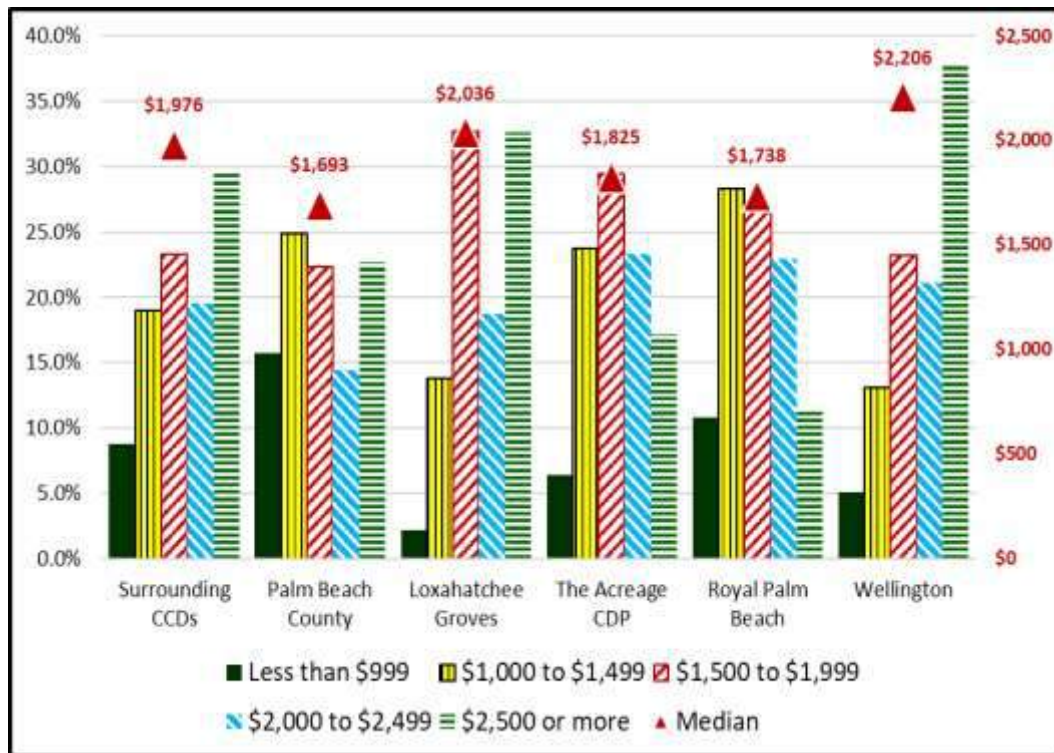
Percent of Units within SMOC Range, and Median SMOC	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$500	0.9%	1.4%	0.5%	0.2%	0.9%	0.9%
\$500 to \$999	7.9%	14.3%	1.7%	6.2%	9.9%	4.2%
\$1,000 to \$1,499	19.0%	24.9%	13.8%	23.7%	28.3%	13.1%
\$1,500 to \$1,999	23.3%	22.3%	32.7%	29.4%	26.7%	23.2%
\$2,000 to \$2,499	19.5%	14.4%	18.7%	23.3%	22.9%	21.1%
\$2,500 to \$2,999	11.6%	8.7%	15.2%	8.8%	6.8%	14.5%
\$3,000 or more	17.8%	14.0%	17.4%	8.3%	4.4%	23.2%
Median (dollars)	\$1,976	\$1,693	\$2,036	\$1,825	\$1,738	\$2,206

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics.

Median SMOC for surrounding CCDs calculated from data using linear interpolation.

Figure 7.11 graphically compares the surrounding CCDs with the county and nearby communities.

**Figure 7.11: Percent of Owner Occupied Units with a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**





**Table 7.9: Percent of Owner Occupied Units without a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**

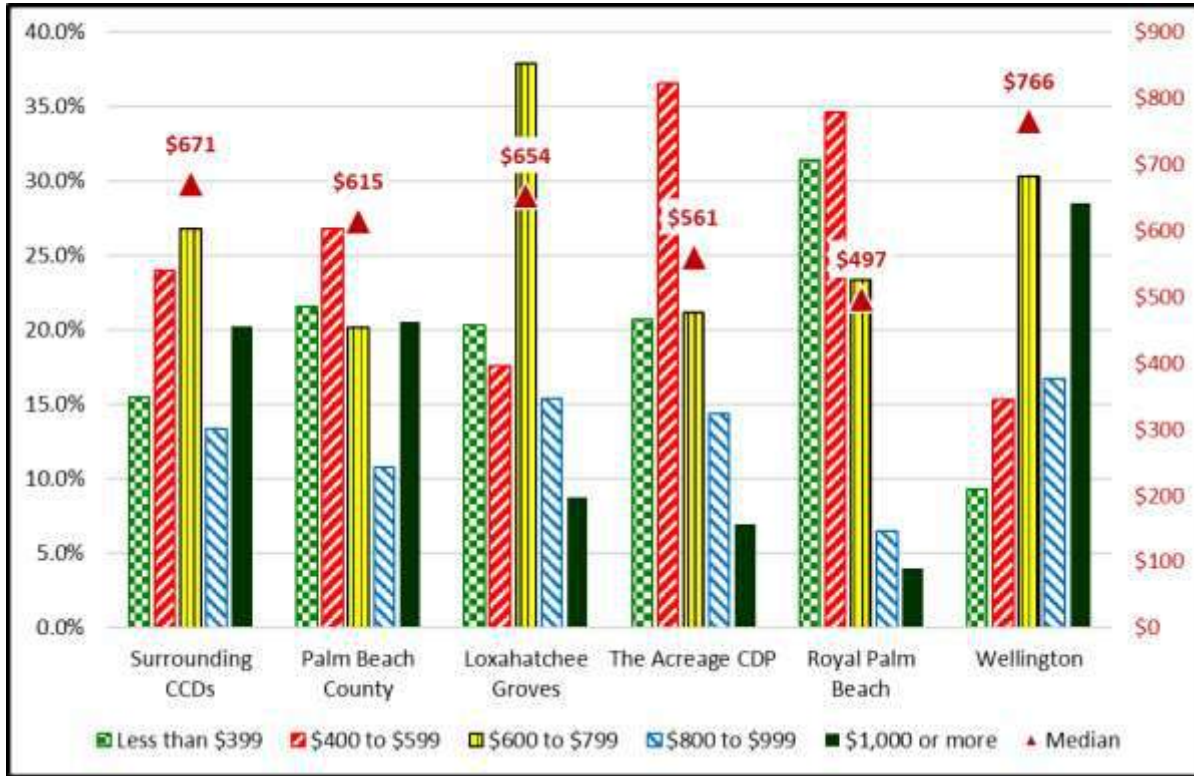
within SMOC Range, and Median SMOC	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$250	4.9%	7.3%	6.2%	6.3%	13.8%	2.4%
\$250 to \$399	10.6%	14.3%	14.1%	14.4%	17.6%	6.9%
\$400 to \$599	24.0%	26.8%	17.6%	36.6%	34.6%	15.3%
\$600 to \$799	26.8%	20.2%	37.9%	21.2%	23.4%	30.3%
\$800 to \$999	13.4%	10.8%	15.4%	14.4%	6.5%	16.7%
\$1,000 or more	20.3%	20.6%	8.8%	7.0%	4.0%	28.5%
Median (dollars)	\$671	\$615	\$654	\$561	\$497	\$766

*Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics.*

*Median SMOC for surrounding CCDs calculated from data using linear interpolation.*

Figure 7.12 graphically compares the surrounding CCDs with the county and nearby communities.

**Figure 7.12: Percent of Owner Occupied Units with a Without a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**



## EXISTING HOUSEHOLD CHARACTERISTICS

### Household Size

In a previous section the average household size or person per household (PPH) was described and enumerated in Table 7.3. Table 7.10 below provides the distribution of households based on the number of persons in each household. About 21 percent of households have only one person in the surrounding CCDs compared to about 30 percent countywide. In other words, there is a smaller percentage of single person households in the three CCDs than in the county as a whole. The surrounding CCDs have a larger percentage of households with three or more persons. Almost 44 percent of households in the surrounding CCDs have three or more persons compared to about 34 percent countywide. Households are larger in the surrounding CCDs than in the county as a whole. Households may be defined as family households (persons related to the head of the household [householder] by birth, marriage, or adoption) or as non-family households. About 74 percent of all households in the surrounding CCDs are family households compared with about 63 percent countywide.



**Table 7.10: Household Size**

Persons in Household	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
1	20.8%	30.1%	20.5%	11.1%	16.9%	15.9%
2	35.7%	36.3%	31.9%	28.8%	29.1%	32.1%
3	17.1%	13.8%	16.7%	21.4%	20.6%	19.7%
4	16.0%	11.1%	14.2%	21.6%	19.2%	19.6%
5	6.8%	5.1%	9.1%	10.0%	9.0%	8.5%
6	2.4%	2.1%	4.8%	4.4%	3.3%	3.0%
7 or more	1.2%	1.6%	2.7%	2.6%	1.9%	1.2%

Source: U.S. Census: DEC\_10\_SF1\_H13

## Household Income

Household income varies significantly across the county. The estimated annual household income in the surrounding CCDs is \$72,620 compared to a countywide median of only \$53,363. The median income in all of the nearby communities is higher than the countywide average. Table 7.11 shows household income ranges. Figure 7.13 compares the median incomes of these communities and the county.

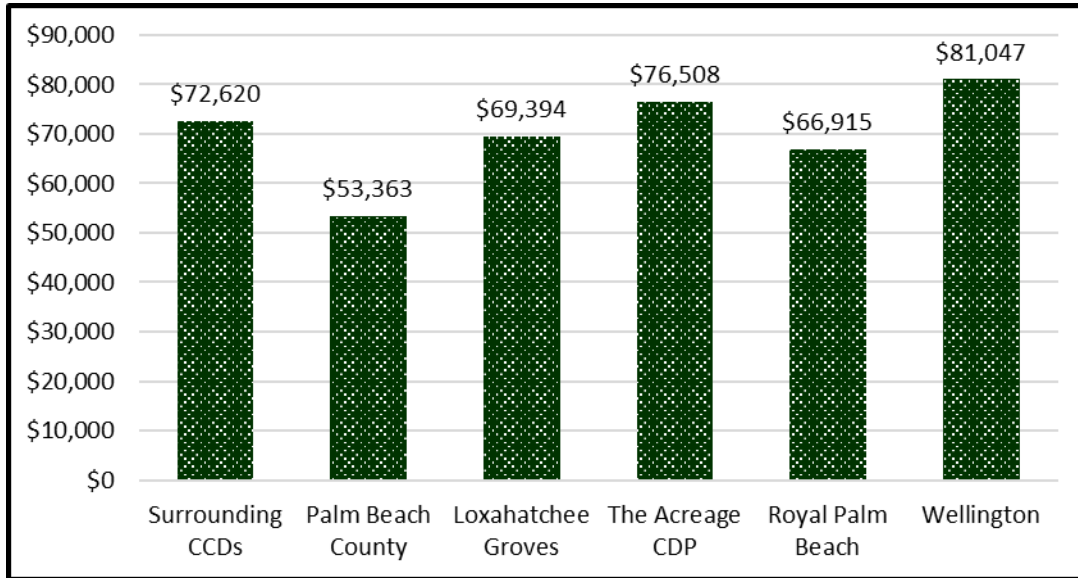
**Table 7.11: Annual Household Income**

Household Income Range	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$10,000	3.9%	6.5%	5.9%	3.1%	3.8%	3.7%
\$10,000 to \$14,999	3.1%	5.1%	1.8%	1.5%	2.2%	2.3%
\$15,000 to \$24,999	7.8%	11.1%	10.2%	5.1%	9.9%	6.3%
\$25,000 to \$34,999	7.7%	10.7%	8.6%	6.4%	8.2%	6.4%
\$35,000 to \$49,999	11.7%	13.7%	6.0%	13.7%	10.4%	11.2%
\$50,000 to \$74,999	17.0%	17.3%	20.7%	19.0%	21.0%	15.3%
\$75,000 to \$99,999	14.2%	11.2%	16.0%	20.1%	16.0%	15.9%
\$100,000 to \$149,999	17.6%	12.6%	17.4%	19.7%	18.5%	20.2%
\$150,000 to \$199,999	8.1%	5.2%	6.8%	6.9%	5.7%	9.1%
\$200,000 or more	8.8%	6.6%	6.7%	4.6%	4.2%	9.5%
Median household income (dollars)	\$72,620	\$53,363	\$69,394	\$76,508	\$66,915	\$81,047
Mean household income (dollars)	\$99,648	\$82,436	\$93,063	\$88,115	\$84,002	\$103,779

Source: ACS\_15\_5YR\_DP03 and B19001. Mean and medians calculated from data.



**Figure 7.13: Annual Household Median Income**



## Household Age

Household age is based on the age of the head of household who is called the householder. An examination of household age is different from an examination of the age structure of all persons in a place. Table 7.12 below provides the household age profile for the surrounding CCDs and nearby communities. The household age profile is also provided for owner occupied households and renter occupied households.





**Table 7.12: Age of Householder**

Householder Age Range	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
<b>Owner occupied:</b>						
15 to 24 years	0.6%	0.7%	0.7%	0.9%	0.7%	0.7%
25 to 34 years	5.7%	6.0%	4.4%	6.6%	9.1%	5.8%
35 to 44 years	17.0%	13.5%	15.0%	23.9%	21.7%	19.7%
45 to 54 years	25.1%	19.8%	29.8%	36.8%	28.1%	30.1%
55 to 59 years	10.8%	9.5%	15.6%	12.3%	11.7%	12.9%
60 to 64 years	10.1%	9.8%	11.1%	8.1%	8.1%	10.5%
65 to 74 years	15.2%	17.6%	16.5%	8.3%	10.8%	12.2%
75 to 84 years	10.6%	15.8%	5.7%	2.7%	6.9%	6.2%
85 years and over	4.8%	7.2%	1.2%	0.4%	2.9%	1.8%
<b>Renter occupied:</b>						
15 to 24 years	5.7%	8.1%	5.9%	6.1%	5.6%	4.9%
25 to 34 years	22.3%	23.9%	24.7%	23.2%	25.1%	22.6%
35 to 44 years	25.6%	21.0%	15.9%	28.4%	29.9%	30.5%
45 to 54 years	20.6%	18.7%	29.4%	24.7%	21.3%	24.7%
55 to 59 years	6.7%	6.7%	9.4%	6.7%	5.9%	6.6%
60 to 64 years	4.9%	5.2%	5.9%	4.2%	4.0%	3.8%
65 to 74 years	6.2%	6.5%	5.9%	3.9%	4.1%	3.9%
75 to 84 years	4.6%	5.1%	2.4%	2.5%	2.7%	2.0%
85 years and over	3.5%	4.7%	0.6%	0.4%	1.5%	1.1%
<b>All Households (Owner and Renter)</b>						
15 to 24 years	1.5%	2.8%	1.5%	1.3%	1.5%	1.6%
25 to 34 years	8.6%	11.1%	7.5%	8.0%	11.7%	9.5%
35 to 44 years	18.5%	15.7%	15.1%	24.3%	23.0%	22.1%
45 to 54 years	24.3%	19.5%	29.8%	35.8%	27.0%	28.9%
55 to 59 years	10.1%	8.7%	14.7%	11.8%	10.8%	11.6%
60 to 64 years	9.2%	8.5%	10.3%	7.8%	7.4%	9.1%
65 to 74 years	13.6%	14.4%	14.8%	7.9%	9.7%	10.4%
75 to 84 years	9.6%	12.8%	5.2%	2.7%	6.2%	5.3%
85 years and over	4.6%	6.5%	1.1%	0.4%	2.7%	1.7%

Source: U.S. Census: DEC\_10\_H17



## Housing Affordability

The Shimberg Center for Housing Studies at the University of Florida (Shimberg Center) analyzes housing affordability in terms of cost burden which is based on the “[p]ercentage of household income spent for mortgage costs or gross rent. According to the Shimberg Center and U.S. Department of Housing and Urban Development (HUD) assistance programs, households spending more than 30 percent of income for these housing costs are considered to be “cost-burdened.” Households spending more than 50 percent are considered to be “severely cost-burdened.” Housing is generally considered to be affordable if the household pays less than 30 percent of income.” An analysis of community housing affordability utilizes an Area Median Income (AMI) measure and this measure is computed by the Shimberg Center and applied to each community. Such an analysis is not available for the City and there is no significant population or housing yet to conduct such an analysis. In lieu of the Shimberg Center analysis, this Housing Element has examined averages for the surrounding CCDs as a means to generally estimate housing conditions and affordability for the future.

Gross rent as a percentage of income (GRAPI) provides a measure of housing affordability for rental units from which cost burden may be examined. GRAPI is a computed ratio of monthly gross rent to monthly household income (U.S. Census). Table 7.13 provides the GRAPI for the three surrounding CCDs, county, and surrounding communities. About 57 percent of renters pay more than 30 percent of their household income for gross rent and those households would be considered cost burdened, i.e. those households would not have affordable housing. Since those households are unavoidably paying more for housing, they are paying less for other necessities of life. These high percentages are not unique to the surrounding CCDs. Palm Beach County as a whole has a higher percentage of renters that are cost burdened, at about 60 percent.

**Table 7.13: Percent of Occupied Rental Units within GRAPI Ranges**

Percent of Household Income	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage, CDP	Royal Palm Beach	Wellington
Less than 15.0%	8.2%	8.1%	5.7%	13.6%	8.4%	3.6%
15.0% to 19.9%	10.6%	9.6%	21.6%	8.9%	18.3%	10.5%
20.0% to 24.9%	12.5%	11.4%	11.4%	11.8%	10.5%	17.2%
25.0% to 29.9%	11.8%	10.6%	3.4%	10.2%	12.4%	10.6%
30.0% to 34.9%	9.4%	8.8%	14.8%	4.6%	9.6%	8.3%
35.0% or more	47.4%	51.6%	43.2%	51.0%	40.7%	49.8%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

Selected monthly owner costs as a percentage of income (SMOCAPI) provides a measure of housing affordability for owner occupied housing. SMOCAPI is a computed ratio of selected monthly owner costs to monthly household income (U.S. Census). Tables 7.14 and 7.15 provides the SMOCAPI for the three surrounding CCDs. About 42 percent of housing units with a mortgage are cost burdened. About 19 percent of housing units without a mortgage are cost burdened. Once again, housing affordability is a widespread



problem. Palm Beach County and the nearby communities have higher or comparable percentages as can be seen in the tables below.

**Table 7.14: Percent of Owner Occupied Housing Units with a Mortgage within SMOCAPI Ranges within the three surrounding CCDs**

Percent of Household Income	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage, CDP	Royal Palm Beach	Wellington
Less than 20.0%	30.7%	30.6%	27.8%	28.4%	34.6%	30.6%
20.0% to 24.9%	16.0%	14.5%	15.3%	18.2%	17.6%	16.4%
25.0% to 29.9%	11.4%	10.8%	8.5%	11.2%	8.7%	13.1%
30.0% to 34.9%	8.3%	8.3%	5.8%	10.0%	9.6%	7.5%
35.0% or More	33.5%	35.8%	42.5%	32.2%	29.5%	32.4%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

**Table 7.15: Percent of Owner Occupied Housing Units without a Mortgage within SMOCAPI Ranges within the three surrounding CCDs**

Percent of Household Income	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage, CDP	Royal Palm Beach	Wellington
Less than 10.0%	35.5%	31.9%	44.4%	39.9%	40.4%	37.6%
10.0% to 14.9%	19.7%	18.2%	10.3%	15.8%	19.4%	17.8%
15.0% to 19.9%	11.6%	12.3%	6.7%	12.7%	9.4%	10.0%
20.0% to 24.9%	7.9%	8.4%	13.0%	8.9%	8.3%	6.4%
25.0% to 29.9%	6.1%	6.3%	9.4%	6.7%	6.4%	6.1%
30.0% to 34.9%	4.2%	4.3%	0.9%	1.3%	2.5%	6.1%
35% or more	14.9%	18.6%	15.2%	14.8%	13.7%	16.0%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

Although housing cost burden numbers linked to the AMI are not available for the City, the numbers are available for the county and nearby communities. In Palm Beach County, about 20 percent of owners and about 24 percent of renters were cost burdened in 2015. Further, an additional 20 percent of owners and about 32 percent of renters were severely cost burdened. (<http://flhousingdata.shimberg.ufl.edu/a/profiles?action=results&nid=5000>).



**Table 7.16: 2015 Palm Beach County Household Income and Cost Burden**

Household Income as Percentage of Area Median	Amount of Income Paid for Housing					
	0-30%		30-50%		50% or More	
	Units	Percent	Units	Percent	Units	Percent
<=30% AMI	6,307	8.6%	7,686	10.4%	59,655	81.0%
30.01-50% AMI	14,173	19.6%	22,400	31.0%	35,627	49.3%
50.01-80% AMI	38,899	39.8%	35,259	36.1%	23,520	24.1%
80.01+% AMI	258,340	78.0%	57,623	17.4%	15,201	4.6%
<b>Total</b>	<b>317,719</b>	<b>55.3%</b>	<b>122,968</b>	<b>21.4%</b>	<b>134,003</b>	<b>23.3%</b>

Source: Florida Housing Data Clearinghouse, 2015

**Table 7.17: 2015 Number and Percent of Households By Amount of Income Paid for Housing in Palm Beach County by Tenure**

Tenure	Amount of Income Paid for Housing		
	0-30%	30-50%	50% or more
Owner	246,122 (59.7%)	84,201 (20.4%)	81,827 (19.9%)
Renter	71,597 (44.0%)	38,767 (23.9%)	52,176 (32.1%)

Source: Shimberg Center for Housing Studies, 2015

## HOUSEHOLD CHARACTERISTICS AND DEMAND PROJECTIONS

### Housing Demand

Future housing demand is frequently projected based on historical trends. In the case of the City, this approach is not possible. However, housing projections may be made based on the same assumptions used to project the permanent resident population through the use of reasonable factors such as household age, income, and size. Table 7.18 provides projections based on the surrounding CCD data.



**Table 18: Household Projections**

<b>Projection Year</b>		<b>2023</b>	<b>2038</b>
Housing Units		1,575	6,500
Vacancy Rate		7.45%	7.45%
Seasonal Rate		5.85%	5.85%
Households		1,366	5,636
PPH		2.65	2.65
Household Population		3,619	14,934
<b>Households by Age of Householder</b>			
15 to 24 years	1.5%	20	84
25 to 34 years	8.6%	117	483
35 to 44 years	18.5%	253	1,042
45 to 54 years	24.3%	332	1,370
55 to 59 years	10.1%	138	571
60 to 64 years	9.2%	126	518
65 to 74 years	13.6%	186	769
75 to 84 years	9.6%	131	539
85 years and over	4.6%	63	260
<b>Households by Income Range</b>			
Less than \$10,000	3.9%	54	221
\$10,000 to \$14,999	3.1%	42	174
\$15,000 to \$24,999	7.8%	107	441
\$25,000 to \$34,999	7.7%	106	436
\$35,000 to \$49,999	11.7%	160	662
\$50,000 to \$74,999	17.0%	233	961
\$75,000 to \$99,999	14.2%	194	800
\$100,000 to \$149,999	17.6%	240	991
\$150,000 to \$199,999	8.1%	110	455
\$200,000 or more	8.8%	120	496
<b>Households by Size</b>			
1	20.8%	285	1,175
2	35.7%	488	2,012
3	17.1%	233	961
4	16.0%	218	901
5	6.8%	93	384
6	2.4%	33	137
7 or more	1.2%	16	65



## Additional Housing Data and Analysis

### Subsidized Housing

There are no rental housing developments within the City using federal, state, or local subsidy programs.

### Conventional Rental Housing

There are no conventional rental housing communities within the City.

### Group Facilities Homes

There are no group living facilities and homes within the City.

### Mobile Home and Recreational Vehicle Parks

There are no mobile home park communities located within the City; however, there are two mobile home units.

### Historic Resources

There are no known historically significant housing resources, including homes listed on the State Master Site File within the City of Westlake.

### Farmworker Housing

There are no farmworker housing developments within the City.

## Addressing Housing Needs

### City of Westlake

The City is a new city and has very few existing housing units. As the City develops, there will be several measures available to evaluate housing stock and living conditions within the City, including: demographic, economic, social, and structural measures.

The City is offering a unique opportunity for new residents to live, work, and play within one community. The City will contain a multitude of housing types and styles at a variety of price points to satisfy the needs of a diverse community. Residential development of the City is expected to start with single family housing while multi-family housing is anticipated to be built as the Downtown Mixed Use area builds out.

### County Housing Programs

As the City grows, the City will evaluate the applicability of housing and community development programs available through county, state, and federal programs.



## Housing Delivery Process

Housing stock within the City will be constructed by the private sector and is expected to accommodate projected population growth through the short and long term planning periods.

## Affordable Housing Assessment

Housing within the City can be more attainable and more affordable for a number of reasons. Because services and infrastructure can be provided more efficiently, the cost of units should be less. Smaller average lot sizes can translate to lower maintenance costs. But most importantly, reduced transportation costs free up financial resources that can be allocated to housing that would not be available in a completely automobile dependent pattern of development.

### City Housing Incentive Programs

The City is committed to creating affordable and safe housing that meets the needs of residents. Safe and appropriate affordable housing benefits the entire community – socially, economically and environmentally. Housing goals, objectives, and policies are tailored to encourage the development of a variety of housing types to accommodate demand generated by population growth, including the accommodation of accessory apartments and mobile homes. In addition, policies to incorporate small-scale special needs and senior facilities are also included.

As the City develops, it should prepare an affordable housing assessment, to include Shimberg Center data, at the time of the initial Evaluation and Appraisal Report. This will allow a more direct comparison of the City's housing stock, by price-range, to the ability of households to afford related housing costs.

### Workforce and Affordable Housing

The City is committed to the provision of workforce and affordable housing based on statewide guidelines. These guidelines delineate the basic components of an affordable workforce housing program and applicable income standards. Affordable housing for lower income families follows the state guidelines for affordability found in Chapter 420.0004(3), Florida Statutes.

The City will coordinate with the County, where appropriate, regarding countywide affordable housing programs. Additionally, the City is providing the opportunity for workforce and affordable housing by offering a variety of housing types. An adequate supply of land and density flexibility is designated on the Future Land Use Map (FLU Map 2.1) to accommodate a variety of housing types to provide opportunities for varying income levels. The City's housing alternatives will meet the diverse needs of the community.

Through the adoption of City Ordinance 2017-6, the City has established a housing assistance purchase program which receives funding from development within the City. The purpose of the program is to provide down payment, closing cost, and rental assistance for the purchase or rental of single family and multi-family units within the City. The program has received in excess of three hundred thousand dollars for initial implementation and applications are being received and evaluated for assistance. The program has not received state and/or federal funding, but state and federal guidelines provided on an annual basis from the United States Department of Housing and Urban Development on funding assistance are being utilized.

# CITY OF WESTLAKE



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# CAPITAL IMPROVEMENTS

2018





## CHAPTER 8. CAPITAL IMPROVEMENTS ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Capital Improvements Element is to plan for public facility needs as identified in other Plan elements and to ensure that capital improvements are provided to accommodate growth, correct deficiencies, and replace obsolete or damaged facilities when required.

The City was incorporated through a statutory process that allowed the electors in the Seminole Improvement District (SID), an Independent Special District empowered by special act (Chapter 2000-431, House Bill No. 1559), to convert SID into the City of Westlake. SID continues to exist as an independent special district, but will eventually transition into a dependent special district. SID continues to provide infrastructure and facilities within its boundaries, which are coterminous with the boundaries of the City. SID is the exclusive retail provider of potable water, reuse water, and wastewater facilities in the City, and is empowered to construct and maintain the facilities related to those services. SID is also empowered to construct and maintain drainage (stormwater) facilities (including, e.g., canals, levees, lakes, ponds, and other works for water management and control); transportation facilities (including, e.g., roads, bridges, shared use paths, transit, landscaping, and other related transportation facilities); and parks and facilities for indoor and outdoor recreation.

SID is also empowered to levy ad valorem taxes, non-ad valorem assessments and collect other fees to recover the cost of providing the forenamed facilities and services. Pursuant to the City Charter, the City may not exercise any function or duplicate services provided by SID until such time as SID is transitioned to a dependent special district. This restriction does not impair the ability of the City to contract for fire rescue or law enforcement. The relationship between the City and SID for provision of capital improvements is detailed in the Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal"), while SID's specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan dated October 13, 2015. The SID-Westlake Interlocal is attached to the Intergovernmental Coordination Element as Appendix A. As a result of the cooperative relationship between SID and the City, the 5-Year Schedule of Capital Improvements and the Capital Improvements Element includes facilities to be constructed, financed, and maintained by SID.

### CAPITAL IMPROVEMENT NEEDS

#### Potable Water and Wastewater

Based on the population projections and a capacity analysis for the short term planning period there is adequate facility capacity to maintain the adopted level of service standard for potable water supply and wastewater treatment as provided through interlocal agreements between SID and Palm Beach County. SID



plans on expanding distribution lines for potable water, and installing collection lines and additional lift stations for wastewater, and beginning the interconnection process of both water and wastewater with the County's lines within the short term planning period. SID's planned improvements for both potable water and wastewater are listed in the 5-Year Schedule of Capital Improvements and are shown on INF Maps 4.2 and 4.3. Pursuant to the SID-Westlake Interlocal, these improvements have and will continue to be provided in order to ensure the achievement and maintenance of the adopted level of service standards for potable water and wastewater. SID is constructing facilities and otherwise facilitating these improvements using non-ad valorem assessments, developer contributions, and other sources of revenue. Additional details and analyses are provided in the Infrastructure Element.

### Transportation

The expansion of Seminole Pratt Whitney Road to a four-lane divided highway will be close to completion as of the adoption date of this Plan. The expansion is being funded by SID pursuant to a funding contract with developer Minto PBLH, LLC, ("Minto"). Construction of collector roads connecting the first phase of the development to Seminole Pratt Whitney Road is also complete. Other work has begun and will continue throughout the short term planning period to provide necessary collector roads as well as local roads, for development. The arterial and collector roads planned for the next five years, as well as for the long term planning period are shown in the TE Maps 3.4-3.6 and 3.8. Additionally, related facilities, such as sidewalks, bicycle lanes, and shared use paths are also being constructed in conjunction with the roads. These are shown on TE Maps 3.7 and 3.9.

These transportation facilities are being funded by a combination of non-ad valorem assessments and developer contributions. In some instances, the developer is constructing the facilities directly. All work is being conducted in coordination with SID.

The City will coordinate with SID to sufficiently plan for roads associated with future growth during the short term planning period. The anticipated planned improvements for roads are listed in the 5-Year Schedule of Capital Improvements.

Prior to the incorporation of the City, Palm Beach County approved the development of 4,546 dwelling units and 2.2 million square feet of non-residential, and other uses. As part of the approval of this development, a proportionate share agreement was executed between Minto and the county. That agreement remains effective

### Stormwater

Prior to the incorporation of the City, the previous county plan amendment and South Florida Water Management District (SFWMD) Environmental Resource Permits addressed stormwater and drainage facilities. SID and in conjunction with the developer, have begun construction of a new stormwater management system, including extensive surface waters. The development of this stormwater management system will continue on pace with the anticipated expansion of the previously approved development in order to meet the SFWMD permit requirements as well as the adopted level of service standards.



The City will coordinate with SID to plan for the stormwater management system to serve the City during the short term and long term planning periods. SID's planned improvements for stormwater are listed in the 5-Year Schedule of Capital Improvements and are also depicted on INF Maps 4.2 and 4.3.

### **Recreation Facilities**

The City will coordinate with SID to sufficiently plan for recreational facilities to serve the City that will be associated with future growth during the short term planning period. A community park is planned within the short term planning period. The level of service standard for parks is for planning purposes and is not a concurrency requirement.

### **Reuse Water**

SID also plans to supply reuse water for landscape irrigation via an interlocal agreement with Palm Beach County. The reuse distribution pipes will be constructed and put into service in tandem with the water and wastewater distribution and collection pipes. Additional details are provided in the Infrastructure Element. Reuse water does not have an associated level of service standard and is not regulated via concurrency.

### **Solid Waste**

The City will contract with a solid waste provider to collect and appropriately dispose of solid waste including hazardous wastes. The City will not construct or host within its boundaries any solid waste or hazardous waste disposal sites or facilities. As indicated in the Infrastructure Element, the Palm Beach County Solid Waste Authority has projected adequate capacity for solid waste disposal through the long term planning period.





**Table 8.1: 5-Year Schedule of Capital Improvements, Fiscal Years 2017-18 – 2022-23**

For the 5-Year Capital Improvements Schedule below:

- Road costs include costs of landscaping and the construction of bicycle lanes, sidewalks, and shared use paths.
- This table should be read in conjunction with the 5-Year Capital Improvement Schedule Construction Map for Road Segments, Stormwater Drainage Features, and Park.

<b>5-Year Capital Improvements Schedule: Summary of Total Project Costs By Year</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$1,808,668.19						\$1,808,668.19	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$1,598,871.00						\$1,598,871.00	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$1,515,919.33						\$1,515,919.33	Developer / Bonds
CS-E1	High		\$744,996.14					\$744,996.14	Developer / Bonds
Kingfisher (CS-E5)	High		\$757,641.03					\$757,641.03	Developer / Bonds
CS-E4	High		\$762,430.31					\$762,430.31	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$1,671,350.56				\$1,671,350.56	Developer / Bonds
Saddle Bay Drive	High			\$710,000.00				\$710,000.00	Developer / Bonds
CS-E2	High			\$1,190,314.74				\$1,190,314.74	Developer / Bonds
CS-P	High				\$3,901,962.45			\$3,901,962.45	Developer / Bonds
Persimmon West (CS-W2)	High					\$1,277,449.85		\$1,277,449.85	Developer / Bonds
Community Park	High		\$200,000.00	\$3,300,000.00				\$3,500,000.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High						\$3,175,573.38	\$3,175,573.38	Developer / Bonds
<b>TOTAL</b>		<b>\$4,923,458.52</b>	<b>\$2,465,067.48</b>	<b>\$6,871,665.30</b>	<b>\$3,901,962.45</b>	<b>\$1,277,449.85</b>	<b>\$3,175,573.38</b>	<b>\$22,615,176.98</b>	Developer / Bonds



5-Year Capital Improvements Schedule: Potable Water Component									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Town Center Parkway Phase 1A (TCP-E2)	High	\$135,781.00						\$135,781.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$130,149.26						\$130,149.26	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$111,501.21						\$111,501.21	Developer / Bonds
CS-E1	High		\$108,160.00					\$108,160.00	Developer / Bonds
Kingfisher (CS-E5)	High		\$92,404.19					\$92,404.19	Developer / Bonds
CS-E4	High		\$91,127.20					\$91,127.20	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$125,317.80				\$125,317.80	Developer / Bonds
Saddle Bay Drive	High			\$91,000.00				\$91,000.00	Developer / Bonds
CS-E2	High			\$162,009.25				\$162,009.25	Developer / Bonds
CS-P	High				\$524,899.15			\$524,899.15	Developer / Bonds
Persimmon West (CS-W2)	High					\$191,214.00		\$191,214.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High						\$238,758.84	\$238,758.84	Developer / Bonds



5-Year Capital Improvements Schedule: Wastewater Component									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Town Center Parkway Phase 1A (TCP-E2)	High	\$95,925.00						\$95,925.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$91,954.48						\$91,954.48	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$75,778.66						\$75,778.66	Developer / Bonds
CS-E1	High		\$41,344.00					\$41,344.00	Developer / Bonds
Kingfisher (CS-E5)	High		\$0.00					\$0.00	Developer / Bonds
CS-E4	High		\$64,943.67					\$64,943.67	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$65,242.04				\$65,242.04	Developer / Bonds
Saddle Bay Drive	High			\$64,500.00				\$64,500.00	Developer / Bonds
CS-E2	High			\$136,582.53				\$136,582.53	Developer / Bonds
CS-P	High				\$370,824.00			\$370,824.00	Developer / Bonds
Persimmon West (CS-W2)	High					\$0.00		\$0.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High						\$157,508.38	\$157,508.38	Developer / Bonds



5-Year Capital Improvements Schedule: Stormwater/Drainage Component									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Town Center Parkway Phase 1A (TCP-E2)	High	\$240,003.00						\$240,003.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$230,077.24						\$230,077.24	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$189,612.33						\$189,612.33	Developer / Bonds
CS-E1	High		\$183,930.00					\$183,930.00	Developer / Bonds
Kingfisher (CS-E5)	High		\$207,910.00					\$207,910.00	Developer / Bonds
CS-E4	High		\$162,508.46					\$162,508.46	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$213,108.01				\$213,108.01	Developer / Bonds
Saddle Bay Drive	High			\$155,000.00				\$155,000.00	Developer / Bonds
CS-E2	High			\$275,503.30				\$275,503.30	Developer / Bonds
CS-P	High				\$927,914.20			\$927,914.20	Developer / Bonds
Persimmon West (CS-W2)	High					\$325,167.29		\$325,167.29	Developer / Bonds
Town Center Parkway (E-4, E-5)	High						\$394,115.30	\$394,115.30	Developer / Bonds





5-Year Capital Improvements Schedule: Road Component									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Town Center Parkway Phase 1A (TCP-E2)	High	\$938,202.19						\$938,202.19	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$713,617.60						\$713,617.60	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$780,998.55						\$780,998.55	Developer / Bonds
CS-E1	High		\$296,071.37					\$296,071.37	Developer / Bonds
Kingfisher (CS-E5)	High		\$328,868.46					\$328,868.46	Developer / Bonds
CS-E4	High		\$325,550.97					\$325,550.97	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$1,020,717.00				\$1,020,717.00	Developer / Bonds
Saddle Bay Drive	High			\$282,600.00				\$282,600.00	Developer / Bonds
CS-E2	High			\$444,599.64				\$444,599.64	Developer / Bonds
CS-P	High				\$1,328,556.50			\$1,328,556.50	Developer / Bonds
Persimmon West (CS-W2)	High					\$392,522.79		\$392,522.79	Developer / Bonds
Town Center Parkway (E-4, E-5)	High						\$1,641,291.44	\$1,641,291.44	Developer / Bonds



5-Year Capital Improvements Schedule: Reuse Component									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Town Center Parkway Phase 1A (TCP-E2)	High	\$98,757.00						\$98,757.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$192,727.42						\$192,727.42	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$158,831.42						\$158,831.42	Developer / Bonds
CS-E1	High		\$58,797.61					\$58,797.61	Developer / Bonds
Kingfisher (CS-E5)	High		\$66,463.18					\$66,463.18	Developer / Bonds
CS-E4	High		\$66,861.01					\$66,861.01	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$178,512.90				\$178,512.90	Developer / Bonds
Saddle Bay Drive	High			\$65,900.00				\$65,900.00	Developer / Bonds
CS-E2	High			\$88,070.89				\$88,070.89	Developer / Bonds
CS-P	High				\$381,722.60			\$381,722.60	Developer / Bonds
Persimmon West (CS-W2)	High					\$161,203.77		\$161,203.77	Developer / Bonds
Town Center Parkway (E-4, E-5)	High						\$330,136.20	\$330,136.20	Developer / Bonds



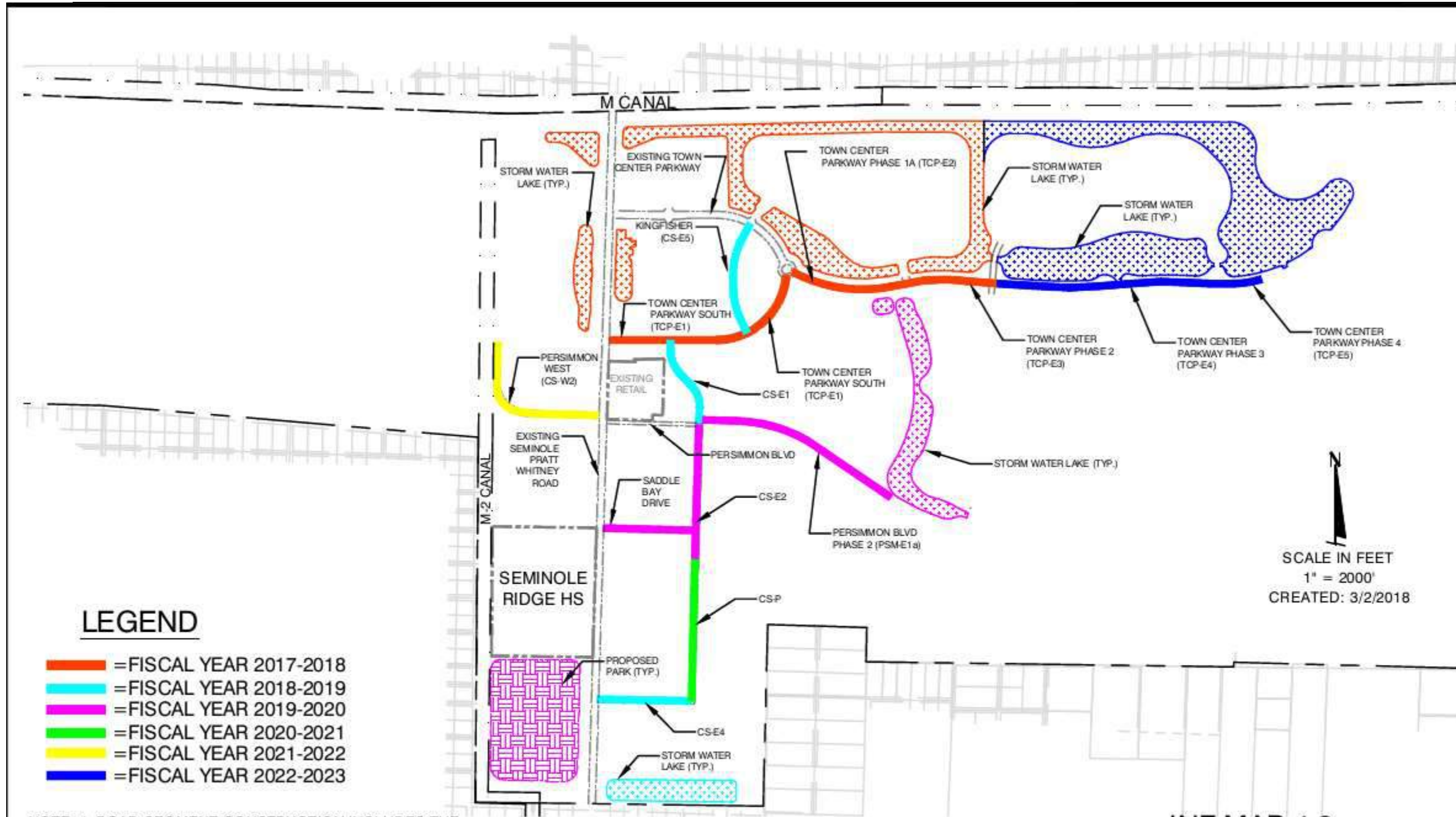
5-Year Capital Improvements Schedule: Design and Permitting									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Town Center Parkway Phase 1A (TCP-E2)	High	\$300,000.00						\$300,000.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$240,345.00						\$240,345.00	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$199,197.16						\$199,197.16	Developer / Bonds
CS-E1	High		\$56,693.16					\$56,693.16	Developer / Bonds
Kingfisher (CS-E5)	High		\$61,995.20					\$61,995.20	Developer / Bonds
CS-E4	High		\$51,439.00					\$51,439.00	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High			\$68,452.81				\$68,452.81	Developer / Bonds
Saddle Bay Drive	High			\$51,000.00				\$51,000.00	Developer / Bonds
CS-E2	High			\$83,549.13				\$83,549.13	Developer / Bonds
CS-P	High				\$368,046.00			\$368,046.00	Developer / Bonds
Persimmon West (CS-W2)	High					\$207,342.00		\$207,342.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$413,763.22	\$413,763.22	Developer / Bonds
Community Park	High		\$200,000					\$200,000	Developer / Bonds



**5-Year Capital Improvements Schedule:  
Community Park**

Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Community Park				\$3,300,000.00				\$3,300,000.00	Developer / Bonds

\*SID will provide infrastructure through financing, special assessments, or developer contributions; which may include developer constructing the improvements and turning the same over to SID or the City, as appropriate



N  
 SCALE IN FEET  
 1" = 2000'  
 CREATED: 3/2/2018

**INF MAP 4.2**  
**5-YEAR CAPITAL**  
**IMPROVEMENT SCHEDULE**  
**CONSTRUCTION MAP FOR**  
**ROAD SEGMENTS,**  
**STORMWATER DRAINAGE**  
**FEATURES, AND PARK**







## REVENUES AND FUNDING SOURCES

SID will be the primary entity, in conjunction with the majority landowner and primary developer, to levy, collect, and apply revenue to the construction and maintenance of capital facilities. The City will not collect revenue for building any infrastructure in the short term planning period; SID will provide infrastructure through financing, special assessments, or developer contributions. Developer contributions may include the developer constructing the improvements and turning those improvements over to SID or the City. SID has no existing debt and sufficient bonding capacity to finance the capital improvement projects through FY 2022-23, and the City has a deficit funding agreement with Minto.

Although it will not use them in the short term planning period, the City has the ability to utilize a variety of revenue sources to finance capital improvement projects. The City’s primary revenue sources include ad valorem taxes, electric utility tax, electric franchise fee, permit and other fees and communication tax. These sources are not, however, exhaustive of all resources that the City can consider or utilize should alternatives be found advantageous. The City also has the ability to utilize a variety other revenue sources such as bonds, impact fees, mobility fees and proportionate fair share mitigation and developer contributions. While capital project financing is not limited solely to the sources that are inventoried in this section, these major financial resources provide a basis for assessing the City’s capacity to finance capital improvements.

## Projected Revenues and Expenditures

Table 8.2a and Table 8.2b projects revenue and expenditures for the short term planning period.

**Table 8.2a: Five-Year Projected Revenues**

Revenue Source	Fiscal Year 2017-18	Fiscal Year 2018-19 Projected	Fiscal Year 2019-20 Projected	Fiscal Year 2020-21 Projected	Fiscal Year 2021-22 Projected	Fiscal Year 2022-23 Projected
Ad Valorem Taxes	\$140,304	\$168,365	\$202,038	\$242,445	\$290,934	\$349,120
Communications Service Tax	\$4,000	\$8,000	\$10,000	\$12,000	\$22,000	\$56,000
Public Service Tax	\$5,000	\$15,000	\$20,000	\$40,000	\$103,000	\$174,000
FPL Franchise Fee			\$9,000	\$25,000	\$64,000	\$109,000
State Revenue Sharing	\$673	\$2,500	\$10,000	\$15,000	\$170,000	\$176,000



City of Westlake Comprehensive Plan

Half Cent Sales Tax	\$408	\$675	\$1200	\$4,000	\$10,000	\$26,000
Developer Contributions and Fees	\$1,580,967	\$5,739,135	\$6,491,762	\$6,923,555	\$5,427,066	\$5,134,880
<b>Total</b>						
	\$1,731,352	\$5,933,000	\$6,744,000	\$7,262,000	\$6,087,000	\$6,025,000

Seminole Improvement District Proposed Elector-Initiated Combined Conversion and Incorporation Plan (April 2016).

Data and Analysis Table 8.2b: Five-Year Projected Expenditures

Description	Fiscal Year 2017-18	Fiscal Year 2018-19 Projected	Fiscal Year 2019-20 Projected	Fiscal Year 2020-21 Projected	Fiscal Year 2021-22 Projected	Fiscal Year 2022-23 Projected
Legislative	\$34,000	\$204,000	\$204,000	\$204,000	\$175,000	\$73,000
Other Legislative	\$4,000	\$28,000	\$28,000	\$29,000	\$30,000	\$31,000
Executive	\$31,000	\$191,000	\$197,000	\$369,000	\$380,000	\$391,000
Financial and Administrative	\$5,000	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000
Legal	\$13,000	\$82,000	\$84,000	\$87,000	\$89,000	\$92,000
Planning and Zoning	\$25,000	\$156,000	\$161,000	\$165,000	\$170,000	\$176,000
Building/Code Enforcement			\$70,000	\$72,000	\$74,000	\$76,000
Law Enforcement	\$16,000	\$101,000	\$104,000	\$107,000	\$110,000	\$113,000
Other Expenditures	\$150,000	\$4,775,000	\$5,483,000	\$5,791,000	\$4,600,000	\$4,609,000
<b>Total</b>						
	\$431,000	\$5,933,000	\$6,744,000	\$7,262,000	\$6,087,000	\$6,025,000

Seminole Improvement District Proposed Elector-Initiated Combined Conversion and Incorporation Plan (April, 2016) and Water, Wastewater and Reuse Utilities Master Plan (April, 2015).





## **TIMING AND PRIORITY OF CAPITAL IMPROVEMENT NEEDS**

The Plan identifies capital improvements by type, location, cost, timing, and priority of capital improvement needs. The City Council and staff will incorporate the needed improvements within the 5-Year Schedule of Capital Improvements as planning proceeds.

## **MONITORING AND EVALUATION**

The Capital Improvements Element requires yearly updates per Chapter 163 of the Florida Statutes. The yearly update will allow the City to assess public facility needs based upon the extent, rate, and projection of development.

The review will also determine if adequate revenues are available to meet the needs. The data regarding the listed improvements will be updated and revised as needed in order to meet the listed capital improvements.

After the review is completed, a summary along with any recommended modifications will be presented to the City Council at an advertised public hearing for adoption and implementation. This will occur when the City is in the process of developing the budget for the next fiscal year. The action of the City Council will be to direct staff implementation of the changes based on the recommended modifications.

# CITY OF WESTLAKE



TECHNICAL  
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# INTERGOVERNMENTAL COORDINATION

2018



# CHAPTER 9. INTERGOVERNMENTAL COORDINATION ELEMENT DATA AND ANALYSIS

## INTRODUCTION

The purpose of the Intergovernmental Coordination element is to ensure appropriate coordination between the City, neighboring jurisdictions and other governmental agencies.

## INTERGOVERNMENTAL COORDINATION

Table 9.1 briefly describes the various governmental entities and the subjects of coordination with those entities. Generally, the office with primary responsibility for coordination is the City Manager’s office. In several instances, the City Council needs to make determinations regarding the continuance of or changes to coordination issues with other agencies or jurisdictions. This table is not intended to be an all-inclusive list of entities with which the City will coordinate.

**Table 9.1: Coordinating Agencies**

AGENCY	SUBJECT OF COORDINATION
<b>Palm Beach County</b>	
Palm Beach County Government Administration	General Administration
Palm Beach County Engineering and Public Works	ROW Construction, TPS
Palm Beach County Department of Environmental Resource Management	Environmental
Palm Beach County Division of Emergency Management	Emergency Management
Palm Beach County Fire-Rescue	Fire/Rescue
Palm Beach County Palm Tran	Bus Services
Palm Beach County Parks and Recreation	Recreation
Palm Beach County Property Appraiser	Tax Revenues Street Address Development
Palm Beach County School District	Schools



## City of Westlake Comprehensive Plan

AGENCY	SUBJECT OF COORDINATION
Palm Beach County Sheriff's Office	Law Enforcement
Palm Beach County Solid Waste Authority	Solid waste and recycling collection services
<b>Special Districts</b>	
Indian Trail Improvement District	Stormwater Management and Road Maintenance Services in neighboring "Acreage" community
Loxahatchee Groves Water Control District (LGWCD)	Stormwater Management and Road Maintenance Services
Seminole Improvement District (SID)	Stormwater Management and Road Maintenance Services and  Water/Wastewater/Reuse  Other areas as defined in Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal")
<b>Florida Departments and Agencies</b>	
Florida Department of Economic Opportunity, Division of Community Planning	Planning Activities
Florida Department of Health	Health
Florida Division of Emergency Management	Emergency Management
Florida Department of Environmental Protection	Environmental
Florida Department of Transportation	Transportation
Florida Department of Business and Professional Regulation	Various Licenses
South Florida Water Management District	Permitting
Florida Division of Historical Resources	Historic and Archaeological Resources



## City of Westlake Comprehensive Plan

AGENCY	SUBJECT OF COORDINATION
Treasure Coast Regional Planning Council	General Planning
<b>United States Departments and Agencies</b>	
US Census Bureau	Census and Surveys
US Army Corps of Engineers	Engineering and Environmental
US Environmental Protection Agency	Environmental
US Department of Housing and Urban Development	Affordable Housing
US Postal Service	Address development, mail delivery
US Department of Health and Human Services	Health and Human Services
<b>Other</b>	
Palm Beach Transportation Planning Agency	Transportation Planning
Palm Beach County League of Cities	Governmental Coordination
Palms West Chamber of Commerce	Economic Development
IPARC (Intergovernmental Plan Amendment Review Committee)	Comprehensive Plan Amendment Coordination
City of West Palm Beach	City of West Palm Beach facilities within City of Westlake Boundaries

### Interjurisdictional Coordination

The City participates in several formal and informal agreements with several agencies. It is common practice for new municipalities to retain County services for the first few years after incorporation, and even indefinitely. The City contracts with the Palm Beach County Fire-Rescue Department and Sheriff's Office (District #4) to provide fire protection and police services.

The City coordinates with neighboring municipalities, special districts, Palm Beach County, and other governmental agencies that provide storm water management, fire and police protection, utilities, and road maintenance services. The most important intergovernmental coordination efforts are with the Seminole Improvement District (SID). The City Charter requires the City to coordinate efforts with SID. Coordination between the City and SID is governed by the Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March, 2018 (SID-Westlake Interlocal). A copy of the SID-Westlake Interlocal is attached hereto as Appendix A. The SID-



Westlake Interlocal provides that SID is responsible for providing potable water, wastewater, and reclaimed (reuse), water but does not infringe on the City's police power to provide police, fire, and emergency medical services. SID may construct or require developers to construct roads and transportation infrastructure, but the City may own the roads. SID will be responsible for surface water management and drainage as well as road maintenance services. The SID-Westlake Interlocal also requires that SID and the City consult at least twice a year on current and future projects, and that during the formal consultations the 5-Year Schedule of Capital Improvements be discussed. It also provides for assistance in emergencies, mutual aid, and grants permission for use of rights-of-way.

The City is not located within any airport hazard area, therefore, no coordination is required pursuant to Fl. Statute 333.03(1)(b).

### **Comparison with Regional Policy Plan**

The Strategic Regional Policy Plan (SRPP) for the Treasure Coast (1995) has been reviewed and considered during the process of writing this Plan. The Plan conforms to the SRPP. Specific Coordination issues in each Plan element were reviewed for interagency coordination needs.

### **Palm Beach County Intergovernmental Coordination Program**

Palm Beach County's coordination program was established through two interlocal agreements that created the Multijurisdictional Issues Forum and the Comprehensive Plan Amendment Coordinated Review Process. The latter is referred to as the IPARC (Intergovernmental Plan Amendment Review Committee). The purpose of IPARC is to provide:

- a) Coordination for the review of proposed Plan amendments,
- b) Cooperation between affected local governments and service providers, and
- c) Opportunities to resolve potential disputes only within the plan amendment process with the least amount of infringement upon existing processes.

The City will participate in the Intergovernmental Plan Amendment Review Committee to coordinate planning activities in the City.

### **Treasure Coast Dispute Resolution Program**

The City will participate in the Dispute Resolution program offered by the Treasure Coast Regional Planning Council (TCRPC). The TCRPC offers a dispute resolution process to reconcile differences between or among local governments, regional agencies, and private interests on planning and growth management issues. The dispute resolution process for the Treasure Coast Region is adopted as Rule 29K-4 of the Florida Administrative Code. The Treasure Coast Regional Planning Council has been trained in mediation and conflict resolution and has access to other resources that can be utilized to address conflicts and resolve disputes.

### **The School District of Palm Beach County**

Coordination with the school district is important as the City's decisions regarding land use and density have an effect on the number and location of schools.



This coordination was formerly accomplished through a mandatory school concurrency process. The Florida Legislature made school concurrency optional in 2011 with the passage of the Community Planning Act. The same year, the original Palm Beach County Interlocal Agreement (ILA) for School Concurrency expired. The School Board, the Board of County Commissioners and the League of Cities charged IPARC with updating the existing ILA. The group opted to implement an alternative to School Concurrency, called the School Capacity Availability Determination (SCAD), and recommended entering into a new interlocal agreement for coordinated planning.

### **Interlocal Agreement for Coordinated Planning**

The revised Interlocal Agreement (ILA) was approved and adopted by the School Board in August 19, 2015, and by the Palm Beach County on December 15, 2015. Several municipalities joined the new ILA. Since then other municipalities have joined the Interlocal Agreement.

Local government signatories of the agreement are required to incorporate the School Board 5-Year Capital Facilities Plan into their comprehensive plans annually, without any funding obligation as well as coordinate and share information for planning purposes, including school's population projections and local governments' development and redevelopment proposals. The School Board may appoint non-voting representatives to local governments' land planning agencies, who will attend meetings and public hearing hearings at the discretion of the School Board.

### **School Capacity Availability Determination (SCAD)**

Pursuant to the ILA, School Capacity Availability Determination (SCAD) was established to replace school concurrency. Per the SCAD, School District staff would conduct an analysis regarding the impacts on local schools, including potential boundary changes, and make recommendations that could be incorporated as conditions of development approval, dependent upon local government approving Board. The County was subdivided into 20 Planning Areas as part of the SCAD process.

The School Capacity Availability Determination (SCAD) process includes all public schools in Palm Beach County. It entails reviewing the impact of proposed comprehensive plan amendments, and/or development orders on existing public schools and planned and funded schools.

Through SCAD, District staff evaluates the direct impacts to schools actually serving proposed development as well as any planned capacity. SCAD review provides realistic information on impacts to schools. It uses 100% utilization of Florida Inventory of School Houses (FISH) capacity. If capacity is not available at the direct school serving the proposed development, then capacity at adjacent schools in the same planning area is reviewed. Complete choice schools are not included in the evaluation for school impacts.

TAB A



**INTERLOCAL AGREEMENT BETWEEN  
THE CITY OF WESTLAKE  
AND THE  
SEMINOLE IMPROVEMENT DISTRICT**

**REGARDING THE PROVISION OF CERTAIN SERVICES, INFRASTRUCTURE, AND  
PUBLIC FACILITIES IN THE CITY OF WESTLAKE AND  
FOR ASSURANCE OF NON-DUPLICATION OF SERVICES**

**February, 2018**

**INTERLOCAL AGREEMENT BETWEEN THE CITY OF WESTLAKE AND THE  
SEMINOLE IMPROVEMENT DISTRICT REGARDING THE PROVISION OF  
CERTAIN SERVICES, INFRASTRUCTURE, AND PUBLIC FACILITIES IN THE CITY  
OF WESTLAKE AND FOR ASSURANCE OF NON-DUPLICATION OF SERVICES**

**THIS INTERLOCAL AGREEMENT** (“Agreement”) is made and entered into as of the 14 day of Feb, 2018, by and between the City of Westlake, a political subdivision of the State of Florida whose address is 4001 Seminole Pratt Whitney Road, Westlake, FL 33470 (“Westlake”) and the Seminole Improvement District, a Florida Independent Special Taxing District, whose address is 4001 Seminole Pratt Whitney Road, Westlake, Florida 33470 (“SID”). In this Agreement, Westlake and SID may be referred to individually as “Party” and collectively as “Parties.”

**RECITALS**

WHEREAS, Section 163.01, Florida Statutes, known as the "Florida Interlocal Cooperation Act of 1969" (the “Act”) authorizes local governmental units to make the most efficient use of their powers by enabling them to cooperate with other localities on a basis of mutual advantage and thereby to provide services and facilities that will harmonize geographic, economic, population, and other factors influencing the needs and development of local communities; and

WHEREAS, the City of Westlake was incorporated June 20, 2016 through an elector-initiated incorporation and is possessed of full home rule powers pursuant to Article VIII, Section 2 of the Florida Constitution; Chapter 166, Florida Statutes; and the City of Westlake Municipal Charter (“Charter”); and

WHEREAS, SID exists as an independent special taxing district and political subdivision created by Special Act of the Florida Legislature, Chapter 2000-431, Laws of Florida (“Enabling Act”), a copy of which is attached hereto and incorporated herein as Exhibit A, and possesses certain powers enumerated thereunder and pursuant to Chapters 189 and 298, Florida Statutes; and

WHEREAS, SID possess certain powers pursuant to the Enabling Act and Florida Statutes, including the powers to construct, own, and maintain a number of types of public works and facilities and provide services including but not limited to infrastructure and services related to water, sewer, drainage, irrigation, water management, parks, recreation, facilities, roadways and others more particularly described in the Enabling Act; and

WHEREAS, the geographic boundaries of SID are coextensive with the geographic boundaries of Westlake; and

WHEREAS, the Parties agree that SID currently provides all services and facilities, and exercises all powers permitted by the Enabling Act and Florida Statutes that are currently necessary within the SID boundaries; and

WHEREAS, pursuant to the elector-initiated incorporation, SID will become a dependent special district on a certain date ("Transition Date") at which point in time all SID assets, facilities, and infrastructure will transfer to the City of Westlake as a matter of law; and

WHEREAS, SID has an adopted Water Control Plan ("Plan") governing certain enumerated facilities and services; and

WHEREAS, SID has entered into an interlocal agreement with Palm Beach County Regarding Sale of Bulk Water and Wastewater Service and Establishment of Water, Wastewater, and Reclaimed Water Service Areas, dated April 18, 2006, a copy of which is attached hereto as Exhibit B; and

WHEREAS, SID has entered into an interlocal agreement with Palm Beach County for Purchase and Sale of Bulk Reclaimed Water dated April 20, 2010, a copy of which is attached hereto as Exhibit C; and

WHEREAS, SID has existing permits for the entire Service Area including a water use permit from the South Florida Water Management District ("SFWMD"), an environmental resource permit from SFWMD, and a Section 404 Clean Water permit from the U.S. Army Corps of Engineers; and

WHEREAS, SID and Westlake have determined on the basis of mutual advantage and in accordance with geographic, economic, population and other factors influencing the needs and development of properties within the coextensive SID and Westlake boundaries which of the entities may be in the better position to provide the services, facilities and infrastructure discussed in this Agreement; and

WHEREAS, SID and Westlake agree that the procedures and understanding contained in this Agreement are intended to reduce the costs to the Parties, avoid unnecessary duplication of facilities and services, provide for the efficient delivery of services and facilities; increase transparency; provide for accountability; and improve the quality of life for residents; and

WHEREAS, the Charter, a copy of which is attached hereto as Exhibit D, provides in Section 13(F) that Westlake "shall not exercise any function or provide any service being performed by or provided by Seminole Improvement District at any time prior to the Transition Date. This provision does not impair the ability of [Westlake] to contract for fire rescue or law enforcement services;" and

WHEREAS, Westlake and SID are entering into this Agreement pursuant to the Act and in furtherance of the Charter and the Plan; and

WHEREAS, by entering into this Agreement, the Parties have coordinated the efficient planning of services and infrastructure and intend to ensure that public facilities will be available as needed through the term of this Agreement; and

WHEREAS, the Parties wish to memorialize in this Agreement their understandings and intentions as to the provision of services and construction of facilities and to agree to a process for the planning, design, and permitting of such facilities and services; and

WHEREAS, the Parties find that the benefits of this Agreement will accrue to both Parties;

**NOW THEREFORE**, in consideration of the mutual covenants and conditions contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by the Parties, the Parties covenant and agree as follows:

1. **Incorporation.** The recitals above are true and correct and are hereby incorporated herein as if fully set forth.

2. **Effective Date.** This agreement shall become effective on the date the Agreement is filed with the Clerk of the Circuit Court for Palm Beach County.

3. **Definitions.** Words not defined in this Agreement shall have the meaning found in the definitions Section of Chapter 163, Florida Statutes; or, if not defined by this Agreement or the definitions Section of Chapter 163, Florida Statutes, shall be interpreted using their ordinary dictionary definition. In this Agreement, the following words have the following meanings:

- a. "Emergency" means an interruption of water, wastewater, sewer, reclaimed water, or other critical services caused by power failures, acts of God or the public enemy, war, national emergency, allocation or other governmental restrictions upon the use or availability of labor or materials, rationing, civil insurrection, riot, disorder or demonstration, terrorism, strike, embargo, flood, tidal wave, fire, explosion, bomb detonation, nuclear fallout, windstorm, hurricane, earthquake, or other casualty, disaster or catastrophe. This definition of "emergency" does not apply to the phrases "emergency medical services," "emergency meeting," or any other reading of the word that does not logically follow the context.
- b. "Exclusive Provider" means the only entity authorized to provide the relevant service or facility and to charge fees, costs or other monies for such service or facility. The term "Exclusive Provider" shall not be construed to require the entity to generate the service or facility and specifically permits the entity to provide such service or facility after it has purchased the service or facility from another entity,

nor does it prohibit one entity from collecting fees on behalf of another entity under such terms as the Parties may agree

- c. "Governing Body" means the SID Board of Supervisors or the Westlake City Council, in accordance with the most reasonable reading of the word in the context of this Agreement.
- d. "Initiating Party" means a Party who wishes to undertake a project or take an action that falls within the categories listed in Paragraph 16(c) that was not discussed at the Semi-Annual Consultation, who sends a written request to the other Party ("Responsive Party") regarding project consultation under Paragraph 16(b) of this Agreement.
- e. "Manager" means the SID District Manager or the Westlake City Manager in accordance with the most reasonable reading of the word in the context of this Agreement.
- f. "Plan" shall have the same meaning as "Water Control Plan."
- g. "Resident" means any person, business, for-profit or not for profit corporation, government, or other entity that owns or uses property within the Service Area and uses the services or facilities of SID.
- h. "Requesting Party" means the Party desiring the other Party to exercise that other Party's powers or take an action that reasonably falls within the other Party's responsibilities, obligations, or powers under this Agreement.
- i. "Responsible Party" means the Party that is responsible for taking an action pursuant to this Agreement.
- j. "Responsive Party" means the Party who receives the written request for project consultation from the Initiating Party.
- k. "Service Area" means the geographic region of land within the coextensive boundaries of SID and Westlake, as illustrated in Exhibit E.
- l. "Water Control Plan" means the Seminole Improvement District Water Control Plan dated October 13, 2015, as the same may be amended from time to time.

**4. Interpretation of Section, Subsection, and Paragraph.** For purposes of this Agreement, the terms "section," "subsection," and "paragraph" shall be understood to refer to the material within each part as illustrated below. For this example, "1" shall refer to any Arabic numeral, "a" shall refer to any letter, and "i" shall refer to any Roman numeral. The terms above shall be understood as follows:

1 Section

a. Subsection

i. Paragraph

5. **Scope.** This Agreement shall apply to all parcels within the Service Area. In the event of a conflict between the terms of this Agreement and any other source concerning the topics herein, the terms of this Agreement shall control.
6. **No Limitation on Powers.** Nothing in this Agreement shall be construed so as to in any way limit SID's lawful exercise of any powers pursuant to the Enabling Act or other applicable law, ordinance, rule, regulation, or code, including but not limited to SID's ability to enter into agreements with any person, firm, corporation or entity for the furnishing by such person, firm, corporation, or entity of any facilities or services SID is authorized to provide, acquire, maintain, or otherwise put into effect. Nothing in this Agreement prohibits or prevents SID from agreeing to allow a developer or contractor to construct or install potable water, wastewater, reclaimed water, irrigation, roadway, drainage, transportation, park, or other infrastructure or facilities and transfer such infrastructure or facilities to SID's ownership and control.  
  
Nothing in this Agreement shall be construed to restrict Westlake's home rule powers, police powers, or Westlake's authority to amend its Comprehensive Plan and make planning, zoning, or other land use decisions.
7. **No Effect on Existing Agreements.** Nothing in this Agreement shall be construed so as to limit, inhibit, cancel, modify, or otherwise affect any existing contracts or agreements between either Party and any other entity or entities that may exist as of the Effective Date of this Agreement.
8. **Water Control Plan Controlling.** The Water Control Plan is hereby incorporated herein by reference as if fully set forth. SID shall have exclusive power concerning any items, projects, plans, intentions, undertakings, or actions provided for in the Water Control Plan, unless otherwise agreed to by the Parties in writing by amendment to this Agreement.
9. **Parks.** SID and Westlake may each plan for the provision of public parks and recreational facilities. SID and Westlake will coordinate the best methods and sources of funding for the planning, acquisition, development, operation, and maintenance of park facilities within Westlake. Westlake shall be responsible for acquisition, development, planning, and designing of park facilities. Westlake may enter into an interlocal agreement with SID for the operation and maintenance of park facilities. Westlake shall evaluate and address funding for operation and maintenance costs in the planning and design phases of park and recreational facilities development in coordination with SID.
10. **Police.** Westlake shall have the sole responsibility to engage, contract for, employ, or otherwise provide all personnel, facilities, assets, funding, equipment, and related items for provision of law enforcement services within the Service Area. Nothing in this Agreement shall be construed to limit or otherwise inhibit Westlake's ability to contract for such

services with any other entity. Nothing in this agreement shall be construed to limit SID's ability to provide public safety measures, including security, guardhouses, fences, gates, electronic intrusion detection systems, patrols, or other measures as provided for in the Enabling Act. Notwithstanding the foregoing, 1) nothing in this Agreement permits SID to exercise police power, and 2) nothing in this Agreement shall be construed so as to require SID to provide the aforementioned public safety measures.

**11. Fire and Emergency Medical Services.** Westlake shall have the sole responsibility to engage, contract for, employ, or otherwise provide all personnel, facilities, assets, funding, equipment, and related items to fire prevention and control, and emergency medical services. Westlake may require SID to install and provide water for water mains, plugs, and hydrants in a manner consistent with any applicable law, ordinance, rule, regulation or code. SID and Westlake shall coordinate to ensure that adequate water for fire protection services is available prior to the issuance of any certificate of occupancy or equivalent authorization for any new development or redevelopment. Nothing in this Agreement shall be construed to limit or otherwise inhibit Westlake's ability to contract for fire prevention and control and emergency medical services with any other entity.

**12. Provision of Potable Water, Wastewater, and Reclaimed Water Utility Services and Facilities**

- a. SID shall be the exclusive provider of potable water, wastewater, and reclaimed water services and facilities within the Service Area. The Parties agree that any additional potable water, wastewater, and reclaimed water capacity required to meet the needs of SID, Westlake, or the properties within the Service Area that is greater than the existing SID capacity as of the Effective Date shall be provided exclusively by SID except in an Emergency, as provided for in Section 23, to which SID is unable to respond. Westlake will not authorize any connection to SID facilities until a permit from SID has been obtained. To the extent it has jurisdiction, Westlake will not permit any new private utilities, septic tanks, or wells to be constructed within the Service Area.
- b. Nothing in this Agreement prevents SID from expanding the facilities and services described in this section within the Service Area as SID, in its sole discretion, deems necessary to provide potable water, wastewater, and reclaimed water services within the Service Area.
- c. SID shall have the exclusive power and responsibility to own, acquire, construct, finance, operate, and maintain systems to produce, purify, store, and distribute potable water for consumption in the Service Area.
- d. SID shall have the exclusive power and responsibility to own, acquire, construct, finance, operate, and maintain systems for the collection, transport, treatment, and disposal of wastewater in the Service Area.

- e. SID shall have the exclusive power and responsibility to own, acquire, construct, finance, operate, and maintain systems for the delivery, storage, and distribution of reclaimed water or stormwater used for irrigation purposes in the Service Area.
- f. SID shall retain the ability to discontinue service and assess reasonable penalties, including attorneys' fees, against any user or property for such rates, fees, rentals, fares, or other charges that become delinquent and require collection after such proceedings as may be required by statute, law, the Enabling Act, ordinance, rule, regulation or code.
- g. SID shall retain the power and responsibility to fund or finance any service or facility provided for in this section as provided by law or the Enabling Act. SID may participate with Westlake or any other party in the financing or implementation of any project or facility for the provision of water, wastewater, or reclaimed water services upon such terms as may be agreed.
- h. SID and Westlake shall coordinate to ensure that adequate potable water and wastewater capacity and facilities are available and owned by SID prior to the issuance of any certificate of occupancy or equivalent authorization for any new development or redevelopment. Westlake shall not issue a certificate of occupancy or equivalent authorization until such capacity and facilities are available and owned by SID. All facilities shall be designed and constructed in compliance with any applicable law, ordinance, rule, regulation or code.
- i. SID shall not reduce the capacity to provide services described in this section below a level that will prevent the City from meeting level of service standards within a 5-year period or in a manner inconsistent with the 5-year capital improvements schedule found in the Capital Improvements Element of the City of Westlake Comprehensive Plan. Westlake will ensure that no development orders are issued that will compromise SID's ability to meet applicable level of service standards.

### **13. Provision of Irrigation Water Service**

- a. SID shall be the exclusive provider of water to be used for irrigation purposes within the Service Area. SID shall have the exclusive power to own, construct, operate, and maintain irrigation works, machinery, piping, and plants in the Service Area.

### **14. Roadways and Transportation Infrastructure**

- a. SID shall have the ability, within the Service Area, to construct, improve, pave, and maintain roads necessary and convenient for the exercise of the powers or duties of SID as provided for in the Water Control Plan; and to include as a component of roads, parkways, bridges, landscaping, irrigation, bicycle and jogging paths, street lighting, traffic signals, road striping, and all other customary elements of modern



road systems. Westlake may own any roads within the Service Area and SID may transfer ownership of roads within the Service Area to Westlake.

- b. SID shall have the ability to finance, fund, plan, establish, acquire, construct or reconstruct, enlarge or extend, equip, operate, and maintain systems and facilities for providing transportation throughout the Service Area, including private or contract carriers, buses, vehicles, railroads, and other transportation facilities, to meet the transportation requirements of SID or Westlake for activities conducted within the Service Area. This subsection does not prohibit the City from developing and implementing a mobility fee funding system.
- c. SID shall cooperate with Westlake to title in Westlake such elements of the roadway or transportation network as is necessary to qualify Westlake for fuel tax revenue sharing pursuant to Chapter 206, Florida Statutes. Westlake shall designate in its budget an amount equal to that portion of its budget revenue originating from fuel tax that must be used solely for transportation purposes as required by law to be transferrable to SID for use in transportation projects under the same terms, conditions, and restrictions that would apply to Westlake if Westlake were to use such funds. Notwithstanding title to roadway or transportation network assets, SID shall operate and maintain such roadways or assets.
- d. Any funding provided by Westlake to SID that originated as funds collected from any fuel tax shall be so designated and shall only be used for construction and maintenance of transportation infrastructure in compliance with the uses provided by law for such funding. SID shall not, under any circumstances, use such funding for any purpose not contemplated by law or ordinance and shall take all measures necessary to ensure compliance with this Agreement and all applicable laws, ordinances, rules, regulations, and codes concerning such funding. SID shall be required to refund to Westlake any such funds not used in accordance of the limitations in this Agreement. SID shall provide to Westlake, on an annual basis, an accounting and report demonstrating that such funds were used in compliance with statutory requirements.
- e. As between SID and Westlake, Westlake shall have the sole power and responsibility to set and enforce speed limits and other traffic laws within the Service Area, including regulations concerning required signage related to traffic laws and traffic safety.

#### **15. Surface Water Management and Drainage.**

- a. SID shall have the exclusive power to construct, operate, and maintain canals, ditches, drains, levees, lakes, ponds, and other works for surface water management and control purposes, including drainage within the Service Area.

- b. SID shall have the exclusive power to acquire, purchase, operate, and maintain pumps, plants, and pumping systems for surface water management and control purposes within the Service Area.
- c. Westlake will ensure that no canals, lakes, or other stormwater management facilities owned or maintained by SID are designated as recreational areas, and shall not authorize fishing, swimming, or other recreational activities in such facilities. This subsection does not prohibit SID from authorizing fishing, swimming, or other recreational activities in its own facilities.

**16. Requirement for Consultation.** In order to effectuate the intent of this Agreement, the Parties have agreed to the consultation procedures outlined in this Section.

- a. **Semi-Annual Consultation.** The Parties shall consult at least twice annually (“Semi-Annual Consultation”) to discuss projects or actions that either Party wishes to undertake in the foreseeable future that fall within the categories listed in Sections 9 and 12-15, above, and subsection 16(c). The purpose of the Semi-Annual Consultation is to determine which Party is best equipped to undertake such projects or take such actions.
  - i. The Semi-Annual Consultation shall take place at a properly noticed public meeting. Both Parties shall be responsible for ensuring the Semi-Annual Consultation is noticed as required by law.
  - ii. During the Semi-Annual Consultation, the Parties must discuss the 5-year capital improvements schedule found in the Capital Improvements Element of the City of Westlake Comprehensive Plan and the individual items described in that 5-year schedule.
  - iii. At least 30 days prior to the Semi-Annual Consultation meeting, each Party shall submit to the other Party a list of projects or actions (“Project List”) that it expects, desires, or plans to undertake within one year of the Semi-Annual Consultation meeting that fall within the categories listed in subsection 16(c).
  - iv. At the Semi-Annual Consultation, the Parties shall use their best efforts to allocate the projects or activities on the Project Lists to the Party best equipped to undertake the Project or Activity and desirous of undertaking the project or activity. The Parties may agree to more than one Semi-Annual Consultation or to continue a Semi-Annual Consultation to a subsequent meeting.
  - v. In the event both Parties wish to undertake the same or a substantially similar project or activity, SID shall be given the right to undertake that project or activity; provided, however, that SID must commence substantial

work on that project or activity within 18 months of the Semi-Annual Consultation meeting where the item was discussed, or within such other time as agreed to by the Parties. Alternatively, the Parties may agree to jointly undertake a project or activity so long as the execution of the project or activity does not violate the law, the Charter, the Enabling Act, or this Agreement.

- b. **Project Consultation.** No Party may expend funds or resources towards any project or action that falls within the categories listed in subsection 16(c) without first notifying the other Party in writing and requesting consultation on that item. After an Initiating Party notifies Responsive Party in writing of the project or action concerned:
  - i. If both Parties agree in writing that the Initiating Party may undertake the project or action, then no further action is required and the Initiating Party may commence with the project or action immediately. If both Parties agree in writing that Responsive Party is the best Party to undertake the action, and the Responsive Party desires to undertake the action, then the Responsive Party may undertake the action or project; provided however, that the Responsive Party must commence substantial work on the action or project within 18 months or such other time as agreed to by the Parties. If such work is not commenced, the Initiating Party may issue a Request to Exercise Authority as provided for in Section 23 of this Agreement.
  - ii. If the Parties both desire to undertake the project or action and disagree as to which party is best able to undertake the Project, SID shall be given the right to undertake that project or activity; provided, however, that SID must commence substantial work on that project or activity within 18 months of the Project Consultation meeting where the item was discussed or within or such other time as agreed to by the Parties. \
  - iii. If the Responsive Party does not respond within 45 days to the written notice by the Initiating Party, the Responsive Party will be deemed to have consented to Initiating Party undertaking the project or action described in the notice.
- c. **Consultation Items.** The Parties agree that consultation is required prior to any undertakings, including but not limited to planning, expending funds, issuing procurement documents, and similar actions, for the following categories to the extent not addressed in Sections 9 and 12-15, above:
  - i. Parking
  - ii. Parks or Recreational Facilities

- iii. Mosquito or Arthropod Control
- iv. Conservation Areas, Mitigation Areas, or Wildlife Habitat
- v. Transportation or Transportation Infrastructure
- vi. Tangible or physical infrastructure, including but not limited to roads, pipes, underground utilities, water, cable or internet lines, fiber optic lines, gas lines, telephone lines, electrical lines and housing, solar power or renewable energy facilities, or any other infrastructure that may be used in providing municipal facilities or services.
- vii. All other items, actions, or projects that are provided for in the Enabling Act.

d. **Consultation Prior to Water Control Plan Amendment.** SID shall provide notice as required by law for any Water Control Plan adoption or amendment. Westlake shall respond in writing within the time permitted in Section 298.301, Florida Statutes, identifying any suggestions, objectives, concerns, or the lack thereof, under Chapter 298, Florida Statutes or this Agreement regarding the proposed water control plan or water control plan amendments. SID shall not amend the Water Control Plan to include projects or activities already planned or being undertaken by Westlake without the express written consent of Westlake. SID shall not amend the Water Control Plan in any way that will decrease services that are provided for the in 5-year plan in the Capital Improvements Element of the City of Westlake Comprehensive Plan, and shall not make any changes to the Water Control Plan that are inconsistent with the 5-year plan in the Capital Improvements Element of the City of Westlake Comprehensive Plan.

**17. No Limitation on Staff.** Nothing in this Agreement shall be read to prohibit or impede the staff of Westlake and the staff of SID from meeting, collaborating, planning, consulting, or communicating except as otherwise prohibited or governed by Florida law. Specifically, the SID Manager and the City Manager, the SID Attorney and City Attorney, and the SID Engineer and the City Engineer are specifically authorized to meet and formulate plans and recommendations to present to their respective Governing Bodies concerning efficient provision of facilities and services and implementation and compliance with this Agreement. It is an express purpose of this Agreement to facilitate information sharing and exchange between the Parties.

**18. Permitting and Plan Review.** The Parties hereby agree to the following process for the review and issuance of plats and development orders within the Service Area.

- a. The Parties will develop a common form of application(s) for development orders, as that term is as defined in Sections 380.04 and 163.3164(15), Florida Statutes. The form will require sufficient information for each Party to determine whether it may or desires to approve the requested action within the Party's area of responsibility as outlined below. Each Party will use the common form to document its own land development activities.
- b. SID shall have the exclusive authority to set requirements and standards for, review, approve, and issue permits for the facilities: 1) depicted in its Water Control Plan, and 2) addressed in Sections 9 and 12-15, above. Applicants applying for permits under SID's authority described above shall apply directly to SID for such permit. SID shall provide notice to Westlake of each final permit issued by SID, including amendments thereto, and of each and close-out of such permits.
- c. Westlake has the exclusive authority to set requirements and standards for, approve, and issue permits or authorizations for all comprehensive planning, zoning and land development activities not falling within SID's area of authority as set forth above. Applicants applying for permits or authorizations under Westlake's authority shall apply directly to Westlake for such permit or authorization. Westlake shall provide to SID notice of permits for projects at which utility meters will need to be installed prior to being issued a certificate of occupancy. Westlake shall not approve any action which would violate any SFWMD water use permit, SFWMD environmental resource permit, or United States Army Corps of Engineers Clean Water Act permits issued to SID.
- d. Each Party shall provide the other with copies of all land use or development order applications within five (5) days of the receipt of any application or preliminary plans associated with an application. Each Party shall have ten (10) working days after the receipt of such copies to provide any comments on the application regarding any matters within that Party's authority. SID shall review each application for its effects upon SID works, services, facilities and infrastructure. Westlake shall not issue development orders until SID has confirmed that SID has the existing or planned capacity and facilities to meet the level of service standard applicable to the project described in the application, or that the developer will construct and convey to SID the facilities or infrastructure required to meet the applicable level of service standard prior to the issuance of a certificate of occupancy or equivalent authorization. SID may require the applicant to provide funds for the infrastructure required to support the project.
- e. If a development order will authorize development or a project that will require facilities or infrastructure that is not planned for in the 5-year capital improvements schedule found in the Capital Improvements Element of the City of Westlake Comprehensive Plan, the Parties shall require as a condition of the development order that the developer to construct the required facilities or infrastructure and then

transfer ownership of such facilities or infrastructure to SID prior to the issuance of a certificate of occupancy or equivalent authorization. SID will only accept facilities and infrastructure that meets all applicable laws, ordinances, rules, regulations, and codes.

- f. Each Party shall only review those items or matters over which it has jurisdiction, and no party shall deny a permit or authorization on grounds over which it has no jurisdiction.

**19. Enforcement.** If either Party has a grievance that arises from matters discussed in this Agreement or believes the other Party has breached this Agreement, that Party shall notify the other Party in writing as provided for in subsection 32(d) of this Agreement. The Parties shall then meet to discuss the issues identified in the notice and attempt in good faith to resolve the issue, dispute or conflict prior to either Party initiating the intergovernmental conflict resolution process provided in by Chapter 164, Florida Statutes.

**20. Joint Undertakings.** Nothing in this Agreement shall prevent the Parties from undertaking projects or actions jointly when the Parties so desire. Westlake may contribute financing to the provision of the services and facilities described herein under such terms and conditions as agreed to by the Parties.

**21. No Partnership.** Nothing in this Agreement shall be deemed or construed as creating a partnership, joint venture, agency, or employee relationship between the Parties.

**22. Permission to use Right of Way.** Each Party agrees to grant the other the necessary easements to effectuate each Party's provision of services and facilities as described in this Agreement. Such easements may be reflected on plat as the land is developed. The Parties agree to enter into and execute any legal agreement necessary to effectuate this provision and agree that any such legal document may be recorded in the public records of Palm Beach County for such purposes. Westlake shall not permit any action or the installation of any item that will impede or prevent SID from use of the rights of way without advance written consent from SID. SID shall not permit any action or the installation of any item that will impede or prevent Westlake from use of the rights of way without advance written consent from Westlake. When roads are dedicated to the City, the City shall provide SID with an exclusive easement in the right of way for utilities' infrastructure, construction, and maintenance.

**23. Emergency.** In the event of an Emergency to which SID is unable to respond, Westlake may take any measures necessary to protect the health, safety, and welfare of any Residents, including pumping water and making connection to other such infrastructure, facilities, or systems that may be available for the duration of the Emergency or until the threat to health, safety, and welfare of Residents is alleviated.

**24. Fees.**

- a. **Service, Facility, and Connection Fees.** SID shall have the sole authority to prescribe, fix, establish, and collect rates, fees, rentals, fares or other charges, and revise the same from time to time, for the facilities and services furnished or to be furnished by SID and to recover the cost of making connection to any SID facility, system, or other physical, electronic, or other infrastructure.
- b. **Impact Fees.** This Agreement shall not be construed so as to impact SID's ability to enter into impact fee credit arrangements for matters contained in or outside the scope of this Agreement.
- c. **Waiver.** Westlake and SID hereby agree to waive review and permit fees for all projects or activities undertaken by the other Party. This waiver does not apply to projects undertaken by third parties, even if the resulting facilities or infrastructure will be turned over to SID or Westlake.

**25. Financing.** This Agreement shall have no effect on SID and Westlake's ability to enter into other interlocal agreements concerning the financing of the services and facilities described herein.

**26. Request for Exercise of Authority**

- a. In the event either Party desires for the other Party to exercise the powers to take an action that reasonably falls within the other Party's responsibilities, obligations, or powers under this Agreement, the Requesting Party may notify the Responsible Party of its request at any time according to the following procedure:
  - i. The Requesting Party shall place an item on its own agenda for deliberation by the Governing Body of the Requesting Party. By passage of a motion, the Governing Body of the Requesting Party may authorize a written request to the Responsible Party to take action or may authorize its Manager to act on behalf of the Governing Body in presenting such a request to the Responsible Party and/or negotiating the terms and implementation of the request. The Responsible Party shall place the request on the agenda for its next regularly scheduled meeting of its Governing Body, or may call an emergency meeting of its Governing Body to respond to the request. The Responsible Party may, through passage of a motion, authorize its Manager to respond to or negotiate with the Requesting Party or the Manager of the Requesting Party for the implementation of the request.
  - ii. In the event the Governing Body of the non-requesting Party determines it is the Responsible Party and that it desires to take the requested action, it shall notify the Requesting Party of its decision in writing as provided for in subsection 32(d) of this Agreement as soon as is practicable.

- iii. In the event the Governing Body of the non-requesting Party determines that it is not the Responsible Party or does not desire to take the requested action, it shall notify the Requesting Party in writing as provided for in subsection 32(d) of this Agreement as soon as is practicable.
- iv. If no agreement can be reached between the Parties as to who is the Responsible Party, SID shall be given the right to undertake that project or activity; provided, however, that SID must commence substantial work on that project or activity within 18 months of the meeting where the item was discussed or within or such other time as agreed to by the Parties.

## **27. Request to Cease Actions**

- a. For purposes of this section, the term “Notifying Party” means the Party that believes that pursuant to this Agreement it is the only Party responsible, obligated, or empowered to perform an action and that desires for the other Party to cease performing such an action. The term “Acting Party” shall mean the Party performing the action that the Notifying Party believes it is solely empowered to perform.
- b. It is the intent of the Parties to avoid duplication of services by allocating responsibility pursuant to this Agreement.
- c. In the event one Party feels the other Party is performing a service that is outside of the other Party’s scope of responsibilities pursuant to this Agreement, it shall notify that other party through the following procedure:
  - i. The Notifying Party shall place an item on its own agenda for deliberation by the Governing Body of the Notifying Party. By passage of a motion, the Governing Body of the Notifying Party may authorize a written request to the Acting Party to cease that action or may authorize its Manager to act on behalf of the Governing Body in presenting such a request to the Acting Party and/or negotiating the terms and implementation of the request. The Acting Party shall place the request on the agenda for its next regularly scheduled meeting of its Governing Body, or may call an emergency meeting of its Governing Body to respond to the request. The Acting Party may, through passage of a motion, authorize a response to or negotiations with the Notifying Party for the implementation of the request.
  - ii. In the event the Governing Body of the non-Notifying Party determines it properly responsible, obligated, or empowered to perform the action pursuant to the Agreement and that it desires to continue taking such action, it shall notify the Notifying Party of its decision in writing as provided for in subsection 32(d) of this Agreement as soon as is practicable.



- iii. In the event the Governing Body of the non-Notifying Party determines that it is not responsible, obligated, or empowered to continue the action and does not desire to continue taking that action, it shall notify the Notifying Party in writing as provided for in subsection 32(d) of this Agreement as soon as is practicable.
- iv. If no agreement can be reached between the Parties as to who is the proper party to take the action, SID shall be given the right to undertake that project or activity subject to other restrictions in this Agreement; provided, however, that SID must commence substantial work on that project or activity within 18 months of the meeting where the item was discussed or within or such other time as agreed to by the Parties.

**28. Compliance with Westlake Comprehensive Plan and Zoning.** This Agreement does not represent acquiescence on the part of Westlake to SID's provision of services or facilities inconsistent with the Westlake Comprehensive Plan or inconsistent with any development orders/approvals affecting the Service Area. Notwithstanding any other provision in this Agreement, Westlake reserves its legislative authority with respect to all planning and zoning decisions affecting SID, and nothing in this Agreement should be construed as guaranteeing SID any particular zoning or planning decision on the part of Westlake.

**29. Dispute Resolution.** In the event a dispute arises as to the terms or provisions of this Agreement, the Parties agree to participate in Conflict Resolution Procedures set out in Chapter 164, Florida Statutes.

**30. Transfer of Roads.** Pursuant to § 335.0415, Florida Statutes, the Parties agree that the jurisdiction of public roads will be transferred only through mutual agreement of both Parties and in accordance with all statutory requirements.

**31. Mutual Aid.** In the event of an Emergency or at such other time as the Parties deem necessary to protect from a threat, whether natural or manmade, to health, safety, or welfare within the service area, the Parties may provide mutual aid to one another and may donate manpower, supplies, facilities, services, or funds to alleviate such a threat and in furtherance of such mutual aid. No Party shall be liable to another Party for, or be considered in default or breach of this Agreement, for delay or failure to provide aid under this section. Each Party is encouraged to provide the other Party with an updated list each year listing emergency contact information for such Party.

**32. Miscellaneous**

- a. **SID Powers.** SID acknowledges that it does not have planning or zoning authority, home rule or general police powers, and nothing in this Agreement shall be read or interpreted to mean otherwise.
- b. **Interlocal Agreement.** This is an interlocal agreement entered into between the parties pursuant to Section 163.01, Florida Statutes. A true and correct copy of this Agreement and any amendments shall be filed with the Clerk of the Circuit Court in Palm Beach County.
- c. **Development Order.** This Agreement is not a development order, as that term is defined in Sections 380.04 and 163.3164, Florida Statutes. This Agreement does not grant or entitle SID to any development approvals or densities greater than those allowed under the density provisions of the Comprehensive Plan of the City of Westlake, nor to densities or development rights as may otherwise be limited by the City Council of the City of Westlake
- d. **Notice.** Any notice or other document required or allowed to be given pursuant to this Agreement shall be in writing and shall be delivered personally, or by recognized overnight courier or sent by certified mail, postage prepaid, return receipt requested. The use of electronic communication is not considered as providing proper Notice pursuant to this Agreement.

If to SID, such Notice shall be addressed to SID at:

District Manager  
Seminole Improvement District  
4001 Seminole Pratt Whitney Road  
Westlake, FL 33470

with a copy to:

District Counsel  
Robert P. Diffenderfer, Esquire  
Lewis, Longman & Walker, P.A.  
515 North Flagler Drive  
Suite 1500  
West Palm Beach, Florida 33401

or such other address as SID may provide in writing to Westlake.

If to Westlake, such notice shall be addressed to Westlake at:

City Manager  
City of Westlake

4001 Seminole Pratt-Whitney Road  
Westlake, FL 33470

with a copy to:

City Attorney  
City of Westlake  
4001 Seminole Pratt-Whitney Road  
Westlake, FL 33470

or such other address as Westlake may provide in writing to SID.

- e. **No Assignment.** This Agreement shall be binding upon and inure to the benefit of both Westlake and SID's successors and assigns. Neither Westlake nor SID may assign its rights under this Agreement.
- f. **Beneficiaries.** This Agreement is solely for the benefit of Westlake and SID and no other causes of action shall accrue upon or by reason hereof to or for the benefit of any third party, who or which is not a formal party to this Agreement. Nothing in the Agreement expressed or implied is intended or shall be construed to confer upon or give any person or entity other than the Parties any right, remedy or claim under or by reason of this Agreement or any provisions or conditions hereto.
- g. **Headings.** The headings used are for convenience only and shall be disregarded in the construction and interpretation of this Agreement.
- h. **Interpretation.** This Agreement shall be governed by, and construed and interpreted in accordance with, the laws of the State of Florida. The drafting of this Agreement constituted a joint effort of Westlake and SID and the Agreement's interpretation shall assume that neither had any more input or influence. In the event any term or provision of this Agreement is determined by appropriate judicial authority to be illegal or otherwise invalid, such provision shall be given its nearest legal meaning or be construed as deleted, as such authority determines, and the remainder of this Agreement shall be construed to be in full force and effect.
- i. **Amendment.** This Agreement may be amended only if executed in writing and signed by Westlake and SID.
- j. **Integration.** This Agreement and any documents referred to herein, collectively embody the entire agreement and understandings between Westlake and SID and all other agreements or understandings, oral or written, with reference to this Agreement are merged into and superseded by this Agreement. This Agreement may be executed in one or more counterparts, each of which shall be considered an original.
- k. **Severability.** If any part of this Agreement is found invalid or unenforceable by any court, such invalidity or unenforceability shall not affect the other parts of the

Agreement if the rights and obligations of the parties contained herein are not materially prejudiced and if the intentions of the parties can continue to be achieved. To that end, this Agreement is declared severable.

- l. **No Impact on Funding.** If any portion of this Agreement is determined to disqualify or otherwise impair either Party's ability to collect taxes, assessments, or other revenue as provided by statute, that portion shall be deemed deleted from this Agreement and the remainder of the Agreement shall remain in effect.
  
- m. **No Transfer of Powers.** Nothing contained in this Agreement shall be construed to constitute a transfer of powers in any way whatsoever. This Agreement is solely an agreement delineating the parties' responsibilities and understandings concerning coordination and non-duplication of services through cooperative measures, as authorized in Florida Statutes, Chapter 163. The governing bodies for Westlake and SID shall each maintain all legislative authority with regard to their respective political subdivision. All of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and pensions and relief, disability, workers' compensation and other benefits which apply to the activity of officers, agents, or employees of any public agents or employees of any public agency when performing within the territorial limits for their respective agencies shall apply to the same degree and extend to the performance of such functions and duties of such officers, agents, or employees extra-territorially under the provisions of this Agreement.
  
- n. **Termination.** This Agreement shall terminate upon the Transition Date or upon earlier written agreement of the Parties.
  
- o. **Force Majeure.** In the event that the performance of this Agreement by either party to this Agreement is prevented or interrupted in consequence of any cause beyond the control of the other party, which may include, but is not limited to, acts of God or the public enemy, war, national emergency, allocation or other governmental restrictions upon the use or availability of labor or materials, rationing, civil insurrection, riot, disorder or demonstration, terrorism, strike, embargo, flood, tidal wave, fire, explosion, bomb detonation, nuclear fallout, windstorm, hurricane, earthquake, or other casualty, disaster or catastrophe of plant facilities or line breaks, neither party shall be liable for such non-performance.

**IN WITNESS WHEREOF**, Westlake and SID have executed or have caused this Agreement, with the named Exhibits attached, to be duly executed.

ATTEST:

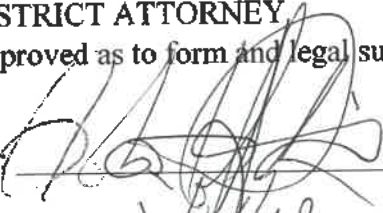
**SEMINOLE IMPROVEMENT DISTRICT**

By:   
Secretary

By:   
Scott Massey, President


Dated: 2/14, 2018

DISTRICT ATTORNEY  
Approved as to form and legal sufficiency

By:   
Date: 2/14/18

ATTEST:

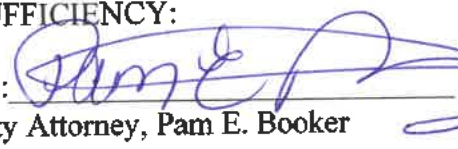
**CITY OF WESTLAKE, FLORIDA**  
**BY ITS CITY COUNCIL**


Clerk \_\_\_\_\_  
By:   
Clerk, Sandra DeMarco

By: \_\_\_\_\_  
Roger Manning, Mayor

Printed Name: \_\_\_\_\_ Dated: \_\_\_\_\_, 2018

APPROVED AS TO FORM AND LEGAL  
SUFFICIENCY:

By:   
City Attorney, Pam E. Booker

By:   
District Attorney, Robert P. Dillenderfer

APPROVED AS TO TERMS AND CONDITIONS

By:   
Ken Cassel, District Manager

By:   
Ken Cassel, City Manager

# REDLINED COPY

Showing changes since  
transmittal

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# ADMINISTRATIVE

2018



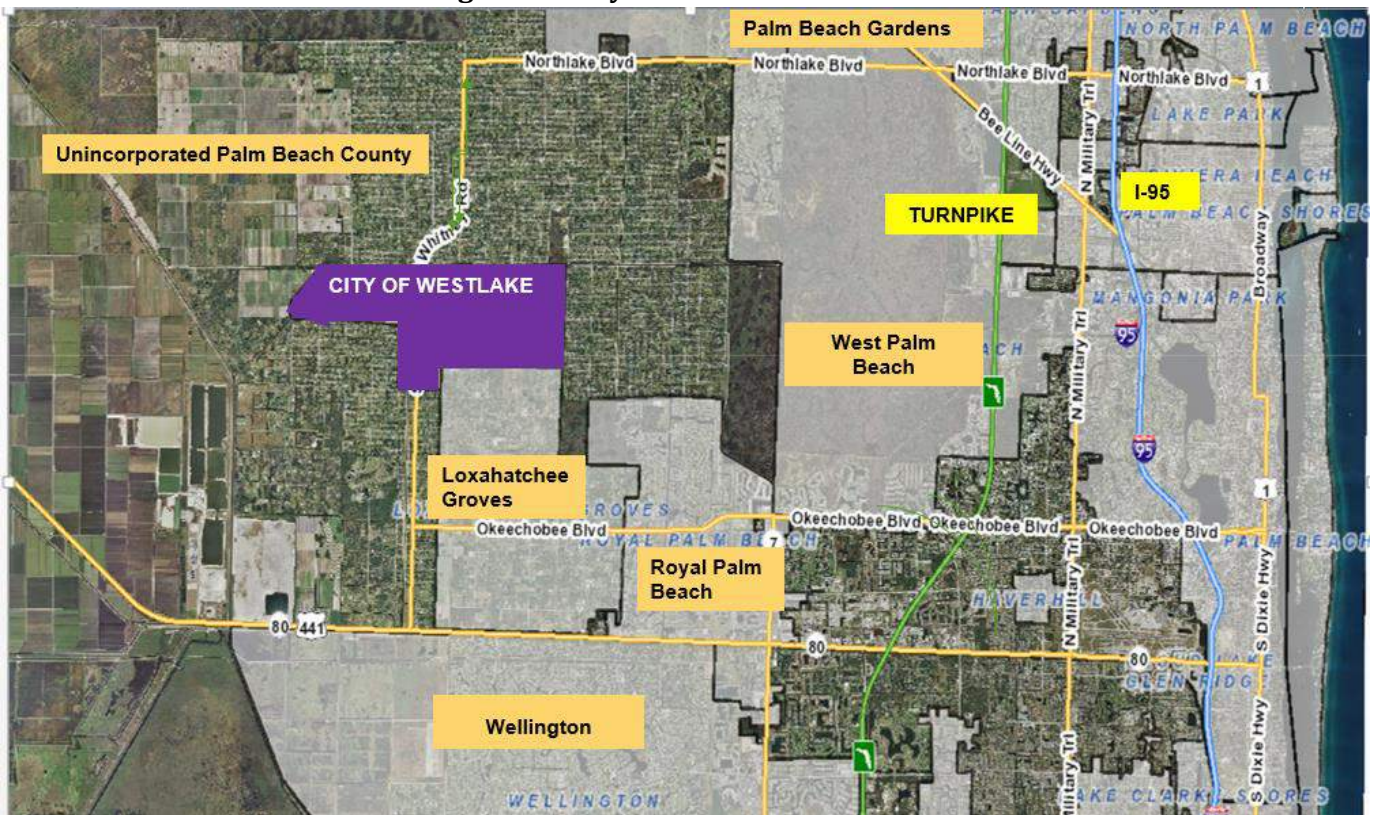
# CHAPTER 1. ADMINISTRATIVE ELEMENT DATA AND ANALYSIS

## INTRODUCTION

### Location

The City of Westlake, ~~which is referred to throughout this Comprehensive Plan as~~ (the “City,”) is located in central Palm Beach County, northwest of the Village of Royal Palm Beach and north of the Village of Wellington and the Town of Loxahatchee Groves. The main access route to the City is Seminole Pratt Whitney Road from either State Road 80 (Southern Boulevard) or Okeechobee Boulevard from the south, or Northlake Boulevard from the north. The City is surrounded by the unincorporated area known as the Acreage, the Town of Loxahatchee Groves, and a small area of agricultural lands to the west. Some of the land to the west of the City has recently been approved for low-density development by Palm Beach County, including Indian Trails Grove. The land comprising the City has been described as the “hole in the donut” in as much as it is a large, undeveloped parcel surrounded by a sprawling development pattern. Figure 1.1 below illustrates the City’s location.

Figure 1.1 City of Westlake Location







## History of Incorporation

The City is coextensive with the Seminole Improvement District (SID), which was established in 1970 pursuant to Chapter 70-854, Laws of Florida, codified pursuant to Chapter 2000-431, Laws of Florida. SID is an independent special purpose government formerly known as the Seminole Water Control District, and consists of approximately 4,142.7 acres of land.

SID is empowered to construct and maintain a number of public works and utilities including water, sewer, drainage, irrigation, water management, parks, recreation facilities, roadways and/or related activities. The majority of the property located within the SID boundary is comprised of the former Callery-Judge Groves property (CJG), which includes roughly 3,788 acres used for active agriculture for over 50 years. The boundary also includes a separate agricultural area known as the Silverlake property, a utility site and a packing plant. In addition, three school sites and a small shopping center site lie within the SID boundary.

In 2016, the City was incorporated pursuant to Section 165.0615, Florida Statutes.

## Legal Authority and Purpose

This Plan was developed in compliance with Florida's Community Planning Act, Chapter 163, Florida Statutes, which provides legal standards and guidance to local governments on comprehensive planning. The City's Land Development Regulations and all development orders shall be consistent with the Plan.

The Plan establishes meaningful and predictable standards for the use and development of land and provides meaningful guidelines for the content of more detailed Land Development Regulations and use regulations. The Land Development Regulations that will be adopted within one year of the adoption of this Plan will contain more specific regulations and requirements to implement the Plan and control land development within the City. The statute requires that the Plan guide growth to the directed ends, but while also recognizing private property rights and allowing the operation of real estate markets to provide adequate choices.

The Plan is used to address specific growth management issues. Importantly, however, the Plan is not only a regulatory tool to guide growth, but it is a means to achieve community goals. The overall purpose of this Plan is to guide the City in achieving a desirable vision of the future.

## Content and Structure of the Plan

The Comprehensive Plan, or "Plan," is a tool for directing growth and development within the City. The comprehensive plan addresses various aspects of future development through a coordinated group of plan elements. These elements address nine subjects: Administration, Future Land Use, Transportation, Infrastructure, Capital Improvements, Housing, Conservation, Recreation and Open Space, and Intergovernmental Coordination. The goals, objectives, and policies of the Future Land Use Element, along with the Future Land Use Map (FLU Map 2.1), describe the types of land uses, the related densities and intensities, and direct the location of development in the City. The Future Land Use Element is both enabled and restricted by the other elements of the Plan, including the Transportation, Infrastructure, Housing,



~~Conservation and Open Space and Recreation Elements~~, which address transportation, infrastructure, conservation, recreation and open space, and housing planning goals, ~~among other things, necessary public facilities such as transportation and infrastructure, and development goals such as affordable housing and the discouragement of urban sprawl~~. The Plan also includes a Capital Improvements Element to plan for the provision of public facilities necessary to serve development anticipated in the short and long term planning periods pursuant to the Future Land Use Map (FLU Map 2.1). ~~Finally,~~ The Intergovernmental Coordination Element addresses coordination with local, regional, and state entities. All elements of the Plan were developed in consideration of existing development, the availability of adequate facilities and services, and the character of the land and water resources on and surrounding the jurisdiction.

## PLANNING PERIODS

The Plan provides guidance on development over two planning periods: a short-term period beginning in 2018 and ending in 2023 and a long-term period ending in 2038. However, for the purpose of the Capital Improvements Element, which must be updated annually, the fiscal year, rather than the calendar year, is used. (For example, the short-term planning period ends FY 2022-23, rather than calendar year 2023).

## RELATED PLANS AND PROGRAMS

### Palm Beach County Comprehensive Plan

The land area located within the City has been the subject of several planning efforts in Palm Beach County over many decades. These studies were focused on addressing the long-standing land use imbalances of central ~~western~~ Palm Beach County, which is dominated by low density, poorly planned, single family residential development.

~~Some of the land to the west of the City has recently been approved for low-density development by Palm Beach County, including Indian Trails Grove. In its comprehensive plan,~~ Palm Beach County designated much of the Acreage surrounding the City with a future land use designation of 2.5 units per acre, even though the Acreage consists almost exclusively of previously subdivided 1.25 acre lots. Accordingly, the actual land use pattern in the area designated by Palm Beach County's Managed Growth Tier System as "Exurban" is twice as dense as the Tier designation would indicate. Land to the west of the City, known as Indian Trails Grove, has recently been approved for residential development by Palm Beach County

Several studies conducted by Palm Beach County over the years identified development of the former CJG property, which the City occupies today, for much needed non-residential uses to balance land uses in the region.

In 2014, Palm Beach County approved the development of a large mixed-use project on approximately 3,788 acres within the City. Commercial and residential development is currently underway pursuant to these approvals, which are now under the City's jurisdiction.



## Loxahatchee Groves Comprehensive Plan

The Town of Loxahatchee Groves became a municipality on November 1, 2006. The Town is the 38th municipality in Palm Beach County.

The Town aspires to be a rural community in the “midst of an urbanizing region” as stated in the “Vision for the Future of the Community” in the “Strategic Vision & Plan,” July, 2008. The Town’s Comprehensive Plan Future Land Use Element provides for a predominantly rural residential setting with the Rural Residential 5 future land use (1 dwelling unit per 5 acres) over-covering the majority of the Town. Future commercial development is limited to the southern perimeter of the Town along the Southern Boulevard corridor, which further supports the need for a commercial center in the City to balance the regional land use pattern.

## Seminole Improvement District

The City is coextensive with the jurisdiction of the Seminole Improvement District (SID.) Pursuant to the City charter, the City may not duplicate services provided by SID. The cooperative relationship between the City and SID for provision of those services and facilities is detailed in thean Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 (“SID-Westlake Interlocal”), while SID’s specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan, Seventh Amended, dated October 13, 2015 and its Water, Wastewater and Reuse Utilities Master Plan dated April 29, 2015.

## Indian Trail Improvement District

The Indian Trail Improvement District (ITID) is an Independent Special District with jurisdiction over most of the Acreage of properties lying north, south, and east of certain portions of the City. ITID is empowered to, among other things, construct, operate, and maintain works for drainage, water control purposes, and irrigation, and to construct and maintain road ways, natural gas facilities, recreation facilities, and related infrastructure.

## Palm Beach County School District

Three Palm Beach County Public Schools – Golden Grove Elementary School, Western Pines Middle School, and Seminole Ridge High School, - lie within the boundaries of the City. Two additional schools – Osceola Creek Middle School and Frontier Elementary School - are north of the City, and Loxahatchee Grove Elementary School lies to the south. Currently, students from the City are zoned to attend Gold Grove Elementary and Seminole Ridge High School within the City’s boundaries. At the time of adoption of this Plan, no students within the City are zoned for Western Pines Middle School, but students are zoned for Osceola Creek Middle School, not Western Pines Middle School.

## Intergovernmental Plan Amendment Review Committee (IPARC)

The Intergovernmental Plan Amendment Review Committee, or “IPARC” was formed to establish a comprehensive plan amendment coordinated review process in Palm Beach County. A procedure for the



coordination of proposed plan amendments was also adopted, including cooperation between affected local governments and service providers. Service providers include some special districts that provide infrastructure services and the School District of Palm Beach County. This process provides opportunities to prevent and resolve potential disputes with minimum overlap or duplication of other existing processes within each participating entity, and aims for an expedited and simplified resolution.

## PLAN VISION AND GUIDING PRINCIPLES

~~Developing a city at this location.~~ The Plan addresses the need to balance the urban sprawl of the surrounding area with the provision of adequate non-residential uses, ~~at a central location~~, with the appropriate residential mass to make the city functional and sustainable in the long term. A sustainable community works to use its resources to meet current needs while ~~considering providing~~ that adequate resources are available for future generations.

The Vision and Guiding Principles of the Plan embrace the following **sustainable community** concept: *An urban area with a long term planning and management vision that incorporates a multi-modal transportation network; walkable, mixed use patterns of development; denser development where infrastructure exists; civic spaces and interconnected open spaces for recreation; economic vitality and job choices; choices in housing price and size; a ~~robust-quality~~ educational system; and a unique identity.* The City’s sustainable community concept serves as an umbrella under which all the elements of the Plan are developed.

The Plan is based on data and analysis which includes a vision and guiding principles that provide the general outline for a sustainable community. The adopted provisions of the Plan establish the specific and measurable objectives, policies, and maps that translate the sustainability community concept into an operational plan that can be used to effectively direct growth.

The City’s Vision and Guiding Principles describe the future of the City in aspirational terms and are not adopted components of the Plan, but serve to guide the development of the adopted goals, objectives, and policies of the Plan.





## Vision for the City

The City will be a vibrant, desirable and welcoming place to live, work and play. The City will support mixed uses and promote safe neighborhoods with access to thriving business districts, employment centers, schools, parks and open spaces. The City will create incentives to promote the development of diverse housing, and will offer public open spaces. An emphasis on the development of complete streets will promote multi-modal transportation opportunities. The City's plans and policies will embrace public participation, encourage a sustainable community, and stimulate a vibrant economy.

## The City's Guiding Principles

### Build City Character and Identity

The City will promote economic development and provide for attractive public spaces through the coordination of building architecture, site design, and streetscape improvements.

### Balance the Central Communities in Palm Beach County

The development of the City will include commercial, employment, and recreational opportunities to help alleviate the existing urban sprawl pattern of development that currently exists in central Palm Beach County.

### Promote Mixed-Use Corridor

The Downtown Mixed-Use Category is important to the development of the City as a center of commerce, employment, and services. Activity Neighborhood centers, which will vary in scale, use, and intensity, will be developed within walking distance of residential neighborhoods to provide accessible and convenient opportunities to work, shop, and participate in civic life.

### Emphasize Housing Diversity and Livable Neighborhoods

A variety of housing choices will be provided to accommodate a diverse range of residents at varying income levels and at all stages of life, including young adults, families, non-family households, empty nesters, retirees, and seniors. Housing opportunities will include small lots, multi-family housing, and live-work units, in addition to the traditional large, single family homes. Neighborhood commercial centers will offer convenient and walkable amenities to residents by providing retail and service facilities.

### Grow A Vibrant Economy

The City will work towards becoming a Sustainable Community with an environmentally, socially, and economically healthy and resilient habitatCity for existing and future populations. A healthy and sustainable business environment will be promoted through investment in efficient infrastructure, the provision of incentives, and by fostering development of a community that is attractive to employers and their workers. The Plan will seek to enhance the City's competitive advantage and to attract high quality companies, entrepreneurs, and knowledge-based businesses to the area.



### Promote Complete Streets, Transportation Choice and Mobility

A safe, reliable, and integrated transportation system that ~~includes~~ supports multiple modes of transportation including walking, biking, ~~public mass~~ transit, and motor vehicles will be encouraged within the City. Investment in the transportation system should promote multi-modal travel solutions, especially in the Downtown Mixed-Use Category, around schools, and between neighborhoods, ~~and along the gateway corridors~~.

## ADOPTED PROVISIONS

The Plan is comprised of the following nine elements, ~~and~~ a Map Series, and a 5-Year Schedule of Capital Improvements.

- Chapter 1 Administrative Element
- Chapter 2 Future Land Use Element
- Chapter 3 Transportation Element
- Chapter 4 Infrastructure Element
- Chapter 5 Conservation Element
- Chapter 6 Recreation and Open Space Element
- Chapter 7 Housing Element
- Chapter 8 Capital Improvements Element
- Chapter 9 Intergovernmental Coordination Element

The Goals, Objectives and Policies (GOPs) within each element, ~~and~~ the Map Series, and the 5-Year Schedule of Capital Improvements are adopted as part of the Plan. Maps within the Map Series are identified by the element, chapter number and the map number (i.e. FLU Map 2.1). The Data and Analysis summarized for each element in a separate volume is not formally adopted, but supports the GOPs, 5-Year Schedule of Capital Improvements, and the maps in the Map Series. Additional data and analysis documentation is available at the City.

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

## FUTURE LAND USE

2018



## CHAPTER 2. FUTURE LAND USE ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Future Land Use Element and Future Land Use Map is to guide the future growth and development of the City. The Future Land Use Map (FLU Map 2.1) designates the distribution, general location, extent, density, and intensity of land uses. The Future Land Use Element includes adopted Goals, Objectives, and Policies that govern the development of land depicted on the Future Land Use Map consistent with the City's Vision, Guiding Principles and the other elements of the Comprehensive Plan.

### POPULATION PROJECTIONS

Chapter 163.3177(1)(f)3, F.S., requires local government comprehensive plans to be based upon permanent and seasonal population estimates and projections, which shall either be those published by the Office of Economic and Demographic Research (OEDR) or generated by the local government based upon a professionally acceptable methodology. The OEDR issues the projections generated by the Bureau of Economic and Business Research (BEBR). BEBR makes permanent population projections for counties, but not for municipalities or unincorporated areas. Neither OEDR nor BEBR make seasonal population projections.

Projections are provided for the short term and long term planning periods. Projections are used to plan for the impacts of development, envision how Westlake will develop over the course of these planning periods, and develop the plan to achieve planning goals and objectives. The plan does not dictate the exact timing of development and population projections do require development to occur at a certain amount or rate. Further, the rate of development may speed up or slow down depending on economic conditions.

Projections are an important part of planning but are not the sole determining factor for the development of a Plan. Projections should not be misused to unnecessarily constrain operation of the plan or preclude the achievement of important planning goals. Also, the Community Planning Act in Florida Statutes states that: "The amount of land designated for future land uses should allow the operation of real estate markets to provide adequate choices for permanent and seasonal residents and businesses and may not be limited solely by the projected population."

The development of Westlake will occur over the course of many years. A likely scenario is that development will proceed at an uneven rate, some years faster and some years slower. Thus, projections for multi-year planning periods are useful for planning purposes. The purpose of Land Development Regulations is to manage the variability of the amount and rate of development to assure consistency with the comprehensive plan and the timely provision of adequate infrastructure.

The implementation of the plan and the development process are monitored. From time to time, projections,





## City of Westlake Comprehensive Plan

as well as plan policies, will require revision. This is a normal and expected aspect of the planning process. The Westlake Plan establishes policies for this monitoring, evaluation, and amendment process.

Palm Beach County uses the BEBR medium permanent population projection to compute a projection for the unincorporated county. The total county BEBR projection is geographically divided and allocated to small geographic areas called Traffic Analysis Zones (TAZs). There are over 1,700 TAZs in Palm Beach County. The TAZs in each municipality and in the unincorporated area are then combined to make projections for each municipality and the unincorporated area. The allocation of population to each TAZ is based upon the projections of dwelling units in each TAZ as well as other demographic factors such as vacancy and seasonal rates. The latest population projection and allocation for Palm Beach County was conducted in 2015, prior to the incorporation of the City (2015 Palm Beach County Population Allocation Model (2015-PBC-PAM).)

Palm Beach County's population grew from 1,131,184 in 2000 to 1,320,134 in 2010 (U.S. Census 2000 DP-1 and 2010 DP-1). During this decade, the County population grew by 16.7%, averaging 18,895 people each year. The population change during this decade was very uneven, reflecting both population booms and busts due to both local and national economic conditions. Unincorporated Palm Beach County grew 12.7% averaging 6,600 people each year (BEBR Census Summary 2010). BEBR's latest population estimate for 2016 2017 is 1,414,246 1,391,741, representing an increase of 71,607 94,010 persons since 2010, which included an estimated increase of about 22,400 persons from 2016 to 2017. The county's population has grown each year since 2010. The County is projected to increase its population by 343,359 345,856 persons between 2017 6 and 2040, a 24.5 25% increase (BEBR FPS 180 77). Table 2.1 shows the latest BEBR projections through 2040 as well as the projections used in the 2015-PBC-PAM. The latest BEBR medium projections published in 2018 7 for the year 2035 is are 25,000 1,000+ persons higher than the previous BEBR medium projections relied upon by Palm Beach County in the 2015- PBC-PAM. The 2018 BEBR medium population projection is higher for every five year increment from 2020 to 2045 than the previous year's BEBR projection. This substantially higher medium projection increases the projected demand for housing units in Palm Beach County over the course of the Westlake long term planning period.



**Table 2.1: Palm Beach County Population Projections**

	<u>2010 Census</u>	<u>20162017</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>	<u>2035</u>	<u>2040</u>
<u>BEBR FPS-177180</u>	<u>1,320,134</u>	<u>1,391,741</u> <u>111</u>	<u>1,465,900</u> <u>1</u>	<u>1,550,600</u> <u>1</u>	<u>1,619,100</u> <u>1</u>	<u>1,679,700</u> <u>1</u>	<u>1,735,100</u> <u>1</u>
<u>2015-PBC-PAM Projections</u>			<u>1,463,900</u>	<u>1,543,200</u>	<u>1,615,100</u>	<u>1,678,700</u>	<u>Not Available</u>

	<b>2010 Census</b>	<b>2016</b>	<b>2020</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>
BEBR FPS-177	1,320,134	1,391,741	1,465,900	1,550,600	1,619,100	1,679,700	1,735,100
Annual Increase		11,935	18,540	16,940	13,700	12,120	11,080
2015-PBC-PAM Projections			1,463,900	1,543,200	1,615,100	1,678,700	Not Available

Source: University of Florida Bureau of Economic and Business Research, Population Projections (FPS 1~~8077~~), U.S. Census Bureau, 2010 Decennial Census, DP-1, 2015-PBC-PAM

The TAZs associated with the City and the surrounding area are shown in Figure 2.1. The 2015-PBC-PAM allocated 4,546 dwelling units associated with the Minto West plan amendment to four TAZs (#1593, #864, #1058, and #1079) for year 2030. As these dwelling units were associated with a specific development approval, no dwelling units were allocated to those portions of the City ~~that~~ which are outside of the Minto West development area. The areas within the City ~~that~~ which received no allocation of dwelling units include the 119-acre Silverlake property, the 10-acre Grove Marketplace, and the 27-acre packing plant parcel. The Plan allows residential development to occur in each of these areas. The larger geographic area where residential development may now occur, the longer extended planning timeframe to 2038 instead of 2030, and the increased 2018 BEBR medium county population projections, which shows 25,000 more persons than assumed in the 2015-PBC-PAM, supports additional development opportunities for dwelling units and associated population. Therefore, the City projects 6,500 units by the year 2038, which corresponds to the long-term planning period. This reflects a generally steady growth rate and considers growth trends in nearby cities. The densities established in the Future Land Use Element will accommodate the increase in dwelling units.

The 6,500 dwelling units are converted to permanent household population as follows. First, the total number of housing units is converted to an estimate of occupied housing units by subtracting units anticipated to be vacant or used for seasonal residents. Second, occupied housing units are converted to household population by applying an average population per household rate (PPH). PPH, vacancy rates, and seasonal housing rates are based upon the surrounding Census County Divisions (CCDs) which have population characteristics expected to be more comparable to the City than the county as a whole. These CCDs are located in the central portion of Palm Beach County between the eastern coastal communities and



## City of Westlake Comprehensive Plan

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the western areas. Specifically, the City PPH, vacancy rate and seasonal rate are averages derived from the Royal Palm Beach-West Jupiter, Western Community, and Sunshine Parkway CCDs from the 2010 US Census. Figure 2.2 shows the boundaries of the CCDs. The vacancy rate used for the City is 7.45 percent. The seasonal rate is 5.85 percent. The PPH is 2.65. These rates are kept constant for the planning periods.



Figure 2.1: Traffic Analysis Zones Map

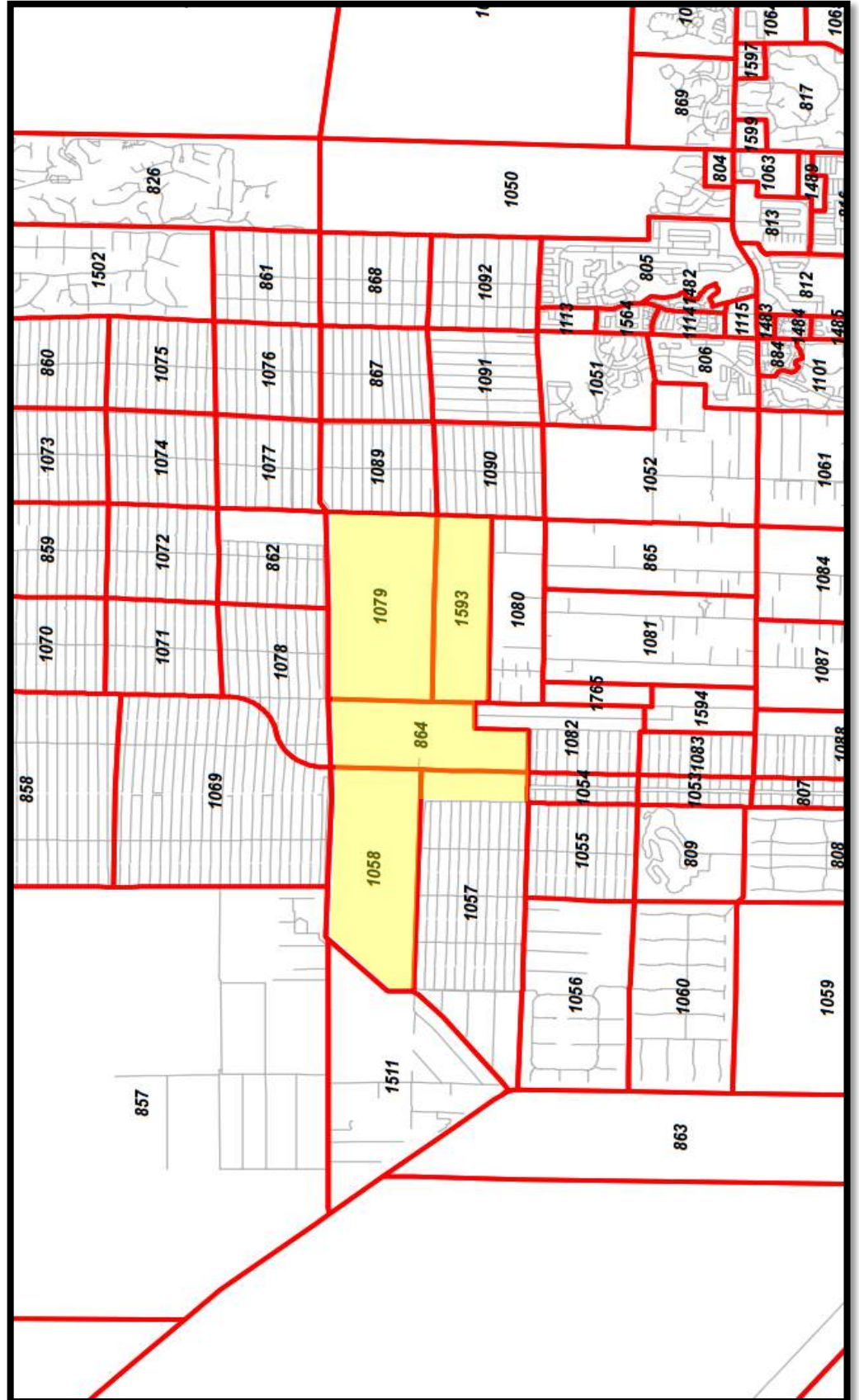
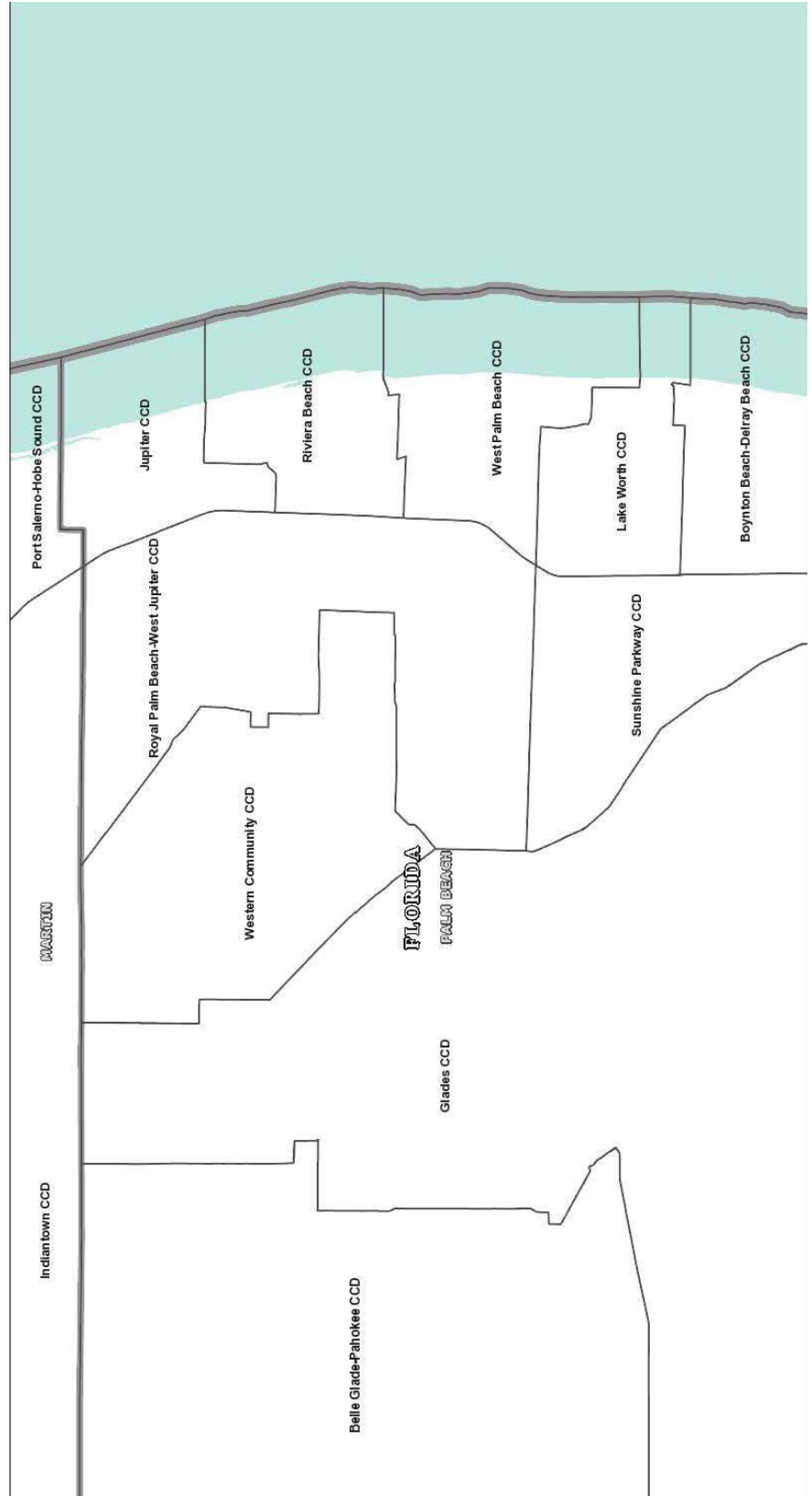




Figure 2.2: 2010 Census County Divisions (CCDs)

Palm Beach County Subdivisions





In addition to the permanent household population, some persons may live in group quarters (e.g. nursing homes.) The percent of permanent population expected to live in group quarters is zero in year 2023. However, a group quarters population is projected for 2038 by using the average group quarters rate from the same surrounding CCDs. The average group quarters rate is 0.642% which equates to 96 persons in 2038.

The permanent population estimate for 2018 and projections for years 2023 and 2038 are provided in Table 2.2A based on the anticipated development of housing units and assumptions for group quarters populations.

Table 2.2A: City Permanent Population Projections

Year	Total Housing Units	Permanent Population	Group Quarters Population	Population
2018	150	298	0	298
2023	1,575	3,619	0	3,619
2038	6,500	14,934	96	15,030

The seasonal population projection is based on the seasonal housing rate of 5.85% of projected housing units as well as the plan for a 150-room hotel. An estimate of 2 persons per seasonal house or hotel room is assumed. The seasonal projection is shown in Table 2.2B below.

Table 2.2B: City Seasonal Population Projections

Year	Housing Population	Hotel Population	Total Seasonal
2018	0	0	0
2023	184	300	484
2038	761	300	1,061

The total population projection, consisting of both permanent and seasonal residents is shown in Table 2.3. [These numbers were used for purposes of analyzing public infrastructure needs in the short and long term planning periods.](#)

Table 2.3: City Total Population Projection

Year	Permanent Population	Seasonal Population	Total Population
2018	298	0	298
2023	3,619	484	4,103
2038	15,030	1061	16,091



## ANALYSIS OF LAND NEEDED TO ACCOMMODATE THE PROJECTED POPULATION

### Residential Analysis

Table 2.4 shows the estimated acreage for each of the land use categories.

**Table 2.4: Future Land Uses**

<u>Future Land Use</u>	<u>Total Acreage</u>	<u>Acreage Excluding ROW</u>	<u>% of Total Area (based on Acreage Excluding ROW)</u>
<u>Residential-1</u>	<u>1,920</u>	<u>1,875</u>	<u>46.9%</u>
<u>Residential-2</u>	<u>1,363</u>	<u>1,301</u>	<u>32.5%</u>
<u>Downtown Mixed-Use</u>	<u>593</u>	<u>563</u>	<u>14.1%</u>
<u>Civic</u>	<u>187</u>	<u>185</u>	<u>4.6%</u>
<u>Open Space and Recreation*</u>	<u>79</u>	<u>77</u>	<u>1.9%</u>
<u>Total</u>	<u>4,142**</u>	<u>4,001**</u>	<u>100%**</u>

*\*A portion of the residential area will be allocated for open space and recreation.*

*\*\*Approximately 141 acres in the City, which is approximately 3% of the City, consists of existing ROW. The land underlying the existing ROW cannot be developed.*

*NOTE: The acreage numbers reflected in the table have been rounded to the nearest whole number.*

The density provided for in the Residential (1 & 2) categories established by policy in this Element and shown on the Future Land Use Map (FLU Map 2.1) will more than accommodate the projected population. In addition, the density provided in Residential categories will permit development of a variety of types of housing to accommodate all affordability levels in balance with requirements in the Plan that necessary infrastructure be provided to serve development.

### **NON-RESIDENTIAL ANALYSIS** **Non-Residential Analysis**

Within the central area of the County surrounding the City, there is an extensive area of residential development, limited amount of commercial (office and retail) uses, and virtually no existing industrial or employment uses. Currently, existing and approved non-residential uses, which total approximately 389,000 square feet, can be found at the intersection of Seminole-Pratt Whitney Road and Orange Boulevards, the Grove Market on Seminole-Pratt Boulevard, and throughout Loxahatchee Groves. Figure 2.3 shows the scant amount of non-residential development in a five-mile zone surrounding the City and illustrates the imbalance of residential and nonresidential land uses surrounding the City. Additionally, the Loxahatchee Groves Plan directs all future commercial development to the Southern Boulevard corridor which is the farthest removed from the City.

**Figure 2.3: Development Surrounding the City.**



# Development Surrounding Westlake

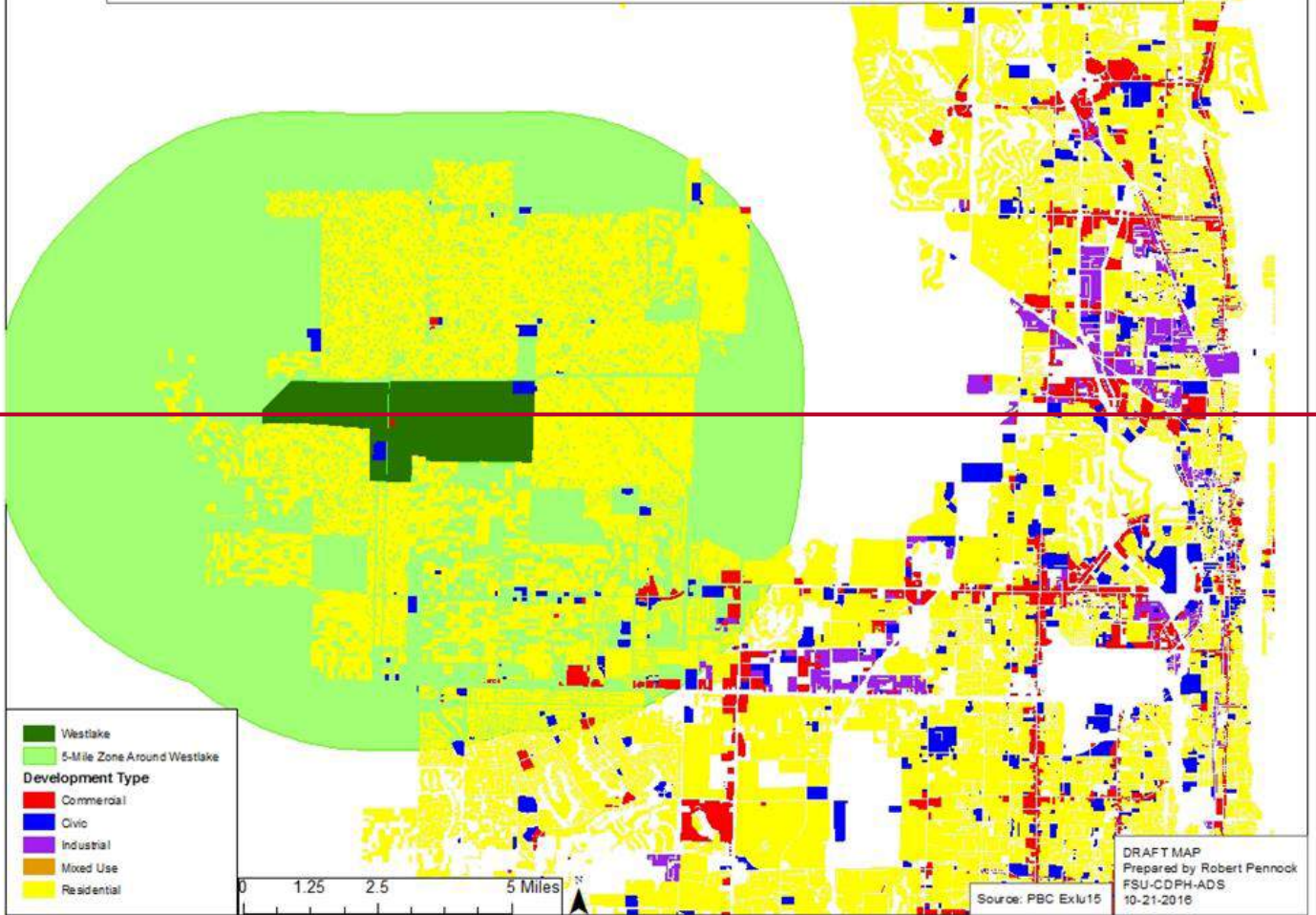
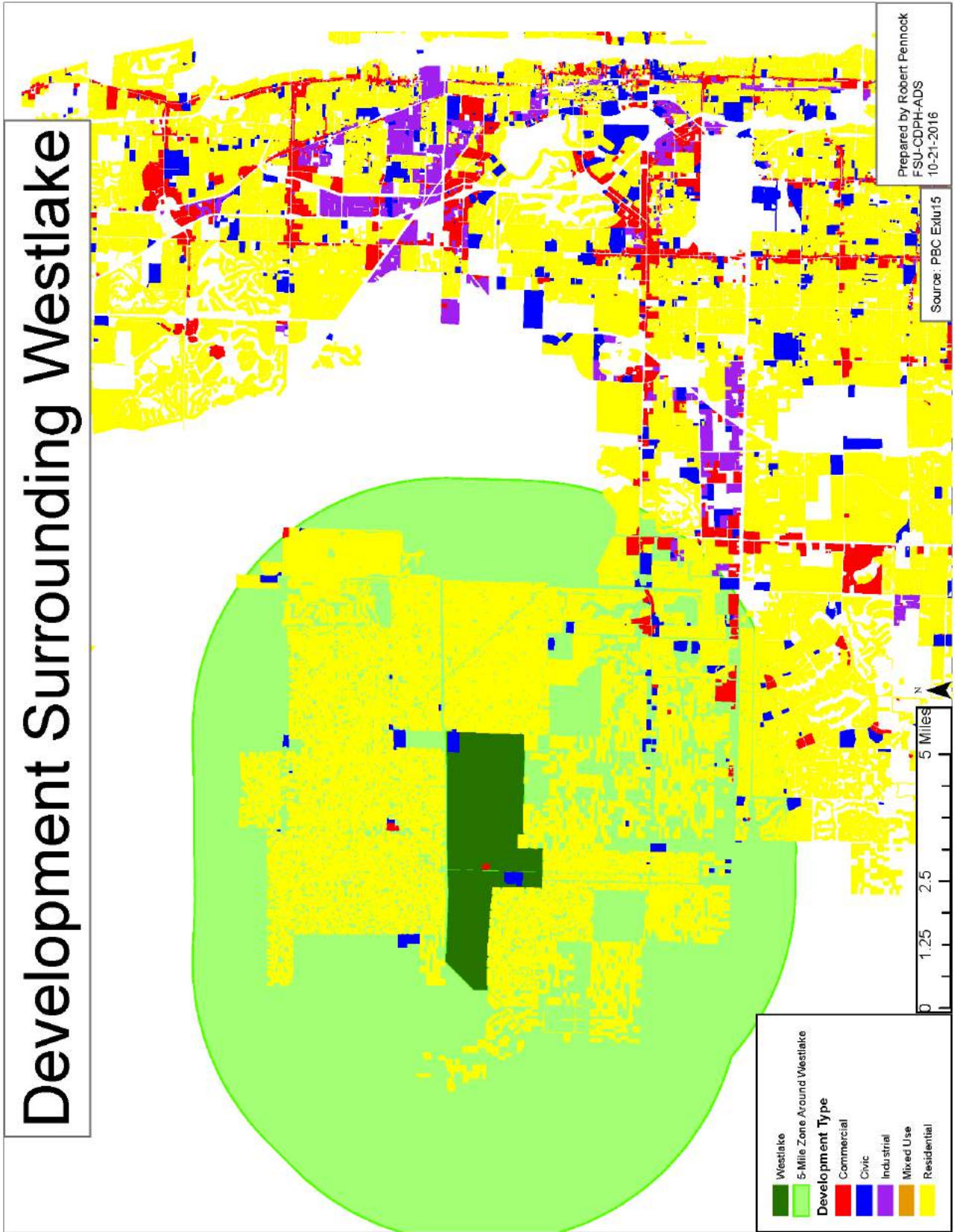




Figure 2.3: Development Surrounding the City.





The imbalance of residential and nonresidential land uses in the surrounding area and how Westlake may serve to mitigate that imbalance may be examined through the use of hypothetical development scenarios. The scenarios consider how much nonresidential use is needed and potentially feasible to serve residential. This is done by calculating nNon-residential land use demand is based on the ratio of number of square feet of non-residential use per capita. In the absence of data for the City planning jurisdiction, average ratios for Palm Beach County were calculated based on actual 2015 data for Palm Beach County and were then applied to the projected population of the City for the long term planning period.

The City of Westlake Comprehensive Plan provides for increased amounts of non-residential, which will serve the City and which will also contribute to balancing the deficit in the surrounding area as shown in Table 2.4. The development scenario described in Table 2.4 is not the plan's projection of non-residential uses for the long term planning period. For those purposes, in addition to existing nonresidential uses, the City estimates 2.2 million square feet of nonresidential uses, a 3,000 student college and a 150 room hotel to develop through 2038. In the short term planning period, it is expected that approximately 650,000 square feet of nonresidential uses and a hotel will develop. As indicated in Table 2.4, there is sufficient land for nonresidential uses to serve the projected population through the long term planning period.

With regards to transportation impacts outside of Westlake, an increase in nonresidential within Westlake, will serve the surrounding communities (particularly north of SR 80, east of SR 7, and south of Northlake Boulevard) and will likely redirect travel in different directions to and from Westlake, potentially contributing to a reduction in traffic volumes generally heading eastward on those state roads.

An analysis of existing and potential commercial development in the five-mile area surrounding the City shows a substantial deficit of square footage of non-residential uses to serve the projected population for the surrounding region in 2038, as shown in Figure 2.3. Since 2015, Palm Beach County has adopted other land use changes in the general area including Indian Trails Grove, which includes low-density residential and small amounts of commercial which further contribute to the imbalance of land uses in the area. Indian Trail Grove does not provide for industrial or employment development. This regional deficit can be substantially offset by potential development in the City as shown in the Tables 2.4 and 2.5 below.

Importantly, tThe nonresidential development amounts are hypothetical and merely shown what could occur beyond the long term planning period as the City continues to mature as a sustainable center for commerce, employment, and civic activities. Any increased amounts of nonresidential development above that used to determine impacts for the 2038 period would require further analysis, plans, and actions to ensure the adequate infrastructure can be provided, including transportation facilities.



**Table 2.45: Non-Residential Demand and Potential Surplus Supply Scenario**

Land Use	City Demand for Long Term Planning Period		Downtown Mixed-Use Supply Scenario			
	Average County Square Feet Per Capita	Square Footage Demand Based on Average County Square Feet Per Capita	Percent of Downtown Mixed-Use Acreage*	Average FAR*	Square Footage Supply In Downtown Mixed-Use*	Surplus Square Footage Available in Downtown Mixed-Use to Serve Deficit in Surrounding Area
Commercial*	120.9	<del>1,816,479</del> 1,804,876	40%	1.0	<del>7,232,702</del> 6,683,846	<del>5,427,826</del> 4,878,970
Industrial	39.4	<del>591,853</del> 588,073	15%	1.0	<del>2,712,263</del> 2,506,442	<del>2,124,191</del> 1,918,370
Civic*	49.1	<del>737,319</del> 732,610	16%	1.0	<del>2,893,081</del> 2,673,539	<del>2,160,471</del> 1,940,929

\*Notes:

Civic includes education.

Commercial includes office, hotels, and medical facilities, uses such as hospitals and medical offices

Data Sources: 2015 Palm Beach County Exlu GIS, 2015 Palm Beach County Population Allocation Model, City of Westlake Comprehensive Plan, Palm Beach County Comprehensive Plan.

The maximum FAR in Downtown Mixed-Use is 3.0. ~~This~~ These calculation assumes an average FAR of 1.0 and the mid-point of allowable acreage percentages and after netting out 30% for road and canal right of way and other non-developable areas.

The square footage supply in downtown mixed use is based upon a set of assumptions regarding demand for nonresidential and potential development of nonresidential. However, as indicated in the text, the amounts of nonresidential development provided in this scenario is contingent upon the operation of the plan as a whole, including the provision of adequate infrastructure and transportation to serve such uses.

Data Sources: 2015 Palm Beach County Exlu GIS, 2015 Palm Beach County Population Allocation Model, City of Westlake Comprehensive Plan, Palm Beach County Comprehensive Plan.

## **ANALYSIS OF LAND NEEDED TO ACCOMMODATE PROJECTED POPULATION**

The Residential (1 & 2) and Downtown Mixed-Use Future Land Use categories established by policy in this Element and shown on the Future Land Use Element Map (FLU Map 2.1) will accommodate the projected population. Table 2.5 shows the estimated acreage for each of the land use categories.



~~An analysis of existing and potential commercial development in the five-mile area surrounding the City shows a substantial deficit of square footage of non-residential uses to serve the projected population for the area in 2035, as shown in Figure 2.3. This deficit can be substantially offset by potential development in the City as shown in the table below:~~

**Table 2.6: Demand for Commercial in 5-Mile Area Surrounding the City for 2035 (Excluding the City)**

Land Use	Average County Sq. Ft. per Capita	Sq. Ft. Demand Based on Avg. County Sq. ft. per Capita	Existing and Potential Future Sq. Ft. w/in 5-mi Perimeter	Deficit w/in 5-mi Perimeter	City Downtown Mixed-Use Sq. Ft. Available in Downtown Mixed-Use to serve Deficit in Surrounding Area	% of Commercial Demand Deficit of Surrounding 5-mile Area Served by the City
Commercial	120.9	16,180,195	6,687,881	9,492,315	<del>5,416,224</del> <b>4,878,970</b>	<del>57</del> <b>71</b> %
Project Population for Area is:		133,879				

Data Sources: 2015 Palm Beach County Exlu GIS, 2015 Palm Beach County Population Allocation Model, Palm Beach County Comprehensive Plan and Loxahatchee and Royal Palm Beach Comprehensive Plans.

~~Since 2015, Palm Beach County has adopted other land use changes in the general area including Indian Trails Grove, which includes low-density residential and small amounts of retail/office commercial which further contribute to the imbalance of land uses in the area. Indian Trail Grove does not provide for industrial or employment development. The City will help to mitigate this newly created imbalance.~~

## JOB CREATION, CAPITAL INVESTMENT, AND ECONOMIC DEVELOPMENT

~~The Future Land Use Element accommodates the previously approved Minto West development as well as allowing for additional future long-term development.~~ By providing for significant development of commercial, ~~office, medical~~, civic, educational, and light industrial uses, the Future Land Use Element of the Plan provides opportunities for job creation, capital investment, and economic development. The non-residential development envisioned and encouraged by the Plan will serve to remediate the existing urban sprawl pattern and the current scarcity of non-residential uses throughout the central ~~western~~ communities of Palm Beach County.

## EXISTING AND FUTURE LAND USE CONDITIONS

### Existing Land Use

~~The City is located approximately two miles north of Okeechobee Boulevard, west of 140th Avenue North, and south of 60th Street North in Palm Beach County. Seminole Pratt Whitney Road bisects the property located within the city limits. The City boundary is approximately two miles in its longest north-south dimension and five miles in its longest east-west dimension.~~



**City of Westlake Comprehensive Plan**

The majority of the lands located within the City are agricultural fields (improved pasture, row crops, active citrus groves, tree nurseries and fallow or vacant crop land), which include an extensive system of agricultural irrigation ditches and surface water conveyances. ~~The M-Canal abuts the northwest and north boundary of the City, while the M-2 Canal runs north-to-south through the City. Built parcels Existing development within the City includes a shopping center, elementary school, middle school, high school, agricultural packing plant, and some small commercial and civic uses near the packing plant. Table 2.7 provides acreage estimates for the existing land uses. FLU Map 2.2 shows the existing uses. utility site, packing plant, shopping center, and three schools (an Elementary, Middle and High School).~~

**Table 2.7 Existing Land Uses**

<u>Existing Land Use</u>	<u>Acreage</u>	<u>% of Total Area</u>
<u>Agricultural</u>	<u>3,974</u>	<u>95.9%</u>
<u>Residential in Development*</u>	<u>109</u>	<u>2.6%</u>
<u>Commercial in Development*</u>	<u>75</u>	<u>1.8%</u>
<u>Recreation in Development*</u>	<u>18</u>	<u>0.4%</u>
<u>Civic</u>	<u>7</u>	<u>0.2%</u>
<u>Commercial</u>	<u>13</u>	<u>0.3%</u>
<u>Educational</u>	<u>124</u>	<u>3.0%</u>
<u>Industrial</u>	<u>23</u>	<u>0.6%</u>
<u>Utility</u>	<u>1</u>	<u>0.0%</u>
<u>Total</u>	<u>4,142</u>	<u>100.0%</u>

\*Note: The areas noted as “in Development” are included in the Agricultural Land Use total and thus not included in the Total calculation.

**Table 2.7: Existing Land Uses**

<u>Existing Land Use</u>	<u>Acreage</u>	<u>% of Total Area</u>
<u>Agriculture</u>	<u>3,900</u>	<u>94%</u>
<u>Commercial</u>	<u>49</u>	<u>1%</u>
<u>Educational</u>	<u>118</u>	<u>3%</u>
<u>Recreation / Open Space</u>	<u>0</u>	<u>0%</u>
<u>Residential Single Family</u>	<u>55</u>	<u>1%</u>
<u>Vacant</u>	<u>0</u>	<u>0%</u>
<u>Right-of-way</u>	<u>5141</u>	<u>1%</u>
<u>Total</u>	<u>4,1427</u>	<u>100%</u>

\*Note: A portion of the existing agricultural lands are in the process of being developed. The approximate acreage amounts show for these uses are part of the 3,900 total acreage for agriculture.



## Future Land Use

The Future Land Use Element identifies land use designations and ~~permitted-allowed~~ development density and intensity coordinated with the topography and soil characteristics; the location of natural, cultural and historic resources; and the availability of public facilities and services within the City. The Future Land Use Element includes a Future Land Use Map (FLU Map 2.1) depicting the location of uses within the City’s jurisdictional limits.

### Future Land Use Categories

The future land use categories in the Future Land Use Element define the amount, type, density and intensity of future development that is allowed in a given location within the City. Each of the Plan land use categories shall be implemented by corresponding zoning districts in the Land Development Regulations. The Land Development Regulations will implement the Plan through more specific regulations governing ~~permitted-allowed~~ and conditional uses, site development standards, and performance criteria.

Each of the residential land use categories includes a range of allowable density. The maximum density defines the maximum number of dwelling units per gross acre that ~~development~~ can occur within the specific land use category.

Building intensity for nonresidential land uses are measured by floor area ratio (FAR). FAR is the ratio of total net floor area of a building to the total lot area. Where a mix of uses is required, as within the Downtown Mixed-Use, density and intensity shall be calculated using a combination of FAR and density. Residential density calculations will be based on the gross acreage and the non-residential portions will be based on FAR.

The future land use categories within the City ~~are follows:~~ are listed in Table 2.4 above.

**Table 2.8: Future Land Uses**

<b>Future Land Use</b>	<b>Total Acreage</b>	<b>Acreage Excluding ROW</b>	<b>% of Total Area (based on Acreage Excluding ROW)</b>
<b>Residential-1</b>	<u>1,920</u>	<u>1,875</u>	<u>46.95%</u>
<b>Residential-2</b>	<u>1,363</u>	<u>1,301</u>	<u>32.512%</u>
<b>Downtown Mixed-Use</b>	<u>593</u>	<u>563</u>	<u>14.1%</u>
<b>Civic</b>	<u>187</u>	<u>185</u>	<u>4.64%</u>
<b>Open Space and Recreation*</b>	<u>79</u>	<u>77</u>	<u>1.92%</u>
<b>Total</b>	<u>4,142**</u>	<u>4,001.127**</u>	<u>100%**</u>

~~\*A portion of the residential area will be allocated for open space and recreation.~~

~~\*\*An additional Approximately 14126 acres in the City, which is approximately 3% of the site City, consisting of existing ROW, is included in the overall property boundary, that is not accounted for within the Future Land Use designations acreage used for calculations, because tThe land underlying the existing ROW cannot be developed.~~

~~NOTE: The acreage numbers reflected in the table have been rounded to the nearest whole number.~~



### Solar Energy Overlay

The Plan includes a Solar Energy Overlay in the southwestern area of the City to allow the development of Primary Solar Facilities. The City may, if feasible, establish incentives to encourage the development of Primary Solar Facilities to promote a sustainable community.

### Redevelopment

At the time of ~~this that this~~ Plan ~~was preparation prepared~~, the majority of the lands are either vacant and/or in agricultural use. The existing developed areas may require evaluation for their potential redevelopment in the future.

### Land Cover, Natural Resources and Cultural and Historic Resources

The lands located within the City ~~L~~imits have a long and consistent history of agricultural use, which has resulted in the elimination of all native and natural habitat features. There are no environmentally sensitive lands identified within the City. FLU Map 2.2 depicts existing land uses within the City. Minerals and soils within the City are depicted on FLU Map 2.3. Floodplain designations within the City are depicted on FLU Map 2.4. FLU Map 2.5 shows that there are no existing or planned public potable wellfields, cones of influence, or wellhead protection areas within the City. Similarly, FLU Map 2.6 shows that there are currently no wetlands within the City. Additional analyses regarding land cover and natural resources within the City are found in the Conservation Element data and analyses.

There are no known cultural or historic resources located within the boundaries of the City as determined by the Division of Historical Resources in its letter dated June 25, 2015, from the State Historic Preservation Officer. Should cultural or historic resources be identified in the future, appropriate policies will be applied.



## Facilities Analysis

### Traffic Circulation

The current traffic circulation network within the City ~~consists of Seminole Pratt-Whitney Road, from just north of Sycamore Drive West to just south of 60th Street North. The existing traffic circulation system~~ is illustrated in T.E. Map 3.1. A full analysis of the existing traffic circulation system is provided in the Transportation Element data and analysis. Existing land uses are adequately served by the existing traffic circulation system, and all roads are functioning within the adopted level of service standards. Therefore, there are no traffic circulation system road~~way~~ improvements required to meet existing land use needs.

The future traffic circulation network will provide adequate capacity on road~~ways~~ located within the City. Seminole Pratt Whitney Road is ~~maintained by a Palm Beach County maintained road that and~~ currently functions as an ~~n-urban~~ minor arterial road~~way~~. ~~Urban m~~Minor arterial road~~ways~~ provide service for trips of moderate length, serve geographic areas that are smaller than their higher arterial counterparts (~~i~~Interstates, ~~f~~reeways, and ~~p~~Principal arterials), and offer connectivity to the higher arterial system. In an urban context, they interconnect and augment the higher arterial system, provide intra-community continuity and carry local bus routes. Through both the 2023 and 2038 planning periods, Seminole Pratt Whitney Road will continue to serve as an ~~urban~~ minor arterial at its adopted level of service.

A system of major collector roads, including Persimmon Boulevard and Town Center Parkway, will connect to Seminole Pratt Whitney Road, and will provide access into and through the City. Road~~ways~~ functionally classified as ~~urban~~ major collector roads are intended to distribute and channel trips between local roads and arterials, usually over a distance of greater than three-quarters of a mile. These ~~urban~~ major collector roads will be connected to future land uses by a network of ~~minor collector and~~ local roads, which network will be determined as the City develops. ~~These road are classified as local roads by default. That is, A~~any road that is not an arterial or collector road is by definition a local road. Except for Seminole Pratt Whitney Road ~~and the future extension of 60th Street North~~, the City has jurisdiction over all ~~other~~ roads located within the City boundaries. Through both the 2023 and 2038 planning periods, the City’s collector and local roads will operated at their adopted levels of service.

A detailed analysis of future road~~way~~ conditions, needs, and plans for future transportation facilities is provided in the data and analysis for the Transportation ~~and~~ Capital Improvement Elements.

### Hurricane Evacuation Routes

There are no designated hurricane evacuation routes within the City. Seminole Pratt-Whitney Road provides access from the City to the designated hurricane evacuation route at US 441.

Future designation of evacuation routes within the City is not anticipated. However, it is essential ~~to to ensure the safe evacuation of residents within the City, if required, by~~ monitoring routes connecting the City to designated evacuation routes ~~in order to ensure safe evacuation of residents if necessary~~. Maintaining capacity on Seminole Pratt Whitney Road at an acceptable level of service will facilitate the evacuation of City residents if necessary.





### Public Mass Transit

Public Mass transit service in Palm Beach County is provided by Palm Tran. There is currently no fixed -route transit service within the City.

As the City population grows, the viability of expanding transit service will increase, especially as commercial and other non-residential uses develop along Seminole Pratt Whitney Road. The City will regularly coordinate with Palm Tran, especially during updates of the Palm Tran Transit Development Plan (TDP), to ensure that transit needs of City residents are evaluated and appropriately serviced as the community develops.

### Wastewater

SID will be the retail provider of wastewater service to the City pursuant to ~~the an~~ Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non -Duplication of Services dated March 2018 (“SID-Westlake Interlocal”). ~~two entities~~. Adequate wastewater capacity exists to serve the projected population through the 2023 and 2038 planning periods. SID will plan and construct wastewater lines and liftstations to connect new development with the county’s wastewater treatment plan. A detailed analysis and projections for wastewater are is provided in the data and analysis is for the Infrastructure and Capital Improvement Elements.

### Solid Waste

The Solid Waste Authority of Palm Beach County (SWA) is the agency responsible for managing the solid waste disposal and recycling programs within Palm Beach County, including the City. The Solid Waste Authority SWA integrated solid waste management system includes 334 acre landfill, a 2,000 ton per day waste energy facility, a recovered materials processing facility, a biosolid pelletization facility, a vegetative waste processing operation, household hazardous collection facilities and six 6 transfer facilities. The SWA’s 2017 Landfill Depletion Model projects sufficient landfill capacity through the 2038 planning period with the current lifespan of the facility projected to extend from 2038 to 2051 depending upon various demand and operational assumptions. This projection is based upon countywide growth projections. Based on the average solid waste generation rate for the county as a whole, the City is establishing a solid waste level of service standard of 7.02 pounds per capita per day, which can be maintained through both the 2023 and 2038 planning periods. Further details and analysis of the solid waste service is provided in the Infrastructure Element data and analysis.

### Drainage

SID provides and maintains drainage facilities for the City pursuant to ~~an Interlocal Agreement the SID- Westlake Interlocal between the two entities~~. SID’s adopted work plan provides for the drainage system to be developed in phases as development occurs within the City. SID’s specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan dated October 13, 2015 and its Water, Wastewater and Reuse Utilities Master Plan dated April 29, 2015. As currently planned, the drainage system will consist of approximately 607 acres an extensive system of lakes and will to be constructed in phases to accept runoff from common areas, collector roads, ~~and~~ residential and non-residential development areas. FLU Map 2.4 shows the Federal Emergency Management Agency flood designations within the City. The



master water management system will continue to discharge into the M-2 Canal. Drainage for the City can be maintained through the 2023 and 2038 planning periods. The City is located within the SFWMD C-51 Basin and is subject to the SFWMD C-51 Basin Rules (found in Part III, Ch. 40E-41, Rules 40E-41.220 through 40E-41.265, Florida Administrative Code) Criteria in addition to other stormwater regulations. The data and analysis for the Infrastructure and Capital Improvement Elements provides further details on stormwater facilities including the established level of service standards.

**Potable Water**

SID will be the retail provider of potable water within the City pursuant to the SID-Westlake an Interlocal Agreement between the two entities. This ensures adequate potable water is available to serve the projected population for through the 2023 and 2038 planning periods. Detailed analysis and projections related to potable water facilities and services is provided in the data and analysis for the Infrastructure and Capital Improvement Elements.

**Reuse Water**

SID will be the retail provider of potable-reuse water within the City pursuant to an the SID-Westlake Interlocal Agreement between the two entities. A separate interlocal agreement between SID and Palm Beach County for the purchase of bulk reuse water, dated April 20, 2010, gives SID a “prior reserve capacity” of reuse water to be provided by the county. The amount of reuse water is contingent upon the amount needed by Florida Power and Light. The agreement calls for the county to make available 2.85 MGD of reuse water in 2017, which is scheduled to increase to 3.85 MGD by 2025. SID will not produce its own reuse water, but will receive reuse water pursuant to this agreement with the county. At this time, a re-pump and storage facility and some transmission pipes are connected and in operation. Further expansion of the distribution system within the City will occur as the City develops. Additional analysis on reuse water supply and demand projections is provided in the data and analysis for the Infrastructure and Capital Improvement Elements.

**Parks and Recreation**

There are no existing parks within the City. A community park is planned within the City to serve future residents. The park is indicated on the Future Land Use Map (FLU Map 2.1) on the west side of Seminole Pratt Whitney Road, immediately south of the Seminole Ridge Community High School and is comprised of approximately 50 acres.

As development of the City occurs, a range of parks from including tot-lots, and village greens, to neighborhood parks, and passive-community parks, will be distributed within or near neighborhoods. Pedestrian-Shared use paths, sidewalks, and bicycle trails-lanes will be provided throughout the City.

The City is currently serviced by, the following Palm Beach County regional and district parks and beaches: Okeehelée North Park (regional), Phil Foster Park (beach) and Seminole Palms Park (district).



## City of Westlake Comprehensive Plan

Additional analyses of parks and open space facilities serving the City is included in the Recreation and Open Space Element data and analysis.

### Public Schools

Three public schools exist within the City boundaries: ~~including~~ Golden Grove Elementary School, Western Pines Middle School, and Seminole Ridge High School. The City lies within the district boundaries of Golden Grove Elementary and Seminole Ridge High. In 2017, the School District adopted a new district for Western Pines Middle School, which excludes students from the City. Therefore, students within the City will be served by Osceola Creek Middle School, which is located to the northwest of the City. There is sufficient capacity at schools within and adjacent to the City to serve the City's student population through the 2023 planning period. The City will coordinate with the School District to ensure capacity exists to serve the City's population through the 2038 planning period.

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# TRANSPORTATION

2018



# CHAPTER 3. TRANSPORTATION ELEMENT DATA AND ANALYSIS

## INTRODUCTION

The purpose of the Transportation Element is to plan for a safe, convenient multi-modal transportation system that is, coordinated with the Future Land Use Map (FLU Map 2.1) and Map Series and designed to support all elements of the Plan for the short and long term planning periods. This element addresses the transportation facilities which are to be provided within the City. These include:

- Roads
- Shared Use Paths, Bicycle Lanes, and Sidewalks and Pedestrian Facilities
- Mass Transit

Each of these facility types are analyzed below separately. The City of Westlake Comprehensive Plan – Transportation Element Data and Analysis document prepared by Pinder Troutman Consulting, Inc. dated September 18, 2017, revised February 26, 2018, attached as Appendix A, is expressly incorporated by reference as if fully set forth herein.

Consistent with Florida Statutes Section 163.3177(6)(b), which requires that the transportation element of the Plan be consistent with the plans and programs of the Palm Beach TPA and FDOT, the City utilized the TPA’s 2040 model to analyze the impacts to roads from anticipated development over the long term planning period.

As used in the “Lanes” columns of the tables below, the following terms have the following meanings:

- 2LU means 2 lane undivided.
- 2LD means 2 lane divided.
- 4LU means 4 lane undivided.
- 4LD means 4 lane divided.
- —6LD means 6 lane divided.

## **Background Information**

As part of the review of any development within the City, impacts to the regional road network will be reviewed by Palm Beach County pursuant to its Traffic Performance Standards Ordinance, Article 12 of the Palm Beach County Unified Land Development Code (TPS). As with other municipalities within the County, as part of the City’s review process, applicants will be required to demonstrate compliance with the Palm Beach County Traffic Performance Standards Ordinance. If required by TPS, development applications will be submitted to Palm Beach County for review of their impacts to the regional road network. Any level of service deficiencies identified would need to be mitigated



through means such as construction of improvements or execution of a proportionate share agreement with the County.

The majority of property within the City is subject to a set of development orders issued to Minto PBLH, LLC, by Palm Beach County prior to the City's incorporation. The development orders permit Minto to construct 4,546 residential units, a college, hotel and 2.2 million square feet of other nonresidential uses. By operation of law, after the City's incorporation, the development orders remain in effect, except that they are now administered by the City. In conjunction with its receipt of that development order, Minto PBLH, LLC (Minto), was required to demonstrate compliance with the County's TPS. As part of this process, Minto was required to enter into a proportionate share agreement with Palm Beach County, committing it to pay approximately fifty (50) million dollars towards road improvements throughout the region. Seminole Pratt Whitney Road is already being expanded within the City pursuant to that proportionate share agreement. Minto's obligations under the proportionate share agreement remain notwithstanding the City's incorporation because Palm Beach County retains jurisdiction over impacts to the regional thoroughfare system, which includes state roads and roads identified as part of Florida's Strategic Intermodal System (SIS). Any increase in the density and intensity of Minto's development orders that generates additional peak hour directional traffic impacts above the approved development would be subject to review by Palm Beach County for approval pursuant to TPS.

## **TRAFFIC CIRCULATION NETWORK**

### **Connectivity**

Connectivity is promoted or discouraged by the design of the transportation network and the arrangement of development. Thus, connectivity relates not just to single trips, but to the totality of all trips within an area.

A 'connectivity index' can be used to measure the degree of connectivity. The street connectivity index is the ratio of the number of street links to the number of intersections. Road ends such as cul-de-sacs and corners may also be added to the number of intersections. The number of links (which may match up with smaller development blocks) compared to the number of intersections provides for greater connectivity. Finally, access to bicycle lanes, sidewalks, and shared use paths further enhance connectivity.



## Existing Traffic Circulation

~~There is limited existing development within the City's limits. Existing development is primarily located along Seminole Pratt Whitney Road. This development includes a high school, a community shopping center, and a produce packing plant. The middle and elementary schools located in the northeast corner of the City are served by 140th Avenue North and 60th Street North. Both 140th Avenue North and the existing sections of 60th Street North are located outside of the City. The remainder of the land within the City limits is currently in agricultural use with a small portion under development for residential units.~~

The current traffic circulation network ~~within the City consists of Seminole Pratt Whitney Road, from just north of Sycamore Drive West to just south of 60th Street North. This road link is currently under construction to be widened to a four lane divided facility. The existing traffic circulation system~~ is illustrated in TE Map 3.1. The existing functional classification of the road network is also illustrated in TE Map 3.1, as is the existing road network jurisdiction. Palm Beach County has jurisdiction over ~~c~~County roads, including Seminole Pratt Whitney Road, which bisects the City. The existing level of service on Seminole Pratt Whitney Road was determined using the FDOT generalized level of service tables for peak hour and peak direction. The existing road levels of service ~~is~~ are illustrated in TE Map 3.2. ~~The roads indicated to be "Level D or Better" became operational as of November 1, 2017; therefore, The~~ precise level of service for roads indicated to be "Level D or Better" these roads is not available because the roads have not been in service long enough for them to be properly analyzed under normal traffic conditions. The existing road characteristics are summarized in Table 3.1 below.



**Table 3.1: Existing (2016) Peak Hour Peak Direction LOS**

Road Name	From	To	Lanes	Adopted LOS**	Road Classification	Peak Hour Peak Direction Capacity*	2016 Peak Hour Peak Direction Volume*	Current LOS
Seminole Pratt-Whitney Road	N. of Sycamore Drive West	Seminole Ridge Community High School north entrance	4LD	D	<del>Urban</del> -Minor Arterial	2,000	999	C
Seminole Pratt-Whitney Road	Seminole Ridge Community High School north entrance	S. of 60 <sup>th</sup> Street North	4LD	D	<del>Urban</del> -Minor Arterial	2,000	999	C

\*Source: FDOT LOS Generalized Service Volume Tables (12/18/12) and FDOT Transportation Statistics Office

\*\* A description of the various level of service standards, including "D," can be found in FDOT's Highway Capacity Manual, December 2010.

As shown in Table 3.1, existing land uses are adequately served by the existing traffic circulation system, and all roads are operating within the adopted level of service standards. Therefore, there are no ~~existing transportation deficiencies, traffic circulation system road improvements required to meet existing land use needs.~~

### Future Traffic Circulation

Through the 2023 and 2038 planning periods, it is estimated that the ~~resident~~ permanent population will grow to 3,619 and 15,030 people, respectively. Residential uses will be located throughout the City, with single-family detached housing located further east and west of Seminole Pratt Whitney Road, and higher density housing located closer to and within the Downtown Mixed-Use area planned along Seminole Pratt Whitney Road.

It is also ~~estimated anticipated~~ that, in addition to existing non-residential uses ~~(two schools, a shopping center, and a produce packing plant)~~, there will be additional non-residential uses constructed during the 2023 and 2038 planning periods, including commercial, ~~office~~, industrial, recreational, and civic uses. Non-residential uses will be located primarily within the Downtown Mixed-Use Future Land Use Category located along either side of Seminole Pratt Whitney Road.





The future traffic circulation network will provide adequate capacity on roads located within the City to meet the projected population and residential and nonresidential development for the long and short term planning periods. Seminole Pratt Whitney Road is a ~~C~~county maintained road that currently functions as an ~~urban~~ minor arterial road. ~~Urban m~~Minor arterial roads provide service for trips of moderate length, serve geographic areas that are smaller than their higher arterial counterparts (~~h~~interstates, ~~f~~freeways, and ~~p~~Principal arterials), and offer connectivity to the higher arterial system. In an urban context, they interconnect and augment the higher arterial system, provide intra-community continuity and carry local bus routes. Through the long and short term planning periods, Seminole Pratt Whitney Road will continue to serve as a ~~n urban~~ minor arterial.

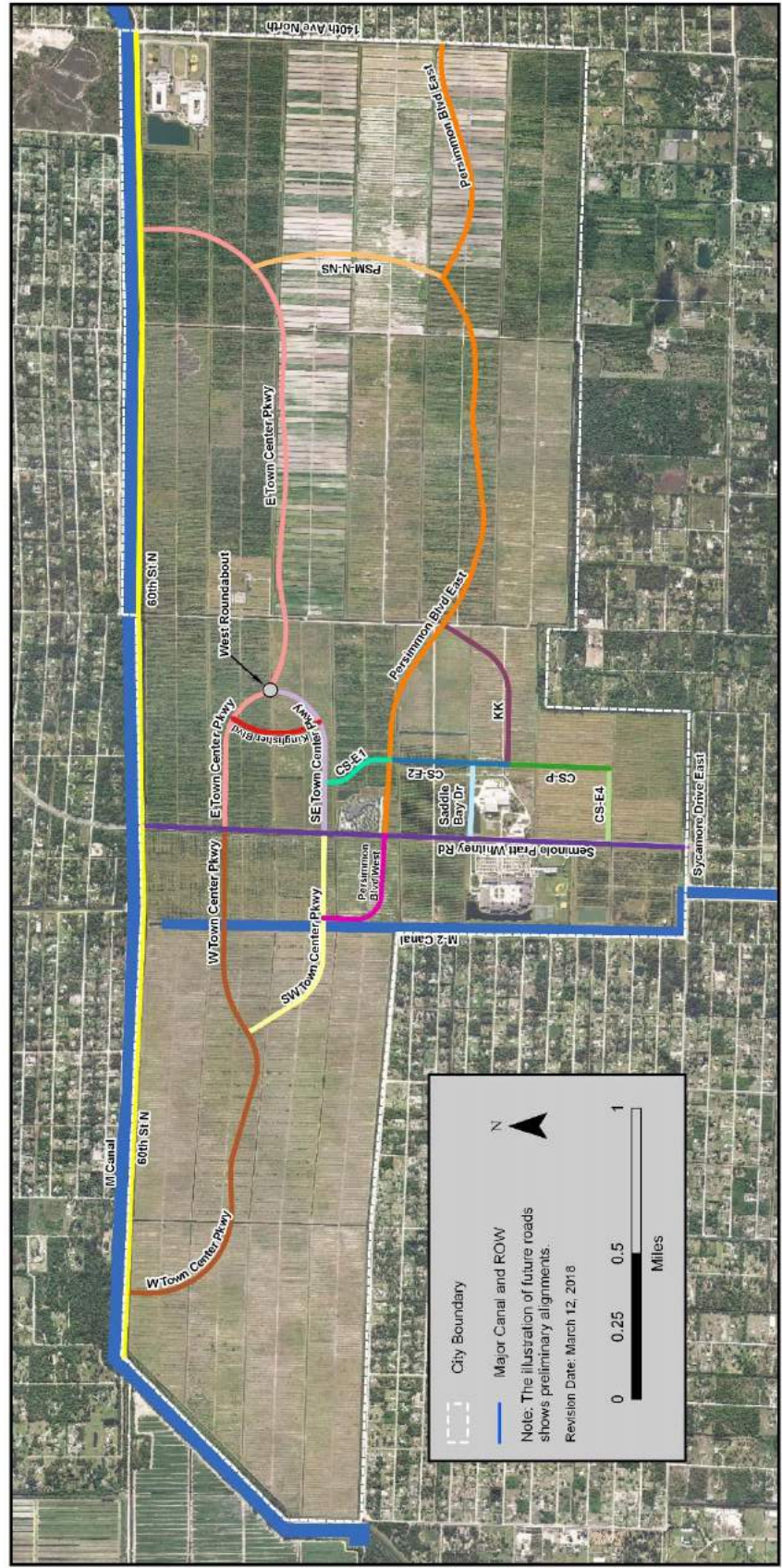
~~In addition to the existing urban minor arterial road, Seminole Pratt Whitney Road, a~~ system of major collector roads, including Persimmon Boulevard and Town Center Parkway, will connect to Seminole Pratt Whitney Road and will provide access into and through the City. Roads functionally classified as ~~urban~~ major collector roads are intended to distribute and channel trips between local roads and arterials, usually over a distance of greater than three-quarters of a mile.

These ~~urban~~ major collector roads will be connected to future land uses by a network of minor collector and local roads, which network will be determined as the City develops. ~~These roads are classified as local roads by default. That is, a~~Any road that is not an arterial or collector road is by definition a local road. Except for Seminole Pratt Whitney Road and the future extension of 60th Street North, the City has jurisdiction over all ~~other~~ roads located within the City boundaries.

TE Map 3.4 illustrates the 2038 Future Traffic Circulation ~~n~~Network, which will accommodate traffic circulation through the 2038 planning period. TE Map 3.5 depicts the 2038 Future Functional Classification of the City's roads. ~~Estimated Anticipated~~ future right-of-way ~~required~~ for the Future Traffic Circulation Network ~~has been determined based on typical cross-sections, and~~ is also illustrated on TE Map 3.5. Table 3.2, below, summarizes the road characteristics and road levels of service for the future functionally classified road system. Figure 3.1 below illustrates the location of each road segment identified in Table 3.2 and Table 3.3.



**Figure 3.1: Road Segment Identification**





**Table 3.2: Year 2038 Peak Hour Peak Direction LOS**

Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2038 Peak Hour Peak Direction Volume	2038 LOS
Seminole Pratt-Whitney Road	N. of Sycamore Drive West	Persimmon Boulevard	6LD	D	<del>Urban</del> -Minor Arterial	3,020	<del>2,141</del> <u>393</u>	C
Seminole Pratt Whitney Road	Persimmon Boulevard	S. of 60 <sup>th</sup> Street North	<del>6</del> <u>4</u> LD	D	<del>Urban</del> -Minor Arterial	<del>2000</del> <u>3,020</u>	<del>1,843</del> <u>2,060</u>	C
East Town Center Parkway	Seminole Pratt Whitney Road	West Roundabout	2LU	D	<del>Urban</del> -Major Collector	675	570	D
East Town Center Parkway	West Roundabout	<del>PSM-N-N2</del> <del>60<sup>th</sup> Street N.</del>	4LD	D	<del>Urban</del> -Major Collector	1,800	864	C
<u>East Town Center Parkway</u>	<u>PSM-N-N2</u>	<u>60<sup>th</sup> Street N</u>	<u>4LD</u>	<u>D</u>	<u>Major Collector</u>	<u>1,800</u>	<u>580</u>	<u>C</u>
Southeast Town Center Parkway	Seminole Pratt Whitney Road	West Roundabout	2LU	D	<del>Urban</del> -Major Collector	675	448	D
Southwest Town Center Parkway	West Town Center Parkway	Seminole Pratt Whitney Road	2LU	D	<del>Urban</del> -Major Collector	675	223	C
West Town Center Parkway	Western Terminus	Southwest Town Center Parkway	2LU	D	<del>Urban</del> -Major Collector	675	95	C
West Town Center Parkway	Southwest Town Center Parkway	Seminole Pratt Whitney Road	2LU	D	<del>Urban</del> -Major Collector	675	340	D
Persimmon Boulevard <u>East</u>	Seminole Pratt Whitney Road	<del>Persimmon East</del> <u>PSM-N-N2</u>	4LD	D	<del>Urban</del> -Major Collector	1,800	1,014	C
<u>Persimmon Boulevard East</u>	<u>PSM-N-N2</u>	<u>140<sup>th</sup> Avenue</u>	<u>4LD</u>	<u>D</u>	<u>Major Collector</u>	<u>1,800</u>	<u>683</u>	<u>C</u>
<del>PSM-N-N2</del> <del>Persimmon/</del> <del>Town Center</del> <del>Connector</del>	Persimmon Boulevard <u>East</u>	East Town Center Parkway	2LD	D	<del>Urban</del> - <u>Major</u> <u>Minor</u> Collector	709	423	D



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Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2038 Peak Hour Peak Direction Volume	2038 LOS
<u>Persimmon Boulevard West</u>	<u>Southwest Town Center Parkway</u>	<u>Seminole Pratt Whitney Road</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>203</u>	<u>C</u>
<u>KK</u>	<u>CSP</u>	<u>Persimmon Blvd East</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>341</u>	<u>D</u>
<u>CS-E4</u>	<u>Seminole Pratt Whitney Road</u>	<u>CSP</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>329</u>	<u>C</u>
<u>CSP</u>	<u>CS-E4</u>	<u>KK</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>425</u>	<u>D</u>
<u>CSP</u>	<u>KK</u>	<u>Saddle Bay Drive</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>199</u>	<u>C</u>
<u>CS-E2</u>	<u>Saddle Bay Drive</u>	<u>Persimmon Blvd East</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>199</u>	<u>C</u>
<u>CS-E1</u>	<u>Persimmon Blvd East</u>	<u>Southeast Town Center Parkway</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>417</u>	<u>D</u>
<u>Kingfisher Blvd (CS-E5)</u>	<u>Southeast Town Center Parkway</u>	<u>East Town Center Parkway</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>71</u>	<u>C</u>
<u>Saddle Bay Drive</u>	<u>Seminole Pratt Whitney Road</u>	<u>CSP</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>149</u>	<u>C</u>
<u>60th Street North</u>	<u>Western Terminus</u>	<u>West Town Center Parkway</u>	<u>4LD</u>	<u>D</u>	<u>Major Collector</u>	<u>1,800</u>	<u>1133</u>	<u>C</u>
<u>60th Street North</u>	<u>West Town Center Parkway</u>	<u>Seminole Pratt Whitney Road</u>	<u>4LD</u>	<u>D</u>	<u>Major Collector</u>	<u>1800</u>	<u>843</u>	<u>C</u>
<u>60th Street North</u>	<u>Seminole Pratt Whitney Road</u>	<u>East Town Center Parkway</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>106</u>	<u>C</u>
<u>60th Street North</u>	<u>East Town Center Parkway</u>	<u>140th Avenue</u>	<u>4LD</u>	<u>D</u>	<u>Major Collector</u>	<u>1,800</u>	<u>686</u>	<u>C</u>

\*Source: FDOT ~~LOS~~ Generalized Service Volume Tables (12/18/12)



The City’s future traffic circulation network will be developed in coordination with the plans of the Florida Department of Transportation (FDOT), Palm Beach County, and the Palm Beach Transportation Planning Agency (TPA). The Palm Beach TPA was formerly known as the Palm Beach Metropolitan Planning Organization (MPO).

Within the next five years short term planning period (through 2023), it is anticipated that there will be some residential development in areas east of Seminole Pratt Whitney Road. A portion of the future major collector road network will be required to accommodate support this development. TE Map 3.6 illustrates the required future traffic circulation network through the 2023 short term planning period. TE Map 3.8 depicts the 2023 Future Functional Classification and anticipated Right-of-Way required for the 2023 Future Traffic Circulation Network. The road characteristics and level of service for Year 2023 is are summarized below in Table 3.3.

**Table 3.3: Year 2023 Peak Hour Peak Direction LOS**

Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2023 Peak Hour Peak Direction Volume	2023 LOS
Seminole Pratt Whitney Road	N. of Sycamore Drive West	Persimmon Blvd	4LD	D	<del>Urban</del> Minor Arterial	2,000	1,735	C
Seminole Pratt Whitney Road	Persimmon Blvd	East Town Center Parkway	4LD	D	<del>Urban</del> Minor Arterial	2,000	<del>1,716</del> <u>1,673</u>	C
Seminole Pratt Whitney Road	East Town Center Parkway	60 <sup>th</sup> Street	4LD	D	<del>Urban</del> Minor Arterial	2,000	1,737	C
East Town Center Parkway	Seminole Pratt Whitney Road	<del>West Roundabout</del> <u>Eastern Terminus</u>	2LU	D	<del>Urban</del> Major Collector	675	<del>578</del> <u>424</u>	D
<u>East Town Center Parkway</u>	<u>West Roundabout</u>	<u>Eastern Terminus</u>	<u>2LU</u>	<u>D</u>	<u>Major Collector</u>	<u>792</u>	<u>183</u>	<u>C</u>



Road Name	From	To	Lanes	Adopted LOS	Road Classification	Peak Hour Peak Direction Capacity*	2023 Peak Hour Peak Direction Volume	2023 LOS
<u>Persimmon Boulevard East</u>	Seminole Pratt Whitney Road	Eastern Terminus	<u>24LDU</u>	D	<u>Urban-Major Collector</u>	<u>8321,800</u>	<u>38596</u>	C
<u>Southeast Town Center Parkway</u>	<u>Seminole Pratt Whitney Road</u>	<u>West Roundabout</u>	<u>2LU</u>	<u>D</u>	<u>Major Collector</u>	<u>675</u>	<u>241</u>	<u>C</u>
<u>Persimmon Boulevard West</u>	<u>Western Terminus</u>	<u>Seminole Pratt Whitney Road</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>29</u>	<u>C</u>
<u>Saddle Bay Drive</u>	<u>Seminole Pratt Whitney Road</u>	<u>CSP</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>39</u>	<u>C</u>
<u>CS-E4</u>	<u>Seminole Pratt Whitney Road</u>	<u>CSP</u>	<u>2LU</u>	<u>D</u>	<u>Minor Collector</u>	<u>675</u>	<u>135</u>	<u>C</u>

\*Source: FDOT LOS-Generalize Service Volume Tables (12/18/12)

Note: The projected development for the short term planning period did not have a significant impact on all links. The links that were not significantly impacted have been excluded from this table. See Exhibits 3B and 3C of Appendix A.

While the Ttraffic cCirculation nNetwork is expected to meet adopted level of service standards in both the 2023 and 2038 planning periods given the planned future development of the City, changes to planned developments could occur over time that, if not monitored, result in transportation deficiencies. For this reason, the City will implement a Mobility System to review proposed development projects with respect to transportation standards. The Mobility System will be implemented through the Land Development Regulations that will specify development review procedures and transportation mitigation options, including proportionate share agreements for new development and will integrate review by of impacts to regional roads by Palm Beach County pursuant to TPS. The Mobility System will also provide for regular and periodic monitoring of transportation facilities by the City to ensure that adopted transportation standards are maintained.

Finally, to provide for flexibility in development and to respond to long-term changes in the needs of the City’s residents, the Land Development Regulations may provide for a land use equivalency process, through which exchanges of different land uses, consistent with the Future Land Use Map



([FLU Map 2.1](#)), may be accomplished so long as the proposed development does not result in additional transportation impacts.

## EVACUATION ROUTES

There are no existing designated evacuation routes within the City. However, Seminole Pratt Whitney Road provides access to the designated evacuation route at US 441.

Future designation of evacuation routes within the City is not anticipated. However, it is essential to ensure the safe evacuation of residents within the City, if required, by monitoring routes connecting the City to designated evacuation routes. Maintaining capacity on Seminole Pratt Whitney Road at an acceptable level of service will facilitate the evacuation of City residents if necessary.

## ~~PUBLIC MASS~~ TRANSIT

~~Public Mass~~ transit service in Palm Beach County is provided by Palm Tran. There is currently no fixed-route service within the City.

Americans with Disabilities Act (ADA) paratransit services are provided through Palm Tran Connection. This service is provided within 3/4 miles of a Palm Tran fixed-route bus service. Since no part of the City is currently within 3/4 mile of a Palm Tran fixed-route, Palm Tran Connection ADA paratransit services are not currently available within the City.

Transportation Disadvantaged services in Palm Beach County are also provided by Palm Tran Connection. Service is available to anywhere within Palm Beach County, including the City, for qualifying individuals.

As the City population grows, the viability of expanding transit service will increase, especially as commercial and other non-residential uses develop along Seminole Pratt Whitney Road. The City will regularly coordinate with Palm Tran, especially during updates of the Palm Tran Transit Development Plan (TDP), to ensure that transit needs of City residents are evaluated and appropriately serviced as the community grows.

## AVIATION

No airports, aviation facilities or other aviation-related developments currently exist or are proposed within the City. The closest airstrip is approximately 6.03 miles to the south in a fly-in fly-out residential neighborhood called the Wellington Aero Club. Palm Beach International Airport is approximately 11.3 miles southeast of the City and North Palm Beach County Airport is approximately 6.27 miles to the Northeast. The William P. Gwinn Airport, a private airport, is approximately 9.9 miles north of the City. A site plan has been approved for an additional airstrip approximately 8 [miles](#) from the City on Flying Cow Ranch Road. These measurements are based on the City border closest to the respective airports. Therefore, no airports are within or immediately adjacent to the City, and there are no issues concerning land use compatibility with airports.



## PORTS

The City does not contain and is not adjacent to any coastal areas or natural water bodies. The Port of Palm Beach is approximately 13.13 miles to the east of the City.

### **SHARED USE PATH, BICYCLE LANES, AND PEDESTRIAN FACILITIES SIDEWALKS**

A ~~multi-modal shared use~~ path has been constructed along both sides of Seminole Pratt Whitney Road and Town Center Parkway East. ~~from the southern City boundary to the northern entrance of Seminole Ridge Community High School and from the northern entrance of Seminole Ridge Community High School to the northern City boundary, on the east side of Seminole Pratt Whitney Road. The shared use path runs almost the entire length of Seminole Pratt Whitney Road, and in the areas where there is not a shared use path, there is a sidewalk.~~ There are also existing ~~bike bicycle~~ lanes along Seminole Pratt Whitney Road and Town Center Parkway East, ~~in addition to a multi-modal shared use path in the parkway area along the road.~~ Existing bicycle lanes, sidewalks, and pedestrian facilities ~~shared use paths~~ are depicted on TE Map 3.3.

The City envisions a multi-modal transportation system that appropriately utilizes a combination of roads, public mass transit facilities, shared use paths, bicycle lanes, and pedestrian facilities ~~sidewalks~~, and other elements of complete streets to serve its residents and visitors to the City. As part of the City’s overall vision, non-motorized transportation will continue to be accommodated and encouraged to reduce the need for motorized transportation within the City, especially between residential and non-residential uses. ~~As the City develops, a robust bicycle/pedestrian network is planned to accommodate non-motorized uses along the future traffic circulation network. This network will include dedicated bicycle facilities, sidewalks, and multi-modal paths.~~ The ~~pedestrian and bicycle facilities~~ shared use paths, bicycle lanes, and sidewalks ~~planned~~ through the 2023 planning period are ~~is~~ depicted on TE Map 3.9. TE Map 3.7 illustrates the future shared use paths, sidewalks, and bicycle and pedestrian network lanes along collector and arterial roads through the 2038 planning period.

As part of the recreational amenities with the City, ~~trails and other facilities~~ shared use paths may be established ~~both along the road network and~~ in non-developed ~~or other~~ open space areas. The City will take steps to ensure that where ~~trails shared use paths, sidewalks, or bicycle lanes are co-located with and~~ other transportation facilities ~~are co-located~~, appropriate design measures are taken to facilitate the safety of all travelers. This will also apply where shared use paths, sidewalks, or bicycle lanes ~~trails~~ cross other transportation facilities.



# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# INFRASTRUCTURE

2018



## CHAPTER 4. INFRASTRUCTURE ELEMENT DATA AND ANALYSIS

### INTRODUCTION

The purpose of the Infrastructure Element is to identify and describe the necessary public facilities and services needed to accommodate the City's population through the 2023 and 2038 planning periods. This element addresses the public facilities provided within the City which include:

- Potable Water
- Wastewater
- Solid Waste
- Drainage
- Ground Water Recharge

The Seminole Improvement District (SID) is the exclusive retail provider of potable water, reuse water, and wastewater facilities in the City, and is empowered to construct and maintain the facilities related to those services and drainage. SID's service area is limited to the City's municipal boundaries, and therefore, SID's capacity will be used only within the City. Pursuant to the City Charter, the City may not duplicate services provided by SID. The relationship between the City and SID for provision of those services and facilities is detailed in the Interlocal Agreement between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal"). ~~Interlocal Agreement,~~ while SID's specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan dated October 13, 2015 and its Water, Wastewater and Reuse Utilities Master Plan dated April 29, 2015. The SID utility service area is depicted on INF Map 4.1. The anticipated infrastructure facilities needed for the 2023 and 2038 planning periods depicted on INF. Map 4.2 and INF. Map 4.3.

SID operates pursuant to a number of permits from the South Florida Water Management District (SFWMD), the United States Army Corps of Engineers, and other agencies. These permits, which serve as data and analysis for the Plan, are available upon request.

### POTABLE WATER

SID is the retail provider of potable water within the City. There is an Interlocal Agreement between Palm Beach County and the Seminole Improvement District Regarding the Sale of Bulk Water and Wastewater Service and Establishment of Water, Wastewater, and Reclaimed Water Service Areas and Settling Certain Disputes and Lawsuits Between the Parties SID and Palm Beach County, dated April 18, 2006, which provides that SID can purchase bulk water from the County at a rate of up to 5.0 MGD for the next thirty (30) years



with provisions to extend the agreement for 50 or more years. SID and Palm Beach County have invested in significant infrastructure in the City's area to provide potable water service. The development of the City will not require additional capacity to provide potable water to the City; rather it utilizes existing excess capacity from existing infrastructure. SID maintains water distribution facilities for service within the City and will expand internal potable water distribution lines concurrent with development within the City.

The City's level of service standard for potable water is 110 gallons per capita per day (~~gpd~~) for residential uses and 150 gallons per 1,000 sq. ft. per day for non-residential uses with the following exceptions. Schools have a level of service standard of 18 gpd per student. Hotels have a level of service standard of 100 gpd per room. Parks have a level of service standard of 10 gpd per visitor. The per-capita level of service standard will be applied to dwelling units using a 2.65 average population per household (PPH) unless it can be demonstrated that a different PPH is applicable. The City will continue to coordinate with SID to monitor and evaluate future operating demands as the City increases utility users and to adjust the level of service standard, if needed, through the planning periods.

The table below provides an analysis of potable water demand over the short and long-term planning periods. The first section identifies the level of service standards used for the planning analysis. The second section identifies existing and projected population and uses that require potable water. Existing non-residential square footages include the Grove Market commercial area and the packing house parcel which includes industrial and office uses. Square footage numbers are from the Palm Beach County property appraiser parcel database. Existing student numbers are based on school capacity numbers from the Palm Beach County School District 2016/17 Work Plan and anticipated students from a potential new school. New development square footage, hotel rooms, and college students are based on the ~~Minto West~~ existing development order s within the City. Projections of recreation and park day time visitors are based on averages derived from the National Recreation and Park Association 2016 study of park usage entitled "NRPA Americans' Engagement with Parks Survey." The third section computes the current and projected demand for the 2023 and 2038 planning periods.

The anticipated facilities needed for the 2023 and 2038 planning periods are identified in Table 4.1 and are also depicted on INF. Map 4.2 and INF. Map 4.36.





**Table 4.1: Potable Water Analysis**

<b>Potable Water Level of Service</b>				
	Gallons Per Day			
Per Person	110			
Per square foot for Commercial, Civic, and Industrial	0.15			
Per Student	18			
Per Hotel Room	100			
Per visitor of park and recreation facilities	10			
<b>Demand Generators</b>				
	<b>2018</b>	<b>2023</b>	<b>2038</b>	
Population (excluding hotel population)	298	3,803	15,791	
Existing Commercial, Civic, and Industrial S.F.	180,581	180,581	180,581	
New Commercial, Civic, and Industrial S.F.	75,000	650,000	2,200,000	
Total Commercial, Civic, and Industrial S.F.	255,581	830,581	2,380,581	
K-12 Students	4,463	4,463	5,433	
College Students	0	0	3,000	
Total Students	4,463	4,463	8,433	
Hotel Rooms	0	150	150	
Recreation and Park Daytime Visitors	0	650	2,600	
<b>Demand Projections</b>				
	<b>2018</b>	<b>2023</b>	<b>2038</b>	
Population (excluding hotel population)	32,780	418,330	1,737,010	
Total Commercial, Civic, and Industrial	38,337	124,587	357,087	
Total Students	80,334	80,334	151,794	
Hotel Rooms	0	15,000	15,000	
Recreation and Park Day Time Visitors	0	6,500	26,000	
Total Demand (Gallons Per Day)	151,451	644,751	2,286,891	

The City will adopt a Water Supply Facilities Work Plan for the City that will identify water resource development and water supply development options consistent with the [2013 Lower East Coast Regional Water Supply Plan Update](#). The City is required to update the Infrastructure Element within 18 months of any update to the [2013 Lower East Coast Regional Water Supply Plan Update](#) by ~~the South Florida Water Management District (SFWMD)~~.

The M Canal runs along the northern boundary of the City, west of Seminole Pratt Whitney Road, and within the City boundary east of Seminole Pratt Whitney Road. The City of Westlake does not use the M Canal as a public water supply; however, the City of West Palm Beach does use the M Canal as a public water supply. The City’s storwater management and drainage, which is under SID’s jurisdiction, is separate from and unconnected from the M Canal. The M-2 canal serves as the City’s drainage canal, which carries water to the C-51 Basin.

## WASTEWATER

SID is the retail provider of wastewater services to the City. SID has an Interlocal Agreement with Palm Beach County (the same [2006](#) interlocal agreement that addresses potable water) to purchase wastewater capacity at a rate up to 4.0 MGD. SID and Palm Beach County have invested in significant infrastructure in the Westlake area to provide wastewater service. The development of the City will not require additional capacity to



provide wastewater service to the City; rather, it will utilize existing excess capacity, thereby discouraging urban sprawl. SID has decommissioned its wastewater treatment facility but maintains pump stations, force mains, collection facilities and interconnects to the County system for wastewater service within the City. The City will coordinate with SID to expand internal wastewater distribution lines concurrent with development within the City.

The City's level of service standard for wastewater is 100 gallons per capita per day (gpd) for residential uses and 150 gallons per 1,000 sq. ft. per day for non-residential uses with the following exceptions: Schools have a level of service standard of 18 gpd per student; Hotels have a level of service standard of 100 gpd per room. Parks have a level of service standard of 10 gpd per visitor. The per-capita level of service standard will be applied to dwelling units using a 2.65 average ~~population per household (PPH)~~ unless it can be demonstrated that a different PPH is applicable. The City will continue to coordinate with SID to monitor and evaluate future operating demands as the City increases utility users and to adjust the level of service standard if needed through the planning periods.

The table below provides an analysis of wastewater demand over the 2023 and 2038 planning periods. The first section identifies the level of service standards used for the planning analysis. The second section identifies existing and projected population and uses that require wastewater service. Existing non-residential square footages include the Grove Market commercial area and the packing house parcel which includes industrial and office uses. Square footage numbers are from the Palm Beach County property appraiser parcel database. Student numbers are based on school capacity numbers from the Palm Beach County School District 2016/17 Work Plan and anticipated students from a potential new school. New development square footage, hotel rooms, and college students are based on the existing development orders within the City. Projections of recreation and park day-time visitors are based on averages derived from the National Recreation and Park Association 2016 study of park usage entitled "NRPA Americans' Engagement with Parks Survey." The third section computes the current and projected demand for the 2023 and 2038 planning periods. The anticipated infrastructure facilities needed for the 2023 and 2038 planning periods are identified in Table 4.1 and also depicted on INF Map 4.2 and INF Map 4.35.



Table 4.2: Wastewater Analysis

<b>Wastewater Level of Service Standard</b>			
	Gallons Per Day		
Per Person	100		
Per square foot for Commercial, Civic, and Industrial	0.15		
Per Student	18		
Per Hotel Room	100		
Per visitor of park and recreation facilities	10		
<b>Demand Generators</b>			
	<b>2018</b>	<b>2023</b>	<b>2038</b>
Population (excluding hotel population)	298	3,803	15,791
Existing Commercial, Civic, and Industrial	180,581	180,581	180,581
New Commercial, Civic, and Industrial S.F.	75,000	650,000	2,200,000
Total Commercial, Civic, and Industrial S.F.	255,581	830,581	2,380,581
K-12 Students	4,463	4,463	5,433
College Students	0	0	3,000
Total Students	4,463	4,463	8,433
Hotel Rooms	0	150	150
Recreation and Park Daytime Visitors	0	650	2,600
<b>Demand Projections</b>			
	<b>2018</b>	<b>2023</b>	<b>2038</b>
Population (excluding hotel population)	29,800	380,300	1,579,100
Total Commercial, Civic, and Industrial	38,337	124,587	357,087
Total Students	80,334	80,334	151,794
Hotel Rooms	0	15,000	15,000
Recreation and Park Day Time Visitors	0	6,500	26,000
Total Demand (Gallons Per Day)	148,471	606,721	2,128,981

## REUSE WATER

Pursuant to the SID-Westlake Interlocal an interlocal agreement between SID and the City, SID will be the exclusive retail provider of reuse water within the City and will provide development within the City with reuse water for irrigation. If reuse is not available from the County, irrigation may be supplemented by canal water as allowed by permit with the South Florida Water Management District.



An Interlocal Agreement for the Purchase and Sale of Bulk Reclaimed Water between SID and Palm Beach County for the purchase of bulk reused water dated April 20, 2010 gives SID a “prior reserve capacity” of reuse water to be provided by the county. The amount of reuse water is contingent upon the amount needed by Florida Power and Light. The agreement calls for the county to make available 2.85 MGD of reuse water in 2017, which is scheduled to increase to 3.85 MGD by 2025. SID will not produce its own reuse water, but will receive reuse water pursuant to this agreement with Palm Beach County. At this time, a re-pump and storage facility and some transmission pipes are connected and in operation. Further expansion of the distribution system within the City will occur as the City develops.

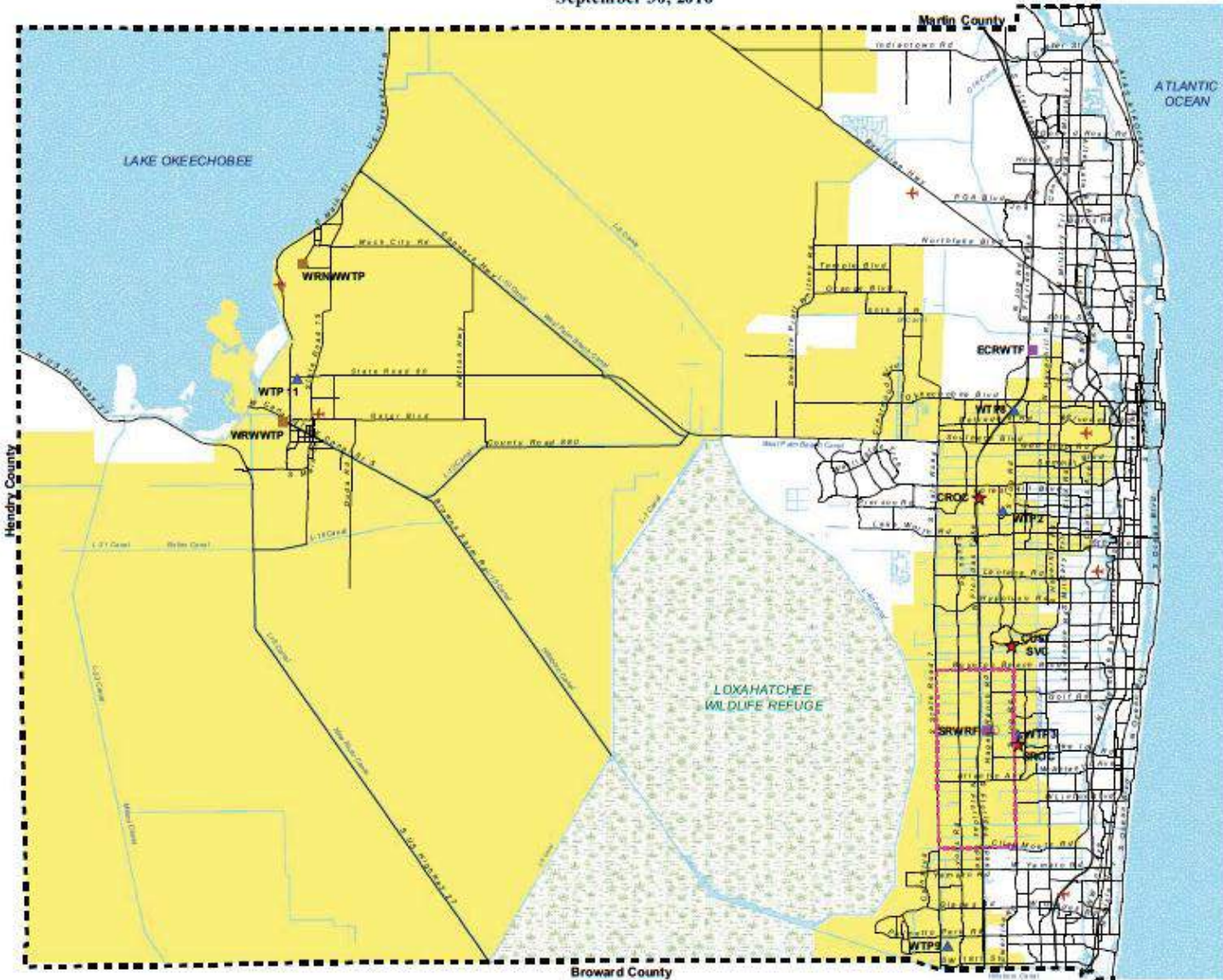
The anticipated infrastructure facilities for the 2023 and 2038 planning periods are depicted on INF Map 4.2 and INF Map 4.43.

Figure 4.1 below shows the service area and major facilities of the Palm Beach County Water Utilities Department as depicted in its Comprehensive Annual Financial Report Fiscal years Ended September 30, 2016 and 2015.



**Figure 4.1**

**PALM BEACH COUNTY, FLORIDA  
WATER UTILITIES DEPARTMENT  
SERVICE AREA (SA) AND MAJOR FACILITIES  
September 30, 2016**



- Legend**
- Wastewater Treatment Plant
  - Water Reclamation Plant
  - ▲ Water Treatment Plant
  - ★ Administration
  - Wetlands
  - Palm Beach County Limits
  - Mandatory Reclaimed SA
  - P.B.C.W.U.D. Service Area





## SOLID WASTE

The Solid Waste Authority (SWA) of Palm Beach County is a dependent special district ~~which is~~ responsible for managing solid waste disposal and recycling programs within Palm Beach County pursuant to a Special Act of the Florida Legislature in 2001. The SWA integrated solid waste management system includes a 334 acre landfill, a 2,000 ton per day waste to energy facility, a 3,000 ton per day mass burn waste-to-energy plant, a recovered materials processing facility, a biosolid pelletization facility, a vegetative waste processing operation, household hazardous collection facilities and 6 transfer facilities.

The SWA's 2017 Landfill Depletion Model projects sufficient landfill capacity through the 2038 planning period with the current lifespan of the facility projected to extend from 2038 to 2051 depending upon various demand and operational assumptions. This projection is based upon countywide growth projections. Based on the average solid waste generation rate for the county as a whole, the City is establishing a solid waste level of service standard of 7.02 pounds per capita per day, which can be maintained through both the 2023 and 2038 planning periods.

## DRAINAGE

SID manages drainage throughout the City. The land area of the City is currently drained through the M-2 Canal. The ultimate discharge point for the area is the South Florida Water Management District C-51 Canal. There are numerous agricultural ditches and canals currently running through the City. The system was created for citrus agricultural use and provided both irrigation water supply and flood control within the area. Permits for peak discharge up to 2-inches in 24 hours via M-2 Canal to C-51 Canal are in place for SID, which can accommodate the City's future land uses shown Future Land Use Map (FLU Map 2.1).

SID will continue to provide drainage for the City. SID's master drainage management plan currently provides for a drainage system which will consist of an extensive lake system to be constructed in phases to accept runoff from common areas, collector roads, and residential and non-residential development areas. The water management system will continue to discharge into the M-2 Canal.

Drainage for the City can be maintained through the 2023 and 2038 planning periods. The anticipated infrastructure facilities needed for the 2023 and 2038 planning periods is depicted on INF Map 4.23 and INF Map 4.37.

The City is located within the SFWMD C-51 Basin and is subject to the SFWMD C-51 Basin Criteria Rule, (found in Part III, Ch. 40E-41, Rules 40E-41.220 through 40E-41.265, Florida Administrative Code), in addition to other stormwater regulations. The proposed minimum building floors will be designed at or above the higher of the peak stage in the 100-year, 3-day, zero discharge design storm or the SFWMD's C-51 Basin 100-year stage. As set forth in Table 4.3A below, flood protection within the City will be provided for various storm events based on the rainfall depths provided by the isoheytal graphs in the SFWMD's Environmental Resource Permit Applicant's Handbook Volume II. The SID drainage infrastructure is designed to



accommodate the City as a whole, therefore the perimeter berm and peak discharge criteria applies to the overall SID stormwater management system, rather than individual development within the City.

**Table 4.3A Drainage Level of Service Standards**

<b>Storm Event</b>	<b>Intensity of Rainfall Depth (in.)</b>	<b><u>Drainage Level of Service</u> <u>Development, Roads, and Drainage Facilities</u></b>
10 year-1 day	7.4	Local Roads and Parking Lots
25 year-3 day	12	Arterial Roads, <u>Collector Roads</u> , Perimeter Berm, and Peak Discharge
100 year-3 day, zero discharge	14	Finished Floors

*Source: Isohytel Graphs SFWMD's Environmental Resource Permit Applicant's Handbook Volume II*

*\*Perimeter Berm and Peak Discharge are referring to master SID stormwater management system.*

~~The South Florida Water Management District (SFWMD)~~ maintains and implements design elevation guidelines for buildings and road way construction that address possible flooding, as illustrated in the Table 4.3B below.



Table 4.3B Drainage Level of Service Standards

Elevation (NAVD 88)	<u>Development, Roads, and Drainage Facilities</u> <del>Drainage Level of Service</del>
18.23	Local Road Crown
18.23	Parking Lots
19.23	Arterial <u>and Collector</u> Road Crown
19.83	Finished Floors

Source: SFWMD Conceptual Permit 50-0021-S

## GROUND WATER RECHARGE

The City is located within the jurisdiction of the SFWMD, and more specifically, within the SFWMD Lower East Coast (LEC) Planning Area. The principal ground water resource for the LEC Planning Area is the Surficial Aquifer System. The extensive water management and lake system within the City will provide for recharge of the local surficial aquifer consistent with the requirements of the SFWMD.

# CITY OF WESTLAKE



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# CONSERVATION

2018



## CHAPTER 5. CONSERVATION ELEMENT DATA AND ANALYSIS

### INTRODUCTION

This Element addresses the conservation, use, and protection of natural resources in the City, including air, water, water recharge areas, wetlands, waterwells, estuarine marshes, soils, beaches, shores, floodplains, rivers, bays, lakes, harbors, forests, fisheries, ~~and~~ wildlife, marine habitat, minerals, and other natural and environmental resources to the extent they exist~~ing~~ within the City, including factors that affect energy conservation.

### NATURAL RESOURCES

The City is centrally located in the interior of Palm Beach County, almost equidistant from the Intracoastal Waterway and Atlantic Ocean to the east and Lake Okeechobee to the West. Thus, the City does not have any marine habitat, beaches, fisheries, estuarine marshes, harbors, bays or shorelines within its jurisdiction.

Lands within the City have been in active agriculture for over 50 years, which has resulted in the removal of most natural features and habitat within the City, including wildlife habitat and wetlands. Further, though silviculture has been conducted on the property, there is no naturally occurring forest habitat within the City.

The City's climate, soils and minerals, air, floodplains, water resources, ground water recharge areas, land cover, natural habitats including wetlands, wildlife, and other environmentally sensitive lands are analyzed in detail below.

### Climate

The climate of an area affects the amount and type of development, including building practices and structural and design features. Use of climate-appropriate practices supports the efficient use of energy sources, greenhouse gas reduction, and overall resource conservation. The U.S. Department of Energy has designated Building America climate regions based on the International Energy Conservation Code (IECC). Palm Beach County is in the Hot-Humid climate region. (Building America Best Practice Series, Volume 7.3, "Guide to Determining Climate Regions by County." U.S. Department of Energy, August 2015).

~~Normal temperature and precipitation variables for the City are not currently available. However, the National Climate Data Center provides the normal weather variables for temperature and precipitation for Palm Beach County International Airport. The normal temperatures and precipitation amounts will be slightly different for the City, however that data is not currently available.~~ These normal variable are shown in Table 5.1 and Figures 5.1 and 5.2 below. It should be noted that there is some evidence that the summer season may slowly become hotter and longer due to global warming. ("A brief update: Sea Level Rise and Climatic Trends," SFWMD Palm Beach County Water Resources Task Force, April 16, 2015).



**Table 5.1: Temperature (°F) and Precipitation (Inches) by Month at Palm Beach County International Airport**

Month	Precipitation (Inches)	Minimum Temperature (°F)	Average Temperature (°F)	High Temperature (°F)
January	3.13	56.8	65.7	74.6
February	2.82	59.1	67.8	76.5
March	4.59	62.2	70.5	78.7
April	3.66	65.8	73.8	81.7
May	4.51	71	78.4	85.7
June	8.3	74.3	81.4	88.4
July	5.76	75.5	82.7	89.9
August	7.95	75.9	83	90.1
September	8.35	75.2	81.8	88.3
October	5.13	71.7	78.3	84.9
November	4.75	65.5	72.8	80.1
December	3.38	60	68.1	76.2

Source: National Climate Data Center

**Figure 5.1: Temperature (°F) by Month at Palm Beach County International Airport**

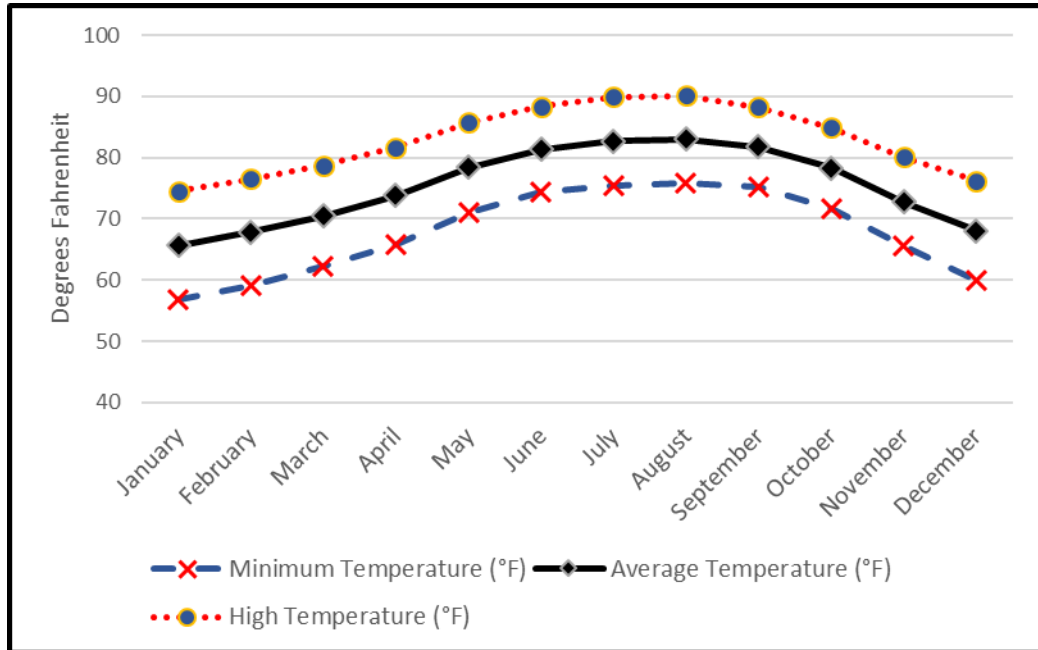
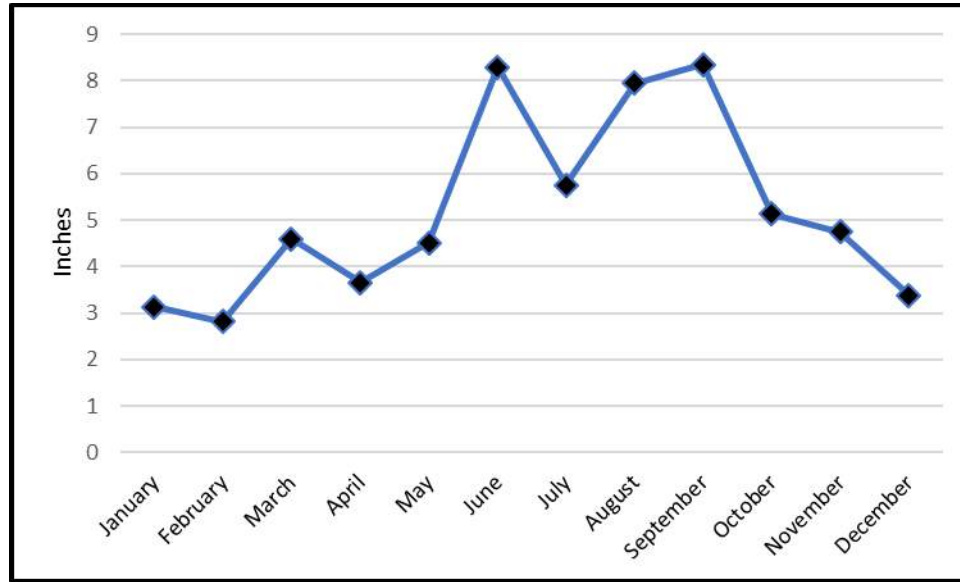




Figure 5.1: Precipitation (Inches) by Month at Palm Beach County International Airport



Useful measures for considering the impact of the climate, as well as month-to-month weather conditions, on energy cost and conservation are “heating degree days” and “cooling degree days.” The National Weather Service of the National Oceanic and Atmospheric Administration provides the following explanation.

*A "degree day" is a unit of measure for recording how hot or how cold it has been over a 24-hour period. The number of degree days applied to any particular day of the week is determined by calculating the mean temperature for the day and then comparing the mean temperature to a base value of 65 degrees F. (The "mean" temperature is calculated by adding together the high for the day and the low for the day, and then dividing the result by 2.)*

*If the mean temperature for the day is, say, 5 degrees higher than 65, then there have been 5 cooling degree days. On the other hand, if the weather has been cool, and the mean temperature is, say, 55 degrees, then there have 10 heating degree days (65 minus 55 equals 10).*

*Why do we want or need to know the number of "degree days?" It is a good way to generally keep track of how much demand there has been for energy needed for either heating or cooling buildings. The cooler (warmer) the weather, the larger the number of "heating (cooling) degree days"... and the larger the number of heating (cooling) degree days, the heavier the demand for energy needed to heat (cool) buildings.*  
<https://www.weather.gov/ffc/degdays>

Palm Beach County has a high number of cooling degree days, 72 days for which air conditioners must be running and where improved building insulation, materials, design, orientation, and vegetation can reduce energy use and costs.





The Florida Climate Center, Office of the State Climatologist at Florida State University provides data on heating and cooling degree days for the ~~West~~ Palm Beach International Airport. These are shown in Table 5.3 below. ~~There are 4,255 degree days for the Palm Beach County International Airport.~~

**Table 5.3: 1981-2010 Degree Days for Palm Beach County International Airport**

	Heating Degree Days	Cooling Degree Days
January	86	108
February	48	127
March	24	193
April	4	267
May	0.5	414
June	0	490
July	0	549
August	0	558
September	0	502
October	1	413
November	11	245
December	59	155

Source: Florida Climate Center

People, buildings, and infrastructure are also affected by severe weather conditions. Palm Beach County has been affected by several hurricanes, flooding events, and severe wind events in recent years. Hurricane events include Irma in 2017, Wilma in 2005, and Jeanne and Frances in 2004. Flooding conditions like those that occurred in January of 2014 ~~are have occurred~~ due to unusual convergences of rain producing conditions, ~~such as occurred in January of 2014~~ ([https://www.weather.gov/mfl/palm\\_beach\\_flood\\_010914](https://www.weather.gov/mfl/palm_beach_flood_010914)). High wind events such as tornadoes are relatively rare, but do occur ([https://www.weather.gov/mfl/pb\\_tornado](https://www.weather.gov/mfl/pb_tornado)).

Climate related events such as sea level rise may also affect Palm Beach County in the long-term future. All of Florida will be impacted directly or indirectly if ~~the~~ high sea level rise forecasts are realized. According to the ~~South Florida Water Management District (SFWMD)~~, sea level rise may affect flood control, water supply, natural systems, and water quality. Key vulnerabilities include reduced flood discharge capacity, reduced flood capacity in secondary canal systems, saltwater intrusion, and inundation of coastal wetlands and changes in ecology.

Fortunately for the City, Palm Beach County is in relatively better condition than other counties in southeast Florida due to its topography and the existence of fewer waterways west of the Intercoastal Waterway. (Sources include "Vulnerability Analysis for Southeast Florida to Sea Level Rise;" "Climate Change and Sea Level Rise Planning and Adaptation Strategies;" SFWMD. 2010; and "A brief update: Sea Level Rise and Climatic Trends," SFWMD Palm Beach County Water Resources Task Force. April 16, 2015). Due to the City's location west of the coastal area, it is less likely to experience the direct inundation from sea level rise that



may occur in the coastal communities, especially along waterways. (“Analysis of the Vulnerability of Southeast Florida to Sea Level Rise.” -Southeast Florida Regional Compact Climate Change—). Several resources are available regarding this issue and may be found at [www.flseagrant.org/climate-change/sea-level-rise/](http://www.flseagrant.org/climate-change/sea-level-rise/) and <https://coast.noaa.gov/digitalcoast/stories/slr.html>.

### Soils and Minerals

The general distribution of soils within the City is shown on FLU Map 2.3, which is based on the soil survey of Palm Beach County conducted by the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service. ([www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=FL](http://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=FL)).

The survey identifies the following soil series in the City: Arents-Urban Land Complex (0 To 5 % Slopes), Arents-Urban Land Complex (Organic Substratum), Boca Fine Sand, Chobee Fine Sandy Loam, Floridana Fine Sand, Hallandale Fine Sand, Okeelanta Muck, Pineda Fine Sand, Pinellas Fine Sand, Riviera Fine Sand, Riviera Fine Sand (Depressional), Tequesta Muck, Wabasso Fine Sand and Water. The USDA describes these soils as follows:

**Arents--Urban Land Complex** – This complex consists of nearly level, somewhat poorly drained, sandy soils and urban land overlying organic soils. These areas were formerly organic marshes and swamps that were filled for urban use. This complex is primarily in the vicinity of Lake Mangonia and Clear Lake in the Palm Springs area, but it is also in a few places along the Intracoastal Waterway. Arents consist of lawns, vacant lots, undeveloped areas, and other open land. Urban land consists of areas covered by streets, side-walks, driveways, houses, and other structures.

**Boca Fine Sand** – The Boca series consists of moderately deep, poorly drained and very poorly drained, moderately permeable soils in low broad flats, poorly defined drainage-ways and depressions of the flatwoods and adjacent tidal flats. They formed in sandy and loamy marine sediments deposited over limestone bedrock.

**Chobee Fine Sandy Loam** –The Chobee series consists of very deep, very poorly drained, slowly to very slowly permeable soils in depressions, flats, and occasionally on river flood plains in the lower Coastal Plain. They formed in thick beds of loamy marine sediments.

**Floridana Fine Sand** – The Floridana series consists of very deep, very poorly drained, slowly to very slowly permeable soils on low broad flats, flood plains, and in depressional areas. They formed in thick beds of sandy and loamy marine sediments.

**Hallandale Fine Sand** – The Hallandale series consists of shallow, poorly and very poorly drained, rapidly permeable soils formed in thin deposits of marine sandy materials over limestone. They occur on broad low flats, sloughs, shallow depressions, and adjacent tidal areas in Peninsular Florida. They are saturated during the summer rainy season and after periods of heavy rainfall in other seasons.



Okeelanta Muck – The Okeelanta series consists of very deep, very poorly drained, rapidly permeable soils in large fresh water marshes and small depressional areas. They formed in decomposed hydrophytic non-woody organic material overlying sand.

Pineda Fine Sand – The Pineda series consists of deep and very deep, poorly and very poorly drained, very slowly permeable soils in depressions, low hammocks, poorly defined drainageways, broad low flats, and flood plains. They formed in thick beds of sandy and loamy marine sediments on the lower Coastal Plain.

Pinellas Fine Sand – The Pinellas series consists of very deep, poorly drained, very rapid to rapidly permeable soils on flats that border sloughs and depressions. They formed in sandy marine sediments over loamy sediments.

Riviera Fine Sand – The Riviera series consists of nearly level, poorly drained soils that have a loamy subsoil. These soils are on broad, low areas and in depressions. They formed in beds of sandy and loamy marine sediment.

Tequesta Muck – The Tequesta series consists of nearly level, very poorly drained soils that have a thin organic layer overlying a mineral soil that has a sandy surface layer, a sandy subsurface layer and a loamy subsoil. Tequesta Muck is on broad, low flats and in marshes and depressions.

Wabasso Fine Sand – The Wabasso series consists of nearly level, poorly drained, sandy soils that have a black, weakly cemented sandy layer over loamy material. These soils are in broad, flatwoods areas. They formed in thick beds of sandy marine sediment and the underlying loamy material. Wabasso fine sand is found in broad, flatwoods areas.

There are no areas within the City known to have experienced soil erosion problems. In addition, there are no known sources of commercially valuable minerals ~~and/or~~ there is no mining of mineral deposits within the City. Mining is not allowed by the Plan.

## Air

Air quality within the City is generally good. Based upon ambient air quality monitoring conducted by the Florida Department of Environmental Protection (FDEP) and documented in the 2012 Florida Air Monitoring Report, Palm Beach County is an attainment area for five of the six major air contaminants: carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO<sub>2</sub>), particulate matter (PM), and sulfur dioxide (SO<sub>2</sub>). The attainment area designation indicates that the concentrations of major pollutants are within the acceptable limits set by the FDEP and the U.S. Environmental Protection Agency (EPA).

Palm Beach County is classified as an attainment/maintenance area for the pollutant ozone (O<sub>3</sub>). A maintenance area is an area previously classified as non-attainment, ~~which that~~ has successfully reduced air pollutant concentrations to below the standard, but must maintain some of the non-attainment area plans to stay in compliance with the standards. However, the U.S. Environmental Protection Agency (EPA) reports



that “the 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.” (<https://www3.epa.gov/airquality/greenbook/ancl.html>).

Therefore, although the most recent data available from FDEP indicates a level of ozone comparable to the level in 2012, the previous standards no longer exist~~s~~.

(see [http://www.dep.state.fl.us/air/air\\_quality/techrpt/quick/Quicklook-2015-q1-q3.pdf](http://www.dep.state.fl.us/air/air_quality/techrpt/quick/Quicklook-2015-q1-q3.pdf)).

Palm Beach County is no longer classified as a nonattainment area for any of these air pollutants, i.e. it is an attainment area for classified pollutants. The Palm Beach County Health Department ~~also~~ monitors ambient air quality and regulates mobile and stationary sources of air pollution. It also administers the asbestos and open burning regulations and implements Pollution Prevention (P2) programs.

### Floodplains

A floodplain is a strip of relatively flat land bordering a stream channel that is inundated at times of high water. ([https://water.usgs.gov/water-basics\\_glossary.html](https://water.usgs.gov/water-basics_glossary.html)). In undeveloped areas, typically adjacent to natural water bodies, flooding may occur with such frequency so as to create and support floodplain ecosystems. However, in the City, such natural flow regimes have been replaced by a ~~managed~~ drainage system managed by SID that regulates water levels and flows. Natural floodplains do not exist in the City.

In developed and developing areas like the City, flooding may occur from rainfall events. Areas that may be inundated by a 100-year storm event have been delineated by the Federal Emergency Management Agency as part of the National Flood Insurance Program. These areas are designated as Special Flood Hazard Areas (FLU Map 2.4) on the Flood Insurance Rate Map (FIRM). The FIRM (dated October 5, 2017) shows that portions of the City are within the AE special flood hazard area which is subject to inundation by the 1% annual chance flood. There is a 1 percent chance of the 100-year flood (also known as the base flood) being equaled or exceeded in any given year. The AE area designation means that a base flood elevation (BFE) has been determined. The BFE is the computed elevation to which floodwater is anticipated to rise during the base flood (100-year flood). The BFE is used in conjunction with the federal flood insurance program. The BFE for the AE area in the City is 18.5 feet (referenced to the North American Vertical Datum of 1988). The City has adopted minimum development elevations as part of its stormwater level of service standards. These elevations exceed the BFE in order to protect development from flooding events.

The areas designated AE by FEMA include the man-made swales, ditches, and canals ~~that had been~~ used for agricultural irrigation and surface water management. ~~There are also~~ In addition, some farm fields ~~that were~~ at lower lying elevations and some stormwater retention/detention areas are designated AE. As development of the City proceeds, these lower lying areas are anticipated to be reconfigured, either will likely be filled or transformed into an urban stormwater management system of connected lakes. ~~In the future~~ Thus, the current AE designations will have less relevance to future flooding concerns.



## Water Resources

There are no natural rivers, bays, or lakes, in the City. All surface waters in the City are manmade and consist of ditches, swales, canals, and retention/detention ponds in association with either the previous agricultural operations or existing development. These existing features are anticipated to be substantially replaced and/or modified as urban development replaces the existing agricultural uses.

The City is bisected by the M-2 Canal to the west. The existing drainage facilities, constructed and maintained by SID, consist of a perimeter canal, numerous primary ~~canals, and~~ lateral canals, internal culverts, and control structures. The proposed stormwater management system for the City will consist of a network of inlets, culverts, lakes, created shallow vegetated areas, and outfall structures. Water quality treatment will be provided on-site in the lakes and shallow vegetated areas. Discharges will be directed to the M-2 Canal, which flows into the C-51 Canal. The stormwater management system is permitted by the SFWMD and will be designed to meet the requirements of the SFWMD C-51 Basin Rule found in Part III, Ch. 40E-41, Rules 40E-41.220 through 40E-41.265, Florida Administrative Code).

The M Canal runs along the northern boundary of the City west of Seminole Pratt Whitney Road, and within the City boundary east of Seminole Pratt Whitney Road. Westlake does not use the M Canal as a public water supply; however, the City of West Palm Beach does use the M Canal as a public water supply. The City's stormwater management and drainage, which is under SID's jurisdiction, is separate from and unconnected to the M Canal. The M-2 canal serves as the City's drainage canal, which carries water to the C-51 Basin.

There are no natural springs or potable water wells within the City. As agricultural uses are converted to urban development, water demand will diminish, as residential and commercial uses demand less water than agriculture.

## Ground Water Recharge

The City is regulated by the SFWMD. The City is located within the SFWMD's Lower East Coast (LEC) Planning Area. The principal ground water resource for the LEC Planning Area ~~are~~is the Surficial Aquifer System. The extensive water management and lake system within the City has been permitted by the SFWMD and will provide for recharge of the local surficial aquifer as required by District regulations.

## Water Conservation and Reuse Water

Palm Beach County supplies reuse water to SID through an Interlocal Agreement for the Purchase and Sale of Bulk Reclaimed Water dated April 20, 2010. The City residents will use reuse water from SID for landscape irrigation. The existing SID water use permit, which allows for withdrawals from the M Canal for agricultural irrigation purposes, has demands based on the irrigation requirements for agricultural crops. SID will modify its permit over the long term planning period consist with SFWMD requirements as the City develops and agricultural land converts to other land uses. If reuse is not available from the County, it will be supplemented with surface water as allowed pursuant to SID's permit with the South Florida Water Management District. The existing permitted water use allocation (3,000 MGD) can cover the reuse needs of the entire City if reuse is not available from the County.



## LAND COVER

### Natural Habitats

The historical agricultural use of land that now comprises the City resulted in the elimination of all native and natural habitat features. The entire City has been altered for agricultural use, originally for citrus production. The clearing, ditching, and crop activities of the past 50+~~plus~~ years have erased any natural systems that would have occurred historically on the site. The more recent conversions to varied agricultural uses in the City have continued this condition. As a result, there is less than one acre of native habitat or natural features within the City.

### Wetlands

The agriculture improvements and operations that have been conducted for the past 50 plus years have resulted in no naturally occurring wetlands within the City. There are approximately 258.5± acres of surface waters existing today throughout the City, which consist of man-made swales, ditches, and canals that are currently used or were previously used, for agricultural irrigation at the site, and for surface water management. The swales primarily consist of very shallow depressional areas which can either contain shallow standing water or no water. The ditches primarily consist of unvegetated water areas with steep-sided unvegetated banks that experience frequently fluctuating water levels depending on on-site agricultural irrigation activities and surface water management. The canals primarily consist of unvegetated, deep water areas with steep-sided unvegetated banks.

During the permitting process for the Minto development, Minto purchased 5.90 freshwater herbaceous federal credits from the Loxahatchee Mitigation Bank in conjunction with the Army Corps of Engineers (ACOE) Permit No. SAJ-2004-07618, which mitigates for ~~wetlands~~ Waters of the United States on the property at the time of the permit.

### Uplands

As noted earlier, due to previous agricultural activities, no existing native habitats or natural features exist within the City. The agricultural activities since 1964 ~~and 1968~~ eliminated any native upland habitats or natural features that may have been present on the property prior to agricultural development.

Although there are areas within the City in which native vegetation can be found, these are limited to tree nursery and pine plantation areas where native species are being cultivated for commercial sale or uses. They do not constitute forests, native habitats or natural features as they are monotypic single species stands under cultivation for production of landscape vegetation or silviculture ~~production~~.



## WILDLIFE

### Protected Species

Wildlife is a valuable resource within the Palm Beach County area. Although there are no naturally occurring wetlands or preferred habitat for wetland-dependent endangered or threatened wildlife species or species of special concern within the City, man-made ditches, canals, and excavated ponds can support a large number of wildlife species. To date, there are no known threatened or endangered species living within the City.

### Invasive Species

South Florida has become an inviting destination for some undesirable species that threaten to undermine the health of the environment. More than an inconvenience, invasive plants and animals can greatly alter the native landscape, adversely impact native wildlife, destroy agricultural crops and threaten public health.

#### Invasive Plants

Non-native invasive plants were brought into Florida through a variety of methods. ~~Not all~~ Certain non-native plants are as more harmful to the ecosystems of Florida thanas others. Those that begin to cause widespread ecological damage to the native plant and animal communities are called invasive. These non-native invasive plants grow quickly, produce abundant seeds, have no natural enemies, flourish in a wide range of soil conditions, and prevent native species from growing. These invaders destroy natural habitat, out competing native plants for space, soil, sunlight, air, and water. This loss of habitat impacts Florida wildlife. Local and State governments are also affected, spending millions annually to control these invasive non-native plants and to restore natural habitat which has been impacted due to their prolificacy.

Having been in active agriculture over the past 50 years, there are few invasive species remaining within the City. The Plan requires removal of all invasive ~~plant species~~ vegetation identified by the Florida Exotic Pest Plant Council found during the process of approving new development within the City.

#### Invasive Animal Species

Invasive animal species are not native to Florida and are introduced by human activity. They are brought in either intentionally as ornamentals or pets, or accidentally, as hitchhikers that arrive at airports, seaports or through the mail. Species have always moved around the globe, and the majority are is not problematic. It is today's enormous volume of global trade and travel that provides an unprecedented opportunity for species to invade. One-third of all plant species in Florida are now exotic.

(<https://nps.gov/ever/learn/education/upload/2008-Florida-invaders-For-web.pdf>).

Having been in active agriculture over the past 50 years, there is no natural habitat for either native or invasive species within the City. ~~Nonetheless, the Plan requires removal of all invasive animal species found during the process of approving new development within the City.~~



## ENVIRONMENTALLY SENSITIVE LANDS

Environmentally sensitive lands have not been identified or designated within the City. As previously described, the majority of the lands have been utilized for agricultural ale purposes resulting in the elimination of all native and natural habitat features. Therefore 163.3177(6)(d)2.h., Florida Statutes is not applicable. ~~Environmentally sensitive lands have not been designated within the City.~~



# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# RECREATION AND OPEN SPACE

2018



# CHAPTER 6. RECREATION AND OPEN SPACE ELEMENT DATA AND ANALYSIS

## INTRODUCTION

The purpose of the Recreation and Open Space Element is to foster recreation uses and open space that will support the local population, and provide for the creation of natural features; tree-lined ~~parkways, streets and trails~~roads and shared use paths; parks; and lakes and canals. The recreation uses and open space provided for in this element may also foster a sense of place in the community. Furthermore, this element is intended to guide the decision making process relative to recreation ~~facilities, facility development,~~ and programs, including ongoing funding and maintenance, -to meet the recreational needs of the residents through~~out~~ the short and long term planning periods.



Example of a passive park gathering space

Recreation areas and open spaces provide opportunities for social interaction, enable healthy and active lifestyles, and contribute to the overall urban form. The City will have a community park in addition to neighborhood parks. The parks will consist of active and passive recreation opportunities.

~~The public parks and recreation facilities will remain under control of SID in the short-term planning period.~~

## CITY PARKS

### Neighborhood Parks

The neighborhood park is a "walk to" park generally located along streets where people can walk or bicycle without encountering heavy traffic. Because the service areas of a neighborhood park and an elementary school often coincide, it is desirable for the neighborhood park to physically join ~~the an~~ elementary school when feasible. Both park and school serve the same basic population, share compatible land uses, and maintain recreation facilities that are of mutual benefit.

### Community Parks

A community park is a "ride to" park located near major streets or arterials. Multi-modal access to community parks is strongly encouraged. Multi-modal access can be ~~enhanced by accomplished through roads, bicycle lane paths, shared use paths, and sidewalks, and pedestrian walkways.~~ Typical facilities found in community parks include both passive and active recreation opportunities such as playground areas, recreation buildings, sports fields, paved multipurpose courts, picnic areas, open or free play area, swimming pools, and landscaping. Adequate off-street parking may be needed to contain parking overflow.



## OPEN SPACE

Open space may serve several purposes including the provision of or access to outdoor recreation; shaping and enhancing urban form including the provision of plazas, courtyards, squares, attractive landscapes, transportation corridor parkways, and vegetated buffers; and management of water resources. Open spaces may assist in providing for land use compatibility, accessibility to recreational opportunities, and stormwater management.

~~Open space exists principally to intersperse congested urban environments with aesthetically pleasing buffer areas, and to provide passive recreation opportunities. These areas are typically located within built-up areas and, in some cases, may offer benches, commemorative structures, or art in public places.~~

## PALM BEACH COUNTY FACILITIES

### Palm Beach County School District Lands

While, nNot classified as park, lands owned and maintained by the Palm Beach County School District are still considered as part of the City’s recreation and open space system. School lands contain baseball, soccer, and football fields, tennis courts, and indoor recreation facilities that are or may be available toby the public and may be considered part of the City’s open space system. ~~Because the service areas of a neighborhood park and an elementary school often coincide, it is desirable for the neighborhood park to physically join the elementary school when feasible. Both park and school serve the same basic population, share compatible land uses, and maintain recreation facilities that are of mutual benefit.~~

### Palm Beach County Regional and District Parks

In addition to the anticipated community and neighborhood parks mentioned above, the following Palm Beach County regional and district parks and beaches will also service City residents. Palm Beach County recognizes three types of parks: regional, district, and beach parks, which are generally described as follows. Palm Beach County Regional Parks are the largest class of parks in Palm Beach County, and generally exceed 200 acres in size and provide access to a substantial natural or manmade resource ~~base~~. Palm Beach County Regional Parks typically provide passive recreational facilities, and to a lesser degree, active regional facilities. Palm Beach County District Parks are generally greater than 25 acres in size and primarily provide active recreational opportunities, but can also include passive recreational facilities. District Park recreational facilities can included lighted fields or course ~~s~~; exercise trails ~~s~~; support facilities such as restrooms, concessions, and parking ~~s~~; ~~and may also include~~ recreation centers ~~s~~; competitions pools ~~s~~; golf courses ~~s~~; boat ramps ~~s~~; and docks. Palm Beach County Beach Parks are generally greater than 2 acres in size ~~s~~, ~~and~~ front the Atlantic Ocean, or its inlets, and provide public beach access. ~~Beach parks, and~~ may



Okeehelie Park



Seminole Palms Park



Phil Foster Park



include recreational facilities necessary to support beach access and activities, play areas, picnic areas, and parking.

Okeehetee Park is a 1,702 acre regional park located at 7715 Forest Hill Boulevard, west of West Palm Beach, Florida. The facility is open from sunrise until sunset and includes baseball fields, bike paths, a BMX track, a boating area, a dog park, an equestrian center and trail, a golf course, mountain biking paths, multi-purpose fields, a nature center, picnic areas and pavilions, a playground, softball field, tennis courts, and volleyball courts. Seminole Palms Park is a 70 acre District Park located at 151 Lamstein Lane, Royal Palm Beach, Florida. The facility is open from sunrise to sunset and includes baseball fields, multi-purpose fields, picnic areas, playgrounds, softball fields, and a water park. Phil Foster Park is a 14 acre beach located at 900 East Blue Heron Boulevard, Riviera Beach, Florida. The facility is open sunrise to sunset and offers beach frontage, docks and ramps, fishing platforms, picnic areas, a fishing pier, a playground, restrooms, and showers.



Okeehetee Park



Seminole Palms Park



Phil Foster Park

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# HOUSING

2018

# CHAPTER 7. HOUSING ELEMENT DATA AND ANALYSIS

## INTRODUCTION

At the time of ~~municipal~~-incorporation in 2016, the City ~~of Westlake~~ had a population of only six persons residing in four housing units. A windshield survey showed that those existing units are structurally sound, contain plumbing and kitchen facilities, and have electrical and utility services. Those existing housing units do not represent the anticipated housing development of the City over the short and long term planning periods.

It is anticipated that by the end of 2018, there will be approximately 150 housing units built within the City of Westlake. By 2023, 1,575 housing units are projected and by 2038, 6,500 housing units are projected. This ~~initial~~-Housing Element focuses on the provision of adequate and affordable housing for ~~those~~ anticipated future residents of the City.

The City of Westlake is planned to serve unmet land use and development needs in the vicinity which is characterized by low-density residential uses. The future population and housing conditions in the City will not match~~be distinct from~~ the nearby area and are envisioned to~~will~~ complement the development profile of the central county area. Therefore, it shall be assumed that the City will contain housing more similar to the broader housing conditions in the surrounding Census County Divisions (CCDs), than housing conditions ~~of~~ in the immediately surrounding communities of the Acreage (a Census Designated Place, or a "CDF") with an estimated 2017 population of about 38,000 persons; the Town of Loxahatchee Groves with an estimated 2017 population of about 3,300; or Palm Beach County as a whole.

The City of Westlake is located within the Royal Palm Beach-West Jupiter CCD, as are the two closest municipalities of Loxahatchee Groves and Royal Palm Beach. The Acreage is located along the northern, eastern and southwestern borders of the City. The Western Community CCD is located to the north and the Sunshine Parkway CCD is located to the south. Figure 7.1 shows these CCDs. These three CCDs exclude the older communities in the eastern portion of the county, including the higher density housing near the coast, which do not reflect the type and style of housing expected in the City. The three CCDs also exclude the communities located near Lake Okeechobee.

Housing data and analysis for these three CCDs will be combined and ~~be~~-used as ~~a~~-temporary substitute measures for future City housing conditions. The use of the combined CCDs serves to moderate the differences in housing and household characteristics that exist within the CCDs. The data which follows will illustrate the significant variation among some of the sub-areas included within the three CCDs. Figure 7.2 shows these Census areas and incorporated places surrounding the City.



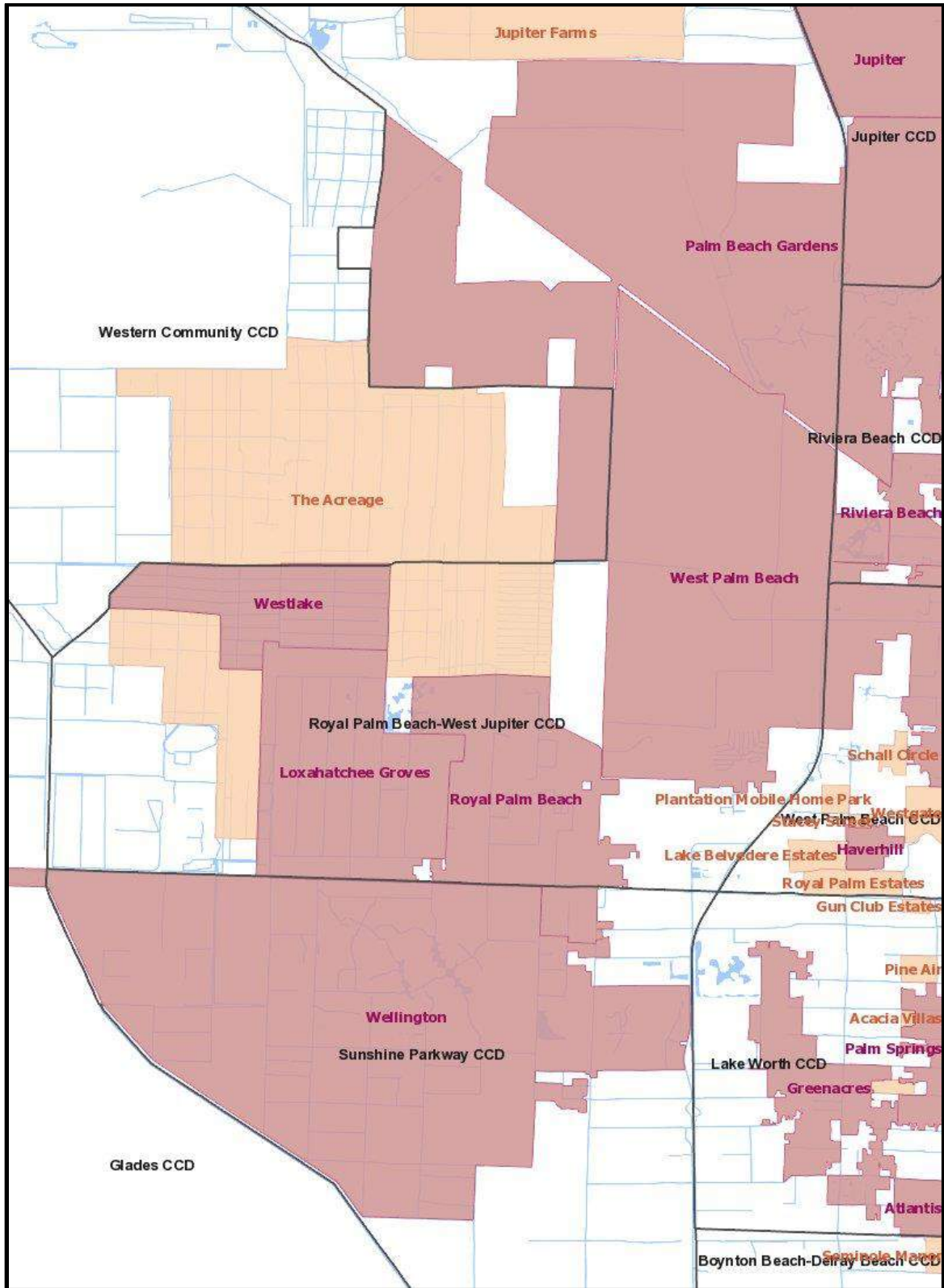
Figure 7.1: Census County Divisions in Palm Beach County



Source: <https://tigerweb.geo.census.gov/tigerweb/>



Figure 7.2: Census County Divisions, Census Designated Places, and Incorporated Places Surrounding the City of Westlake



Source: <https://tigerweb.geo.census.gov/tigerweb/>





Florida Housing Data Clearinghouse information has not been compiled by the Shimberg Center for Housing Studies for the City of Westlake. The City will update the data and analysis in the future when the Shimberg Center for Housing Studies has provided the data. Also, once substantial housing development occurs within the City, this data and analysis section will be updated to use City-specific data. At this time, however, the best available data is provided by the 2010 Decennial Census and the 2015 5-Year American Community Survey (ACS). The 2010 Census is an actual count whereas the ACS is based on a sample survey. All data presented here from the ACS has statistically calculated margins of error. Both data sources are used. The 2010 Census generally has more accurate information with regard to people, housing, and households, but does not include other data, e.g. income and housing costs, which is only available from the ACS. Since the data are not City data, but are used to represent future City conditions, descriptive statistics, such as averages or percentages are more useful than actual numbers. For example, the number of occupied housing units in the three CCDs is not relevant whereas the percentage of housing units that are occupied can be useful for planning purposes.

## EXISTING HOUSING CONDITIONS

### Housing Characteristics – Type of Housing

Within the surrounding CCDs, as shown in Table 7.1, single-family houses (one-unit, detached and attached) constitute 77 percent~~age~~ of the total number of housing units, which is higher than the countywide percent~~age~~ of 56 percent. The surrounding CCDs have the highest percentage of single family houses of all CCDs in the county. However, there is also considerable variation of housing type within the surrounding CCDs. For example, the adjacent communities of Loxahatchee Grove and the Acreage have much higher percentages of single-family houses – with 93 percent and 99 percent of their housing stock in single-family houses, respectively – than Royal Palm Beach and Wellington, which have 78 percent and 81 percent of their housing stock in single-family houses, respectively. Conversely, the Glades and West Palm Beach CCDs have the lowest percentages of single family houses in the county, at 22 and 38 percent, respectively. Thus, while the percent~~age~~ of single-family houses in the surrounding CCDs is higher than the county as a whole, it is much lower than the percentage in the nearest communities. Figure 7.3 is a column chart that compares the single-family house percentages in the proximate geographic areas.

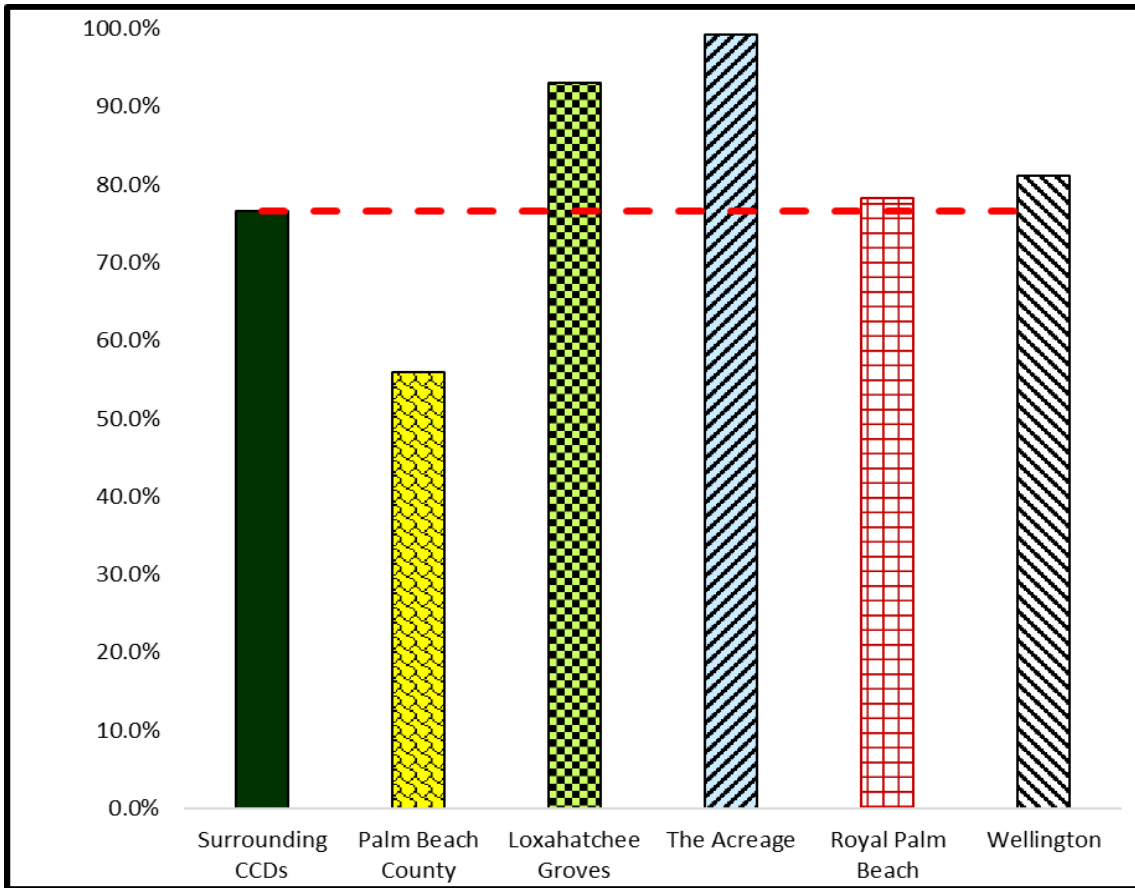


**Table 7.1: Type of Housing Including the Percentage of Total Housing Units by Number of Units in Structure**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage	Royal Palm Beach	Wellington
<b>Type of Unit / Units in Structure</b>						
One-Unit Detached	66.5%	45.9%	92.6%	99.1%	70.8%	73.0%
One-Unit Attached	10.1%	10.1%	0.5%	0.2%	7.4%	8.2%
Two-Units	1.3%	3.1%	0.0%	0.0%	1.3%	3.1%
Three or Four	4.6%	7.2%	0.0%	0.0%	4.1%	5.1%
Five to Nine	4.8%	6.2%	0.6%	0.0%	6.0%	3.8%
Ten to Nineteen	4.0%	6.2%	0.0%	0.0%	7.3%	2.7%
Twenty or more	7.3%	18.5%	0.0%	0.1%	2.3%	3.0%
Mobile Home	1.4%	2.8%	6.1%	0.6%	0.7%	0.8%
Other (Boat, RV, Van, etc.)	0.0%	0.0%	0.4%	0.0%	0.0%	0.1%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

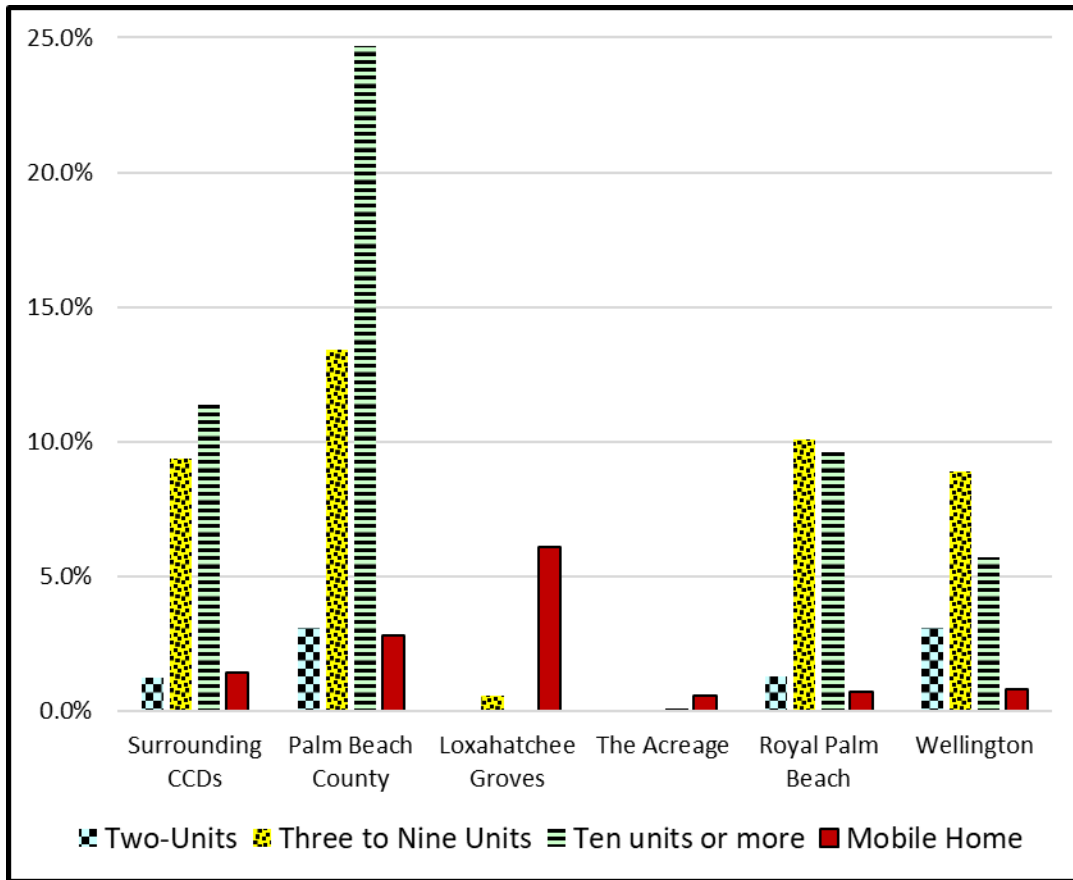
**Figure 7.3: Percentage of Total Housing Units in One-Unit Structures (Both Detached and Attached)**





About 22 percent of housing units in the surrounding CCDs are multi-family. This is also higher than the corresponding percentages in the Acreage, Loxahatchee, Royal Palm Beach and Wellington. Mobile homes constitute 1.4 percent, which is a higher percentage than the Acreage, Royal Palm Beach, and Wellington. Figure 7.4 is a column chart that compares multi-family and mobile home housing unit percentages in the various geographic areas. The chart clearly shows the scarcity of multi-family housing in the two adjacent communities of the Acreage and Loxahatchee Groves.

Figure 7.4: Percent of Total Housing Units in Multi-Unit Structures and Mobile Homes



### Housing Characteristics – Age of Housing

The age of the housing stock in the surrounding CCDs are presented in Table 7.2. This data shows that housing in the three surrounding CCDs is newer than housing in the county as a whole. About 64 percent of housing in Palm Beach County was built since-after 1989, whereas about 85 percent of housing in the surrounding CCDs was built since-after 1989. Figure 7.5 charts the age of housing. The housing in the City will be newly built, and will conform to the latest Florida Building Code, and therefore, is likely to remain in good condition for the duration of the long term planning period.

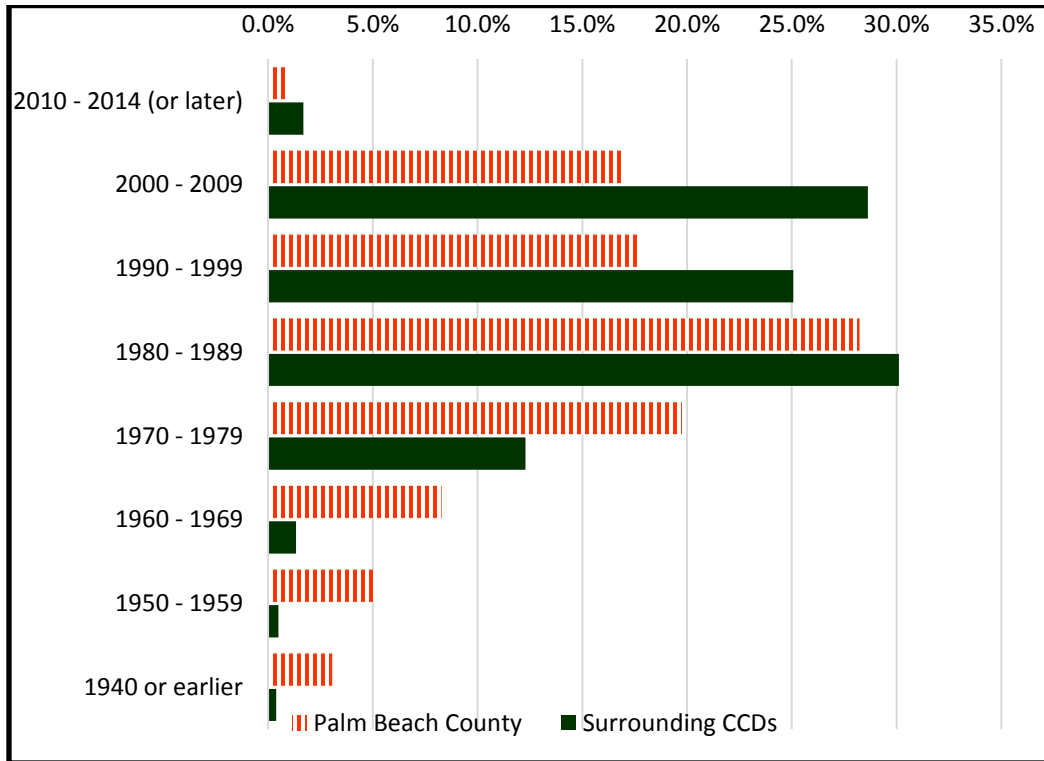


**Table 7.2: Age of Housing Units**

Year Structure Built	Surrounding CCDs	Palm Beach County
Built 2014 or later	0.2%	0.1%
2010 - 2013	1.5%	0.8%
2000 - 2009	28.6%	16.9%
1990 - 1999	25.1%	17.7%
1980 - 1989	30.1%	28.2%
1970 - 1979	12.3%	19.8%
1960 - 1969	1.3%	8.3%
1950 - 1959	0.5%	5.1%
1940 - 1949	0.1%	1.3%
1939 or earlier	0.3%	1.7%

Source: U.S. Census, ACS\_15\_5YR\_B25034

**Figure 7.5: Age of Housing Units in Surrounding CCDs and Palm Beach County**



## Housing Characteristics: Average Household Size

The 2010 Census defines a household as all the people who occupy a housing unit such as a house or apartment as their usual place of residence. A household may be a family household or a non-family household, which may include someone living alone or two or more non-related persons, e.g., roommates, [living together](#). Average household size (also referred to as Population Per Household or PPH) is presented for the three surrounding CCDs as well as Palm Beach County and other nearby areas in Table 7.3. The 2.65



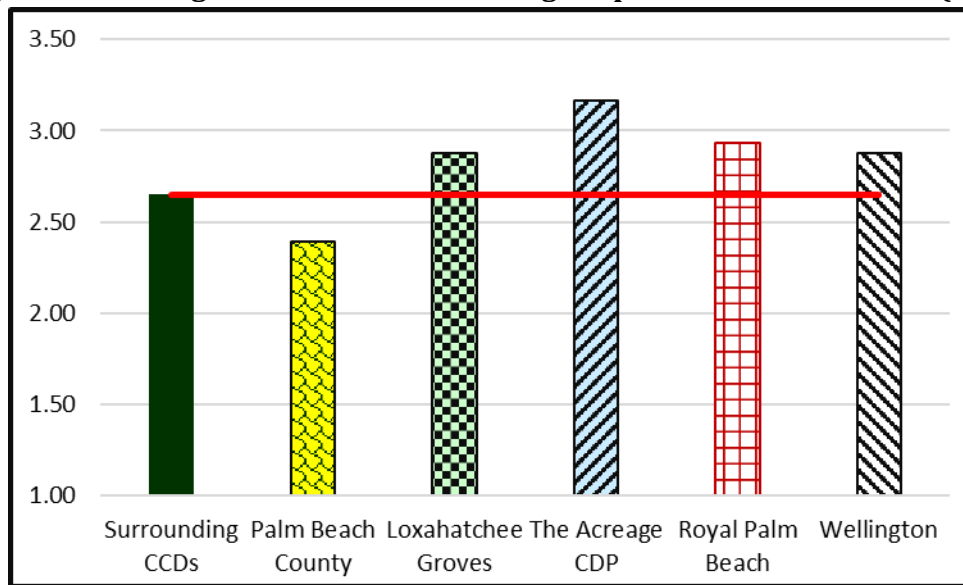
PPH for the surrounding CCDs is lower than all of the surrounding communities, but higher than the county’s PPH. Figure 7.6 charts the PPHs for easy comparison. Table 7.3 also shows average household size based on tenure, i.e. owner and renter housing, which is addressed in the next section.

**Table 7.3: Average Household Size -Population Per Household (PPH)**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
<b>All Occupied Housing Units</b>	2.65	2.39	2.88	3.17	2.93	2.87
<b>Owner Occupied Housing Units</b>	2.63	2.34	2.87	3.15	2.87	2.85
<b>Renter Occupied Housing Units</b>	2.75	2.5	2.92	3.39	3.25	2.97

Source: U.S. Census: DEC\_10\_DP1

**Figure 7.6: Average Household Size – Average Population Per Household (PPH)**





## Housing Characteristics - Tenure

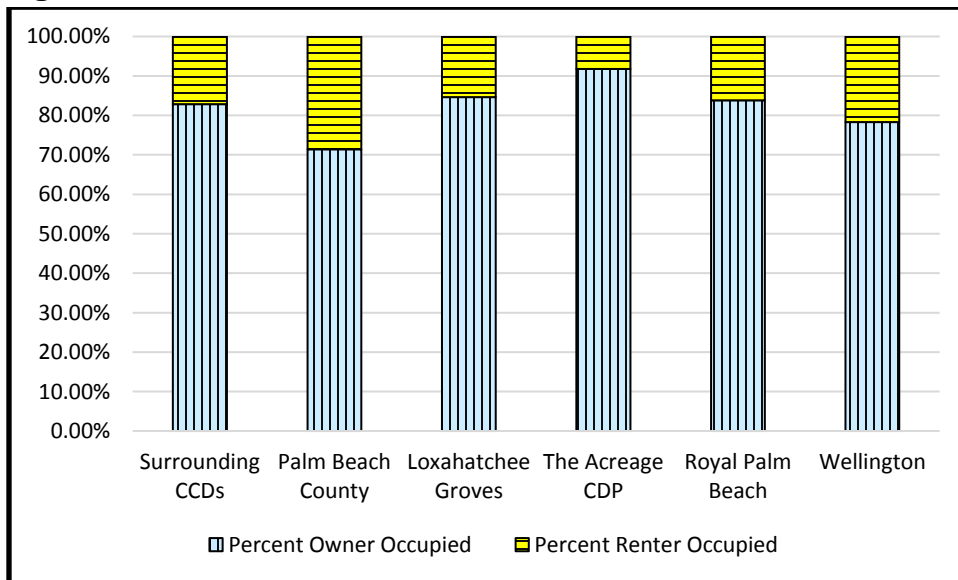
Tenure “refers to the distinction between owner-occupied and renter-occupied housing units.” (U.S. Census). Table 7.4 shows a significant difference in the percent of renter households for the county as a whole compared to the central county area (the surrounding CCDs). In particular, the percentages of rental housing in the Acreage, Loxahatchee Groves, and Royal Palm Beach are much lower than the county as a whole. These differences are charted in Figure 7.7. It is frequently observed that owning a house is an aspiration of most Americans – part of the “American Dream.” However, for many, renting is a much more affordable option. Rental housing (e.g., apartments) are clearly a necessary part of the affordable housing market and are specifically allowed under the Plan.

**Table 7.4: Household Characteristics – Tenure, Percent Owned and Rented**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Percent Owner Occupied	82.88%	71.38%	84.62%	91.80%	83.80%	78.31%
Percent Renter Occupied	17.12%	28.62%	15.38%	8.20%	16.20%	21.69%

Source: US Census DEC\_10\_SF1\_SF1DP1

**Figure 7.7: Tenure – Percent Owned and Rented**





## Housing Characteristics – Occupancy and Vacancy

Household occupancy and vacancy rates are shown in Table 7.5 and charted in Figure 7.8. The occupancy rate ~~is of~~ about 87 percent for the surrounding CCDs ~~is the percent of all housing units that are occupied~~. The total vacancy rate, of about 13 percent for the surrounding CCDs, includes vacancies for rent; rented but not occupied; for sale only; sold but not occupied; for seasonal, recreational, or occasional use; and vacancies for other reasons. The seasonal vacancy rate of almost 6 percent for the surrounding CCDs is a part of the total vacancy rate and has also been listed separately in order to project the seasonal population living in housing units. The number of occupied housing units equals the number of households. The occupancy rate for the three surrounding CCDs as well as for Loxahatchee Groves, the Acreage, and Royal Palm Beach is higher than the county as a whole. The corresponding vacancy rates are lower, especially for the nearest residential areas. This reflects a tighter residential real estate market for this part of the county relative to the county as a whole. In other words, demand for housing is higher relative to available supply compared to the rest of the county.

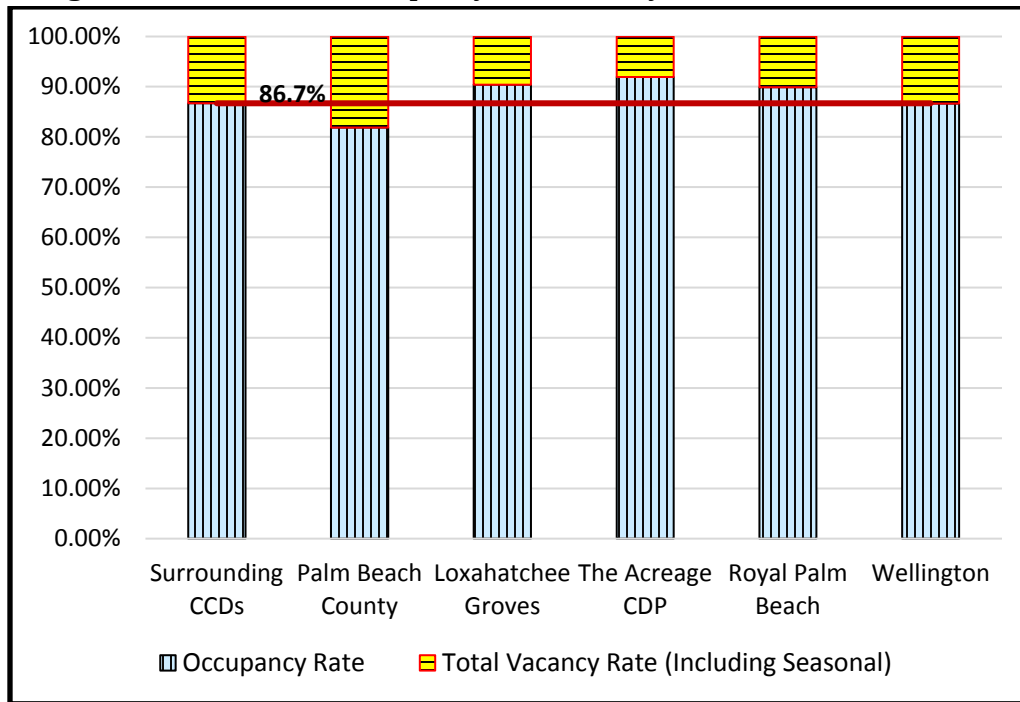
**Table 7.5: Occupancy and Vacancy Rates**

	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
<b>All Housing Units</b>						
Occupancy Rate	86.70%	81.89%	90.43%	91.91%	89.90%	86.66%
Total Vacancy Rate*	13.30%	18.11%	9.57%	8.09%	10.10%	13.34%
Vacancy Rate Excluding Seasonal	7.45%	9.06%	8.02%	7.39%	7.86%	6.69%
<b>Owner Housing</b>						
Homeowner Vacancy Rate*	2.77%	3.37%	1.68%	2.62%	2.64%	2.43%
<b>Renter Housing</b>						
Rental Vacancy Rate*	10.91%	12.28%	6.08%	5.24%	10.81%	11.32%

*Notes:\** The homeowner vacancy rate is based on units for sale only and does not count other vacancies. The rental vacancy rate is based on units for rent and does not count other vacancies.  
 Source: US Census DEC\_10\_SF1\_SF1DP1



Figure 7.8: Household Occupancy and Vacancy Rates



## Housing Costs

Gross rent is defined by the US Census as:

“**[T]**he amount of the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water and sewer) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment.”

Table 7.6 lists the percentage of rental households by gross rent ranges. While each geographic area has a unique gross rent distribution, the data show that a higher percentage of rental households in the Acreage, Royal Palm Beach, and Wellington pay gross rent above \$1,000 per month than do rental households in the three CCDs. The gross rent distribution in the three surrounding CCDs depicts a more normal distribution curve than the other communities, indicating a more diverse rental housing profile than any of the other areas, which all have higher gross rent peaks, albeit in different gross rent ranges. The median gross rent for the three CCDs falls in-between the median value for Royal Palm Beach and Wellington. See Figure 7.9 for charted values.





**Table 7.6: Percent of Rental Households By Gross Rent and Median Rent**

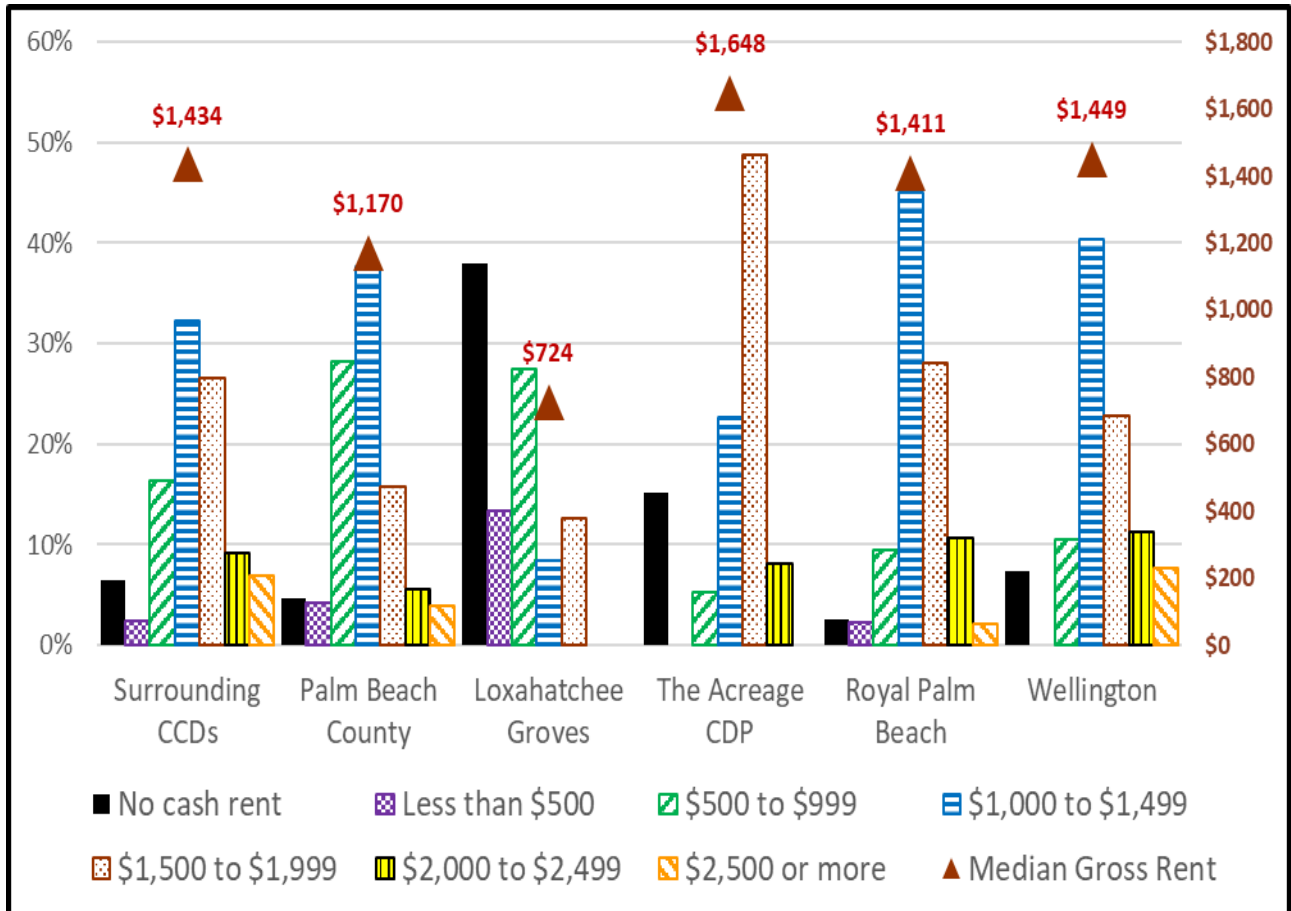
Monthly Gross Rent	Surrounding CCDs	Beach County	Loxahatchee Groves	Acreage CDP	Royal Palm Beach	Wellington
No cash rent	6.4%	4.6%	38.0%	15.1%	2.6%	7.4%
Less than \$500	2.5%	4.3%	13.4%	0.0%	2.2%	0.0%
\$500 to \$999	16.3%	28.3%	27.5%	5.2%	9.4%	10.5%
\$1,000 to \$1,499	32.2%	37.6%	8.5%	22.7%	45.0%	40.3%
\$1,500 to \$1,999	26.5%	15.7%	12.7%	48.7%	28.0%	22.8%
\$2,000 to \$2,499	9.2%	5.6%	0.0%	8.2%	10.7%	11.3%
\$2,500 or more	6.9%	3.9%	0.0%	0.0%	2.0%	7.7%
Median Gross Rent	\$1,433	\$1,170	\$724	\$1,648	\$1,411	\$1,449

Source: U.S. Census, ACS\_15\_5YR\_B25063 and ACS\_15\_5yr\_DP04

Notes: Percentages include units that paid no rent. Median gross rent excludes units for which no rent was paid.

Median gross rent for surrounding CCDs calculated from data using linear interpolation.

**Figure 7.9: Percent of Rental Households by Gross Rent and Median Rent**



Housing value data for Palm Beach County and the surrounding CCDs are presented in Table 7.7. The median values of owner-occupied units of the surrounding CCDs in the 2015 5-Year Estimate was \$257,942, as



compared to \$204,700 for Palm Beach County. The median value of the three CCDs is lower than Loxahatchee Groves and Wellington, but higher than Royal Palm Beach and the Acreage. Figure 7.10 charts the data.

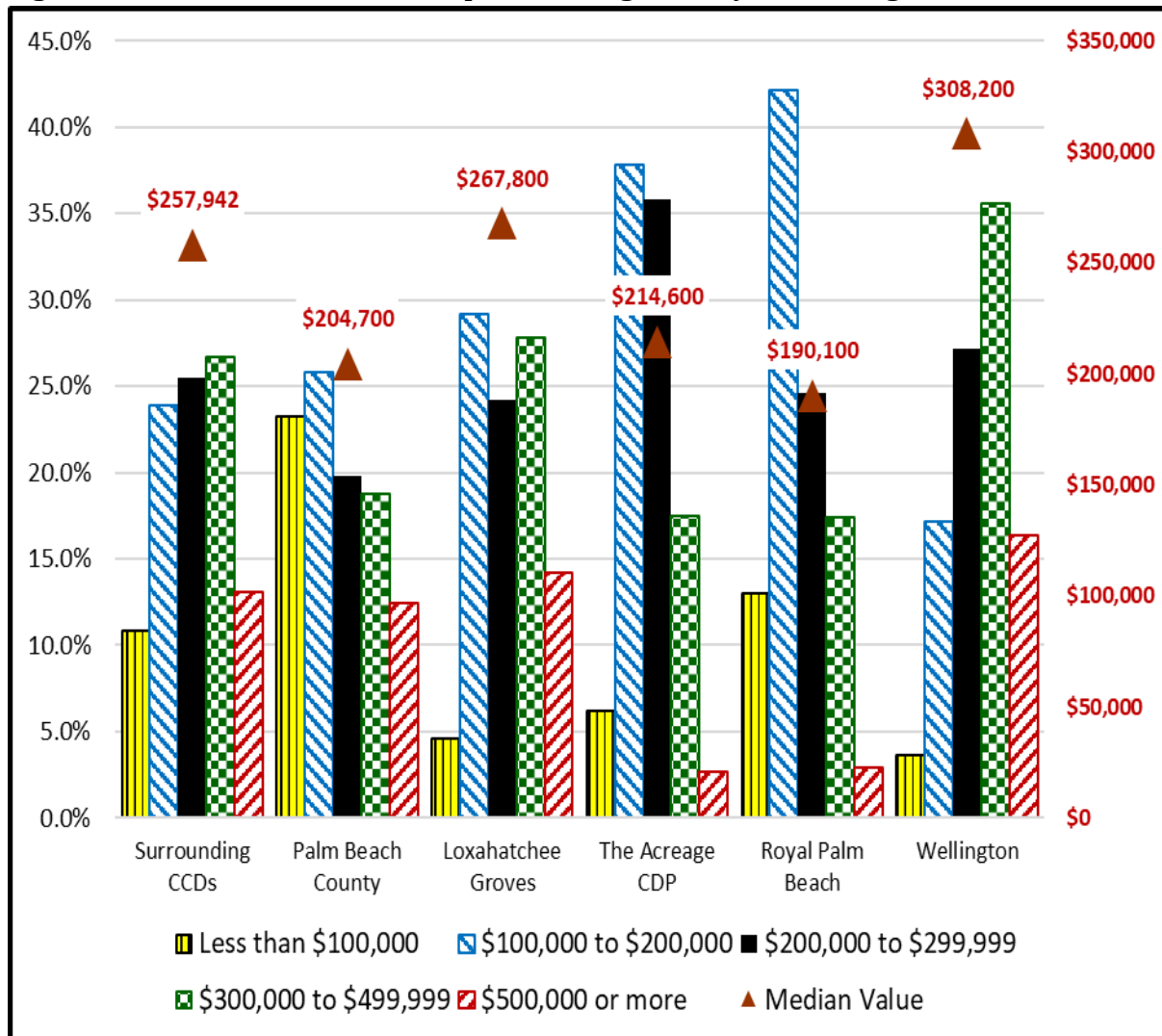
**Table 7.7: Percent of Owner Occupied Housing Units by Value Range and Median Value**

Value Range	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$50,000	4.4%	9.1%	2.5%	1.8%	3.5%	1.9%
\$50,000 to \$99,999	6.4%	14.2%	2.1%	4.4%	9.5%	1.7%
\$100,000 to \$149,999	9.9%	12.9%	12.2%	12.5%	17.8%	6.1%
\$150,000 to \$199,999	14.0%	12.9%	17.0%	25.3%	24.4%	11.0%
\$200,000 to \$299,999	25.5%	19.8%	24.2%	35.8%	24.6%	27.2%
\$300,000 to \$499,999	26.7%	18.8%	27.8%	17.5%	17.4%	35.6%
\$500,000 to \$999,999	11.2%	8.8%	13.4%	2.6%	2.1%	13.5%
\$1,000,000 or more	2.0%	3.6%	0.8%	0.1%	0.7%	2.9%
Median Value	\$257,942	\$204,700	\$267,800	\$214,600	\$190,100	\$308,200

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics and B25075  
 Median value for surrounding CCDs calculated from data using linear interpolation.



Figure 7.10: Percent of Owner Occupied Housing Units By Value Range and Median Value



Comparative monthly owner cost data for Palm Beach County is presented Tables 7.8 and 7.9. According to the US Census, “selected monthly owner costs (SMOC) are calculated from the sum of payment for mortgages, real estate taxes, various insurances, utilities, fuels, mobile home costs, and condominium fees.” Selected monthly owner costs (SMOC) is-are divided into housing units with a mortgage and housing units without a mortgage. Countywide, 56.6 percent of owner-occupied housing units have mortgages. Within the three CCDs, that percentage rises to 66.1 percent. Over 71 percent of owner occupied housing in the surrounding municipalities and the Acreage have mortgages. In other words, more owner-occupied houses are still paying off mortgages in the central portion of Palm Beach County compared to the county as a whole.

The median SMOC for houses with a mortgage in the three CCDs is \$1,976, which is higher than the overall county, Royal Palm Beach and the surrounding Acreage community, but it is lower than Loxahatchee Groves, and Wellington. The median SMOC for houses without a mortgage in the three CCDs is \$671, which is higher than the nearby communities, except for Wellington, which has a median SMOC for houses without of mortgage of \$766.



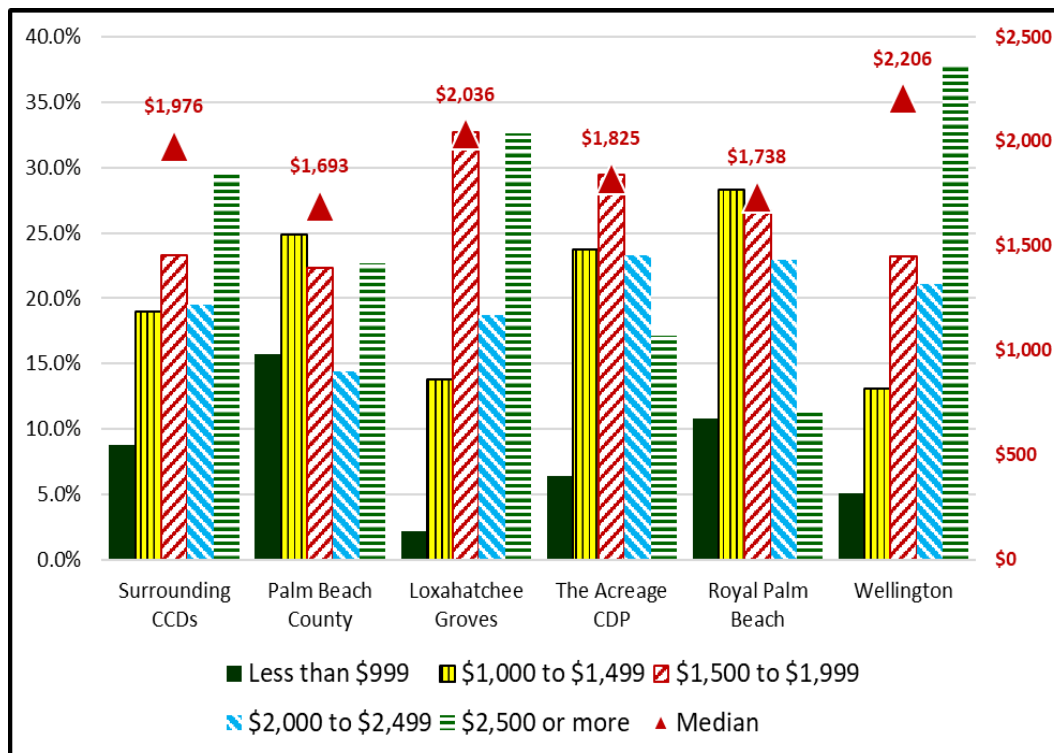
**Table 7.8: Percent of Owner Occupied Units with a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**

Percent of Units within SMOC Range, and Median SMOC	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$500	0.9%	1.4%	0.5%	0.2%	0.9%	0.9%
\$500 to \$999	7.9%	14.3%	1.7%	6.2%	9.9%	4.2%
\$1,000 to \$1,499	19.0%	24.9%	13.8%	23.7%	28.3%	13.1%
\$1,500 to \$1,999	23.3%	22.3%	32.7%	29.4%	26.7%	23.2%
\$2,000 to \$2,499	19.5%	14.4%	18.7%	23.3%	22.9%	21.1%
\$2,500 to \$2,999	11.6%	8.7%	15.2%	8.8%	6.8%	14.5%
\$3,000 or more	17.8%	14.0%	17.4%	8.3%	4.4%	23.2%
Median (dollars)	\$1,976	\$1,693	\$2,036	\$1,825	\$1,738	\$2,206

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics and B25078. Median SMOC for surrounding CCDs calculated from data using linear interpolation.

Figure 7.11 graphically compares the surrounding CCDs with the county and nearby communities.

**Figure 7.11: Percent of Owner Occupied Units with a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**





**Table 7.9: Percent of Owner Occupied Units without a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**

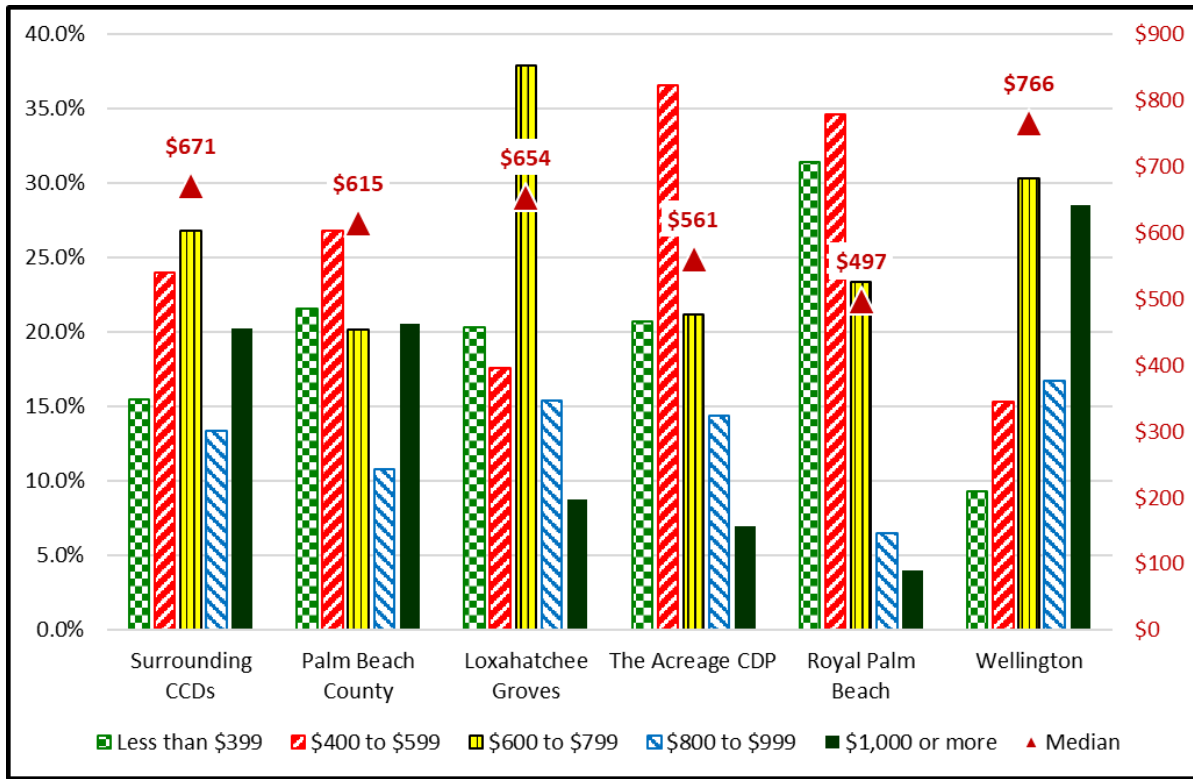
within SMOC Range, and Median SMOC	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$250	4.9%	7.3%	6.2%	6.3%	13.8%	2.4%
\$250 to \$399	10.6%	14.3%	14.1%	14.4%	17.6%	6.9%
\$400 to \$599	24.0%	26.8%	17.6%	36.6%	34.6%	15.3%
\$600 to \$799	26.8%	20.2%	37.9%	21.2%	23.4%	30.3%
\$800 to \$999	13.4%	10.8%	15.4%	14.4%	6.5%	16.7%
\$1,000 or more	20.3%	20.6%	8.8%	7.0%	4.0%	28.5%
Median (dollars)	\$671	\$615	\$654	\$561	\$497	\$766

*Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics and B25078. Median SMOC for surrounding CCDs calculated from data using linear interpolation.*

Figure 7.12 graphically compares the surrounding CCDs with the county and nearby communities.



**Figure 7.12: Percent of Owner Occupied Units with a Without a Mortgage Within Selected Monthly Owner Costs (SMOC) and Median SMOC**



## EXISTING HOUSEHOLD CHARACTERISTICS

### Household Size

In a previous section the average household size or person per household (PPH) was described and enumerated in Table 7.3. Table 7.10 below provides the distribution of households based on the number of persons in each household. About 21 percent of households have only one person in the surrounding CCDs compared to about 30 percent countywide. In other words, there is a smaller percentage of single person households in the three CCDs than in the county as a whole. The surrounding CCDs have a larger percentage of households with three or more persons. Almost 44 percent of households in the surrounding CCDs have three or more persons compared to about 34 percent countywide. Households are larger in the surrounding CCDs than in the county as a whole. Households may be defined as family households (persons related to the head of the household [householder] by birth, marriage, or adoption) or as non-family households. About 74 percent of all households in the surrounding CCDs are family households compared with about 63 percent countywide.



**Table 7.10: Household Size**

Persons in Household	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
1	20.8%	30.1%	20.5%	11.1%	16.9%	15.9%
2	35.7%	36.3%	31.9%	28.8%	29.1%	32.1%
3	17.1%	13.8%	16.7%	21.4%	20.6%	19.7%
4	16.0%	11.1%	14.2%	21.6%	19.2%	19.6%
5	6.8%	5.1%	9.1%	10.0%	9.0%	8.5%
6	2.4%	2.1%	4.8%	4.4%	3.3%	3.0%
7 or more	1.2%	1.6%	2.7%	2.6%	1.9%	1.2%

Source: U.S. Census: DEC\_10\_SF1\_H13

## Household Income

Household income varies significantly across the county. The estimated annual household income in the surrounding CCDs is \$72,620 compared to a countywide median of only \$53,363. The median income in all of the nearby communities is higher than the countywide average. Table 7.11 shows household income ranges. Figure 7.13 compares the median incomes of these communities and the county.

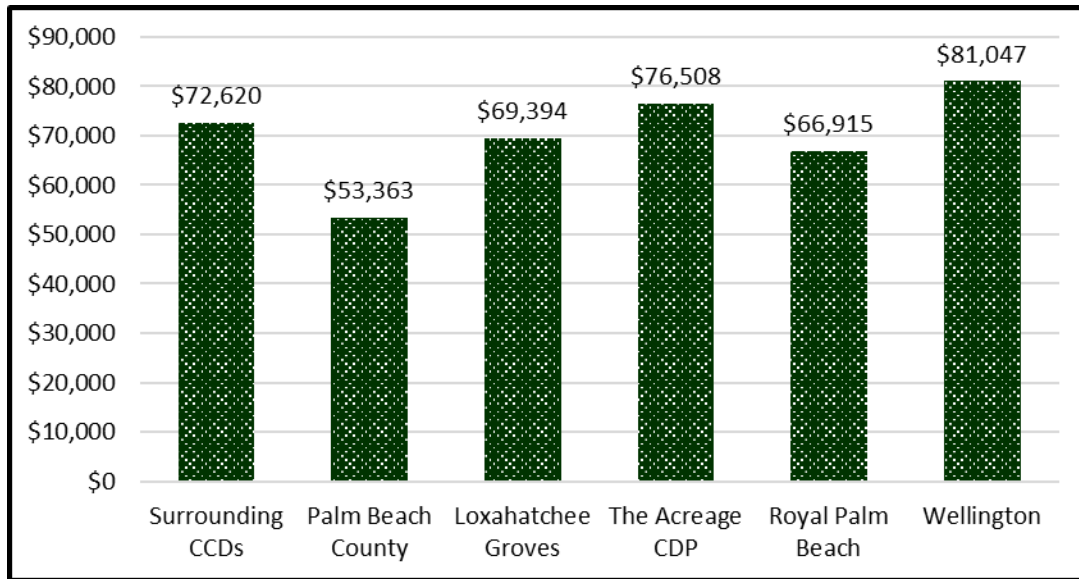
**Table 7.11: Annual Household Income**

Household Income Range	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
Less than \$10,000	3.9%	6.5%	5.9%	3.1%	3.8%	3.7%
\$10,000 to \$14,999	3.1%	5.1%	1.8%	1.5%	2.2%	2.3%
\$15,000 to \$24,999	7.8%	11.1%	10.2%	5.1%	9.9%	6.3%
\$25,000 to \$34,999	7.7%	10.7%	8.6%	6.4%	8.2%	6.4%
\$35,000 to \$49,999	11.7%	13.7%	6.0%	13.7%	10.4%	11.2%
\$50,000 to \$74,999	17.0%	17.3%	20.7%	19.0%	21.0%	15.3%
\$75,000 to \$99,999	14.2%	11.2%	16.0%	20.1%	16.0%	15.9%
\$100,000 to \$149,999	17.6%	12.6%	17.4%	19.7%	18.5%	20.2%
\$150,000 to \$199,999	8.1%	5.2%	6.8%	6.9%	5.7%	9.1%
\$200,000 or more	8.8%	6.6%	6.7%	4.6%	4.2%	9.5%
Median household income (dollars)	\$72,620	\$53,363	\$69,394	\$76,508	\$66,915	\$81,047
Mean household income (dollars)	\$99,648	\$82,436	\$93,063	\$88,115	\$84,002	\$103,779

Source: ACS\_15\_5YR\_DP03 and B19001. Mean and medians calculated from data.



**Figure 7.13: Annual Household Median Income**



## Household Age

Household age is based on the age of the head of household who is called the householder. An examination of household age is different from an examination of the age structure of all persons in a place. Table 7.12 below provides the household age profile for the surrounding CCDs and nearby communities. The household age profile is also provided for owner occupied households and renter occupied households.





**Table 7.12: Age of Householder**

Householder Age Range	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage CDP	Royal Palm Beach	Wellington
<b>Owner occupied:</b>						
15 to 24 years	0.6%	0.7%	0.7%	0.9%	0.7%	0.7%
25 to 34 years	5.7%	6.0%	4.4%	6.6%	9.1%	5.8%
35 to 44 years	17.0%	13.5%	15.0%	23.9%	21.7%	19.7%
45 to 54 years	25.1%	19.8%	29.8%	36.8%	28.1%	30.1%
55 to 59 years	10.8%	9.5%	15.6%	12.3%	11.7%	12.9%
60 to 64 years	10.1%	9.8%	11.1%	8.1%	8.1%	10.5%
65 to 74 years	15.2%	17.6%	16.5%	8.3%	10.8%	12.2%
75 to 84 years	10.6%	15.8%	5.7%	2.7%	6.9%	6.2%
85 years and over	4.8%	7.2%	1.2%	0.4%	2.9%	1.8%
<b>Renter occupied:</b>						
15 to 24 years	5.7%	8.1%	5.9%	6.1%	5.6%	4.9%
25 to 34 years	22.3%	23.9%	24.7%	23.2%	25.1%	22.6%
35 to 44 years	25.6%	21.0%	15.9%	28.4%	29.9%	30.5%
45 to 54 years	20.6%	18.7%	29.4%	24.7%	21.3%	24.7%
55 to 59 years	6.7%	6.7%	9.4%	6.7%	5.9%	6.6%
60 to 64 years	4.9%	5.2%	5.9%	4.2%	4.0%	3.8%
65 to 74 years	6.2%	6.5%	5.9%	3.9%	4.1%	3.9%
75 to 84 years	4.6%	5.1%	2.4%	2.5%	2.7%	2.0%
85 years and over	3.5%	4.7%	0.6%	0.4%	1.5%	1.1%
<b>All Households (Owner and Renter)</b>						
15 to 24 years	1.5%	2.8%	1.5%	1.3%	1.5%	1.6%
25 to 34 years	8.6%	11.1%	7.5%	8.0%	11.7%	9.5%
35 to 44 years	18.5%	15.7%	15.1%	24.3%	23.0%	22.1%
45 to 54 years	24.3%	19.5%	29.8%	35.8%	27.0%	28.9%
55 to 59 years	10.1%	8.7%	14.7%	11.8%	10.8%	11.6%
60 to 64 years	9.2%	8.5%	10.3%	7.8%	7.4%	9.1%
65 to 74 years	13.6%	14.4%	14.8%	7.9%	9.7%	10.4%
75 to 84 years	9.6%	12.8%	5.2%	2.7%	6.2%	5.3%
85 years and over	4.6%	6.5%	1.1%	0.4%	2.7%	1.7%

Source: U.S. Census: DEC\_10\_H17



## Housing Affordability

The Shimberg Center for Housing Studies at the University of Florida ([Shimberg Center](#)) analyzes housing affordability in terms of cost burden which is based on the “[p]ercentage of household income spent for mortgage costs or gross rent. According to the [Shimberg Center](#) and U.S. Department of Housing and Urban Development (HUD) assistance programs, households spending more than 30 percent of income for these housing costs are considered to be “cost-burdened.” Households spending more than 50 percent are considered to be “severely cost-burdened.” Housing is generally considered to be affordable if the household pays less than 30 percent of income.” An analysis of community housing affordability utilizes an Area Median Income (AMI) measure and this measure is computed by the Shimberg Center ~~for Housing Studies~~ and applied to each community. Such an analysis is not available for the City and there is no significant population or housing yet to conduct such an analysis. In lieu of the Shimberg [Center](#) analysis, this Housing Element has examined averages for the surrounding CCDs as a means to generally estimate housing conditions and affordability for the future.

Gross rent as a percentage of income (GRAPI) provides a measure of housing affordability for rental units from which cost burden may be examined. GRAPI is a computed ratio of monthly gross rent to monthly household income (U.S. Census). Table 7.13 provides the GRAPI for the three surrounding CCDs, county, and surrounding communities. About 57 percent of renters pay more than 30 percent of their household income for gross rent and those households would be considered cost burdened, i.e. those households would not have affordable housing. Since those households are unavoidably paying more for housing, they are paying less for other necessities of life. These high percentages are not unique to the surrounding CCDs. Palm Beach County as a whole has a higher percentage of renters that are cost burdened, at about 60 percent.

**Table 7.13: Percent of Occupied Rental Units within GRAPI Ranges**

Percent of Household Income	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage, CDP	Royal Palm Beach	Wellington
Less than 15.0%	8.2%	8.1%	5.7%	13.6%	8.4%	3.6%
15.0% to 19.9%	10.6%	9.6%	21.6%	8.9%	18.3%	10.5%
20.0% to 24.9%	12.5%	11.4%	11.4%	11.8%	10.5%	17.2%
25.0% to 29.9%	11.8%	10.6%	3.4%	10.2%	12.4%	10.6%
30.0% to 34.9%	9.4%	8.8%	14.8%	4.6%	9.6%	8.3%
35.0% or more	47.4%	51.6%	43.2%	51.0%	40.7%	49.8%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

Selected monthly owner costs as a percentage of income (SMOCAPI) provides a measure of housing affordability for owner occupied housing. SMOCAPI is a computed ratio of selected monthly owner costs to monthly household income (U.S. Census). Tables 7.14 and 7.15 provides the SMOCAPI for the three surrounding CCDs. About 42 percent of housing units with a mortgage are cost burdened. About 19 percent of housing units without a mortgage are cost burdened. Once again, housing affordability is a widespread



problem. Palm Beach County and the nearby communities have higher or comparable percentages as can be seen in the tables below.

**Table 7.14: Percent of Owner Occupied Housing Units with a Mortgage within SMOCAPI Ranges within the three surrounding CCDs**

Percent of Household Income	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage, CDP	Royal Palm Beach	Wellington
Less than 20.0%	30.7%	30.6%	27.8%	28.4%	34.6%	30.6%
20.0% to 24.9%	16.0%	14.5%	15.3%	18.2%	17.6%	16.4%
25.0% to 29.9%	11.4%	10.8%	8.5%	11.2%	8.7%	13.1%
30.0% to 34.9%	8.3%	8.3%	5.8%	10.0%	9.6%	7.5%
35.0% or More	33.5%	35.8%	42.5%	32.2%	29.5%	32.4%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

**Table 7.15: Percent of Owner Occupied Housing Units without a Mortgage within SMOCAPI Ranges within the three surrounding CCDs**

Percent of Household Income	Surrounding CCDs	Palm Beach County	Loxahatchee Groves	The Acreage, CDP	Royal Palm Beach	Wellington
Less than 10.0%	35.5%	31.9%	44.4%	39.9%	40.4%	37.6%
10.0% to 14.9%	19.7%	18.2%	10.3%	15.8%	19.4%	17.8%
15.0% to 19.9%	11.6%	12.3%	6.7%	12.7%	9.4%	10.0%
20.0% to 24.9%	7.9%	8.4%	13.0%	8.9%	8.3%	6.4%
25.0% to 29.9%	6.1%	6.3%	9.4%	6.7%	6.4%	6.1%
30.0% to 34.9%	4.2%	4.3%	0.9%	1.3%	2.5%	6.1%
35% or more	14.9%	18.6%	15.2%	14.8%	13.7%	16.0%

Source: U.S. Census, ACS\_15\_5yr\_DP04 Selected Housing Characteristics

Although housing cost burden numbers linked to the ~~Area Median Income (AMI)~~ are not available for the City, the numbers are available for the county and nearby communities. In Palm Beach County, about 20 percent of owners and about 24 percent of renters were cost burdened in 2015. Further, an additional 20 percent of owners and about 32 percent of renters were severely cost burdened. (<http://flhousingdata.shimberg.ufl.edu/a/profiles?action=results&nid=5000>).



**Table 7.16: 2015 Palm Beach County Household Income and Cost Burden**

Household Income as Percentage of Area Median	Amount of Income Paid for Housing					
	0-30%		30-50%		50% or More	
	Units	Percent	Units	Percent	Units	Percent
<=30% AMI	6,307	8.6%	7,686	10.4%	59,655	81.0%
30.01-50% AMI	14,173	19.6%	22,400	31.0%	35,627	49.3%
50.01-80% AMI	38,899	39.8%	35,259	36.1%	23,520	24.1%
80.01+% AMI	258,340	78.0%	57,623	17.4%	15,201	4.6%
Total	317,719	55.3%	122,968	21.4%	134,003	23.3%

Source: Florida Housing Data Clearinghouse, 2015

**Table 7.17: 2015 Number and Percent of Households By Amount of Income Paid for Housing in Palm Beach County by Tenure**

Tenure	Amount of Income Paid for Housing		
	0-30%	30-50%	50% or more
Owner	246,122 (59.7%)	84,201 (20.4%)	81,827 (19.9%)
Renter	71,597 (44.0%)	38,767 (23.9%)	52,176 (32.1%)

Source: Shimberg Center for Housing Studies, 2015

## HOUSEHOLD CHARACTERISTICS AND DEMAND PROJECTIONS

### Housing Demand

Future housing demand is frequently projected based on historical trends. In the case of the City, this approach is not possible. However, housing projections may be made based on the same assumptions used to project the permanent resident population through the use of reasonable factors such as household age, income, and size. Table 7.18 provides projections based on the surrounding CCD data.



**Table 18: Household Projections**

<b>Projection Year</b>		<b>2023</b>	<b>2038</b>
Housing Units		1,575	6,500
Vacancy Rate		7.45%	7.45%
Seasonal Rate		5.85%	5.85%
Households		1,366	5,636
PPH		2.65	2.65
Household Population		3,619	14,934
<b>Households by Age of Householder</b>			
15 to 24 years	1.5%	20	84
25 to 34 years	8.6%	117	483
35 to 44 years	18.5%	253	1,042
45 to 54 years	24.3%	332	1,370
55 to 59 years	10.1%	138	571
60 to 64 years	9.2%	126	518
65 to 74 years	13.6%	186	769
75 to 84 years	9.6%	131	539
85 years and over	4.6%	63	260
<b>Households by Income Range</b>			
Less than \$10,000	3.9%	54	221
\$10,000 to \$14,999	3.1%	42	174
\$15,000 to \$24,999	7.8%	107	441
\$25,000 to \$34,999	7.7%	106	436
\$35,000 to \$49,999	11.7%	160	662
\$50,000 to \$74,999	17.0%	233	961
\$75,000 to \$99,999	14.2%	194	800
\$100,000 to \$149,999	17.6%	240	991
\$150,000 to \$199,999	8.1%	110	455
\$200,000 or more	8.8%	120	496
<b>Households by Size</b>			
1	20.8%	285	1,175
2	35.7%	488	2,012
3	17.1%	233	961
4	16.0%	218	901
5	6.8%	93	384
6	2.4%	33	137
7 or more	1.2%	16	65



## Additional Housing Data and Analysis

### Subsidized Housing

There are no rental housing developments within the City using federal, state, or local subsidy programs.

### Conventional Rental Housing

There are no conventional rental housing communities within the City.

### Group Facilities Homes

There are no group living facilities and homes within the City.

### Mobile Home and Recreational Vehicle Parks

There are no mobile home park communities located within the City; however, there are two mobile home units.

### Historic Resources

There are no known historically significant housing resources, including homes listed on the State Master Site File within the City of Westlake.

### Farmworker Housing

There are no farmworker housing developments within the City.

## Addressing Housing Needs

### City of Westlake

The City ~~of Westlake~~ is a new city and has very few existing housing units. As the City develops, there will be several measures available to evaluate housing stock and living conditions within the City, including: demographic, economic, social, and structural measures.

The City ~~of Westlake~~ is offering a unique opportunity for new residents to live, work, and play within one community. The City will contain a multitude of housing types and styles at a variety of price points to satisfy the needs of a diverse community. Residential development of the City is expected to start with single family housing while multi-family housing is anticipated to be built as the ~~economic employment center~~ Downtown Mixed Use area builds out.

### County Housing Programs

As the City grows, the City will evaluate the applicability of housing and community development programs available through county, state, and federal programs.



## Housing Delivery Process

Housing stock within the City will be constructed by the private sector and is expected to accommodate projected population growth through ~~the short and long term out the future~~ planning periods.

## Affordable Housing Assessment

Housing within the City can be more attainable and more affordable for a number of reasons. Because services and infrastructure can be provided more efficiently, the cost of units should be less. Smaller average lot sizes can translate to lower maintenance costs. But most importantly, reduced transportation costs free up financial resources that can be allocated to housing that would not be available in a completely automobile dependent pattern of development.

### City Housing Incentive Programs

The City ~~of Westlake~~ is committed to creating affordable and safe housing that meets the needs of residents. Safe and appropriate affordable housing benefits the entire community – socially, economically and environmentally. Housing goals, objectives, and policies are tailored to encourage the development of a variety of housing types to accommodate demand generated by population growth, including the accommodation of accessory apartments and mobile homes. In addition, policies to incorporate small-scale special needs and seniors facilities are also included.

As the City develops, it should prepare an affordable housing assessment, to include Shimberg ~~Center~~ data, at the time of the initial Evaluation and Appraisal Report. This will allow a more direct comparison of the City's housing stock, by price-range, to the ability of households to afford related housing costs.

### Workforce and Affordable Housing

The City is committed to the provision of workforce and affordable housing based on statewide guidelines, ~~and~~. These guidelines delineate the basic components of an affordable workforce housing program and applicable income standards. Affordable housing for lower income families follows the state guidelines for affordability found in Chapter 420.0004(3), Florida Statutes.

The City will coordinate with the County, where appropriate, regarding countywide affordable housing programs. Additionally, the City is providing the opportunity for workforce and affordable housing by offering a variety of housing types. An adequate supply of land and density flexibility is designated on the Future Land Use Map (~~FLU Map 2.1~~) to accommodate a variety of housing types to provide opportunities for varying income levels. The City's housing alternatives will meet the diverse needs of the community.

Through the adoption of City Ordinance 2017-6, the City has established a housing assistance purchase program which receives funding from development within the City. The purpose of the program is to provide down payment, closing cost, and rental assistance for the purchase or rental of single family and multi-family units within the City. The program has received in excess of three hundred thousand dollars for initial implementation and applications are being received and evaluated for assistance. The program has not received state and/or federal funding, but state and federal guidelines provided on an annual basis from the United States Department of Housing and Urban Development on funding assistance are being utilized.

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# CAPITAL IMPROVEMENTS

2018





# CHAPTER 8. CAPITAL IMPROVEMENTS ELEMENT DATA AND ANALYSIS

## INTRODUCTION

The purpose of the Capital Improvements Element is to plan for public facility needs as identified in other Plan elements and to ensure that capital improvements are provided to accommodate growth, correct deficiencies, and replace obsolete or damaged facilities when required.

The City was incorporated through a statutory process that allowed the electors in the Seminole Improvement District (SID). The Seminole Improvement District (SID) is an Independent Special District empowered by special act (Chapter 2000-431, House Bill No. 1559), to convert SID into the City of Westlake. SID continues to exist as an independent special district, but will eventually transition into a dependent special district. SID continues to provide infrastructure and facilities within its boundaries, which are coterminous with the boundaries of the City. SID is the exclusive retail provider of potable water, reuse water, and wastewater facilities in the City, and is empowered to construct and maintain the facilities related to those services. SID is also empowered to construct and maintain drainage (stormwater) facilities (including, e.g., canals, levees, lakes, ponds, and other works for water management and control); transportation facilities (including, e.g., roads, bridges, bicycle and jogging paths, shared use paths, transit, landscaping, and other related transportation facilities); and parks and facilities for indoor and outdoor recreation.

SID is also empowered to levy ad valorem taxes, non-ad valorem assessments and collect other fees to recover the cost of providing the forenamed facilities and services. Pursuant to the City Charter, the City may not exercise any function or duplicate services provided by SID until such time as SID is transitioned to a dependent special district. This restriction does not impair the ability of the City to contract for fire rescue or law enforcement. The relationship between the City and SID for provision of capital improvements is detailed in the Interlocal Agreement between the City and S the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal")~~ID~~, while SID's specific plans for facilities construction, maintenance, and expansion are contained in its Water Control Plan dated October 13, 2015. The SID-Westlake Interlocal is attached to the Intergovernmental Coordination Element as Appendix A. As a result of the cooperative relationship between SID and the City, the 5-Year Schedule of Capital Improvements Schedule and the Capital Improvements Element includes facilities to be constructed, financed, and maintained by SID.

## CAPITAL IMPROVEMENT NEEDS

### Potable Water and Wastewater

Based on the population projections and a capacity analysis for the short-term planning period there is adequate facility capacity to maintain the adopted level of service standard for potable water supply and



wastewater treatment as provided through interlocal agreements between SID and Palm Beach County. SID plans on expanding distribution lines for potable water, and installing collection lines and additional lift stations for wastewater, and beginning the interconnection process of both water and wastewater with the County's lines within the short-term planning period. SID's planned improvements for both potable water and wastewater are listed in the 5-Year Schedule of Capital Improvements Schedule and are shown on INF Maps 4.2, ~~4.5~~ and 4.36. Pursuant to the Interlocal Agreement SID-Westlake Interlocal, these improvements have and will continue to be provided in order to ensure the achievement and maintenance of the adopted level of service standards for potable water and wastewater. SID is constructing facilities and otherwise facilitating these improvements using non-ad valorem assessments, developer contributions, and other sources of revenue. Additional details and analyses are provided in the Infrastructure Element.

### Transportation

~~Prior to the incorporation of the City, Palm Beach County adopted a plan amendment providing for the development of 4,546 dwelling units and 2.2 million square feet of non-residential, and other uses. As part of this plan amendment and other approvals, plans were developed and initiated with Palm Beach County to expand Seminole Pratt Whitney Road and begin building a network of collector and local roads to serve the proposed development and to address the county's concurrency requirements. A proportionate share agreement was executed between the developer (Minto PBLH, LLC, or "Minto") and the county. Those plans and agreements continue in effect and address all transportation needs for the short-term planning period and beyond to encompass the complete Minto development.~~

The expansion of Seminole Pratt Whitney Road to a four-lane divided highway will be close to completion as of the adoption date of this Plan. The expansion is being funded by SID pursuant to a funding contract with developer Minto PBLH, LLC, ("Minto"). Construction of collector roads connecting the first phase of the development to Seminole Pratt Whitney Road is also complete. Other work has begun and will continue throughout the short-term planning period to provide necessary collector roads as well as local roads, for development. The arterial and collector roads planned for the next five years, as well as for the long term planning period are shown in the TE Maps 3.4-3.6 and 3.8. Additionally, related facilities, such as sidewalks, bicycle lanes, and bikepaths shared use paths are also being constructed in tandem-conjunction with the roads. These are shown on TE Maps 3.7 and 3.9.

These transportation facilities are being funded by a combination of non-ad valorem assessments and developer contributions. In some instances, the developer is constructing the facilities directly. All work is being conducted in coordination with SID.

The City will coordinate with SID to sufficiently plan for roads associated with future growth during the short term planning period. The anticipated planned improvements for roads are listed in the 5-Year Schedule of Capital Improvements Schedule.

Prior to the incorporation of the City, Palm Beach County approved the development of 4,546 dwelling units and 2.2 million square feet of non-residential, and other uses. As part of the approval of this development, a proportionate share agreement was executed between Minto and the county. That agreement remains effective



## Stormwater

Prior to the incorporation of the City, the previous county plan amendment and South Florida Water Management District (SFWMD) Environmental Resource Permits addressed stormwater and drainage facilities. SID and in conjunction with the developer, have begun construction of a new stormwater management system, including extensive surface waters. The development of this stormwater management system will continue on pace with the anticipated expansion of the previously approved development in order to meet the SFWMD permit requirements as well as the adopted level of service standards.

The City will coordinate with SID to plan for the stormwater management system to serve the City during the short term and long term planning periods. SID's planned improvements for stormwater are listed in the 5-Year Schedule of Capital Improvements Schedule and are also depicted on INF Maps 4.2 and 4.3 and 4.7.

## Recreation Facilities

The City will coordinate with SID to sufficiently plan for recreational facilities to serve the City that will be associated with future growth during the short term planning period. A community park is planned within the short term planning period. Active development of parks is not yet scheduled. The level of service standard for parks is for planning purposes and is not a concurrency requirement.

## Reuse Water

SID also plans to supply reuse water for landscape irrigation via an interlocal agreement with Palm Beach County. The reuse distribution pipes will be constructed and put into service in tandem with the water and wastewater distribution and collection pipes. Additional details are provided in the Infrastructure Element. Reuse water does not have an associated level of service standard and is not regulated via concurrency.

## Solid Waste

The City will contract with a solid waste provider to collect and appropriately dispose of solid waste including hazardous wastes. The City will not construct or host within its boundaries any solid waste or hazardous waste disposal sites or facilities. As indicated in the Infrastructure Element, the Palm Beach County Solid Waste Authority has projected adequate capacity for solid waste disposal through the long term planning period.







**Table 8.1: 5-Year Schedule of Capital Improvements Schedule, Fiscal Years 2017-18 – 2022-23**

For the 5-Year Capital Improvements Schedule below:

- Road costs include costs of landscaping and the construction of bicycle lanes, sidewalks, and shared use paths.
- This table should be read in conjunction with the 5-Year Capital Improvement Schedule Construction Map for Road Segments, Stormwater Drainage Features, and Park.

<b>5-Year Capital Improvements Schedule: Summary of Total Project Costs By Year</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$1,808,668.19	-	-	-	-	-	\$1,808,668.19	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$1,598,871.00	-	-	-	-	-	\$1,598,871.00	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$1,515,919.33	-	-	-	-	-	\$1,515,919.33	Developer / Bonds
CS-E1	High	-	\$744,996.14	-	-	-	-	\$744,996.14	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$757,641.03	-	-	-	-	\$757,641.03	Developer / Bonds
CS-E4	High	-	\$762,430.31	-	-	-	-	\$762,430.31	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$1,671,350.56	-	-	-	\$1,671,350.56	Developer / Bonds
Saddle Bay Drive	High	-	-	\$710,000.00	-	-	-	\$710,000.00	Developer / Bonds
CS-E2	High	-	-	\$1,190,314.74	-	-	-	\$1,190,314.74	Developer / Bonds
CS-P	High	-	-	-	\$3,901,962.45	-	-	\$3,901,962.45	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$1,277,449.85	-	\$1,277,449.85	Developer / Bonds
Community Park	High	-	\$200,000.00	\$3,300,000.00	-	-	-	\$3,500,000.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$3,175,573.38	\$3,175,573.38	Developer / Bonds
<b>TOTAL</b>		<b>\$4,923,458.52</b>	<b>\$2,465,067.48</b>	<b>\$6,871,665.30</b>	<b>\$3,901,962.45</b>	<b>\$1,277,449.85</b>	<b>\$3,175,573.38</b>	<b>\$22,615,176.98</b>	Developer / Bonds

<b>5-Year Capital Improvements Schedule: Potable Water Component</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$135,781.00	-	-	-	-	-	\$135,781.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$130,149.26	-	-	-	-	-	\$130,149.26	Developer / Bonds



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Town Center Parkway South (TCP-E1)	High	\$111,501.21	-	-	-	-	-	\$111,501.21	Developer / Bonds
CS-E1	High	-	\$108,160.00	-	-	-	-	\$108,160.00	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$92,404.19	-	-	-	-	\$92,404.19	Developer / Bonds
CS-E4	High	-	\$91,127.20	-	-	-	-	\$91,127.20	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$125,317.80	-	-	-	\$125,317.80	Developer / Bonds
Saddle Bay Drive	High	-	-	\$91,000.00	-	-	-	\$91,000.00	Developer / Bonds
CS-E2	High	-	-	\$162,009.25	-	-	-	\$162,009.25	Developer / Bonds
CS-P	High	-	-	-	\$524,899.15	-	-	\$524,899.15	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$191,214.00	-	\$191,214.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$238,758.84	\$238,758.84	Developer / Bonds



<b>5-Year Capital Improvements Schedule: Wastewater Component</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$95,925.00	-	-	-	-	-	\$95,925.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$91,954.48	-	-	-	-	-	\$91,954.48	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$75,778.66	-	-	-	-	-	\$75,778.66	Developer / Bonds
CS-E1	High	-	\$41,344.00	-	-	-	-	\$41,344.00	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$0.00	-	-	-	-	\$0.00	Developer / Bonds
CS-E4	High	-	\$64,943.67	-	-	-	-	\$64,943.67	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$65,242.04	-	-	-	\$65,242.04	Developer / Bonds
Saddle Bay Drive	High	-	-	\$64,500.00	-	-	-	\$64,500.00	Developer / Bonds
CS-E2	High	-	-	\$136,582.53	-	-	-	\$136,582.53	Developer / Bonds
CS-P	High	-	-	-	\$370,824.00	-	-	\$370,824.00	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$0.00	-	\$0.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$157,508.38	\$157,508.38	Developer / Bonds





<b>5-Year Capital Improvements Schedule: Stormwater/Drainage Component</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$240,003.00	-	-	-	-	-	\$240,003.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$230,077.24	-	-	-	-	-	\$230,077.24	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$189,612.33	-	-	-	-	-	\$189,612.33	Developer / Bonds
CS-E1	High	-	\$183,930.00	-	-	-	-	\$183,930.00	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$207,910.00	-	-	-	-	\$207,910.00	Developer / Bonds
CS-E4	High	-	\$162,508.46	-	-	-	-	\$162,508.46	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$213,108.01	-	-	-	\$213,108.01	Developer / Bonds
Saddle Bay Drive	High	-	-	\$155,000.00	-	-	-	\$155,000.00	Developer / Bonds
CS-E2	High	-	-	\$275,503.30	-	-	-	\$275,503.30	Developer / Bonds
CS-P	High	-	-	-	\$927,914.20	-	-	\$927,914.20	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$325,167.29	-	\$325,167.29	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$394,115.30	\$394,115.30	Developer / Bonds



<b>5-Year Capital Improvements Schedule: Road Component</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$938,202.19	-	-	-	-	-	\$938,202.19	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$713,617.60	-	-	-	-	-	\$713,617.60	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$780,998.55	-	-	-	-	-	\$780,998.55	Developer / Bonds
CS-E1	High	-	\$296,071.37	-	-	-	-	\$296,071.37	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$328,868.46	-	-	-	-	\$328,868.46	Developer / Bonds
CS-E4	High	-	\$325,550.97	-	-	-	-	\$325,550.97	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$1,020,717.00	-	-	-	\$1,020,717.00	Developer / Bonds
Saddle Bay Drive	High	-	-	\$282,600.00	-	-	-	\$282,600.00	Developer / Bonds
CS-E2	High	-	-	\$444,599.64	-	-	-	\$444,599.64	Developer / Bonds
CS-P	High	-	-	-	\$1,328,556.50	-	-	\$1,328,556.50	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$392,522.79	-	\$392,522.79	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$1,641,291.44	\$1,641,291.44	Developer / Bonds



<b>5-Year Capital Improvements Schedule: Reuse Component</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$98,757.00	-	-	-	-	-	\$98,757.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$192,727.42	-	-	-	-	-	\$192,727.42	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$158,831.42	-	-	-	-	-	\$158,831.42	Developer / Bonds
CS-E1	High	-	\$58,797.61	-	-	-	-	\$58,797.61	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$66,463.18	-	-	-	-	\$66,463.18	Developer / Bonds
CS-E4	High	-	\$66,861.01	-	-	-	-	\$66,861.01	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$178,512.90	-	-	-	\$178,512.90	Developer / Bonds
Saddle Bay Drive	High	-	-	\$65,900.00	-	-	-	\$65,900.00	Developer / Bonds
CS-E2	High	-	-	\$88,070.89	-	-	-	\$88,070.89	Developer / Bonds
CS-P	High	-	-	-	\$381,722.60	-	-	\$381,722.60	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$161,203.77	-	\$161,203.77	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	-	-	-	-	-	\$330,136.20	\$330,136.20	Developer / Bonds



<b>5-Year Capital Improvements Schedule: Design and Permitting</b>									
<b>Project Description</b>	<b>Priority</b>	<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>Total Funding Amount</b>	<b>Funding Source*</b>
Town Center Parkway Phase 1A (TCP-E2)	High	\$300,000.00	-	-	-	-	-	\$300,000.00	Developer / Bonds
Town Center Parkway Phase 2 (TCP-E3)	High	\$240,345.00	-	-	-	-	-	\$240,345.00	Developer / Bonds
Town Center Parkway South (TCP-E1)	High	\$199,197.16	-	-	-	-	-	\$199,197.16	Developer / Bonds
CS-E1	High	-	\$56,693.16	-	-	-	-	\$56,693.16	Developer / Bonds
Kingfisher (CS-E5)	High	-	\$61,995.20	-	-	-	-	\$61,995.20	Developer / Bonds
CS-E4	High	-	\$51,439.00	-	-	-	-	\$51,439.00	Developer / Bonds
Persimmon Phase 2 (PSM - E1a)	High	-	-	\$68,452.81	-	-	-	\$68,452.81	Developer / Bonds
Saddle Bay Drive	High	-	-	\$51,000.00	-	-	-	\$51,000.00	Developer / Bonds
CS-E2	High	-	-	\$83,549.13	-	-	-	\$83,549.13	Developer / Bonds
CS-P	High	-	-	-	\$368,046.00	-	-	\$368,046.00	Developer / Bonds
Persimmon West (CS-W2)	High	-	-	-	-	\$207,342.00	-	\$207,342.00	Developer / Bonds
Town Center Parkway (E-4, E-5)	High	=	=	=	=	=	\$413,763.22	\$413,763.22	Developer / Bonds
Community Park	High	-	\$200,000	-	-	-	-	\$200,000	Developer / Bonds



5-Year Capital Improvements Schedule: Community Park									
Project Description	Priority	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total Funding Amount	Funding Source*
Community Park	-	-	-	\$3,300,000.00	-	-	-	\$3,300,000.00	Developer / Bonds

\*SID will provide infrastructure through financing, special assessments, or developer contributions; which may include developer constructing the improvements and turning the same over to SID or the City, as appropriate

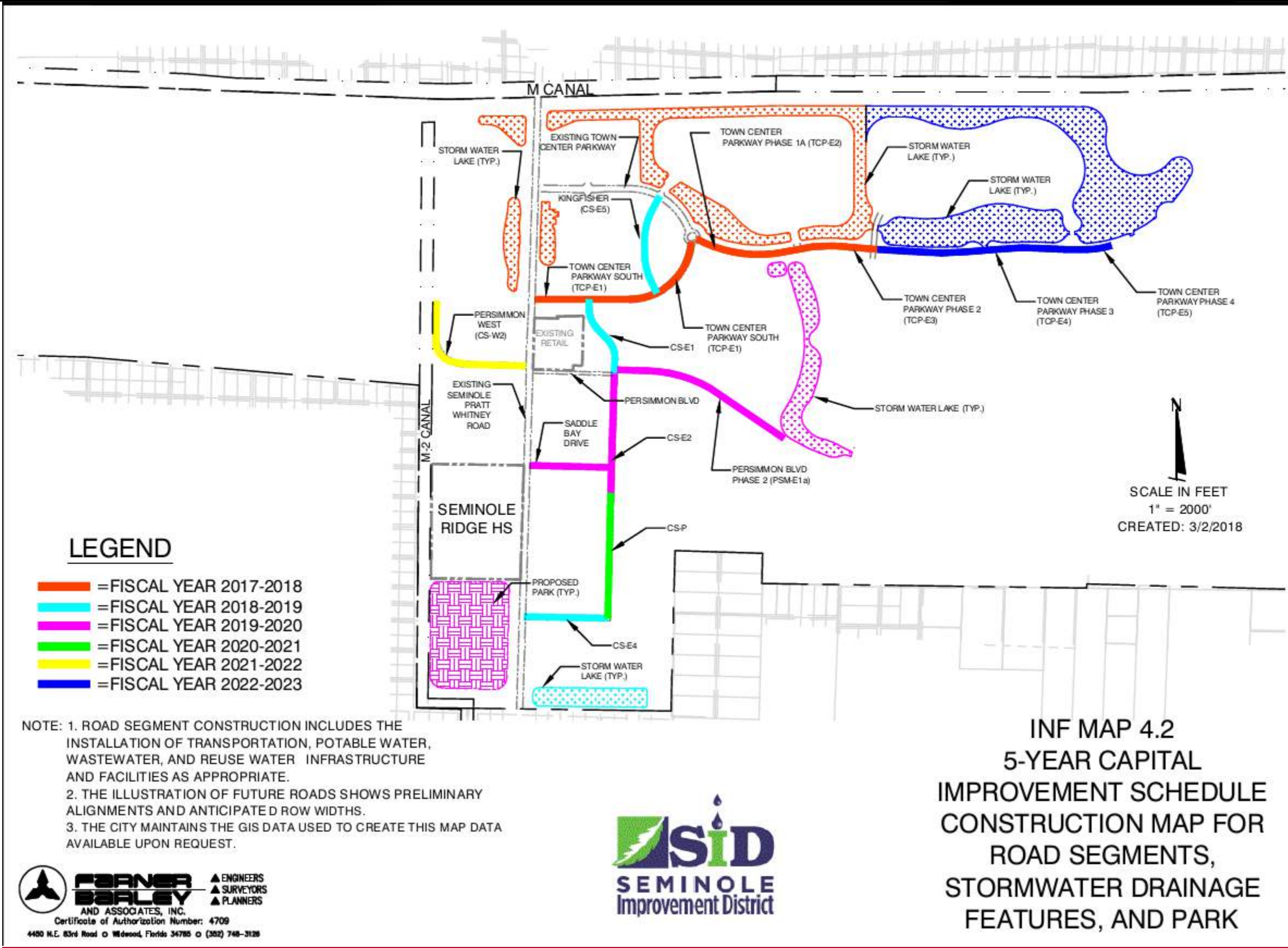
~~Table 8.1: Capital Improvements Schedule, Fiscal Years 2017-18 – 2022-23~~

Project	Fiscal Year 2017-18	Fiscal Year 2018-19	Fiscal Year 2019-20	Fiscal Year 2020-21	Fiscal Year 2021-22	Fiscal Year 2022-23
<b>Potable Water</b>						
Extend water lines	\$325,000*	\$290,000*	\$1,020,000*	\$350,000*	\$550,000*	\$550,000*
Water interconnections with Palm Beach County lines.	\$250,000*	\$150,000*	\$150,000*	-	-	-
<b>Reuse Water</b>						
Install reuse lines	\$220,000*	\$197,000*	\$370,000*	\$128,000*	\$200,000*	\$200,000*
<b>Wastewater</b>						
Extend wastewater lines	\$250,000*	\$225,000*	\$425,000*	\$150,000*	\$300,000*	\$100,000*
Wastewater interconnections with Palm Beach County lines.	\$75,000*	\$100,000*	\$100,000*	-	-	-
<b>Drainage</b>						
Construct water management system	\$4,800,000*	\$1,800,000*	\$1,650,000*	\$1,650,000*	-	-
<b>Transportation</b>						
Construct 2 lane collector	\$1,300,000*	\$2,200,000*	\$1,320,000*	\$450,000*	\$500,000*	\$550,000*
<b>TOTAL</b>						
-	\$7,220,000	\$4,962,000	\$5,035,000	\$2,728,000	\$1,550,000	\$1,400,000
Project	Fiscal Year 2017-18	Fiscal Year 2018-19	Fiscal Year 2019-20	Fiscal Year 2020-21	Fiscal Year 2021-22	Fiscal Year 2022-23
<b>Potable Water</b>						
Extend water lines	\$325,000*	\$290,000*	\$1,020,000*	\$350,000*	\$550,000*	\$550,000*



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<b>Water interconnections with Palm Beach County lines.</b>	\$250,000*	\$150,000*	\$150,000*	-	-	-
<b>Reuse Water</b>						
<b>Install reuse lines</b>	\$220,000*	\$197,000*	\$370,000*	\$128,000*	\$200,000*	\$200,000*
<b>Wastewater</b>						
<b>Extend wastewater lines</b>	\$250,000*	\$225,000*	\$425,000*	\$150,000*	\$300,000*	\$100,000*
<b>Wastewater interconnections with Palm Beach County lines.</b>	\$75,000*	\$100,000*	\$100,000*	-	-	-
<b>Drainage</b>						
<b>Construct water management system</b>	\$4,800,000*	\$1,800,000*	\$1,650,000*	\$1,650,000*	-	-
<b>Transportation</b>						
<b>Construct 2-lane collector</b>	\$1,300,000*	\$2,200,000*	\$1,320,000*	\$450,000*	\$500,000*	\$550,000*
<b>TOTAL</b>						
-	\$7,220,000	\$4,962,000	\$5,035,000	\$2,728,000	\$1,550,000	\$1,400,000





*Source: Seminole Improvement District (2016)*

*\*Funded through Seminole Improvement District contributions*





## REVENUES AND FUNDING SOURCES

SID will be the primary entity, in conjunction with the majority landowner and primary developer, to levy, collect, and apply revenue to the construction and maintenance of capital facilities. The City will not collect revenue for building any infrastructure in the short term planning period; SID will provide infrastructure through financing, special assessments, or developer contributions. Developer contributions may include the developer constructing the improvements and turning those improvements over to SID or the City. SID has no existing debt and sufficient bonding capacity to finance the capital improvement projects through FY 2022-23, and the City has a deficit funding agreement with Minto.

Although it will not use them in the short term planning period, The City has the ability to utilize a variety of revenue sources to finance capital improvement projects. The City’s primary revenue sources include ad valorem taxes, electric utility tax, electric franchise fee, permit and other fees and communication tax. These sources are not, however, exhaustive of all resources that the City can consider or utilize should alternatives be found advantageous. The City also has the ability to utilize a variety other revenue sources such as bonds, impact fees, mobility fees and proportionate fair share mitigation and developer contributions. While capital project financing is not limited solely to the sources that are inventoried in this section, these major financial resources provide a basis for assessing the City’s capacity to finance capital improvements.

## Projected Revenues and Expenditures

Table 8.2a and Table 8.2b projects revenue and expenditures for the short term planning period.

**Table 8.2a: Five-Year Projected Revenues**

Revenue Source	Fiscal Year 2017-18	Fiscal Year 2018-19 Projected	Fiscal Year 2019-20 Projected	Fiscal Year 2020-21 Projected	Fiscal Year 2021-22 Projected	Fiscal Year 2022-23 Projected
Ad Valorem Taxes	\$140,304	\$168,365	\$202,038	\$242,445	\$290,934	\$349,120
Communications Service Tax	\$4,000	\$8,000	\$10,000	\$12,000	\$22,000	\$56,000
Public Service Tax	\$5,000	\$15,000	\$20,000	\$40,000	\$103,000	\$174,000
FPL Franchise Fee			\$9,000	\$25,000	\$64,000	\$109,000
State Revenue Sharing	\$673	\$2,500	\$10,000	\$15,000	\$170,000	\$176,000



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Half Cent Sales Tax	\$408	\$675	\$1200	\$4,000	\$10,000	\$26,000
Developer Contributions and Fees	\$1,580,967	<del>4,501,000</del> <u>\$5,739,135</u>	<del>5,201,000</del> <u>\$6,491,762</u>	<del>5,516,000</del> <u>\$6,923,555</u>	<del>4,344,000</del> <u>\$5,427,066</u>	<del>4,413,000</del> <u>\$5,134,880</u>
<b>Total</b>						
	\$1,731,352	<del>4,694,865</del> <u>\$5,933,000</u>	<del>5,452,038</del> <u>\$6,744,000</u>	<del>5,854,445</del> <u>\$7,262,000</u>	<del>5,003,934</del> <u>\$6,087,000</u>	<del>5,303,120</del> <u>\$6,025,000</u>

Seminole Improvement District Proposed Elector-Initiated Combined Conversion and Incorporation Plan (April 2016).

Data and Analysis Table 8.2b: Five-Year Projected Expenditures

Description	Fiscal Year 2017-18	Fiscal Year 2018-19 Projected	Fiscal Year 2019-20 Projected	Fiscal Year 2020-21 Projected	Fiscal Year 2021-22 Projected	Fiscal Year 2022-23 Projected
Legislative	\$34,000	\$204,000	\$204,000	\$204,000	\$175,000	\$73,000
Other Legislative	\$4,000	\$28,000	\$28,000	\$29,000	\$30,000	\$31,000
Executive	\$31,000	\$191,000	\$197,000	\$369,000	\$380,000	\$391,000
Financial and Administrative	\$5,000	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000
Legal	\$13,000	\$82,000	\$84,000	\$87,000	\$89,000	\$92,000
Planning and Zoning	\$25,000	\$156,000	\$161,000	\$165,000	\$170,000	\$176,000
Building/Code Enforcement			\$70,000	\$72,000	\$74,000	\$76,000
Law Enforcement	\$16,000	\$101,000	\$104,000	\$107,000	\$110,000	\$113,000
Other Expenditures	\$150,000	\$4,775,000	\$5,483,000	\$5,791,000	\$4,600,000	\$4,609,000
<b>Total</b>						
	\$431,000	\$5,933,000	\$6,744,000	\$7,262,000	\$6,087,000	\$6,025,000

Seminole Improvement District Proposed Elector-Initiated Combined Conversion and Incorporation Plan (April, 2016) and Water, Wastewater and Reuse Utilities Master Plan (April, 2015).



## TIMING AND PRIORITY OF CAPITAL IMPROVEMENT NEEDS

The Plan identifies capital improvements by type, location, cost, ~~and~~ timing, and priority of capital improvement needs. The City Council and staff will incorporate the needed improvements within the 5-Year ~~Schedule~~ Schedule of Capital Improvements as planning proceeds.

## MONITORING AND EVALUATION

The Capital Improvements Element requires yearly updates per Chapter 163 of the Florida Statutes. The yearly update will allow the City to assess public facility needs based upon the extent, rate, and projection of development.

The review will also determine if adequate revenues are available to meet the needs. The data regarding the listed improvements will be updated and revised as needed in order to meet the listed capital improvements.

After the review is completed, a summary along with any recommended modifications will be presented to the City Council at an advertised public hearing for adoption and implementation. This will occur when the City is in the process of developing the budget for the next fiscal year. The action of the City Council will be to direct staff implementation of the changes based on the recommended modifications.

# CITY OF WESTLAKE



TECHNICAL  
DOCUMENT

Data & Analysis

# INTERGOVERNMENTAL COORDINATION

2018



# CHAPTER 9. INTERGOVERNMENTAL COORDINATION ELEMENT DATA AND ANALYSIS

## INTRODUCTION

The purpose of the Intergovernmental Coordination element is to ensure appropriate coordination between the City, neighboring jurisdictions and other governmental agencies.

## INTERGOVERNMENTAL COORDINATION

Table 9.1 briefly describes the various governmental entities and the subjects of coordination with those entities. Generally, the office with primary responsibility for coordination is the City Manager’s office ~~or its representatives~~. In several instances, the City Council needs to make determinations regarding the continuance of or changes to coordination issues with other agencies or jurisdictions. This table is not intended to be an all-inclusive list of entities with which the City will coordinate.

**Table 9.1: Coordinating Agencies**

AGENCY	SUBJECT OF COORDINATION
<b>Palm Beach County</b>	
Palm Beach County Government Administration	General Administration
<del>Palm Beach County Building Division</del>	<del>Building Construction</del>
Palm Beach County Engineering and Public Works	ROW Construction, <del>Traffic Concurrence</del> <u>TPS</u>
Palm Beach County Department of Environmental Resource Management	<del>Adopt Department’s existing codes and policies and then modify as appropriate for the City</del> <u>Environmental</u>
Palm Beach County Division of Emergency Management	Emergency Management
Palm Beach County Fire-Rescue	Fire-/-Rescue
Palm Beach County Palm Tran	Bus Services
Palm Beach County Parks and Recreation	Recreation
Palm Beach County Property Appraiser	Tax Revenues <u>Street Address Development</u>



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AGENCY	SUBJECT OF COORDINATION
Palm Beach County School District	Schools
Palm Beach County Sheriff's Office	Law Enforcement
Palm Beach County Solid Waste Authority	Solid waste and recycling collection services
<del>Palm Beach County Planning and Zoning Division</del>	<del>Planning Activities</del>
<b>Special Districts</b>	
Indian Trail Improvement District	Stormwater Management and Road Maintenance Services in neighboring "Acreage" community
Loxahatchee Groves Water Control District (LGWCD)	Stormwater Management and Road Maintenance Services
Seminole Improvement District (SID)	Stormwater Management and Road Maintenance Services and  Water/ <del>Sewer</del> Wastewater/Reuse  Other areas as defined in Interlocal Agreement <a href="#"><u>between the City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March 2018 ("SID-Westlake Interlocal")</u></a>
<b>Florida Departments and Agencies</b>	
<a href="#"><u>Florida</u></a> Department of Economic Opportunity, Division of Community Planning	Planning Activities
<a href="#"><u>Florida Department of Health</u></a>	<a href="#"><u>Health</u></a>
<a href="#"><u>Florida</u></a> Division of Emergency Management	Emergency Management
<a href="#"><u>Florida Department of Environmental Protection</u></a>	<del>Water Quality</del> Environmental
Florida Department of Transportation	Transportation
<a href="#"><u>Florida Department of Business and Professional Regulation</u></a>	Various Licenses
South Florida Water Management District	Permitting



## City of Westlake Comprehensive Plan

AGENCY	SUBJECT OF COORDINATION
<del>State</del> Florida -Division of Historical Resources	Historic and Archaeological Resources
Treasure Coast Regional Planning Council	General Planning
<b>United States Departments and Agencies</b>	
US Census Bureau	Census and Surveys
US Army Corps of Engineers	Engineering and Environmental
<u>US</u> Environmental Protection Agency	Environmental
US Department of Housing and Urban Development	Affordable Housing
US Postal Service	Address development, mail delivery
<u>US Department of Health and Human Services</u>	<u>Health and Human Services</u>
<b>Other</b>	
Palm Beach <del>County Metropolitan</del> Transportation Planning <del>Organization</del> Agency	Transportation Planning
Palm Beach County League of Cities	Governmental Coordination
Palms West Chamber of Commerce	Economic Development
IPARC (Intergovernmental Plan Amendment Review Committee)	Comprehensive Plan Amendment Coordination
<u>City of West Palm Beach</u>	<u>City of West Palm Beach facilities within City of Westlake Boundaries</u>

### Interjurisdictional Coordination

The City participates in several formal and informal agreements with several agencies. It is common practice for new municipalities to retain County services for the first few years after incorporation, and even indefinitely. The City contracts with the Palm Beach County Fire-Rescue Department and Sheriff's Office (District #4) to provide fire protection and police services.

The City coordinates with neighboring municipalities, special districts, Palm Beach County, and other governmental agencies that provide storm water management, fire and police protection, utilities, and road maintenance services. The most important intergovernmental coordination efforts are with the Seminole Improvement District (SID). The City Charter requires the City to coordinate efforts with SID, ~~which provides potable water, sewer, stormwater management and road maintenance services within the City's municipal boundaries.~~ Coordination between the City and SID is governed by the Interlocal Agreement between the



City of Westlake and the Seminole Improvement District Regarding the Provision of Certain Services, Infrastructure, and Public Facilities in the City of Westlake and for Assurance of Non-Duplication of Services dated March, 2018 (SID-Westlake Interlocal). A copy of the SID-Westlake Interlocal is attached hereto as Appendix A. The SID-Westlake Interlocal provides that SID is responsible for providing potable water, wastewater, and reclaimed (reuse), water but does not infringe on the City's police power to provide police, fire, and emergency medical services. SID may construct or require developers to construct roads and transportation infrastructure, but the City may own the roads. SID will be responsible for surface water management and drainage as well as road maintenance services. The SID-Westlake Interlocal also requires that SID and the City consult at least twice a year on current and future projects, and that during the formal consultations the 5-Year Schedule of Capital Improvements be discussed. It also provides for assistance in emergencies, mutual aid, and grants permission for use of rights-of-way.

The City is not located within any airport hazard area, therefore, no coordination is required pursuant to Fl. Statute 333.03(1)(b).

### Comparison with Regional Policy Plan

The Strategic Regional Policy Plan (SRPP) for the Treasure Coast (1995) has been reviewed and considered during the process of writing this Plan. The Plan conforms to the SRPP. Specific Coordination issues in each Plan element were reviewed for interagency coordination needs.

### Palm Beach County Intergovernmental Coordination Program

Palm Beach County's coordination program was established through two interlocal agreements that created the Multijurisdictional Issues Forum and the Comprehensive Plan Amendment Coordinated Review Process. The latter is referred to as the IPARC (Intergovernmental Plan Amendment Review Committee). The purpose of IPARC is to provide:

- a) Coordination for the review of proposed Plan amendments,
- b) Cooperation between affected local governments and service providers, and
- c) Opportunities to resolve potential disputes only within the plan amendment process with the least amount of infringement upon existing processes.

The City ~~may will~~ participate in the Intergovernmental Plan Amendment Review Committee to coordinate planning activities in the City.





## Treasure Coast Dispute Resolution Program

The City will participate in the Dispute Resolution program offered by the Treasure Coast Regional Planning Council (TCRPC). The TCRPC offers a dispute resolution process to reconcile differences between or among local governments, regional agencies, and private interests on planning and growth management issues. The dispute resolution process for the Treasure Coast Region is adopted as Rule 29K-4 of the Florida Administrative Code. The Treasure Coast Regional Planning Council has been trained in mediation and conflict resolution and has access to other resources that can be utilized to address conflicts and resolve disputes.

## The School District of Palm Beach County

Coordination with the school district is important as the City's decisions regarding land use and density have an effect on the number and location of schools.

This coordination was formerly accomplished through a mandatory school concurrency process. The Florida Legislature made school concurrency optional in 2011 with the passage of the Community Planning Act. The same year, the original Palm Beach County Interlocal Agreement (ILA) for School Concurrency expired. The School Board, the Board of County Commissioners and the League of Cities charged IPARC with updating the existing ILA. The group opted to implement an alternative to School Concurrency, called the School Capacity Availability Determination (SCAD), and recommended entering into a new interlocal agreement for coordinated planning.

### Interlocal Agreement for Coordinated Planning

The revised Interlocal Agreement (ILA) was approved and adopted by the School Board in August 19, 2015, and by the Palm Beach County on December 15, 2015. Several municipalities joined the new ILA. Since then other municipalities have joined the Interlocal Agreement.

Local government signatories of the agreement are required to incorporate ~~annually~~ the School Board 5-Year Capital Facilities Plan into their comprehensive plans annually, without any funding obligation as well as coordinate and share information for planning purposes, including school's population projections and local governments' development and redevelopment proposals. The School Board may appoint non-voting representatives to local governments' land planning agencies, who will attend meetings and public hearing hearings at the discretion of the School Board.

### School Capacity Availability Determination (SCAD)

Pursuant to the ILA, School Capacity Availability Determination (SCAD) was established to replace school concurrency. Per the SCAD, School District staff would conduct an analysis regarding the impacts on local schools, including potential boundary changes, and make recommendations that could be incorporated as conditions of development approval, dependent upon local government approving Board. The County was subdivided into 20 Planning Areas as part of the SCAD process. ~~The School District staff has started the implementation of SCAD review process.~~



## City of Westlake Comprehensive Plan

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The School Capacity Availability Determination (SCAD) process includes all public schools in Palm Beach County. It entails reviewing the impact of ~~the~~ proposed comprehensive plan amendments, ~~rezoning,~~ and/or development orders on existing public schools and planned and funded schools.

~~Different from school concurrency~~ Through SCAD, District staff evaluates ~~through SCAD~~ the direct impacts to schools actually serving ~~the~~ proposed development as well as any planned capacity. SCAD review provides realistic information on impacts to schools. It uses 100% utilization of Florida Inventory of School Houses (FISH) capacity. If capacity is not available at the direct school serving the proposed development, then capacity at adjacent schools in the same planning area is reviewed. Complete choice schools are not included in the evaluation for school impacts.

TAB A

Appendix A found in clean version