Council Members

Roger Manning-Mayor Katrina Long Robinson-Vice Mayor John Stanavitch-Seat 1 Kara Crump-Seat 2 Phillip Everett-Seat 3



City of Westlake 4001 Seminole Pratt Whitney Rd. Westlake, Florida 33470 Phone: 561-530-5880 Fax: 561-790-5466

Workshop Meeting Monday, August 28, 2017

Meeting Location Westlake Council Chambers 4005 Seminole Pratt-Whitney Road Westlake, FL 33470 6:30 PM

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision made by the City Council with respect to any matter considered at this meeting or hearing, such interested person will need a record of the proceedings and for such purpose may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. The meeting/hearing may be continued to another date and time as may be found necessary during the aforesaid meeting. In accordance with the provisions of the Americans with Disabilities Act (ADA), any person requiring special accommodations at these meetings because of disability or physical impairment should contact the Interim City Manager at (954)753-5841 at least two (2) calendar days prior to the meeting.

Council Members

Roger Manning-Mayor Katrina Long Robinson-Vice Mayor John Stanavitch-Seat 1 Kara Crump-Seat 2 Phillip Everett-Seat 3



Agenda Page 2 City of Westlake

4001 Seminole Pratt Whitney Rd. Westlake, Florida 33470 Phone: 561-530-5880 Fax: 561-790-5466

August 23, 2017

City Council City of Westlake

Dear Mayor and Council:

The City Council of the City of Westlake will hold a workshop meeting on Monday, August 28, 2017 at 6:30 p.m. at the Westlake Council Chambers, 4005 Seminole Pratt Whitney Road, Westlake, Florida. Following is the advance agenda for the meeting.

- 1. Call to Order/ Roll Call
- 2. Pledge of Allegiance
- 3. Approval of Agenda
- 4. Audience Comments on Agenda Items (3) Minute Time Limit
- 5. Discussion and Presentation of Comprehensive Plan Elements
 - Infrastructure Element
 - Capital Improvement Element
 - Transportation Element
- 6. Audience Comments on Other Items (3) Minute Time Limit
- 7. Adjournment

Any additional supporting material for the items listed above, not included in the agenda package, will be distributed at the meeting. Staff will present their reports at the meeting. I look forward to seeing you, but in the meantime if you have any questions, please contact me.

Sincerely,

Kenneth Cassel

Kenneth G. Cassel City Manager

cc: Pam E. Booker, Esq John Carter Terry Lewis Kelley Burke

Infrastructure Element Presentation



SEMINOLE IMPROVEMENT DISTRICT (SID)

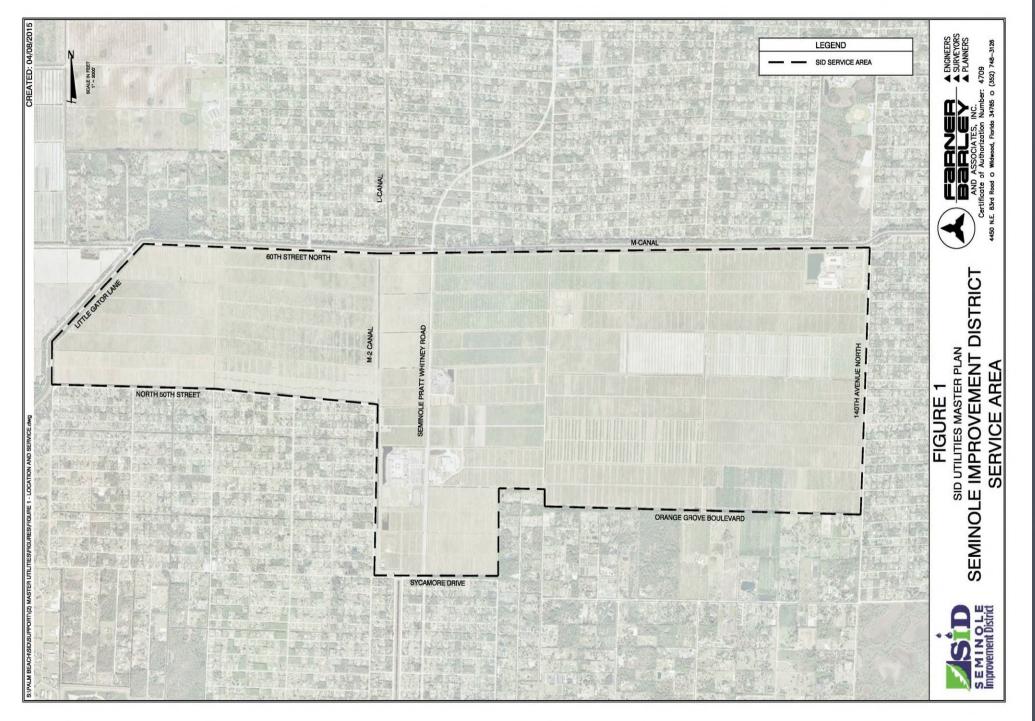
8.28.17

History of SID:

Formerly known as Seminole Water **Control District** Established June 19, 1970 by State of Florida Statutes Florida Legislature empowers SID to provide public infrastructure Governed by a three-member Board of Supervisors

Statutory Responsibilities and Powers:

- Construct and maintain public works and utilities
 - Potable Water
 - Reuse/Reclaim Water
 - Wastewater
 - Drainage
 - Irrigation
 - Water Management
 - Parks
 - Recreation Facilities
 - Roadways



UTILITY PROVIDER

- SID is the exclusive retail provider of potable water, reuse water, wastewater, and drainage facilities in the city
- SID has bulk water agreements with Palm Beach County to provide adequate water and wastewater supply and capacity to the city

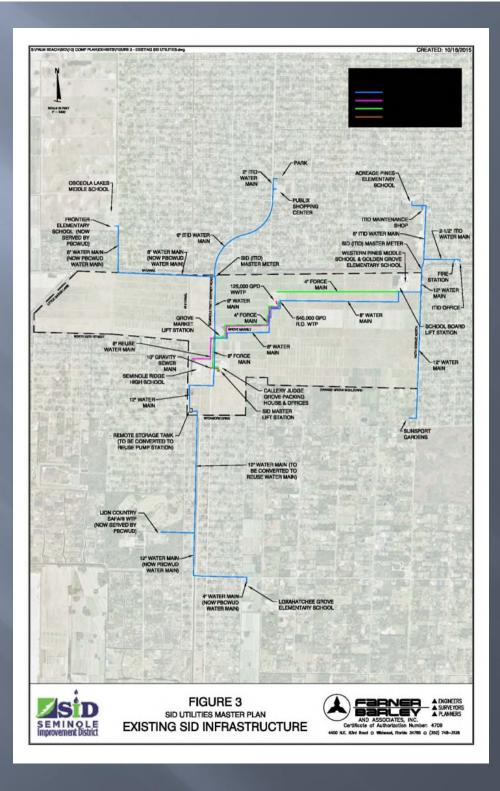
SEMINOLE IMPROVEMENT DISTRICT

CITY OF WESTLAKE

EXISTING INFRASTRUCTURE

- The majority of the lands within the SID service area are currently used for tree nurseries, row crops, other agricultural uses, or in accessory agriculture uses such as an existing packing house or offices. The remainder of the land is utilized for schools, public ownership, MUPD (Grove Market), or for utility purposes
- Existing customers include water and wastewater service to six (6) users, as detailed the table. SID does not provide reuse water service to any customers





PROPOSED DEVELOPMENT

- On October 29th 2014, the Palm Beach Board of County Commissioners (BCC) approved and adopted the comprehensive amendments to the future land use atlas, the zoning map amendments, and the Unified Land Development Code (ULDC) amendments requested by the primary landowner, Minto
- Under the approvals from the County, the SID service area was rezoned from Agriculture Residential (AR) and Public Ownership (PO) to Traditional Town Development (TTD). The future land use atlas was amended to revise previously adopted conditions of the Agricultural Enclave (AGE) future land use designation, and to change the portion of the District with the future land use designation of Rural Residential to AGE. Changes to intensity and density are summarized below. The tabular acreage breakdown of the proposed development land use plan

PROPOSED USES				
USE	DENISTY			
RESIDENTIAL	4,546 UNITS			
RETAIL	500,000 SQ. FT.			
OFFICE	450,000 SQ. FT.			
RESEARCH DEVELOPMENT/LIGHT INDUSTRIAL	1,050,000 SQ. FT.			
HOTEL	150 ROOMS			
COLLEGE	3,000 STUDENTS			

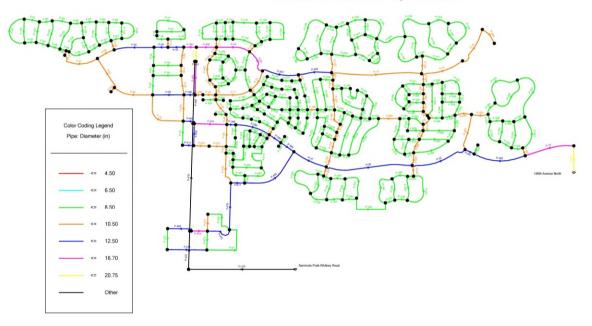
The existing Silver Lakes parcel is currently zoned as rural residential, development and service information of the parcel is unknown. The master planning analysis did not include the Silver Lakes parcel

HYDRAULIC MODEL ANALYSIS

- The purpose of the hydraulic model is to evaluate the proposed development requirements to identify the required SID capital improvement infrastructure, as well as potential problems which may arise during growth in the SID service area as greater demands are placed on the system. The capital improvements will address the requirements of the infrastructure for city, including the following:
 - Utility (potable water, reuse water, and wastewater) main size required for development
 - Utility Meter Sizes
 - Most cost effective method of looping for future development
 - Connection locations to Palm Beach County utilities
 - Flexibility of the system
 - Retrofitting existing potable water facilities for use in the reuse water system
 - Improvements to the storage facilities
 - Offsite reuse water mains
 - Recreation Facilities

POTABLE WATER MASTER HYDRAULIC MAP

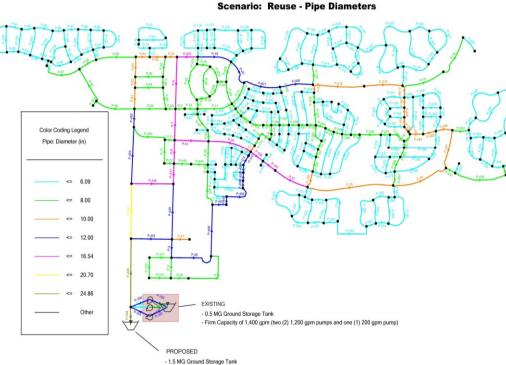
Scenario: Potable Water - Pipe Diameters



Potable Water.wtg 4/10/2015 Bentley Systems, Inc. Haestad Methods Solution Center 27 Siemon Company Drive Suite 200 W Watertown, CT 06795 USA +1-203-755-1666 Bentley WaterCAD V8i (SELECTseries 5) [08.11.05.61] Page 1 of 1

Agenda Page 13

REUSE WATER MASTER HYDRAULIC MAP



- 3,600 gpm High Service Pump Station (three (3) 1,200 gpm pump)

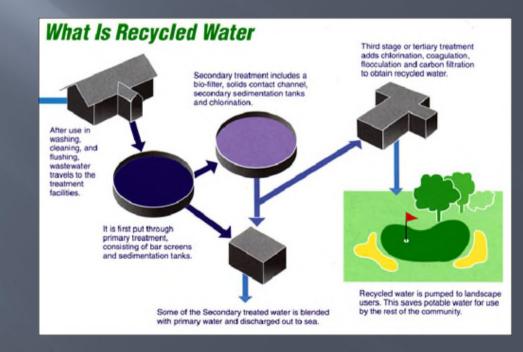
Bentley Systems, Inc. Haestad Methods Solution Center 27 Siemon Company Drive Suite 200 W Watertown, CT 06795 USA +1-203-755-1666 Bentley WaterCAD V8i (SELECTseries 5) [08.11.05.61] Page 1 of 1

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WHAT IS REUSE WATER

Reuse water, also known as reclaimed water and recycled water, is the process of converting wastewater into water that can be reused for other purposes, as a water saving measure for irrigation













INFRASTRUCTURE ELEMENT OF THE COMPREHENSIVE PLAN

Purpose of Infrastructure Element is to identify and describe public facilities and services needed to accommodate the City's population

Potable Water
Reuse Water
Wastewater
Solid Waste
Drainage
Ground Water Recharge

POTABLE WATER

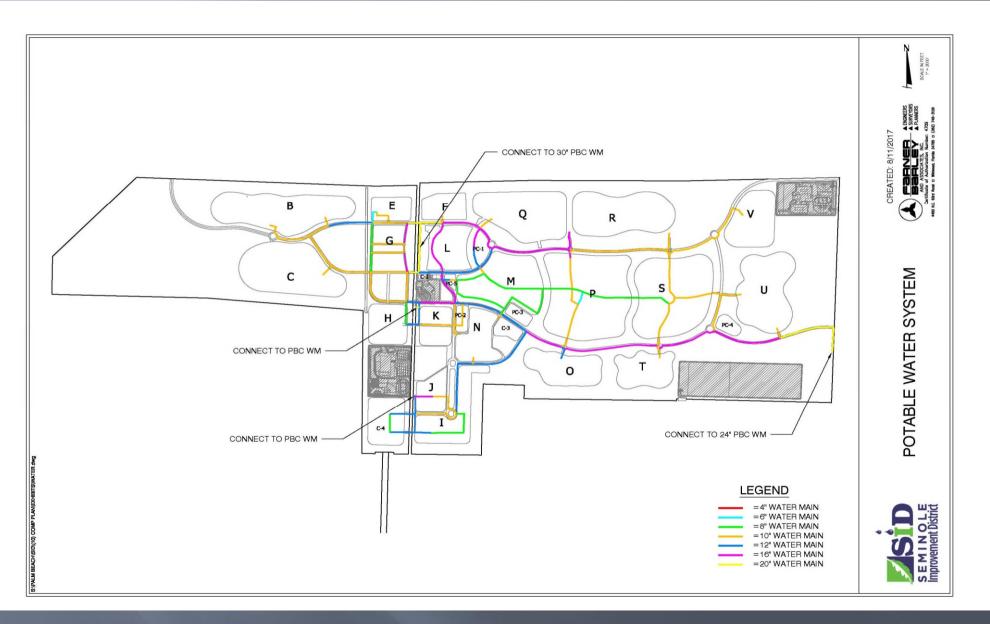
The City of Westlake's level of service standard for potable water is 110 gallons per capita per day for residential uses and 150 gallons per 1,000 sq. ft. per day for non-residential uses unless otherwise listed for specific non-residential uses. The level of service standards for specific nonresidential uses are based on rule 64E, FAC in existence at the date of adoption of this plan (2018)

The following table provides an analysis of potable water supply and demand over the short and long term planning periods. It evaluates the projected residential population, including the seasonal population, projected non-residential square footage, the adopted level of service and the available capacity for potable water through the 2038 planning horizon

POTABLE WATER ANALYSIS TABLE

Potable Water Level of Service Standard					
	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				
Demand C	Generators				
	2018	2023	2038		
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		
Demand Projections					
	2018	2023	2038		
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		

POTABLE WATER Agenda Page 21 MASTER DEVELOPMENT MAP



WASTEWATER

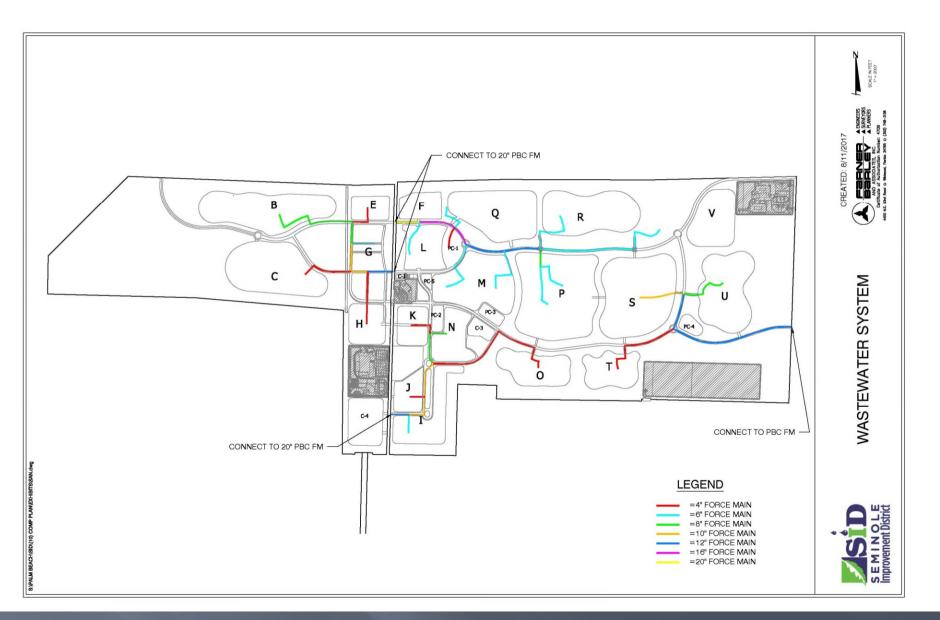
The City of Westlake's level of service standard for potable water is 100 gallons per capita per day for residential uses and 150 gallons per 1,000 sq. ft. per day for non-residential uses unless otherwise listed for specific non-residential uses. The level of service standards for specific nonresidential uses are based on rule 64E, FAC in existence at the date of adoption of this plan (2018)

The following table provides an analysis of potable water supply and demand over the short and long term planning periods. It evaluates the projected residential population, including the seasonal population, projected non-residential square footage, the adopted level of service and the available capacity for potable water through the 2038 planning horizon

WASTEWATER ANALYSIS TABLE

Wastewater Level of Service Standard			
	Gallons Per Day		
Per Person	100		
Per square foot for Commercial, Civic, and Indu	0.15		
Per Student	18		
Per Hotel Room	100		
Per visitor of park and recreation facilities	10		
Demand Generators			
	2018	2023	2038
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
Demand Projections			
	2018	2023	2038
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

WASTEWATER Agenda Page 24 MASTER DEVELOPMENT MAP



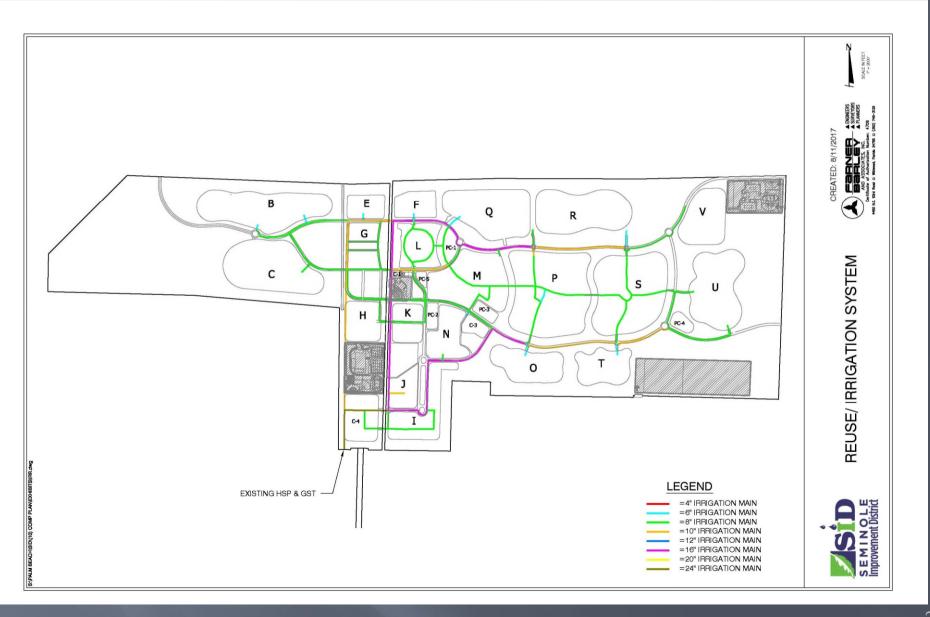
REUSE WATER

- The City will use reuse water from SID for irrigation of developed areas. If reuse is not available from County, it will be supplement with Water Use Permit. This irrigation will be supplemented by canal water as allowed by permit with the South Florida Water Management District
- An interlocal agreement 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. 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





REUSE WATER Agenda Page 26 MASTER DEVELOPMENT MAP



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 horizon 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

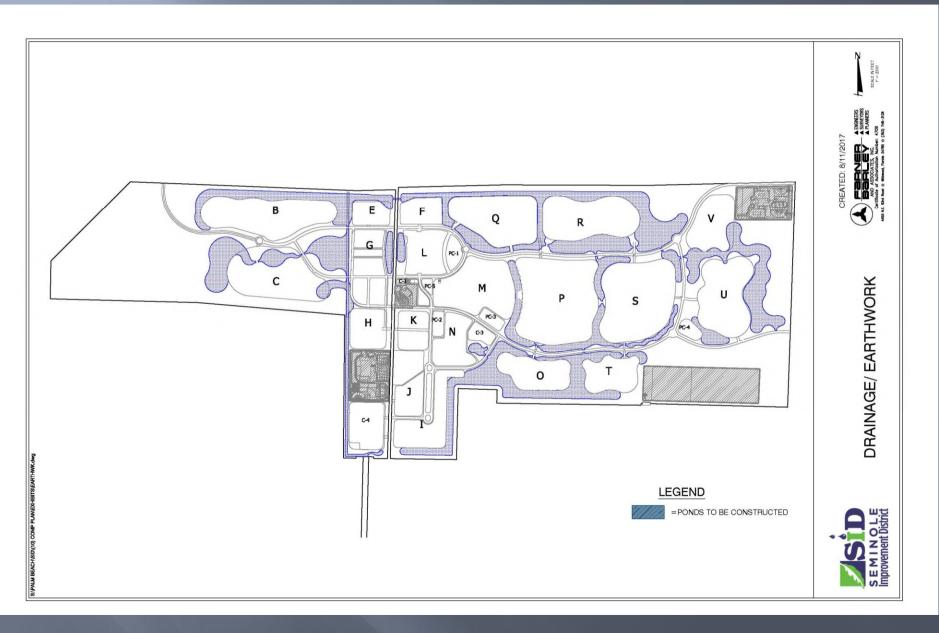
DRAINAGE

- 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 the Seminole Improvement District (SID), which can accommodate the City's future land uses shown Future Land Use Map
- SID will provide drainage for the City. SID's master drainage management plan currently provides for the 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

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

LEVEL OF SERVICE STANDARD

MASTER DRAINAGE DEVELOPMENT MAP



GOAL INFRASTRUCTURE ELEMENT 1

Provide and maintain the necessary Public Infrastructure for Potable Water, Wastewater, Drainage, Solid Waste, and Aquifer Recharge in a manner that will ensure public health, safety, and welfare to encourage a *Sustainable Community*





Potable water facilities shall be provided that are *cost effective, adequate and maintain* the adopted level of service standard

- Policy INF 1.1.1: In coordination with the SID, the City of Westlake shall evaluate the capacity, operation, and maintenance of its water distribution system on an annual basis to maintain adopted levels of service and to maximize the use of existing facilities
- Policy INF 1.1.6: Adequate water supply and potable water facilities shall be in place and available to serve new development no later than the issuance by the City of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the City shall consult with SID to determine whether adequate water supply exists to serve the new development no later than the anticipated date of issuance by the City of a certificate occupancy or its functional equivalent

Provide *adequate, efficient, and safe water* distribution to accommodate existing and future demand

- Policy INF 1.2.3: The City of Westlake shall coordinate the availability of potable water with the land uses shown on the Future Land Use Map (FLU Map 2.1)
- Policy INF 1.2.4: The City of Westlake shall coordinate with the South Florida Water Management District to continue to protect ground and surface waters

OBJECTIVE INF 1.4

In coordination with the Seminole Improvement District (SID), the City of Westlake shall provide *Reuse Water* to accommodate existing and future demand

Policy INF 1.4.1: The City will coordinate with SID to provide reuse water to residents for the use of irrigation. Where reuse water is unavailable, surface water will be used as a source of irrigation water

Ensure that *Adequate* and *Efficient* solid waste collection is available for the City of Westlake

- Policy INF 1.5.1: Coordinate with the Palm Beach County Solid Waste Authority to determine disposal capacity available to accommodate the solid waste generation of the City of Westlake for the coming year and the short and long term planning periods
- Policy INF 1.5.2: The solid waste level of service standard shall be 7.02 pounds of solid waste per person per day. Such standard shall be used for determining concurrency for solid waste

Coordinate with SID to implement a **Drainage System** for the City of Westlake that will address flood risks to public and private property

Policy INF 1.6.2: All residential and nonresidential development and redevelopment shall adequately accommodate runoff to meet all federal, state and local requirements

Provide *Adequate* and *Effective Protection* of water resources and the surficial aquifer within the City of Westlake.





CAPITAL IMPROVEMENTS ELEMENT OF THE COMPREHENSIVE PLAN

5 YEAR CAPITAL IMPROVEMENTS

The purpose of the Capital Improvements Element is to address the need for public facilities as identified in other Plan elements; to and to schedule the funding and construction of improvements to ensure that capital improvements are provided when required.

	5 YEAR PL	ANNING PERIOD	DEVELOPMENT SC	HEDULE	
FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR	FISCAL YEAR
2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023
150	225	300	300	300	300
RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL
UNITS	UNITS	UNITS	UNITS	UNITS	UNITS
75,000 SQ.FT.	50,000 SQ.FT.	50,000 SQ.FT.	125,000 SQ.FT.	150,000 SQ.FT.	200,000 SQ.FT.
NON-	NON-	NON-	NON-	NON-	NON-
RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL
DEVELOPMENT	DEVELOPMENT	DEVELOPMENT	DEVELOPMENT	DEVELOPMENT	DEVELOPMENT
PALM BEACH COUNTY FIRE STATION	17 ACRE PARK	PALM BEACH COUNTY SHERIFF STATION			150 ROOM HOTEL

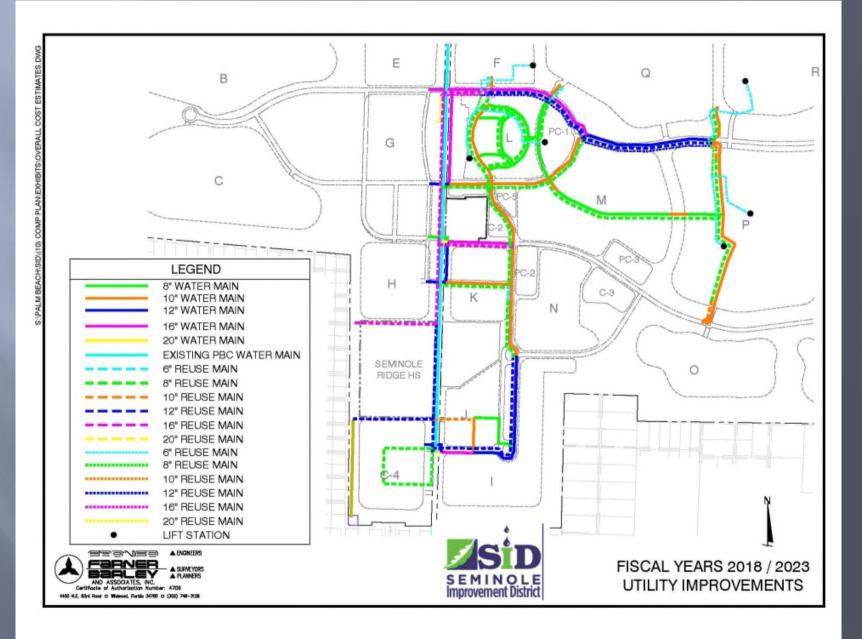
PROJECTED COST ESTIMATE

Project	Fiscal Year 2017/2018	Fiscal Year 2018/2019	Fiscal Year 2019/2020	Fiscal Year 2020/2021	Fiscal Year 2021/2022	Fiscal Year 2022/2023
Potable Water						
Extend water lines	\$325,000*	\$290,000*	\$1,020,000*	\$350,000*	\$550,000*	\$550,000*
Decommission and	\$700,000*					
convert water						
treatment plant						
Water	\$250,000*	\$150,000*	\$150,000*			
interconnections						
with Palm Beach						
County lines.						
Reuse Water						
Install reuse lines	\$220,000*	\$197,000*	\$370,000*	\$128,000*	\$200,000*	\$200,000*
Wastewater						
Extend wastewater	\$250,000*	\$225,000*	\$425,000*	\$150,000*	\$300,000*	\$100,000*
lines						\$100,000
Decommission	\$100,000*					
wastewater						
treatment plant						
Wastewater	\$75,000*	\$100,000*	\$100,000*			
interconnections						
with Palm Beach						
County lines.						
Drainage						
Construct water	\$4,800,000*	\$1,800,000*	\$1,650,000*	\$1,650,000*		
management						
system						
Transportation						
Construct 2 lane	\$1,300,000*	\$2,200,000*	\$1,320,000*	\$450,000*	\$500,000*	\$550,000*
collector						<i>4330,000</i>
TOTAL						
	\$8,020,000	\$4,962,000	\$5,035,000	\$2,728,000	\$1,550,000	\$1,400,000

Source: Seminole Improvement District (2016)

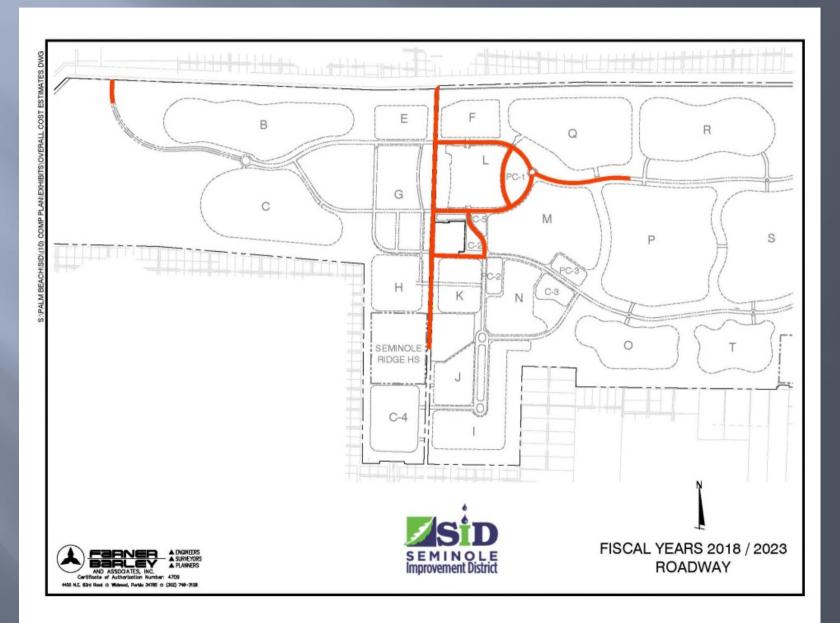
*Funded through Seminole Improvement District contributions

5 YEAR UTILITY CAPITAL IMPROVEMENT MAP

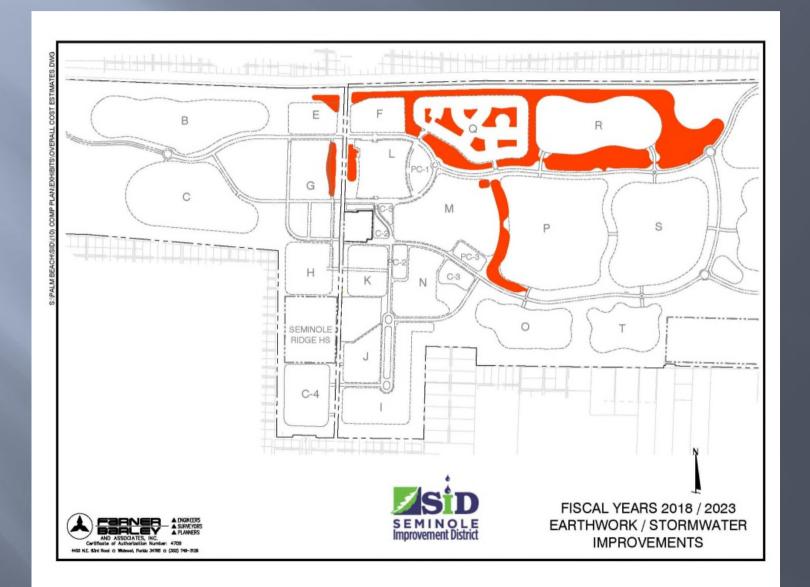


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5 YEAR ROADWAY CAPITAL IMPROVEMENT MAP



5 YEAR DRAINAGE CAPITAL IMPROVEMENT MAP



GOAL CAPITAL IMPROVEMENT ELEMENT 1

federal budgeting timeframe provides long-term needs effectively

stakeholders use stabilizes

planning financial programming linking communication resources financial programming linking communication cooperationstate grant-in-aid grant-in-aid

Ensure the *Timely* and **Efficient** provision of **Public Facilities** for Existing and Future **Populations**

improves

community

THANK YOU!



NON-RESIDENTIAL POD ENTRY

WHEELEN WAR

. And a start a start a start a start

Transportation Element Presentation



Engineering Department

COMPREHENSIVE PLAN Transportation Element (TE)

Presentation Outline

- Purpose of the Transportation Element
- Definitions
- Existing network and conditions
- 2023 anticipated network and conditions
- 2038 anticipated network and conditions
- Goals/Objectives/Policies

Presentation Outline

- Purpose of the Transportation Element
 Definitions
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Purpose of the Transportation Element

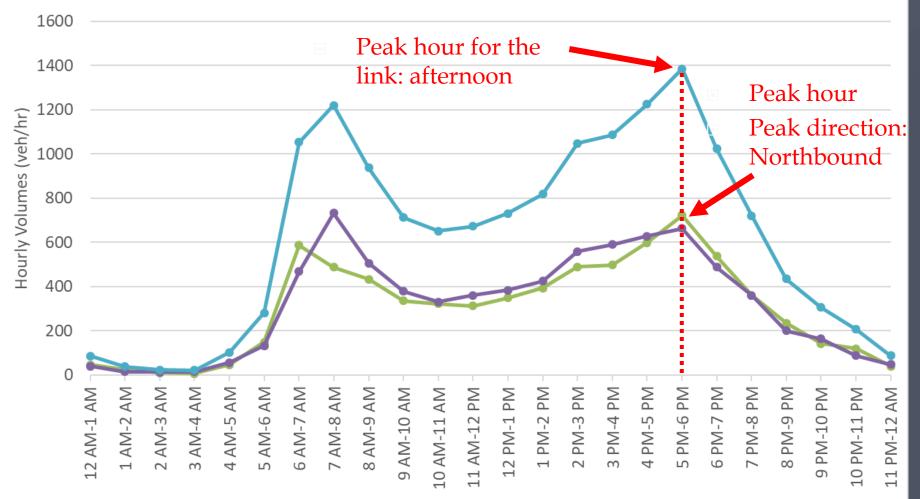
- Plan for a safe, convenient multimodal transportation system
- Coordinate with the planned Future Land Use
- Design to support all elements of the Comprehensive Plan
- Address transportation needs, including:
 - Roadways
 - Mass Transit
 - Bicycle and Pedestrian Facilities

Presentation Outline

- Purpose of the Transportation Element
 Definitions
- Existing network and conditions
- 2023 anticipated network and conditions
- 2038 anticipated network and conditions
- Goals/Objectives/Policies

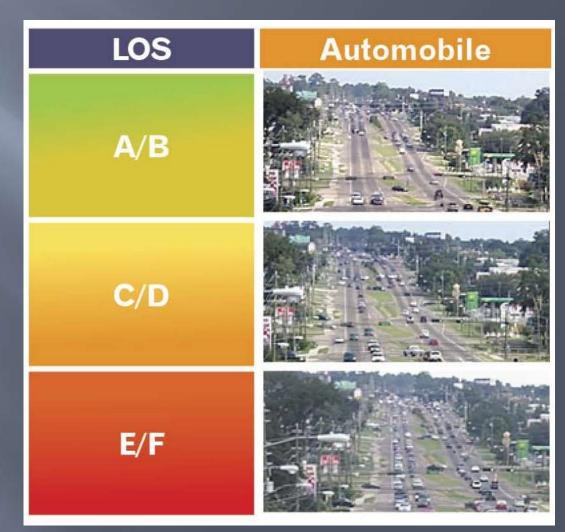
Peak Hour

Hourly Volume Profile



Level of Service (LOS)

From Highway Capacity Manual (HCM): LOS is a quantitative stratification of a performance measure or measures representing quality of service ... through the use of a familiar A (best) to F (worst) scale



Source: FDOT 2013 Quality/Level of Service Handbook

LOS Thresholds

Planning Analysis

Operational Analysis

Signalized Arterial

STATE SIGNALIZED ARTERIALS

	Class I (40 m	ph or hig	her posted sp	eed limit)	
Lanes	Median	В	С	D	E
1	Undivided	*	830	880	**
2	Divided	*	1,910	2,000	**
3	Divided	*	2,940	3,020	**
4	Divided	*	3,970	4,040	**
	Class II (35 m	nph or slo	wer posted s	peed limit)	
Lanes	Median	В	С	D	E
1	Undivided	*	370	750	800
2	Divided	*	730	1,630	1,700
3	Divided	*	1,170	2,520	2,560
4	Divided		1,610	3,390	3,420

Peak Hour Peak Directior Volume Thresholds

Source: FDOT 2013 Quality/Level of Service Handbook

Signalized Arterial

Signalized Intersection

LOS		Threshold by v Speed (mph)	LOS	Control Delay	
	40	35			
А	> 32	> 28	А	≤10	
В	> 27	> 23	В	> 10-20	
С	> 20	> 18	С	> 20-35	
D	> 16	> 14	D	> 35-55	
Е	> 12	> 11	Е	> 55-80	
F	≤12	≤11	F	> 80	

Source: Highway Capacity Manual (HCM) 6th Edition

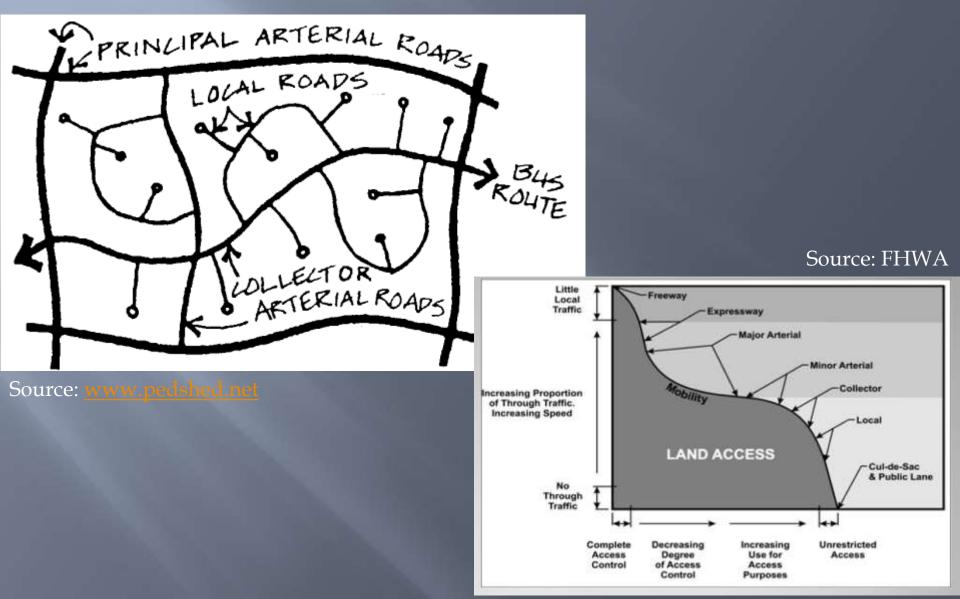
LOS in Palm Beach County

2014 Daily Level of Service



Source: FDOT District 4 Level of Service Assessment Report

Functional Classifications



Urban Minor Arterial



Urban Major Collector



Roadway Needs

Existing Roadways, serving:

 High School
 Retail
 Farm

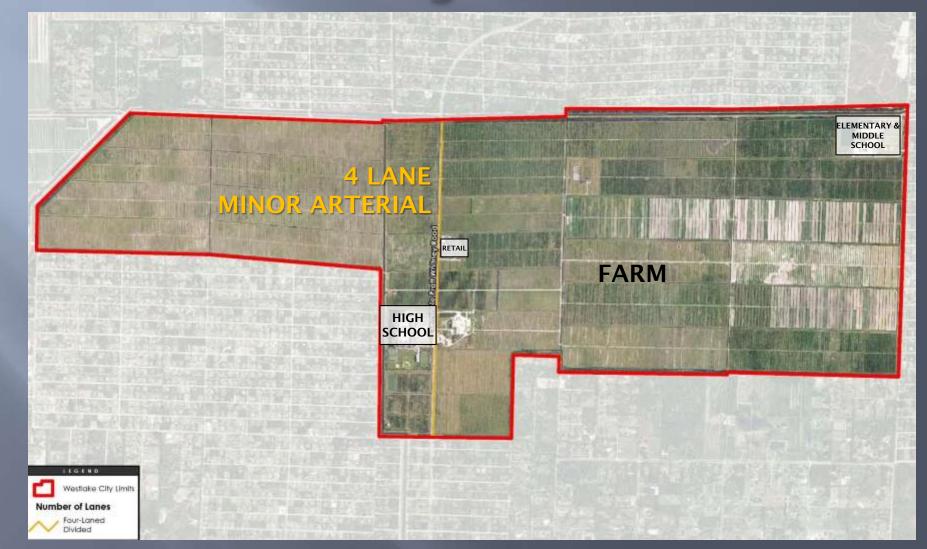
 Future Roadways

 Coordinate with Future Land Use Plan
 Support anticipate Growth and Development

Presentation Outline

- Purpose of the Transportation Element
- Definitions
- Existing network and conditions
- 2023 anticipated network and conditions
- 2038 anticipated network and conditions
- Goals/Objectives/Policies

Existing Roadway and Existing Land Use



Existing (2016) Conditions

Roadway Name	Limit	Lanes	Adopted LOS	Roadway Classification	Capacity	2016 Volume	Current LOS
Seminole Pratt	Sycamore Dr to Seminole Ridge HS	4LD	D	Urban Minor Arterial	2,000	999	С
Whitney Road	Seminole Ridge HS to 60th St	4LD	D	Urban Minor Arterial	2,000	999	С

Presentation Outline

- Purpose of the Transportation Element
- Definitions
- Existing network and conditions
- 2023 anticipated network and conditions
- 2038 anticipated network and conditions
- Goals/Objectives/Policies

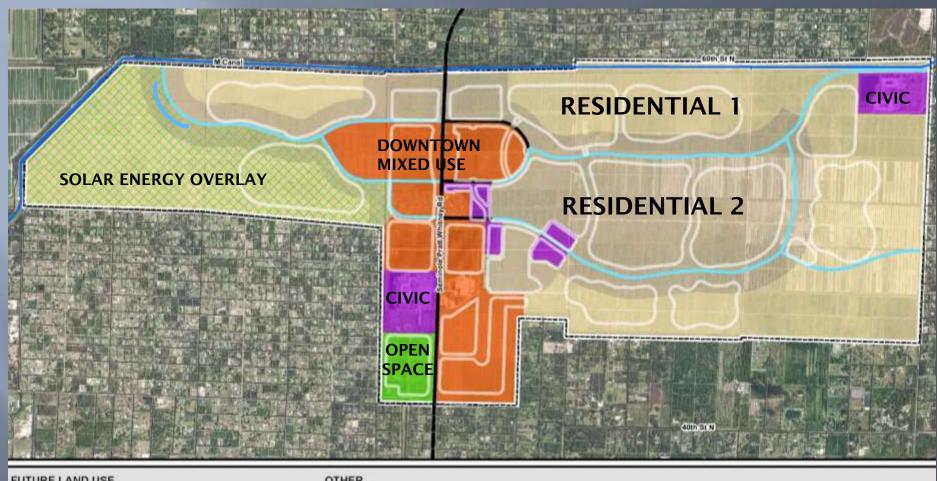
5-year (2023) Roadway



Two-Laned Undivided Fout-Laned Divided



Future Land Use Map







		Open Space & Recreation
d Use	222	Solar Energy Overlay

Civic

_	_	104
 _	_	્યત

oots

Future Streets

Major Canal

Development Pods

City of Westlake Comprehensive Plan

Revision Date: August 20, 201

5-year (2023) Conditions

Roadway Name	Limit	Lanes	Adopted LOS	Roadway Classifica- tion	Capacity	2023 Volume	2023 LOS
Seminole Pratt Whitney Road	Sycamore Dr to Persimmon Blvd	4LD	D	Urban Minor Arterial	2,000	1,906	С
	Persimmon Blvd to E Town Center Pkwy	4LD	D	Urban Minor Arterial	2,000	1,860	С
	E Town Center Pkwy to 60th St	4LD	D	Urban Minor Arterial	2,000	1,839	С

5-year (2023) Conditions (cont.)

Roadway Name	Limit	Lanes	Adopted LOS	Roadway Classifica- tion	Capacity	2023 Volume	2023 LOS
East Town Center Parkway	Seminole Pratt Whitney Rd to Eastern Terminus	2LU	D	Urban Major Collector	709	578	D
Persimmon Blvd	Seminole Pratt Whitney Rd to Eastern Terminus	2LU	D	Urban Major Collector	832	385	С

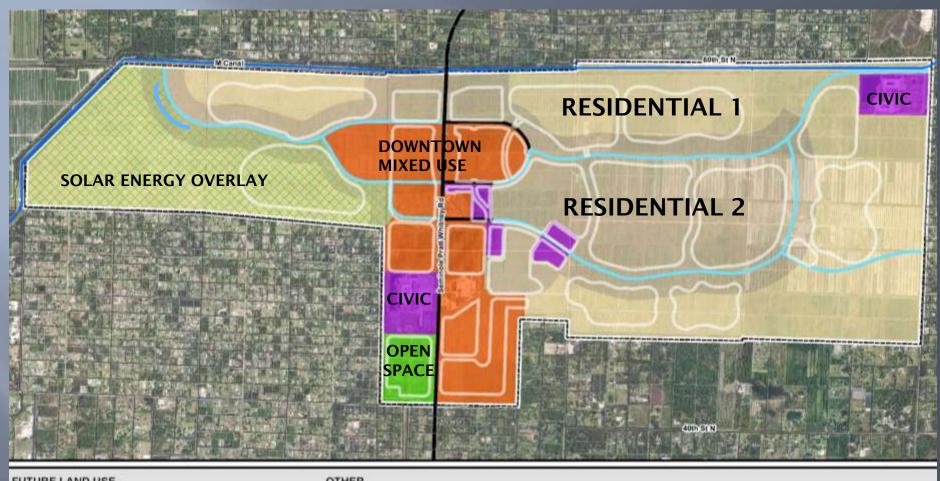
Presentation Outline

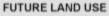
- Purpose of the Transportation Element
- Definitions
- Existing network and conditions
- 2023 anticipated network and conditions
- 2038 anticipated network and conditions
- Goals/Objectives/Policies

20-year (2038) Roadway



Future Land Use Map







-	Open	Space	8	R
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Civic

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Future Streets

Major Canal

Development Pods

City of Westlake Comprehensive Plan

Revision Date: August 20, 201

20-year (2038) Conditions

Roadway Name	Limit	Lanes	Adopted LOS	Roadway Classifica- tion	Capacity	2038 Volume	2038 LOS
Seminole Pratt	Sycamore Dr to Persimmon Blvd	4LD	D	Urban Minor Arterial	2,000	1,880	С
Whitney Road	Persimmon Blvd to 60th St	6LD	D	Urban Minor Arterial	3,020	2,144	D
East Town	Seminole Pratt Whitney Rd to W Roundabout	4LD	D	Urban Major Collector	1,467	719	D
Center Pkwy	W Roundabout to 60 th St	4LD	D	Urban Major Collector	1,800	580	С

20-year (2038) Conditions (cont.)

Roadway Name	Limit	Lanes	Adopted LOS	Roadway Classifica- tion	Capacity	2038 Volume	2038 LOS
SE Town Center Pkwy	Seminole Pratt Whitney Rd to W Roundabout	4LD	D	Urban Major Collector	1,467	719	D
SW Town Center Pkwy	W Town Center Pkwy to Seminole Pratt Whitney Rd	2LU	D	Urban Major Collector	709	641	D
West Town	Western Terminus to SW Town Center Pkwy	2LU	D	Urban Major Collector	709	321	С
Center Pkwy	SW Town Center Pkwy to Seminole Pratt Whitney Rd	2LU	D	Urban Major Collector	709	641	D

20-year (2038) Conditions (cont.)

Roadway Name	Limit	Lanes	Adopted LOS	Roadway Classifica- tion	Capacity	2038 Volume	2038 LOS
Persimmon B1vd	Seminole Pratt Whitney Rd to Persimmon East	4LD	D	Urban Major Collector	1,800	840	С
Persimmon / Town Center Connector	Persimmon Blvd to E Town Center Pkwy	2LU	D	Urban Major Collector	709	143	С

Bicycle and Pedestrian Network

Part of the overall mobility vision of the City
 Reduce the need for motorized transportation within the City



Source: www.streetsblog.org



Source: www.acogok.org

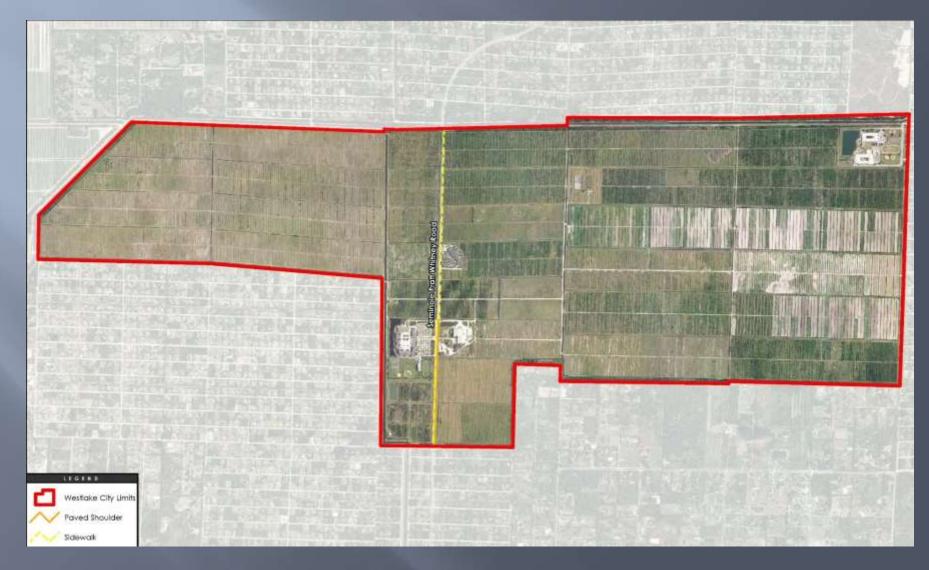
Complete Streets

- Definition of Complete Streets from Smart Growth America:
 - "Complete Streets are streets for everyone. They are designed and operated to enable safe access for all users, including pedestrians, bicyclists, motorists and transit riders of all ages and abilities."



Source: FDOT Complete Street Implementation Plan 2015

Existing Bicycle and Pedestrian Facilities



Future Bicycle and Pedestrian Facilities



Evacuation Routes, Transit, Aviation

- Required under Florida Statues 163.3177(6)(b)(2)
- No existing or future evacuation routes within the City
 - Seminole Pratt Whitney Road provides access to the designated evacuation route at US 441
- No fixed-route transit or paratransit service
 - Will coordinate with Palm Tran
- No existing or proposed airport within the City
 - The nearest airport is >7 miles away







Evacuation Routes



Source: Florida Division of **Emergency Management**

Legend

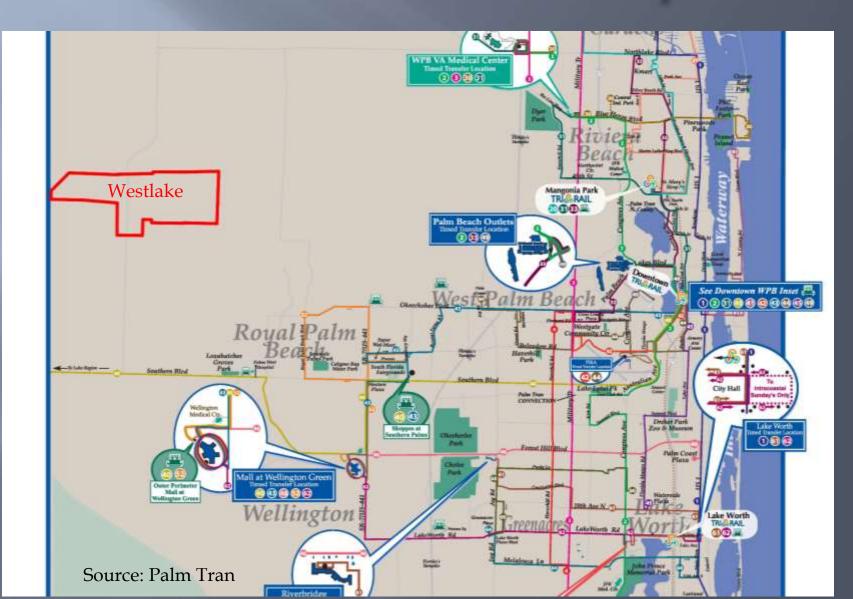
Zone A Zone B

Zone C

Zone D

Zone E

Palm Tran Bus Map



Presentation Outline

- Purpose of the Transportation Element
- Definitions
- Existing network and conditions
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Goal Transportation Element 1

Provide a Safe, Convenient, and Energy Efficient Multi-modal Transportation System in the City of Westlake



Source: www.aimsun.com

Provide a **Traific Circulation Network** that is coordinated with and **adequately** serves the anticipated and planned **growth** represented in the Future Land Use Map for the short and long term planning periods

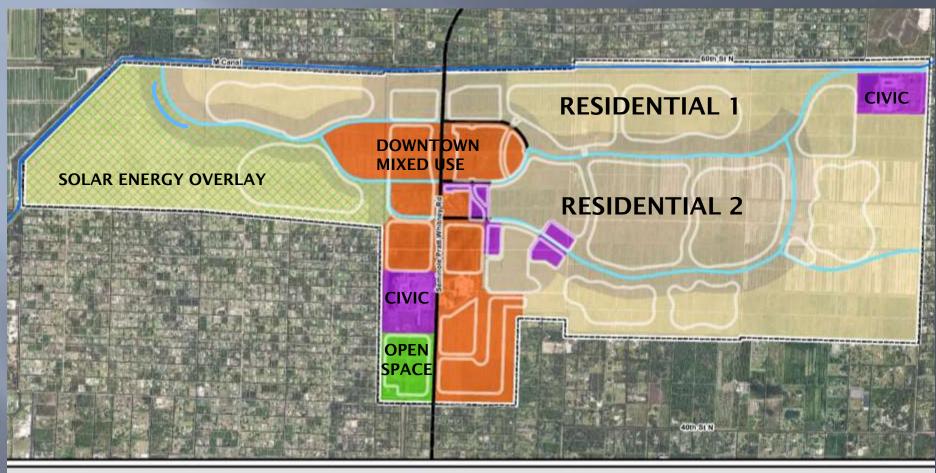


Source: www.ecovallee-cotedazur.com

20-year (2038) Roadway



Future Land Use Map







Open Space & Recreation Solar Energy Overlay

Civic



Streets

Future Streets

Major Canal

Development Pods

City of Westlake Comprehensive Plan

Revision Date: August 20, 201

Objective TE 1.2

Maintain mobility within the City of Westlake

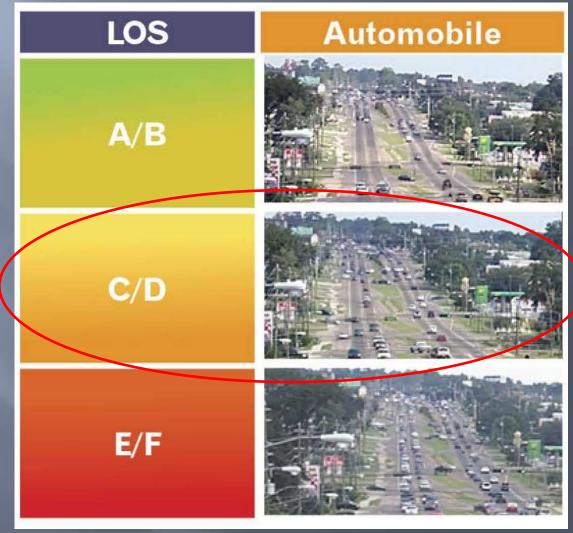


Source: www.nacto.org

Policy TE 1.2.1

The adopted roadway level of service for Seminole Pratt Whitney Road within the City of Westlake shall be "D." The adopted roadway level of service for all other functionally classified roadways shall be "D." Roadway level of service will be based on the peak hour, peak direction traffic volumes. The roadway levels of service are adopted for planning purposes only

Level of Service (LOS) "D"



Source: FDOT 2013 Quality/Level of Service Handbook

Policy TE 1.2.6

To ensure that roadway level of service standards are maintained, while providing for flexibility in the development of the community, the Land Development Regulations may establish a land use equivalency process, through which exchanges of different land uses consistent with the Future Land Use Map may be accomplished so long as the proposed development **does not** result in additional transportation impacts. Exchanged land uses shall be consistent with the Future Land Use Category for the given property

Example: Exchange of Land Uses

- Example: Redevelop Existing Grove Market Shopping Center on 5060 Seminole Pratt Whitney Road to General Office
- Future Land Use: Downtown Mixed-Use
 - Allowable Uses: Commercial uses, etc.
- General office is an allowable use under Future Land Use

10 KSF Shopping Center (1,520 Daily / 128 Peak Hour Trips)



86 KSF General Office (1,170 Daily / 128 Peak Hour Trips)

(The numbers shown are for illustration purpose only)
 New land use also needs to meet Comp Plan requirements and LDRs

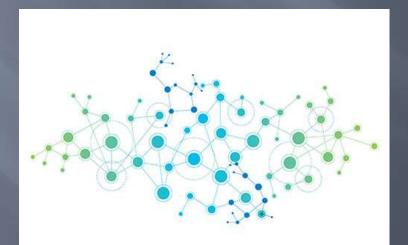
Policy TE 1.2.16

Encourage connectivity of roadways, bicycle, and pedestrian facilities in the City to reduce congestion on arterial and collector roads



Source: Miami-Dade County West End Connectivity Master Plan

Maintain adequate capacity on arterial roadways (*Seminole Pratt Whitney Road*) which <u>connect to</u> designated evacuation routes (*Southern Boulevard*)



Source: www.trinitymaxwell.com

To provide safe and accessible alternatives to motorized transportation through bicycle and pedestrian facilities



Source: www.westsiderag.com

Future Bicycle and Pedestrian Facilities



Policy TE 1.4.4

The City of Westlake shall ensure bicycle and pedestrian facilities are provided. The City shall adopt Land Development Regulations that require pedestrian facilities within residential subdivisions



Source: popularenggcorp.com

Policy TE 1.4.12

Evaluate 2014 Complete Streets Policy adopted by the Florida Department of Transportation and coordinate with SID concerning applicability and integration into Land Development Regulations for design and construction of roadway projects

FDOT Complete Streets



Florida Department of Transportation

GOVERNOR

605 Suwannee Street Taliahassee, FL 32399-0450

POLICY

Effective: September 17, 2014 Office: Design Director Topic No.: 000-625-017-a

ANALYDI PRASAR P.F.

SECRETARY

COMPLETE STREETS

It is the goal of the Department of Transportation to implement a policy that promotes safety, quality of life, and economic development in Florida. To implement this policy, the Department will routinely plan, design, construct, reconstruct and operate a contextsensitive system of "Complete Streets." While maintaining safety and mobility, Complete Streets shall serve the transportation needs of transportation system users of all ages and abilities, including but not limited to:

- Cyclists Motorists Transit riders
- Freight handlers Pedestrians

The Department specifically recognizes Complete Streets are context-sensitive and require transportation system design that considers local land development patterns and built form. The Department will coordinate with local governments. Metropolitan Planning Organizations, transportation agencies and the public, as needed to provide Complete Streets on the State Highway System, including the Strategic Intermodal System.

This Complete Streets Policy will be integrated into the Department's internal manuals, guidelines and related documents governing the planning, design, construction and operation of transportation facilities.

van al Arianth Prasad, P.E.

Secretary

COMPLETE STREETS IMPLEMENTATION PLAN

M2D2: Multimodal Development and Delivery

The Florida Department of Transportation and Smart Growth America











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Smart Growth America

Ensure efficiency in transportation planning and implementation through coordination with other agencies and jurisdictions in Palm Beach County

Policy TE 1.5.1: be consistent and compatible with transportation plans from FDOT, Palm Beach County, and Palm Beach MPO

Source: evolllution.com



Planning Documents



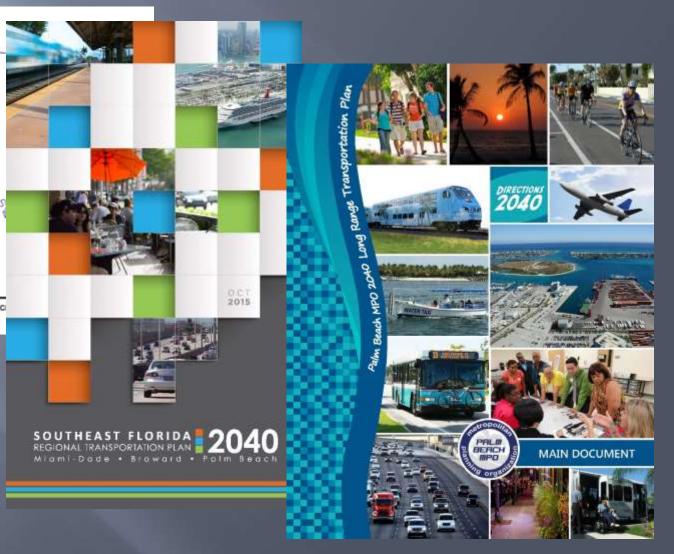
FLORIDA'S ADOPTED FIVE YEAR WORK PROGRAM

July 1, 2017 through June 30, 2022

As of July 1, 2017

Office of Work Program

FLORIDA DEPARTMENT OF TRANSPORTATION, MIKE DEW - SEC



Plan for the provision of mass-transit options as such options become available

- Policy TE 1.6.1: coordinate with Palm Tran to extend service as the City develops
- Policy TE 1.6.3: encourage population densities to support mass transit
- Policy TE 1.6.6: evaluate parking requirements for new developments

Palm Tran



The City of Westlake shall promote energy efficiency and greenhouse gas reduction strategies

Policy TE 1.7.1: promote mass-transit
 Policy TE 1.7.2: provide bicycle and pedestrian pathways