



Florida Department of Transportation

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ETDM Summary Report

Project #14402 - Neptune Road Widening From Partin Settlement Road to US 192

Programming Screen - Published on 03/19/2020

Printed on: 2/02/2021

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Introduction to Programming Screen Summary Report

The Programming Screen Summary Report shown below is a read-only version of information contained in the Programming Screen Summary Report generated by the ETDM Coordinator for the selected project after completion of the ETAT Programming Screen review. The purpose of the Programming Screen Summary Report is to summarize the results of the ETAT Programming Screen review of the project; provide details concerning agency comments about potential effects to natural, cultural, and community resources; and provide additional documentation of activities related to the Programming Phase for the project. Available information for a Programming Screen Summary Report includes:

- Screening Summary Report chart
- Project Description information (including a summary description of the project, a summary of public comments on the project, and community-desired features identified during public involvement activities)
- Purpose and Need information (including the Purpose and Need Statement and the results of agency reviews of the project Purpose and Need)
- Alternative-specific information, consisting of descriptions of each alternative and associated road segments; an overview of ETAT Programming Screen reviews for each alternative; and agency comments concerning potential effects and degree of effect, by issue, to natural, cultural, and community resources.
- Project Scope information, consisting of general project commitments resulting from the ETAT Programming Screen review, permits, and technical studies required (if any)
- Class of Action determined for the project
- Dispute Resolution Activity Log (if any)

The legend for the Degree of Effect chart is provided in an appendix to the report.

For complete documentation of the project record, also see the GIS Analysis Results Report published on the same date as the Programming Screen Summary Report.



#14402 Neptune Road Widening From Partin Settlement Road to US 192

District: District 5

Phase: Programming Screen

County: Osceola

From: Partin Settlement Road

Planning Organization: FDOT District 5

To: US 192

Plan ID: Not Available

Financial Management No.: Not Available

Federal Involvement: FHWA Funding Other Federal Permit

Contact Information: Kathaleen Linger (386) 943-5413 kathaleen.linger@dot.state.fl.us

Project Web Site: <https://www.improveneptuneroad.com/>

Snapshot Data From: Summary Report Re-Published 3/19/2020

Issues and Categories are reflective of what was in place at the time of the screening event.

	Social and Economic						Cultural			Natural					Physical						
	Land Use Changes	Social	Relocation Potential	Farmlands	Aesthetic Effects	Economic	Mobility	Section 4(f) Potential	Historic and Archaeological Sites	Recreation Areas	Wetlands and Surface Waters	Water Quality and Quantity	Floodplains	Wildlife and Habitat	Coastal and Marine	Noise	Air Quality	Contamination	Infrastructure	Navigation	Special Designations
Alternative #1 From: Partin Settlement Road To: US 192 <i>Re-Published: 03/19/2020 Reviewed from 08/27/2019 to 10/11/2019</i>	2	3	3	2	2	1	1	3	3	2	3	3	3	3	0	3	2	3	3	N/A	3

Purpose and Need

Purpose and Need

Purpose

The purpose of the project is to address capacity and safety issues along the 3.9-mile segment of Neptune Road.

Need

The need for the project is based on capacity and safety.

Capacity

The 2017 annual average daily traffic (AADT) volume on Neptune Road, between Partin Settlement and Old Canoe Creek Road was 18,100 resulting in a volume to capacity (V/C) ratio of 1.02, which indicates level of service (LOS) F operating conditions. The 2040 traffic volumes on Neptune Road between Partin Settlement Road to US 192 are projected to range between 27,000 and 55,000 AADT, resulting in LOS F for the entire corridor with V/C ratios ranging from 1.94 to 2.15.

Safety

A total of 195 crashes were reported for the five-year period (January 1st, 2013 through December 31st, 2017), including three fatal crashes and 109 injury crashes, which resulted in three fatalities and 187 injuries. The number of reported crashes per year nearly doubled over the five-year period:

- 28 crashes in 2013
- 22 crashes in 2014
- 33 crashes in 2015
- 57 crashes in 2016
- 55 crashes in 2017

A crash type analysis was conducted and the predominant crash type along the corridor was the rear-end crash (47.7 percent). Approximately 49 percent of the rear-end collisions occurred at-fault in the westbound direction and 30 percent occurred at-fault in the eastbound direction. Rear-end crashes occurred along the entire length of the corridor but were most concentrated along the sections in the vicinity of Ames Haven Road, as well as at the Commerce Center Drive and Stroupe Road intersections. The next most common crash types were left-turn crashes (14.4 percent) and run-off-the-road (ROTR) crashes (13.3 percent). Left-turn crashes were most concentrated at the intersection of Neptune Road at Stroupe Road, and ROTR crashes were most concentrated along the section of Neptune Road near Ames Haven Road.

Project Status

This project is identified in Osceola County's Comprehensive Plan and the MetroPlan Orlando Cost Feasible 2040 Long Range Transportation Plan (LRTP). Table 10 of Technical Report 3: Plan Development & Cost Feasible Projects, adopted by MetroPlan Orlando in January 2016 and updated in June 2017, includes three segments which together make up the proposed project:

- Neptune Road, from Partin Settlement Road to Henry Partin Road, widen to 4 Lanes
- Neptune Road, from Henry Partin Road to Old Canoe Creek Road, widen to 4 Lanes
- Neptune Road, from Old Canoe Creek Road to US 192, widen to 4 Lanes

MetroPlan Orlando's FY 2017/18-2021/22 Transportation Improvement Program (TIP) includes three segments which together make up the proposed project:

- Neptune Road Phase II (Project No. 92071), from Partin Settlement Road to Neptune Middle
- School Eastern Driveway, widen to 4 Lanes
- Neptune Road Phase III (Project No. 92072), from Neptune Middle School Eastern Driveway to
- Old Canoe Creek Road, widen to 4 Lanes
- Neptune Road Phase IV (Project No. 92097), from Old Canoe Creek Road to US 192, widen to 4 Lanes

The three segments are identified as locally funded by Osceola County for preliminary engineering (PE) in 2018/2019, and right-of-way (ROW) and construction (CST) in 2021/2022.

Purpose and Need Reviews

FDOT Office of Environmental Management

Acknowledgement	Date Reviewed	Reviewer	Comments
Accepted	09/30/2019	Katie Britt Williams (Katie.BrittWilliams@dot.state.fl.us)	No Purpose and Need comments found.

FL Department of Agriculture and Consumer Services

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	10/07/2019	Brian Camposano (Brian.Camposano@FDA.CS.gov)	No Purpose and Need comments found.

FL Department of Economic Opportunity

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	10/09/2019	Matt Preston (matt.preston@deo.myflorida.com)	No Purpose and Need comments found.

FL Department of State

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	09/12/2019	Adrienne Daggett (Adrienne.Daggett@dos.myflorida.com)	No Purpose and Need comments found.

FL Fish and Wildlife Conservation Commission

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	10/08/2019	Jennifer Goff (jennifer.goff@MyFWC.com)	No Purpose and Need comments found.

National Marine Fisheries Service

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	08/28/2019	Jennifer Schull (Jennifer.Schull@noaa.gov)	No Purpose and Need comments found.

National Park Service

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	09/20/2019	Anita Barnett (anita_barnett@nps.gov)	No Purpose and Need comments found.

Seminole Tribe of Florida

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	10/04/2019	Victoria Menchaca (victoriamenchaca@seminoletribe.com)	No Purpose and Need comments found.

South Florida Water Management District

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	10/07/2019	Trisha Stone (tstone@sfwmd.gov)	No Purpose and Need comments found.

US Army Corps of Engineers

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	09/30/2019	Randy Turner (Randy.L.Turner@usace.army.mil)	Understand capacity and safety needs, but at this time there is not any additional information provided in the project description such as adding travel lanes, turn lanes, multi-use lanes, etc.

US Coast Guard

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	09/19/2019	Randall Overton (randall.d.overton@uscg.mil)	Coast Guard bridge permit not required

US Environmental Protection Agency

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	10/11/2019	Roshanna White (White.Roshanna@epa.gov)	No Purpose and Need comments found.

US Fish and Wildlife Service

Acknowledgement	Date Reviewed	Reviewer	Comments
Understood	09/05/2019	John Wrublik (john_wrublik@fws.gov)	The current project description lacks sufficient information to determine what is being proposed. As written, the project description and the purpose and need sections seem to imply that the road will be widened. But this is never explicitly stated in project description.

Project Description Data

Project Description

This project involves capacity improvements to Neptune Road from Partin Settlement Road to US 192 in Osceola County, a distance of 3.9 miles.

Summary of Public Comments

Public Alternatives Meeting with an open-house format took place on 4/11/19 with 69 people in attendance. 29 comments were received. Of the comments received, a strong preference was observed for an alignment that widened Neptune Road to the north. No substantial opposition to the subject was recorded.

Planning Consistency Status

No information available.

Federal Consistency Determination

Date: 07/16/2019

Determination: CONSISTENT, WITH COMMENTS with Coastal Zone Management Program.

Comment:

Refer to project attachment [Federal Consistency Determination rcvd 7-16-19](#)

Lead Agency

FDOT Office of Environmental Management

Participating and Cooperating Agencies

No Cooperating Agencies have been identified.

Participating Agencies

- US Army Corps of Engineers

Exempted Agencies

Agency Name	Justification	Date
Federal Transit Administration	FTA has requested to be exempt from reviewing any non-transit projects.	03/05/2019

Community Desired Features

No desired features have been entered into the database. This does not necessarily imply that none have been identified.

User Defined Communities Within 500 Feet

- com.esri.aims.mtier.io.http.UnableToPingEsrimapException

Census Places Within 500 Feet

- com.esri.aims.mtier.io.http.UnableToPingEsrimapException

Alternative #1

Alternative Description

Name	From	To	Type	Status	Total Length	Cost	Modes	SIS
Alternative was not named.	Partin Settlement Road	US 192	Widening	ETAT Review Complete	? mi.		Roadway	N

Segment Description(s)

Location and Length

Segment No.	Name	Beginning Location	Ending Location	Length (mi.)	Roadway Id	BMP	EMP
Segment 1	Segment 1			3.965	Digitized		

Jurisdiction and Class

Segment No.	Jurisdiction	Urban Service Area	Functional Class
Segment 1			

Base Conditions

Segment No.	Year	AADT	Lanes	Config
Segment 1				

Interim Plan

Segment No.	Year	AADT	Lanes	Config
Segment 1				

Needs Plan

Segment No.	Year	AADT	Lanes	Config
Segment 1				

Cost Feasible Plan

Segment No.	Year	AADT	Lanes	Config
Segment 1				

Funding Sources

No funding sources found.

Project Effects Overview for Alternative #1

Issue	Degree of Effect	Organization	Date Reviewed
Social and Economic			
Land Use Changes	2 Minimal	FL Department of Economic Opportunity	10/09/2019
Social	3 Moderate	US Environmental Protection Agency	10/11/2019
Economic	1 Enhanced	FL Department of Economic Opportunity	10/09/2019
Cultural			
Historic and Archaeological Sites	2 Minimal	Seminole Tribe of Florida	10/04/2019
Historic and Archaeological Sites	3 Moderate	FL Department of State	09/12/2019
Historic and Archaeological Sites	3 Moderate	South Florida Water Management District	10/07/2019
Recreation Areas	0 None	South Florida Water Management District	10/07/2019
Recreation Areas	2 Minimal	FL Department of Environmental Protection	10/08/2019
Recreation Areas	0 None	National Park Service	09/20/2019
Natural			
Wetlands and Surface Waters	2 Minimal	US Fish and Wildlife Service	09/05/2019

Wetlands and Surface Waters	3	Moderate	US Environmental Protection Agency	10/11/2019
Wetlands and Surface Waters	2	Minimal	FL Department of Environmental Protection	10/08/2019
Wetlands and Surface Waters	2	Minimal	US Army Corps of Engineers	09/30/2019
Wetlands and Surface Waters	2	Minimal	National Marine Fisheries Service	08/28/2019
Wetlands and Surface Waters	3	Moderate	South Florida Water Management District	10/07/2019
Water Quality and Quantity	3	Moderate	US Environmental Protection Agency	10/11/2019
Water Quality and Quantity	3	Moderate	South Florida Water Management District	10/07/2019
Water Quality and Quantity	2	Minimal	FL Department of Environmental Protection	10/08/2019
Floodplains	3	Moderate	South Florida Water Management District	10/07/2019
Wildlife and Habitat	N/A	N/A / No Involvement	FL Department of Agriculture and Consumer Services	10/07/2019
Wildlife and Habitat	3	Moderate	US Fish and Wildlife Service	09/05/2019
Wildlife and Habitat	2	Minimal	FL Fish and Wildlife Conservation Commission	10/08/2019
Wildlife and Habitat	2	Minimal	South Florida Water Management District	10/07/2019
Coastal and Marine	N/A	N/A / No Involvement	South Florida Water Management District	10/07/2019
Coastal and Marine	2	Minimal	National Marine Fisheries Service	08/28/2019
Physical				
Air Quality	2	Minimal	US Environmental Protection Agency	10/11/2019
Contamination	2	Minimal	FL Department of Environmental Protection	10/08/2019
Contamination	N/A	N/A / No Involvement	South Florida Water Management District	10/07/2019
Contamination	3	Moderate	US Environmental Protection Agency	10/11/2019
Infrastructure	3	Moderate	South Florida Water Management District	10/07/2019
Navigation	N/A	N/A / No Involvement	US Coast Guard	09/19/2019
Navigation	N/A	N/A / No Involvement	US Army Corps of Engineers	09/30/2019
Special Designations				
Special Designations	N/A	N/A / No Involvement	South Florida Water Management District	10/07/2019
Special Designations	3	Moderate	US Environmental Protection Agency	10/11/2019

ETAT Reviews and Coordinator Summary: Social and Economic

Land Use Changes

Project Effects

Coordinator Summary Degree of Effect: 2 Minimal assigned 12/06/2019 by FDOT District 5

Comments:

The Florida Department of Economic Opportunity (DEO) assigned a Degree of Effect of "Minimal" for Land Use Changes. As noted by DEO, the proposed project is compatible with community development goals and is also consistent with both comprehensive plans.

Degree of Effect: 2 Minimal assigned 10/09/2019 by Matt Preston, FL Department of Economic Opportunity

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comprehensive Plan(s) Reviewed:

City of St Cloud Comprehensive Plan and 2020 Future Land Use Map, adopted in September of 2002. Osceola County Comprehensive Plan 2040.

Comments on Effects to Resources:

Compatibility with Community Development Goals and Comprehensive Plan:

The proposed project is compatible with community development goals and is also consistent with both comprehensive plans.

The project is located within the Urban Infill Area of the Urban Growth Boundary, where intense development is planned.

Future Transportation Map:

The proposed project is included on the Osceola County future transportation map.

Land Uses:

Future Land Use Map categories that surround the project include: Mixed Use, Commercial, High Density Residential, Medium Density Residential, and Low Density Residential (City of St. Cloud). Mixed Use District 1, Mixed Use-Employment Center, Low Density Residential, and Institutional (Osceola County).

Parks:

The proposed project is located within a quarter mile of the following park: Partin Triangle Park and Neptune Road Bike Path (City of St. Cloud). FDOT should analyze potential impacts to this 4(f) resource.

Area of Critical State Concern (ACSC), Coastal High Hazard Area (CHHA), and Military Bases:

The project is not located within an Area of Critical State Concern, or the CHHA; nor does it encroach on any military installation.

Other Planning-Related Items:

City of St Cloud: Tohoqua Mixed Use District and Neptune Village PUD.

Osceola County: There are multiple developments coming online currently within this area, many of which were approved over ten years ago as DRIs. This improvement could potentially help to account for the increase in traffic generation.

Contact Information:

Melissa Dunklin (City of St. Cloud) - Phone Number: (407) 957-7134.

Corinne Carpenter (Osceola County) - Phone Number: (407) 742-0296.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of Economic Opportunity's Review (12/06/2019): Thank you for your review and comments. Please see the Section 4(f) section below for additional information related to resources that may be protected by Section 4(f).

Social

Project Effects

Coordinator Summary Degree of Effect: 3 Moderate assigned 12/06/2019 by FDOT District 5

Comments:

The USEPA reviewed this issue and assigned a Degree of Effect of "Moderate" because several census blocks abutting the project have minority populations greater than 40%. While there is limited potential for disproportionately high and adverse effects on minority and low-income populations, proactive measures will be taken to involve the affected community in the decisions related to alternative selection, impact analysis, and mitigation. The FDOT has assigned a DOE of "Moderate" for this category.

Degree of Effect: 3 Moderate assigned 10/11/2019 by Roshanna White, US Environmental Protection Agency

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

According to the Sociocultural Data Report for the current project Alternative #1, the widening of Neptune Road from Partin Settlement Road to US-192, the 2017 American Community Survey (ACS) identifies a total population of 1,012 and a minority population of 58.99% for Census Block Groups

120970429002, 120970431001, 120970432041, 120970432031. The minority population is mostly Hispanic or Latino of any race, 54.74%. The minority population has increased from 21 people in 1990 ACS to 597 people in 2017 ACS. In a 500-ft buffer the US Census Block Data-Minority Population Greater than 40% increase from 1 Census Block in 2010 to 17 Census Blocks in 2010. The EST Map Viewer (Beta) identified the following 2010 US Census Block Numbers with a Minority Population Greater than 40% that abut Neptune Road:

- 120970429002042
- 120970429002084
- 120970429002082
- 120970429002087
- 120970429002088
- 120970429002089
- 120970431001011
- 120970431001010
- 120970429002132
- 120970432031076
- 120970432031083

This is not a comprehensive list of those census blocks and further details of the degree of effect on these populations can be detailed in the Project Development and Environment Study. Additionally, the EST Map Viewer (Beta) identified two other widening projects (ETDM# 14329 and ETDM #3121) within the project corridor that may require additional right-of-way. In accordance with EO 12898, identify and address disproportionately high and adverse human health or environmental effects from the proposed project. The impact on the minority and/or low-income populations from the widening of the road to 4-lanes will further determine the degree of effect. Therefore, the EPA assigns a Moderate degree of effect on social impacts is Moderate until further project development and analysis is available.

Comments on Effects to Resources:

According to the Sociocultural Data Report for the current project Alternative #1, the widening of Neptune Road from Partin Settlement Road to US-192, the largest percentage of existing land use is residential (27.28%) followed by Agricultural (19.66%). Partial and full right-of-way acquisition of homes or community features may affect quality of life. Environmental features and community elements help individuals maintain health and well-being.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Environmental Protection Agency's Review (12/06/2019): Thank you for your review and comments. Executive Orders 13045 and 12898 will be considered during the public outreach and alternative analysis phases of the Project Development and Environment (PD&E) Study.

The project will be developed in accordance with the Civil Rights Act of 1964, the Civil Rights Act of 1968, along with Title VI of the Civil Rights Act, Executive Order 12898 (Environmental Justice), which requires Federal agencies to take the appropriate steps to identify and address any disproportionately high and adverse human health or environmental effects of Federal programs, policies, and activities on minority and low-income populations.

The FDOT is aware of the projects that have been screened in ETDM, including #14329: Widen Turnpike from South of Kissimmee Park Road to US 192 and #3121: US 192 (SR 500). Because of the nature of these projects, indirect and cumulative effects are not anticipated to occur.

A proactive public involvement approach, consistent with the PD&E Manual, has been implemented to ensure that opportunity is given to all residents and businesses along the corridor to provide input into this project.

Relocation Potential

Project Effects

Coordinator Summary Degree of Effect: 3 Moderate assigned 12/06/2019 by FDOT District 5

Comments:

No ETAT reviews were submitted for this issue. The proposed project may result in residential relocations. In addition, right-of-way may be required for stormwater ponds. A Conceptual Stage Relocation Plan will be prepared as part of this project.

None found

Farmlands

Project Effects

Coordinator Summary Degree of Effect: 2 Minimal assigned 12/06/2019 by FDOT District 5

Comments:

No ETAT reviews were submitted for this issue. Because of the developed nature of the majority of the corridor, the proposed project is expected to result in minimal involvement with farmlands. During the PD&E Study, the FDOT will coordinate with the Natural Resources Conservation Service (NRCS) to determine whether a Farmland Protection Policy Act (AD-1006) assessment is required.

None found

Aesthetic Effects

Project Effects

Coordinator Summary Degree of Effect: 2 Minimal assigned 12/06/2019 by FDOT District 5

Comments:

No ETAT reviews were submitted for this issue. The project is anticipated to have minimal impacts to aesthetics, viewsheds, etc.; therefore, a Degree of Effect of "Minimal" is being assigned to this issue. Potential landscaping and other options will be identified in future phases of project development.

None found

Economic

Project Effects

Coordinator Summary Degree of Effect: 1 Enhanced assigned 12/06/2019 by FDOT District 5

Comments:

The Department of Economic Opportunity assigned a Degree of Effect (DOE) of "Enhanced". This DOE is based on the potential of the project to attract new development and create additional employment opportunities. The FDOT concurs with this assessment and has assigned an overall DOE of "Enhanced".

Degree of Effect: 1 Enhanced assigned 10/09/2019 by Matt Preston, FL Department of Economic Opportunity

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comprehensive Plan(s) Reviewed:

City of St Cloud Comprehensive Plan and 2020 Future Land Use Map, adopted in September of 2002. Osceola County Comprehensive Plan 2040.

Comments on Effects to Resources:

The project is *not* located within a Rural Area of Opportunity.

The proposed project does have potential to attract new development and create additional employment opportunities.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of Economic Opportunity's Review (12/06/2019): Thank you for your review and comments.

Mobility

Project Effects

Coordinator Summary Degree of Effect: 1 Enhanced assigned 12/06/2019 by FDOT District 5

Comments:

No ETAT reviews were submitted for this issue. A Degree of Effect of "Enhanced" is being assigned to this issue due to the increased roadway capacity as well as the addition of bicyclist and pedestrian features.

None found

ETAT Reviews and Coordinator Summary: Cultural

Section 4(f) Potential

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 12/10/2019 by FDOT District 5

Comments:

No ETAT reviews were submitted for this issue. However, under the Land Use issue DEO identified two resources (Partin Triangle Park and the Bill Johnston Memorial Pathway) with activities that are potentially protected under Section 4(f). During the PD&E Study it was determined that improvements associated with the project do not constitute a "Use" under Section 4(f) for Partin Triangle Park or the Bill Johnston Memorial Pathway. Consultation for a Section 4(f) de minimis evaluation is currently underway to address minor impacts to the Neptune Middle School Sports Fields.

None found

Historic and Archaeological Sites

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

The Florida Department of State, Division of Historic Resources and the South Florida Water Management District assigned a Degree of Effect (DOE) of "Moderate", and the Seminole Tribe of Florida assigned a DOE of "Minimal". The FDOT recognizes that the project area has not been comprehensively surveyed, and has also assigned a DOE of "Moderate".

A Cultural Resource Assessment Survey (CRAS) report that follows the specifications set forth in Chapter 1A-46 Florida Administrative Code, FDOT PD&E Manual Part 2, Chapter 8 has been developed and submitted to the Department of State for review.

Degree of Effect: 2 *Minimal* assigned 10/04/2019 by Victoria Menchaca, Seminole Tribe of Florida

Coordination Document: PD&E Support Document As Per PD&E Manual

Coordination Document Comments:

The Seminole Tribe of Florida would respectfully like to request a copy of the CRAS report when it is finished in order to complete our assessment pursuant to Section 106 of the National Historic Preservation Act and its implementing authority, 36 CFR 800.

Direct Effects

Identified Resources and Level of Importance:

Unknown archaeological sites

Comments on Effects to Resources:

Project could disturb or destroy unknown archaeological sites

Additional Comments (optional):

The Seminole Tribe of Florida would respectfully like to request a copy of the CRAS report when it is finished in order to complete our assessment pursuant to Section 106 of the National Historic Preservation Act and its implementing authority, 36 CFR 800.

CLC Commitments and Recommendations:

FDOT District 5 Feedback to Seminole Tribe of Florida's Review (12/06/2019): Thank you for your review and comments. A Cultural Resource Assessment Survey will be transmitted to the Seminole Tribe of Florida as requested.

Degree of Effect: 3 *Moderate* assigned 09/12/2019 by Adrienne Daggett, FL Department of State

Coordination Document: PD&E Support Document As Per PD&E Manual

Coordination Document Comments:

Since the project area has not been comprehensively surveyed, a survey should be conducted for this project. All cultural resources, including potential historic districts, within the area of potential effect should be documented and assessed for NRHP eligibility. The resultant survey report shall conform to the specifications set forth in Chapter 1A-46 Florida Administrative Code, FDOT PD&E Manual Part 2, Chapter 8 and will need to be forwarded to this agency (or the appropriate Federal Agency) for review and comment.

SHPO also welcomes consultation in advance of the cultural resources survey to discuss scope of work, APE, methodology, or any other concerns the district may have.

Direct Effects

Identified Resources and Level of Importance:

As reported.

Comments on Effects to Resources:

The project has the potential to impact cultural resources within and adjacent to the proposed project.

Additional Comments (optional):

Since the project area has not been comprehensively surveyed, a survey should be conducted for this project. All cultural resources, including potential historic districts, within the area of potential effect should be documented and assessed for NRHP eligibility. The resultant survey report shall conform to the specifications set forth in Chapter 1A-46 Florida Administrative Code, FDOT PD&E Manual Part 2, Chapter 8 and will need to be forwarded to this agency (or the appropriate Federal Agency) for review and comment.

SHPO also welcomes consultation in advance of the cultural resources survey to discuss scope of work, APE, methodology, or any other concerns the district may have.

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of State's Review (12/06/2019): Thank you for your review and comments. The Cultural Resource Assessment Survey was submitted to the SHPO on October 14, 2019.

Degree of Effect: 3 *Moderate* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

The SFWMD will coordinate with the Division of Historical Resources during the Environmental Resource Permit application process regarding impacts to historical and archaeological resources.

Comments on Effects to Resources:

See comment above.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review and comments. A Cultural Resource Assessment Survey has been prepared and coordination with the SHPO is ongoing.

Recreation Areas

Project Effects

Coordinator Summary Degree of Effect: 2 *Minimal* assigned 12/10/2019 by FDOT District 5

Comments:

Both the National Park Service and the South Florida Water Management District assigned a Degree of Effect (DOE) of "None", while the FL Department of Environmental Protection assigned a DOE of "Minimal". During the PD&E Study, it was determined the Partin Triangle Park and Boat Ramp will not be impacted. All existing sidewalks, bike facilities, and shared-use paths will be maintained and/or improved as part of the project.

Degree of Effect: 0 *None* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

No SFWMD lands are located within the vicinity of the project.

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review and comment.

Degree of Effect: 2 *Minimal* assigned 10/08/2019 by Chris Stahl, FL Department of Environmental Protection

Coordination Document: PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance:

GIS data indicate that the following public recreational opportunities are located within the 500-foot buffer of the project: the County Road 523 to Bill Johnston Memorial Pathway Connector and the Old Canoe Creek Road to Old Tampa Highway Connector Trails

Comments on Effects to Resources:

Please Contact the Department's Parks and Recreation Division for additional information on these public resources.

<https://www.fldeponet.org/content/drps/office-greenways-and-trails>

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of Environmental Protection's Review (12/06/2019): Thank you for your review and comments.

Degree of Effect: 0 *None* assigned 09/20/2019 by Anita Barnett, National Park Service

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to National Park Service's Review (12/06/2019): Thank you for your review.

ETAT Reviews and Coordinator Summary: Natural

Wetlands and Surface Waters

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

US Fish and Wildlife Service (FWS) assigned a Degree of Effect (DOE) of "Moderate" for this issue, while the Florida Fish and Wildlife Conservation Service (FWC) and South Florida Water Management District assigned a "Minimal" DOE. FL Department of Agriculture and Consumer Services assigned a DOE of "NA/No Involvement". These agencies provided comments on Wildlife and Habitat issues citing that the project is within the geographic range of a number of state and federal species. Given the responses from the ETAT, the FDOT is assigning a DOE of "Moderate" to this issue.

Wildlife surveys will occur during the Project Development and Environment (PD&E) Study and a Natural Resource Evaluation (NRE) will be prepared to assess potential impacts to listed species, develop avoidance and minimization efforts, and to document any involvement with wildlife and habitat resources. The NRE will assess potential floral and faunal species within the corridor, as well as potential habitat for these species. The results of the NRE will be coordinated with federal and/or state resource/regulatory agencies as applicable.

Degree of Effect: 2 *Minimal* assigned 09/05/2019 by John Wrublik, US Fish and Wildlife Service

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

wetlands

Comments on Effects to Resources:

Wetlands provide important habitat for fish and wildlife and may occur within and near the project site. We recommend that these valuable resources be avoided to the greatest extent practicable. If impacts to these wetlands are unavoidable, we recommend the Florida Department of Transportation provide mitigation that fully compensates for the loss of these important resources.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Fish and Wildlife Service's Review (12/06/2019): Thank you for your review and comments. Measures to avoid and/or minimize impacts to wetlands as well as mitigation opportunities will be documented in the Natural Resource Evaluation report that will be prepared as part of this study.

In addition to the reviews submitted to the specific resources reviewed by your agency, the FDOT wanted to respond to you regarding the purpose and need. The project involves a two to four lane widening of Neptune Road and the addition of bicycle and pedestrian features throughout the project limits, a distance of approximately 3.9 miles. These improvements are needed due to capacity and safety. Additional data regarding the need is provided in the purpose and need section.

Degree of Effect: 3 Moderate assigned 10/11/2019 by Roshanna White, US Environmental Protection Agency

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

According to GIS Analysis for Wetlands and Surface Waters within a 500-ft buffer there are 498.57 acres of the Lake Okeechobee Watershed, a Northern Everglades and Estuaries Protection Program Watershed and the Biscayne Sole Source Aquifer. The proposed project requires additional right-of-way, which requires placement of fill into wetlands. Additionally, the EST Map Viewer (Beta) identified two other widening projects (ETDM# 14329 and ETDM #3121) within the project corridor that will potentially require the placement of fill in wetlands. Wetlands are important because they are a critical natural resource and serve several functions including filtration and treatment of surface water runoff, store flood waters, provide erosion control, groundwater recharge and discharge, and protect and provide fish and wildlife habitats. The number of acres to be filled of wetlands to be filled, the classification of those filled wetlands, and any mitigation will further determine the impact of wetlands assessment. Therefore, EPA assigns a Moderate Degree of effect to Wetlands and Surface waters.

Comments on Effects to Resources:

With an increase in the impervious surface area, the project area is expected to experience an increase in stormwater runoff and the increase of pollutants into surface waters and wetlands because of the project. Stormwater runoff from urban sources, including roadways, carries pollutants such as volatile organics, petroleum hydrocarbons, heavy metals, and pesticides/herbicides. Also, development within floodplains increases the potential for flooding by limiting flood storage capacity by reducing vegetated buffers that protect water quality. Consistent with Section 404 of the Clean Water Act, the selected site should avoid and minimize to the maximum extent practicable, placement of fill into jurisdictional waters of the U.S., which include wetlands and streams.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Environmental Protection Agency's Review (12/06/2019): Thank you for your review and comments. Measures to avoid and/or minimize impacts to wetlands will be documented in the Natural Resource Evaluation report that will be developed as part of this study. The project will be designed to meet state water quality and quantity requirements, and the FDOT will implement proper best management practices during construction.

Degree of Effect: 2 Minimal assigned 10/08/2019 by Chris Stahl, FL Department of Environmental Protection

Coordination Document: PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance:

The National Wetlands Inventory GIS data indicates that there are approximately 28.89 acres of various wetlands within the 500-ft. buffer area.

Comments on Effects to Resources:

An Environmental Resource Permit (ERP) may be required from the South Florida Water Management District. The ERP applicant will be required to eliminate or reduce the proposed wetland resource impacts of the pathway to the greatest extent practicable:

- Minimization should emphasize avoidance-oriented corridor alignments, wetland fill reductions via pile bridging and steep/vertically retained side slopes, and median width reductions within safety limits.
- Wetlands should not be displaced by the installation of stormwater conveyance and treatment swales; compensatory treatment in adjacent uplands is the preferred alternative.
- After avoidance and minimization have been exhausted, mitigation must be proposed to offset the adverse impacts of the project to existing wetland functions and values. Significant attention is given to forested wetland systems, which are difficult to mitigate.
- The cumulative impacts of concurrent and future transportation improvement projects in the vicinity of the subject project should also be addressed.

Additional Comments (optional):**CLC Commitments and Recommendations:**

FDOT District 5 Feedback to FL Department of Environmental Protection's Review (12/06/2019): Thank you for your review. Measures to avoid and/or minimize impacts to wetlands as well as state cumulative impact criteria will be documented in the Natural Resource Evaluation report that will be developed as part of this study. The project will be designed to meet state water quality and quantity requirements, and the FDOT will implement proper best management practices during construction.

Degree of Effect: 2 *Minimal* assigned 09/30/2019 by Randy Turner, US Army Corps of Engineers

Coordination Document: Permit or Technical Study Required

Direct Effects**Identified Resources and Level of Importance:**

A review of the EST revealed the presence of approximately 11.7 acres of palustrine and 6.4 acres of riverine wetlands within a 500 foot buffer; 0.32 acre of palustrine and 2.4 acres of riverine wetlands within a 200 foot buffer; and, 0.0 acre of palustrine 0.10 acre of riverine wetlands within a 100 foot buffer. There is less than 0.01 acre of lacustrine wetlands within the 500 foot buffer. The riverine wetlands appear to be associated with three unnamed, non-navigable, man-made ditches and canals. The majority of wetlands appear to be a mixture of palustrine forested and emergent wetlands consisting of freshwater marsh, scrub-shrub, and wet prairies. The level of importance would be minimal.

Comments on Effects to Resources:

Any palustrine wetlands in the project area deemed to be jurisdictional along the roadway corridor already have been secondarily impacted so a functional assessment should reveal a lower quality of wetlands. The exception would be any impacts to wetlands associated with the three unnamed, non-navigable, man-made ditches and canals. These wetlands are higher quality waters of the U.S. (wetlands).

Additional Comments (optional):**CLC Commitments and Recommendations:**

FDOT District 5 Feedback to US Army Corps of Engineers's Review (12/06/2019): Thank you for your comments and identifying the permits and mitigation bank opportunities available.

In addition to the reviews submitted to the specific resources reviewed by your agency, the FDOT wanted to respond to you regarding the purpose and need. The project involves a two to four lane widening of Neptune Road and the addition of bicycle and pedestrian features throughout the project limits, a distance of approximately 3.9 miles.

Degree of Effect: 2 *Minimal* assigned 08/28/2019 by Jennifer Schull, National Marine Fisheries Service

Coordination Document: No Involvement

Direct Effects**Identified Resources and Level of Importance:**

Based on our review of the information provided on the EST website, GIS-based effects analysis on wetlands and interpretation of aerial photographs, NOAA's National Marine Fisheries Service (NMFS) has determined that palustrine wetlands, riverine wetlands and lacustrine wetlands are present within the project corridor. These wetlands appear to range from low to moderate in quality.

Comments on Effects to Resources:

The wetlands along the proposed roadway expansion provide water quality functions, such as removal of sediments, excess nutrients, and

contaminants, which benefit and support these aquatic ecosystems. Through hydrological connections, these wetlands also contribute plant material and other useable nutrients (both dissolved and particulate organic matter) into aquatic food webs that include recreationally, commercially, and ecologically important species. If wetland impacts are unavoidable, sequential minimization and mitigation should take place. In addition to the direct impacts from filling wetlands, construction activities may impact adjacent wetlands through sedimentation and runoff.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to National Marine Fisheries Service's Review (12/06/2019): Thank you for your review and confirmation that the project will not affect National Marine Fisheries Service trust resources.

Degree of Effect: **3** *Moderate* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

Wetland resources would be affected for which impacts reduction and elimination options are available.

Comments on Effects to Resources:

See comment above.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review and comments regarding permitting. The limits of wetlands will be preliminarily established during the PD&E Study and then surveyed during the design phase. During the design phase, FDOT will arrange a preapplication meeting as recommended. Measures to avoid and/or minimize impacts to wetlands will be documented in the Natural Resource Evaluation report that will be developed as part of this study. The project will be designed to meet state water quality and quantity requirements, and the FDOT will implement proper best management practices during construction.

Water Quality and Quantity

Project Effects

Coordinator Summary Degree of Effect: **3** *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

The Water Quality issue was given a "Moderate" Degree of Effect (DOE) by the US Environmental Protection Agency and the South Florida Water Management District, while the Florida Department of Environmental Protection assigned a DOE of "Minimal".

Given the responses from the ETAT, FDOT is assigning a DOE of "Moderate" for this issue due to the project occurring partially within the Partin Canal Drainage Basin and the Kissimmee River Drainage Basin as well as being located within a Principal Aquifer (Surficial Aquifer System) and the Biscayne Sole Source Aquifer Streamflow and Recharge Source Zone.

Degree of Effect: **3** *Moderate* assigned 10/11/2019 by Roshanna White, US Environmental Protection Agency

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

FDOT acknowledges in its Preliminary Environmental Discussion (PED) comments that the project is partially within the Partin Canal Drainage Basin and the Kissimmee River Drainage Basin. It is also located within a Principal Aquifer (Surficial Aquifer System) and the Biscayne Sole Source Aquifer Streamflow and Recharge Source Zone. Moreover, there are two waterbodies, Partin Canal and St. Cloud Canal, within a 500-ft. buffer.

GIS Analysis within a 500-ft. buffer of the project identifies the Lake Okeechobee Basin Management Plan, 11 US EPA National Pollutant Discharge Elimination System (NPDES) and the Floridan Aquifer is more vulnerable to contamination within the corridor.

The EPA assigns at this time a Moderate Degree of Effect to Water Quality and Quantity. Detailed resource impacts and protection measures for these resources or an explanation of the project's no involvement in future phases of development will further determine the degree of effect for Water Quality and Quantity.

Comments on Effects to Resources:

An increase in impervious or semi-impervious surfaces can contribute to surface drainage and non-point sources that will impact surface and groundwater quality. Common roadway pollutants such as heavy metals, volatile organic chemicals, petroleum hydrocarbons, and suspended solids degrade near-by water bodies through storm water runoff. These contaminants can increase the turbidity of a water body. Turbid waters heat more rapidly when exposed to sunlight and decrease primary production and dissolved oxygen levels. Therefore, it is a potential for an increase in water degradation.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Environmental Protection Agency's Review (12/06/2019): Thank you for your review and comments regarding the drainage basins and aquifers. The potential impact the proposed project will have on water quality will be evaluated according to Part 2, Chapter 11 of the FDOT Project Development and Environment (PD&E) Manual. The FDOT will include an evaluation of existing stormwater treatment and details on the future stormwater treatment facilities. The project will be designed to meet state water quality and quantity requirements, and the FDOT will implement proper best management practices during construction. A Water Quality Impact Evaluation will also be prepared as part of this study.

Degree of Effect: 3 *Moderate* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

Water quality treatment will need to be provided for runoff from all newly-proposed impervious area as well as existing water quality treatment, if any, within the corridor. A water quantity analysis will be required to show that the post-development discharge rate is less than the pre-development discharge rate and therefore, no adverse impacts will result in the area.

Comments on Effects to Resources:

See comments above.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review and comments. The potential impact the proposed project will have on water quality will be evaluated according to Part 2, Chapter 11 of the FDOT Project Development and Environment (PD&E) Manual. The FDOT will include an evaluation of existing stormwater treatment and details on the future stormwater treatment facilities. The project will be designed to meet state water quality and quantity requirements, and the FDOT will implement proper best management practices during construction.

Degree of Effect: 2 *Minimal* assigned 10/08/2019 by Chris Stahl, FL Department of Environmental Protection

Coordination Document: PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance:

The EST GIS analysis identified the Lake Okeechobee Basin within the 500-foot project buffer.

Comments on Effects to Resources:

Every effort should be made to maximize the treatment of stormwater runoff from the proposed pathway/road widening project to prevent ground and surface water contamination. If an ERP permit is required to construct the project, stormwater treatment should be designed to maintain the natural predevelopment hydroperiod and water quality, as well as to protect the natural functions of adjacent wetlands. We recommend that the PD&E study include details on possible future stormwater treatment facilities. We recommend that the PD&E study include an evaluation of existing stormwater treatment adequacy and details on the future stormwater treatment facilities. Retro-fitting of stormwater conveyance systems would help reduce impacts to water quality.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of Environmental Protection's Review (12/06/2019): Thank you for your review and comments. The potential impact the proposed project will have on water quality will be evaluated according to Part 2, Chapter 11 of the FDOT Project Development and Environment (PD&E) Manual. The FDOT will include an evaluation of existing stormwater treatment and details on the future stormwater treatment facilities. The project will be designed to meet state water quality and quantity requirements, and the FDOT will implement proper best management practices during construction.

Floodplains

Project Effects

Coordinator Summary Degree of Effect: **3** *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

The SFWMD assigned a Degree of Effect (DOE) of "Moderate". Due to the project being partially located within areas identified as FEMA Flood Hazard Areas, an overall DOE of "Moderate" is being assigned for floodplains.

An evaluation of floodplain impacts and alternatives to avoid impacts will be undertaken as part of the Project Development and Environment (PD&E) Study. Efforts will be made to avoid or minimize impacts to floodplain resources and functions. Engineering design features and hydrological drainage structures will be designed such that stormwater transport, flow, and discharge meet or exceed flood control requirements.

Degree of Effect: **3** *Moderate* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

It appears that floodplain impacts will result from the proposed widening. A floodplain impact and compensating storage volume analysis (cup-for-cup) will be required to show that adequate floodplain compensating storage is proposed in the design to mitigate for all resulting floodplain impacts. Floodplain compensating storage areas should be hydraulically connected to the floodplain and no impacts to the floodway will be allowed.

Comments on Effects to Resources:

See comments above.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review. An evaluation of floodplain impacts and alternatives to avoid potential impacts will take place during the Project Development and Environment (PD&E) Study.

Wildlife and Habitat

Project Effects

Coordinator Summary Degree of Effect: **3** *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

The US Fish and Wildlife Service (FWS) assigned a Degree of Effect (DOE) of "Moderate" for this issue, while the Florida Fish and Wildlife Conservation Service (FWC) and South Florida Water Management District assigned a "Minimal" DOE. FL Department of Agriculture and Consumer Services assigned a DOE of "NA/No Involvement". These agencies provided comments on Wildlife and Habitat issues citing that the project is within the geographic range of a number of state and federal species. Given the responses from the ETAT, the FDOT is assigning a DOE of "Moderate" to this issue.

Wildlife surveys will occur during the Project Development and Environment (PD&E) Study and a Natural Resource Evaluation (NRE) will be prepared

to assess potential impacts to listed species, develop avoidance and minimization efforts, and to document any involvement with wildlife and habitat resources. The NRE will assess potential floral and faunal species within the corridor, as well as potential habitat for these species. The results of the NRE will be coordinated with federal and/or state resource/regulatory agencies as applicable.

Degree of Effect: N/A N/A / No Involvement assigned 10/07/2019 by Brian Camposano, FL Department of Agriculture and Consumer Services

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of Agriculture and Consumer Services's Review (12/06/2019): Thank you for your review.

Degree of Effect: 3 Moderate assigned 09/05/2019 by John Wrublik, US Fish and Wildlife Service

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

Federally listed species and fish and wildlife resources

Comments on Effects to Resources:

Federally-listed species -

The Service has reviewed our Geographic Information Systems (GIS) database for recorded locations of federally listed threatened and endangered species on or adjacent to the project study area. The GIS database is a compilation of data received from several sources. Based on review of our GIS database, the Service notes that the following federally listed species may occur in or near the project area.

Wood Stork

The project corridor is located in the Core Foraging Area (CFA; all lands within 18.6 miles) of several active nesting colonies of the endangered wood stork (*Mycteria americana*). The Service believes that the loss of wetlands within a CFA due to an action could result in the loss of foraging habitat for the wood stork. To minimize adverse effects to the wood stork, we recommend that any lost foraging habitat resulting from the project be replaced within the CFA of the affected nesting colony. Moreover, wetlands provided as mitigation should adequately replace the wetland functions lost as a result of the action. The Service does not consider the preservation of wetlands, by itself, as adequate compensation for impacts to wood stork foraging habitat, because the habitat lost is not replaced. Accordingly, any wetland mitigation plan proposed should include a restoration, enhancement, or creation component. In some cases, the Service accepts wetlands compensation located outside the CFA of the affected wood stork nesting colony. Specifically, wetland credits purchased from a "Service Approved" mitigation bank located outside of the CFA would be acceptable to the Service, provided that the impacted wetlands occur within the permitted service area of the bank.

For projects that impact 5 or more acres of wood stork foraging habitat, the Service requires a functional assessment be conducted using our "Wood Stork Foraging Analysis Methodology" (Methodology) on the foraging habitat to be impacted and the foraging habitat provided as mitigation. The Methodology can be found at: [https://www.fws.gov/verobeach/BirdsPDFs/20120712_WOST Forage Assessment Methodology_Appendix.pdf](https://www.fws.gov/verobeach/BirdsPDFs/20120712_WOST%20Forage%20Assessment%20Methodology_Appendix.pdf).

The Service also believes that the following federally listed species have the potential to occur in or near the project site: Eastern indigo snake (*Drymarchon corais couperi*), Everglade snail kite (*Rostrhamus sociabilis plumbeus*), Florida scrub-jay (*Aphelocoma coerulescens*), red-cocked woodpecker (*Picoides borealis*) and Federally listed plants (<http://www.fws.gov/verobeach/ListedSpeciesPlants.html>). Accordingly, the Service recommends that the Florida Department of Transportation (FDOT) prepare a Biological Assessment for the project (as required by 50 CFR 402.12) during the FDOT's Project Development and Environment process.

Fish and Wildlife Resources -

To benefit fish and wildlife, we recommend that native plants, trees and shrubs be used in the landscaping of the lands within the center and outside right-of-ways of the roadway. The use of native wildflowers would be especially beneficial to insect pollinators and provide a more aesthetically pleasing environment than sod by itself.

Wetlands provide important habitat for fish and wildlife and may occur within and near the project site. We recommend that these valuable resources be avoided to the greatest extent practicable. If impacts to these wetlands are unavoidable, we recommend the Florida Department of Transportation provide mitigation that fully compensates for the loss of these important resources.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Fish and Wildlife Service's Review (12/06/2019): Thank you for your review and comments. A Natural Resource Evaluation report will be prepared as part of the Project Development and Environment (PD&E) Study. This report will document the results of field surveys and the potential for effects to federally protected species. The FDOT will coordinate with USFWS during the PD&E Study regarding species effect determinations and any impacts that cannot be avoided.

Degree of Effect: 2 *Minimal* assigned 10/08/2019 by Jennifer Goff, FL Fish and Wildlife Conservation Commission

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

Florida Fish and Wildlife Conservation Commission (FWC) staff has reviewed ETDM #14402, Osceola County, and provides the following comments related to potential effects to fish and wildlife resources of this Programming Phase project.

The Project Description states that this project involves widening of Neptune Road from two-lanes to a four-lane facility between Partin Settlement Road and US 192, a distance of 3.9 miles.

The Project Description did not mention the possible need for additional stormwater treatment and attenuation facilities.

An assessment of the project area was performed on lands within 500 feet of the proposed project to determine potential impacts to habitat which supports listed species and other fish and wildlife resources. Our inventory included a review of aerial and ground-level photography, various wildlife observation and landcover data bases, along with coordination with FWC biologists and other State and Federal agencies. A GIS analysis was performed using the Florida Department of Transportation's (FDOT) Environmental Screening Tool to determine the potential quality and extent of upland and wetland habitat, and other wildlife and fisheries resource information. We have reviewed the Preliminary Environmental Discussion Comments Report provided by the FDOT, and offer the following comments and recommendations.

Our assessment reveals that the land cover is over 61% developed in High or Low Intensity Urban (44.86%, 223.69 acres) and Transportation (16.47%, 82.1 acres). Other landcover types include Improved Pasture (18.39%, 91.68 acres), Orchards/Groves (5.95%, 29.67 acres), Rural (4.70%, 23.42 acres), Wet Prairie (2.89%, 14.43 acres), Marshes (2.36%, 11.76 acres), Cultural Lacustrine (1.93%, 9.64 acres), Upland Hardwood Forest (0.74%, 3.71 acres), Freshwater Forested Wetlands (0.65%, 3.24 acres), Vineyard and Nurseries (0.54%, 2.69 acres), Cultural Riverine (0.45%, 2.22 acres), and Shrub and Brushland (0.06%, 0.32 acres). The most valuable wildlife habitats within the corridor are the remnant Lake Tohopekaliga floodplain wetlands.

Based on range and preferred habitat type, the following animal species listed by the Federal Endangered Species Act and the State of Florida as Federally Threatened (FT), or State-Threatened (ST) may occur within the study area: Eastern indigo snake (FT), American alligator (FT due to similarity to American crocodile), Audubon's crested caracara (FT), wood stork (FT), Florida pine snake (ST), gopher tortoise (ST), Southeastern American kestrel (ST), Florida burrowing owl (ST), Florida sandhill crane (ST), little blue heron (ST), tricolored heron (ST), and roseate spoonbill (ST).

The GIS analysis revealed several specific characteristics associated with lands along the project alignment that provide an indication of potential habitat quality or sensitivity that will require field studies to verify the presence or absence of listed wildlife species and the quality of wildlife habitat resources. In the FWC's Integrated Wildlife Habitat Ranking System, 123.86 acres (24.84%) of the assessment area are ranked Medium. FWC's Priority Wetland Habitat Classification predicts 4 to 6 focal species in 2.22 acres (0.45%) of wetlands, 1 to 3 focal species in 20.24 acres (4.06%) of wetlands, and 1 to 3 focal species in 154.33 acres (30.95%) of uplands. The project is within U.S. Fish and Wildlife Service Consultation Areas for the Crested Caracara, Florida Grasshopper Sparrow, Red-cockaded Woodpecker, Scrub Jay, Snail Kite, and Lake Wales Ridge Plants; and is within four Wood Stork Core Foraging Areas. The project is within the 660-foot primary buffer of two bald eagle nests (OS084 and OS169), that were active when last surveyed.

Comments on Effects to Resources:

Primary wildlife issues associated with this project include: the potential for direct destruction of wildlife habitat via the construction of additional traffic lanes and drainage retention areas (DRAs); potential adverse effects to a moderate number of species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened; and potential water quality degradation as a result of stormwater runoff from the new roadway surface draining into adjacent wetlands.

Based on the project information provided, we believe that direct and indirect effects of this project on wildlife resources could be minimal, provided the expansion of Neptune Road is confined to the existing right-of-way to the greatest degree possible. Best Management Practices should be included in the project design to avoid water quality degradation.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Fish and Wildlife Conservation Commission's Review (12/06/2019): Thank you for your review and comments. A Natural Resource Evaluation report will be developed as part of the Project Development and Environment (PD&E) Study. This report will document the results of field surveys and the potential for effects to state protected species.

Degree of Effect: 2 *Minimal* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

Quality of the habitat is minimal along the roadway corridor.

Comments on Effects to Resources:

See comment above.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review and comments.

Coastal and Marine

Project Effects

Coordinator Summary Degree of Effect: 0 *None* assigned 12/06/2019 by FDOT District 5

Comments:

The South Florida Water Management District assigned a Degree of Effect (DOE) of "N/A/No Involvement". National Marine Fisheries Service assigned a DOE of "Minimal" because only freshwater wetland systems are located within the project corridor. NMFS also concluded that no essential fish habitat (EFH) would not be impacted by the proposed road modifications. The proposed project is anticipated to have no involvement with coastal or marine resources and as such was assigned a DOE of "None" for Coastal and Marine.

Degree of Effect: N/A *N/A / No Involvement* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review.

Degree of Effect: 2 *Minimal* assigned 08/28/2019 by Jennifer Schull, National Marine Fisheries Service

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Based on our review of the information provided on the EST website, GIS-based effects analysis on wetlands and interpretation of aerial photographs,

NOAA's National Marine Fisheries Service (NMFS) has determined that palustrine wetlands, riverine wetlands and lacustrine wetlands are present within the project corridor. These wetlands appear to range from low to moderate in quality.

Comments on Effects to Resources:

The wetlands along the proposed roadway expansion provide water quality functions, such as removal of sediments, excess nutrients, and contaminants, which benefit and support these aquatic ecosystems. Through hydrological connections, these wetlands also contribute plant material and other useable nutrients (both dissolved and particulate organic matter) into aquatic food webs that include recreationally, commercially, and ecologically important species. If wetland impacts are unavoidable, sequential minimization and mitigation should take place. In addition to the direct impacts from filling wetlands, construction activities may impact adjacent wetlands through sedimentation and runoff.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to National Marine Fisheries Service's Review (12/06/2019): Thank you for your review and confirmation that the project will not affect National Marine Service trust resources.

ETAT Reviews and Coordinator Summary: Physical

Noise

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

No ETAT reviews were submitted for this issue. A Degree of Effect of "Moderate" is being assigned to this resource based on the noise sensitive sites present. Noise impacts and potential barrier locations are being evaluated and documented in an on-going Noise Study Report as part of the Project Development and Environment (PD&E) study in accordance with Part 2, Chapter 18 of the FDOT PD&E Manual.

None found

Air Quality

Project Effects

Coordinator Summary Degree of Effect: 2 *Minimal* assigned 12/06/2019 by FDOT District 5

Comments:

USEPA reviewed this issue and assigned a Degree of Effect of "Minimal" since this project is within an attainment area, and the impacts to air quality are expected to be minimal.

Degree of Effect: 2 *Minimal* assigned 10/11/2019 by Roshanna White, US Environmental Protection Agency

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

A wide variety of air pollutants can be emitted from stationary and mobile sources. The EPA establishes the National Ambient Air Quality Standards (NAAQS) to protect public health and public welfare and regulates emissions of hazardous air pollutants. The proposed project is in an attainment area, so criteria pollutants under NAAQS are considered to be an acceptable level. Therefore, EPA expects the project to have Minimal impact on air quality.

Comments on Effects to Resources:

The project area air quality can possibly be affected by airborne dust, and other ambient air pollutants from project construction.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Environmental Protection Agency's Review (12/06/2019): Thank you for your review and comments.

Contamination

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

The US Environmental Protection Agency assigned a Degree of Effect (DOE) of "Moderate", while the Florida Department of Environmental Protection assigned a DOE of "Minimal". The South Florida Water Management District assigned a DOE of "N/A/No Involvement". The FDOT is assigning a DOE of "Moderate" based on the potentially contaminated sites in the area, including six (6) petroleum contamination monitoring sites, four (4) storage tank contamination monitoring sites, five (5) hazardous waste facilities, and one (1) solid waste facility. The five (5) hazardous waste facilities are the following: Star Enterprise, Neptune Middle School, Tire Kingdom LLC #216, The Recovery Room of Central Florida, Inc. and CVS Pharmacy #3139. The medium and high risk sites will be further evaluated during the design phase.

Degree of Effect: 2 *Minimal* assigned 10/08/2019 by Chris Stahl, FL Department of Environmental Protection

Coordination Document: PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance:

GIS has indicated that there are five hazardous waste sites and two 20 solid waste facilities located within the 500-foot buffer of the proposed project.

Comments on Effects to Resources:

A Contamination Screening Evaluation (similar to Phase I and Phase II Audits) may need to be conducted along the project right-of-way in considering the proximity to potential petroleum and hazardous material handling facilities. The Contamination Screening Evaluation should outline specific procedures that would be followed by the applicant in the event drums, wastes, tanks or potentially contaminated soils are encountered during construction. Special attention should be made in the screening evaluation to historical land uses (such as solid waste disposal) that may have an affect on the proposed project, including stormwater retention and treatment areas.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to FL Department of Environmental Protection's Review (12/06/2019): Thank you for your comments. A Contamination Screening Evaluation Report is being conducted during the Project Development and Environment (PD&E) Study. Additional evaluations on medium and high risk sites will take place in future phases of project development.

Degree of Effect: N/A *N/A / No Involvement* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review.

Degree of Effect: 3 *Moderate* assigned 10/11/2019 by Roshanna White, US Environmental Protection Agency

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

FDOT acknowledges in its Preliminary Environmental Discussion (PED) comments potential sources of sub-surface contamination reported within the 500-foot project buffer: six petroleum contamination monitoring sites, four storage tank contamination monitoring sites, five hazardous waste facilities, and one solid waste facility. Within a 500-ft. project buffer, Water Quality and Quantity GIS analysis identified Lake Okeechobee (Northern Everglades and Estuaries Protection Program Watershed), the Biscayne Aquifer Sole Source Aquifer streamflow and recharge source zone, and a Principal Aquifer that is more vulnerable to contamination. Contamination to the aforementioned resources is a concern.

Contaminants have the potential to degrade water quality from activities on land, pollution of surface water bodies, or by infiltration through soils. Soils, groundwater and surface water have the potential to be negatively affected by contaminated site features such as underground petroleum storage tanks, industrial or commercial facilities with onsite storage of hazardous materials, solid waste facilities, and hazardous waste facilities. Also, project construction activities may produce the release of hazardous pollutants through spills and improper storage of materials. Hazardous pollutants can infiltrate the aquifers to an area of discharge. Contamination of ground water can result in poor drinking water quality and/or loss of water supply. The EPA assigns at this time a Moderate Degree of Effect to Contamination.

Comments on Effects to Resources:

Contamination of ground water can result in poor drinking water quality and loss of water supply. Petroleum hydrocarbons are the primary focus of many site and risk assessments. The petroleum constituents of primary interest to human health are aromatic hydrocarbons (benzene ethylbenzene, toluene, and xylenes), polycyclic aromatic hydrocarbons (PAHs), gasoline additives (MTBE, TBA) and combustion emissions from fuels. If there is an encounter with any subsurface hazardous wastes in the ground it can contaminate groundwater and degrade land use. It is also required that correct filling practices to be followed. In addition, owners and operators must report the existence of new storagesystems, suspected releases, storage system closures, and keep records of operation and maintenance. If wastes are not cleaned-up the property may become a brownfield site. Blighted and potentially contaminated sites negatively affect the aesthetics, criminality, and economic value of a community

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Environmental Protection Agency's Review (12/06/2019): Thank you for your comments. A Contamination Screening Evaluation Report has been is being conducted during the Project Development and Environment (PD&E) Study. Additional evaluations on medium and high risk sites will take place in future phases of project development, which will incorporate the measures outlined in your comments.

Infrastructure

Project Effects

Coordinator Summary Degree of Effect: 3 *Moderate* assigned 12/06/2019 by FDOT District 5

Comments:

The South Florida Water Management District assigned a Degree of Effect (DOE) of "Moderate" due to widening activities traversing the C-31 Canal (St Cloud Canal).

Degree of Effect: 3 *Moderate* assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

For widening activities traversing the C-31 Canal (St Cloud Canal), coordination with the SFWMD Right-of-Way group will be required to determine if a Right-of-Way permit is needed.

Comments on Effects to Resources:

See comments above.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review and comments.

Navigation

Project Effects

Coordinator Summary Degree of Effect: N/A *N/A / No Involvement* assigned 12/06/2019 by FDOT District 5

Comments:

The US Coast Guard and the US Army Corps of Engineers both assigned a Degree of Effect of "N/A / No Involvement" for Navigation noting that there would be no involvement with navigable waters.

Degree of Effect: N/A *N/A / No Involvement* assigned 09/19/2019 by Randall D Overton, US Coast Guard

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Coast Guard's Review (12/06/2019): Thank you for your review.

Degree of Effect: N/A N/A / No Involvement assigned 09/30/2019 by Randy Turner, US Army Corps of Engineers

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

The riverine wetlands appear to be associated with three unnamed, non-navigable, man-made ditches and canals. These surface waters are not considered to be Section 10 of the Rivers and Harbor Act navigable waters. The level of importance would be None - No Involvement.

Comments on Effects to Resources:

None

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Army Corps of Engineers's Review (12/06/2019): Thank you for your review and comments.

ETAT Reviews and Coordinator Summary: Special Designations

Special Designations

Project Effects

Coordinator Summary Degree of Effect: 3 Moderate assigned 12/06/2019 by FDOT District 5

Comments:

The South Florida Water Management District assigned a Degree of Effect (DOE) of "No Involvement" for Special Designations. The US Environmental Protection Agency assigned a DOE of "Moderate", because the project occurs within the Biscayne Sole Aquifer.

The GIS analysis showed that there are no aquatic preserves, Outstanding Florida Waters, Scenic Highways, or wild and scenic rivers within a 500-foot buffer of the project area. The FDOT will assign a "Moderate" Degree of Effect recognizing that a *Sole Source Aquifer impacts* will be evaluated during the PD&E study.

Degree of Effect: N/A N/A / No Involvement assigned 10/07/2019 by Trisha Stone, South Florida Water Management District

Coordination Document: No Involvement

Direct Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to South Florida Water Management District's Review (12/06/2019): Thank you for your review.

Degree of Effect: 3 Moderate assigned 10/11/2019 by Roshanna White, US Environmental Protection Agency

Coordination Document: Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance:

The Biscayne Sole Source Aquifer (SSA) is not listed as an Outstanding Florida Water under Florida Administrative Code 62.302.700, but the January 2015 Agency Operating and Funding Agreement for Continuing Participation in Efficient Transportation Decision Making and Transportation Project Development Processes between the EPA and Federal Highway Administration, and FDOT states in Section 4-Statement of Work that USEPA will review issues for Special Designations focusing on Sole Source Aquifers pursuant to the Safe Drinking Water Act. As the project continues into future phases of development and more detailed information on the impacts to the SSA will determine the degree of effect to this resource.

Comments on Effects to Resources:

Contaminant infiltration of the aquifer.

Additional Comments (optional):

CLC Commitments and Recommendations:

FDOT District 5 Feedback to US Environmental Protection Agency's Review (12/06/2019): Thank you for your review and information pertaining to sole source aquifers. Additional coordination will take place in future phases of project development as noted in EPA's comment.

Eliminated Alternatives

There are no eliminated alternatives for this project.

Project Scope

General Project Recommendations

There are no general project recommendations identified for this project in the EST.

Anticipated Permits

Permit	Type	Conditions	Review Org	Review Date
Environmental Protection Agency Sole Source Aquifer Review	Federal		FDOT District 5	08/27/19
Section 404 - Individual or General	USACE		FDOT District 5	12/10/19
National Pollutant Discharge Eliminated System	FDEP		FDOT District 5	12/10/19
Sole Source Aquifer	USEPA		FDOT District 5	12/10/19
Environmental Resource Permit	Water		FDOT District 5	12/10/19

Anticipated Technical Studies

Technical Study Name	Type	Conditions	Review Org	Review Date
Design Traffic Technical Memorandum	ENGINEERING		FDOT District 5	12/10/2019
Location Hydraulics Report	ENGINEERING		FDOT District 5	12/10/2019
Advance Notification/ICAR Package	ENVIRONMENTAL		FDOT District 5	12/10/2019
Class of Action Determination	ENVIRONMENTAL		FDOT District 5	12/10/2019
Contamination Screening Evaluation Report	ENVIRONMENTAL		FDOT District 5	12/10/2019
Cultural Resource Assessment Survey Report	Other		FDOT District 5	12/10/2019
Type 2 CE	ENVIRONMENTAL		FDOT District 5	12/10/2019
Conceptual Design Roadway Plan Set	ENGINEERING		FDOT District 5	12/10/2019
Conceptual Stage Relocation Plan	ENVIRONMENTAL		FDOT District 5	12/10/2019
Geotechnical Memorandum	Other		FDOT District 5	12/10/2019
Typical Section Package	ENGINEERING		FDOT District 5	12/10/2019
Public Hearing Transcript	ENVIRONMENTAL		FDOT District 5	12/10/2019
Water Quality Impact Evaluation	Other		FDOT District 5	12/10/2019
Public Involvement Plan	ENVIRONMENTAL		FDOT District 5	12/10/2019
Noise Study Report	ENVIRONMENTAL		FDOT District 5	12/10/2019
Wetlands Evaluation Report	ENVIRONMENTAL		FDOT District 5	12/10/2019
Access Management Report	ENGINEERING		FDOT District 5	12/10/2019
Comments and Coordination Report	ENVIRONMENTAL		FDOT District 5	12/10/2019
Preliminary Engineering Report	ENGINEERING		FDOT District 5	12/10/2019
Cultural Resource Assessment Survey	ENVIRONMENTAL		FDOT District 5	12/10/2019
Design Variations and Exceptions Package	ENGINEERING		FDOT District 5	12/10/2019
Drainage Report	ENGINEERING		FDOT District 5	12/10/2019
Utility Assessment Package	ENGINEERING		FDOT District 5	12/10/2019
QA/QC Plan	ENGINEERING		FDOT District 5	12/10/2019
Pond Siting Report	ENGINEERING		FDOT District 5	12/10/2019

Farmland Conversion Impact Rating Form	ENVIRONMENTAL		FDOT District 5	12/10/2019
Section 4(f) de Minimis Package	ENVIRONMENTAL		FDOT District 5	12/10/2019
Sole Source Aquifer Letter	ENVIRONMENTAL		FDOT District 5	12/10/2019
Natural Resources Evaluation (NRE)	ENVIRONMENTAL		FDOT District 5	12/10/2019
Project Traffic Analysis Report (PTAR)	ENGINEERING		FDOT District 5	12/10/2019

Class of Action

Class of Action Determination

Class of Action	Other Actions	Lead Agency	Cooperating Agencies	Participating Agencies
Type 2 Categorical Exclusion	Section 4(f) Evaluation Section 106 Consultation Endangered Species Assessment USACE Section 404 - Individual or General	FDOT Office of Environmental Management	No Cooperating Agencies have been identified.	US Army Corps of Engineers

Class of Action Signatures

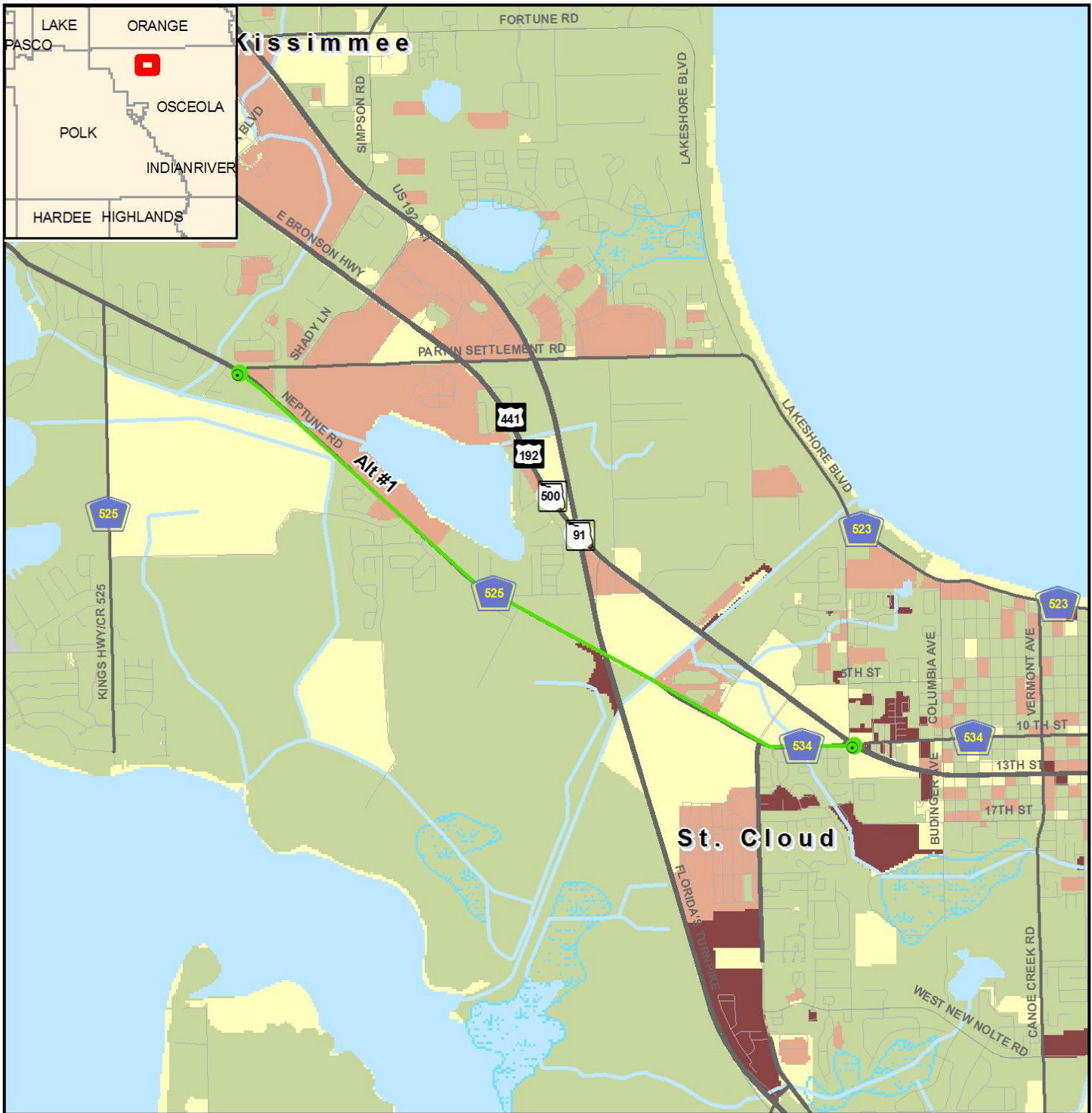
Name	Agency	Review Status	Date	ETDM Role
Kathaleen Linger	FDOT District 5	ACCEPTED	03/12/2020	FDOT ETDM Coordinator
Brittany Ann Bianco	FDOT Office of Environmental Management	ACCEPTED	03/19/2020	Lead Agency ETAT Member

Dispute Resolution Activity Log

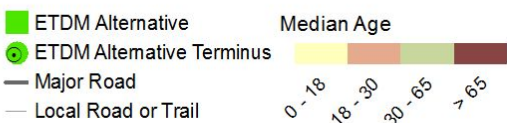
There are no dispute actions identified for this project in the EST.

Hardcopy Maps: Alternative #1

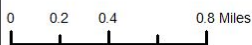
14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Age Distribution Map



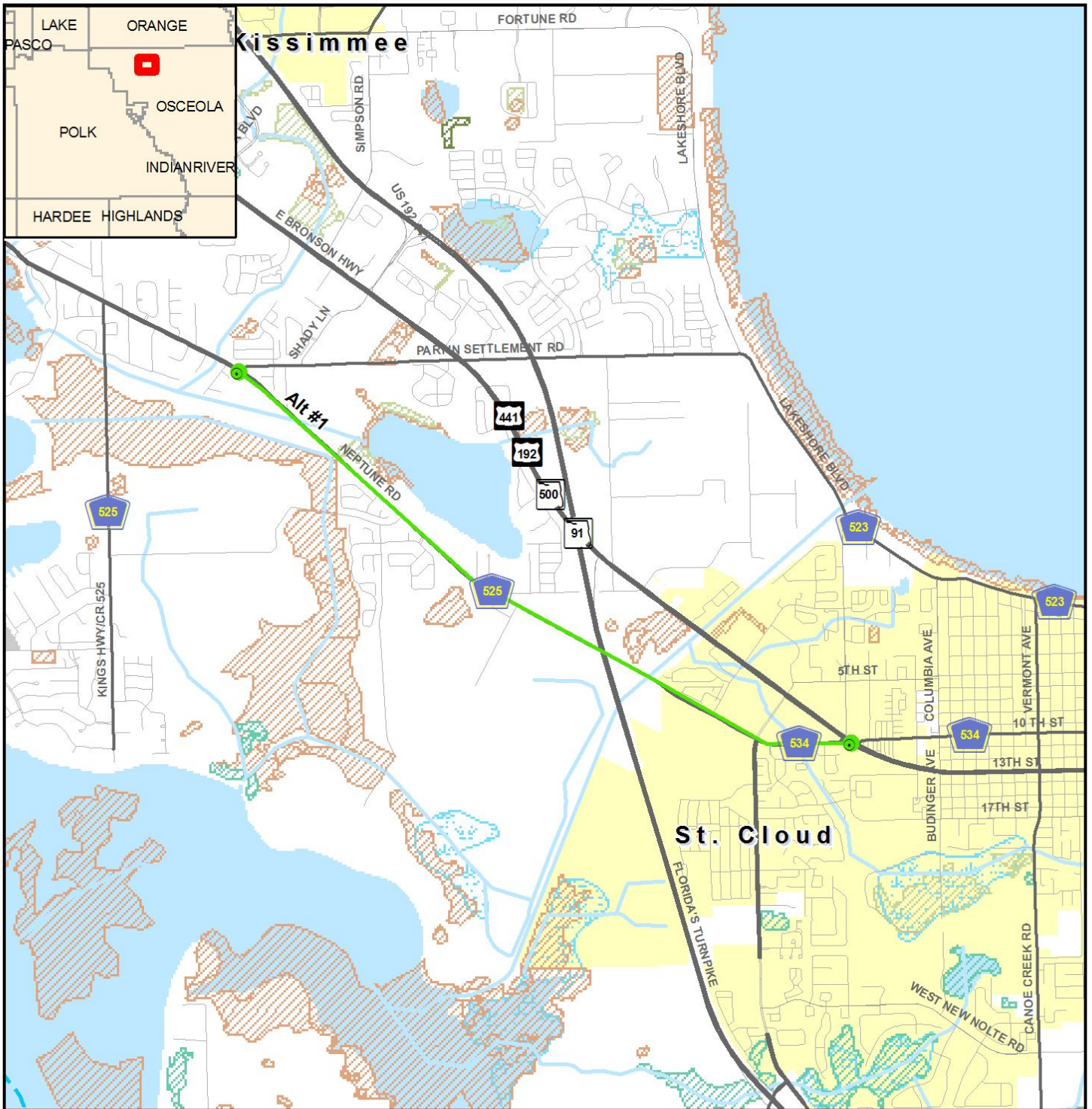
Data Sources:
 US Geological Survey
 FL Department of Transportation
 NAVTEQ
 US Census Bureau (2010)



8/5/2019

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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Coastal and Marine Map

ETDM Alternative	Swamp or Marsh	Coastal Barrier Resource Area	Non-vegetated Wetland
ETDM Alternative Terminus	Exposed Rocky Platform	Continuous Seagrass	Vegetated Non-forested Wetland
City Limits	Sand Beach	Discontinuous Seagrass	Wetland Forested Mixed
Navigable Water Way	Gravel Beach/Riprap	Aquatic Preserve	Wetland Coniferous Forest
	Exposed Tidal Flat		Wetland Hardwood Forest
	Sheltered Tidal Flat		
	Mixed Sand And Gravel Beach		
	Sheltered Rock/Seawall/Vegetated		
	Exposed Vertical Rocky Shore/Seawall		

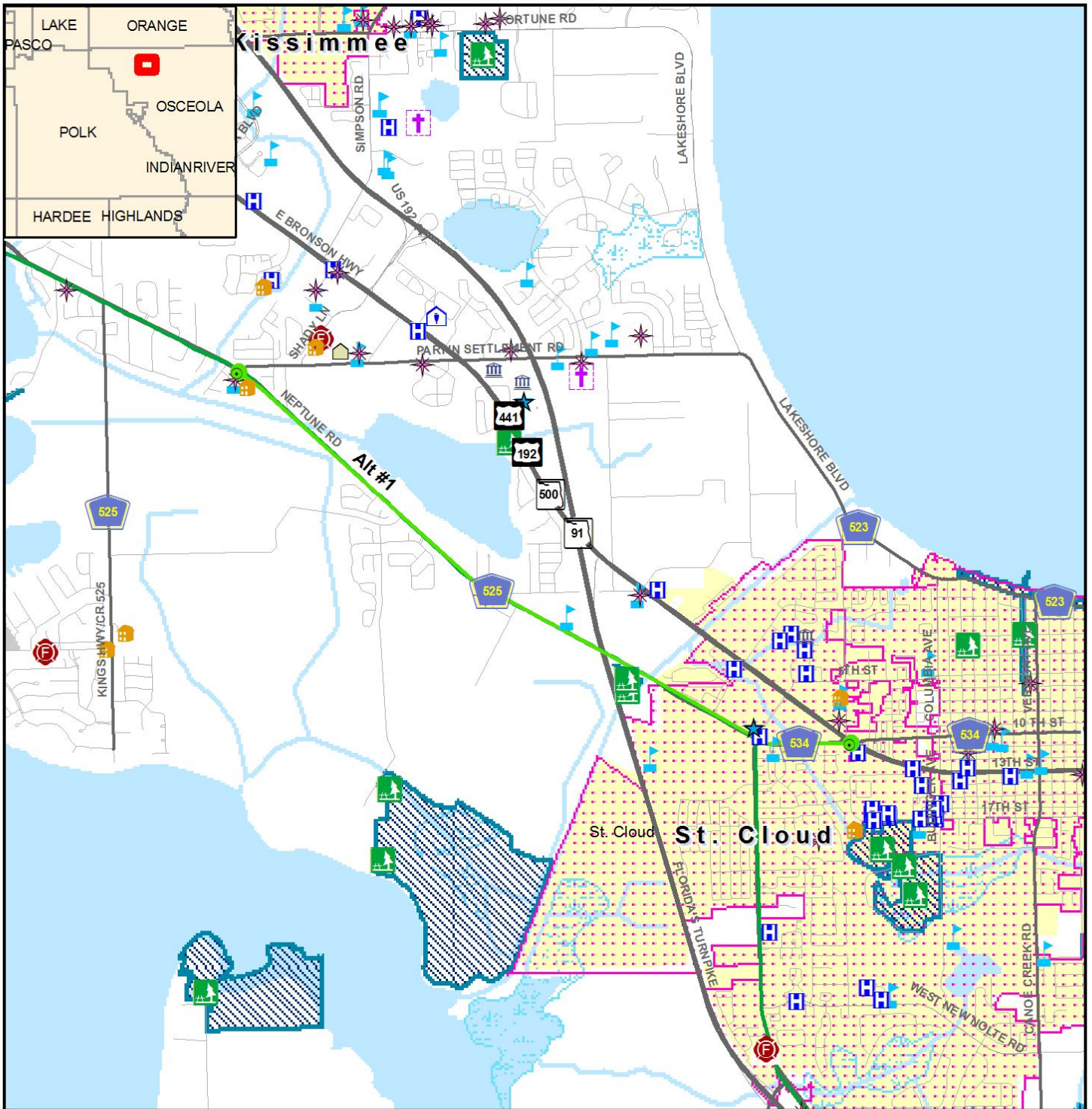
Data Sources: NAVTEQ; US Geological Survey; Florida Marine Research Institute; Florida Department of Transportation; Florida Department of Environmental Protection; National Oceanic and Atmospheric Association; Florida Water Management Districts

8/28/2019



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Community Services Map

ETDM Alternative	Government	Law Enforcement	Health Care	Recreational Trail
ETDM Alternative Terminus	Civic Center	Place of Worship	School	Community Boundary
Major Road	Cemetery	Cultural Center	Park	Conservation or Recreation Area
Local Road or Trail	Social Service	Fire Station		
City Limits	Community Center			

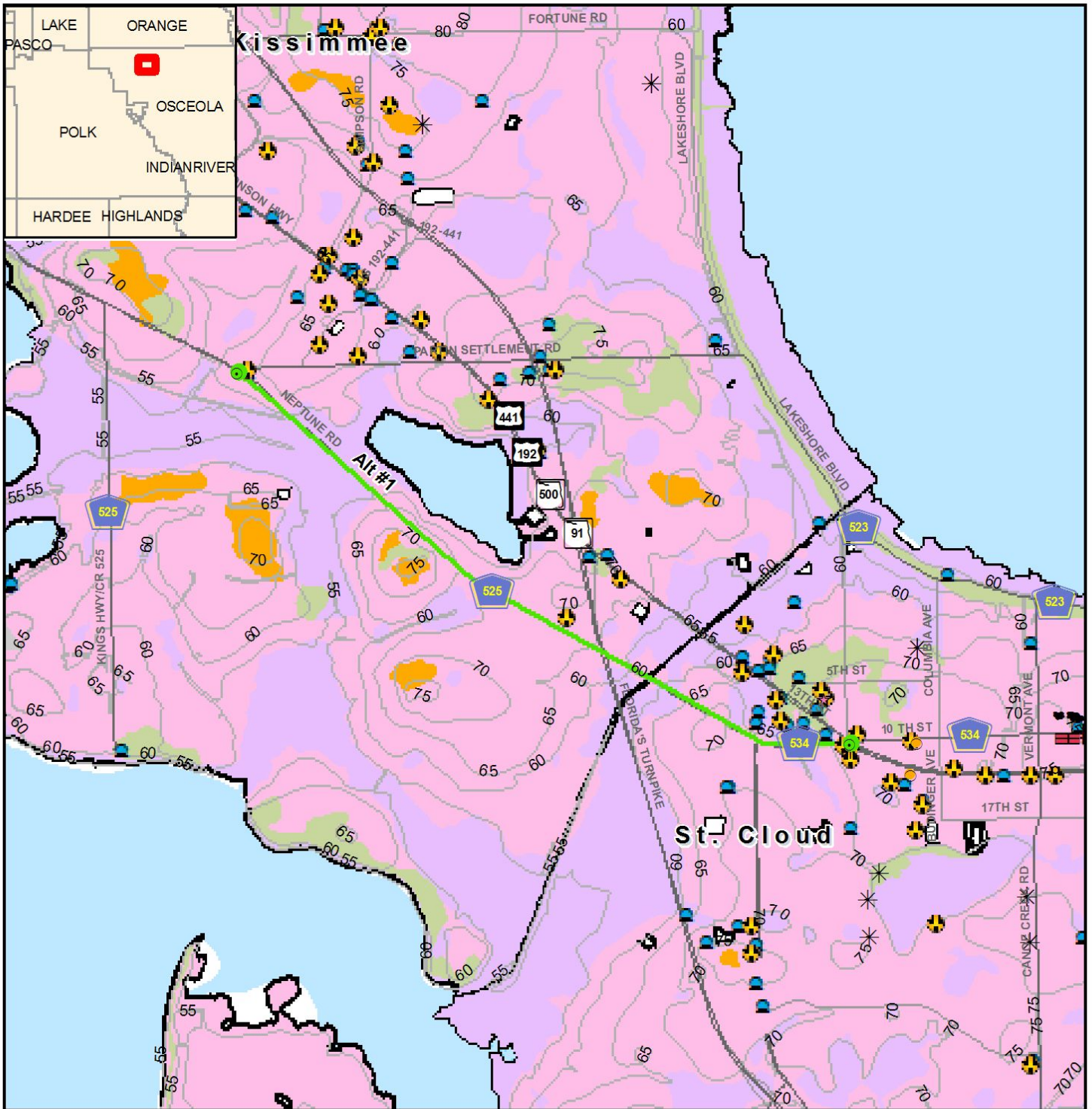
Data Sources:
US Geological Survey; FL Department of Transportation; NAVTEQ; FL Property Appraisers; FL Natural Areas Inventory

0 0.2 0.4 0.8 Miles

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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Contamination Map

ETDM Alternative	Solid Waste Facility	FDEP Tanks	Soil Drainage	Somewhat Poorly Drained
ETDM Alternative Terminus	Hazardous Material Site	Brownfield Area	Excessively Drained	Poorly Drained
Major Road	Power Plant	5 FT Contour	Well Drained	Very Poorly Drained
Local Road or Trail	Superfund Site	Somewhat Excessively Drained	Moderately Well Drained	Unclassified
Toxic Release Inventory	Nuclear Site			
Dry Cleaning Facility				

Data Sources: NAVTEQ; US Geological Survey; FL Department of Transportation; FL Department of Environmental Protection; FL Water Management Districts; US Environmental Protection Agency; Natural Resource Conservation Service

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8/5/2019

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Cultural Resources Data Map

- ETDM Alternative
 - Major Road
 - Local Road or Trail
 - ★ Historic Structure
 - Historic Bridge
 - State Historic Highway
 - Historic Cemetery
 - Historic Resource Group
 - Cultural Resource Field Survey Area
 - ETDM Alternative
- Year Built**
- Pre 1970
 - Post 1980
 - 1970 - 1979
 - Parcels w/ no values



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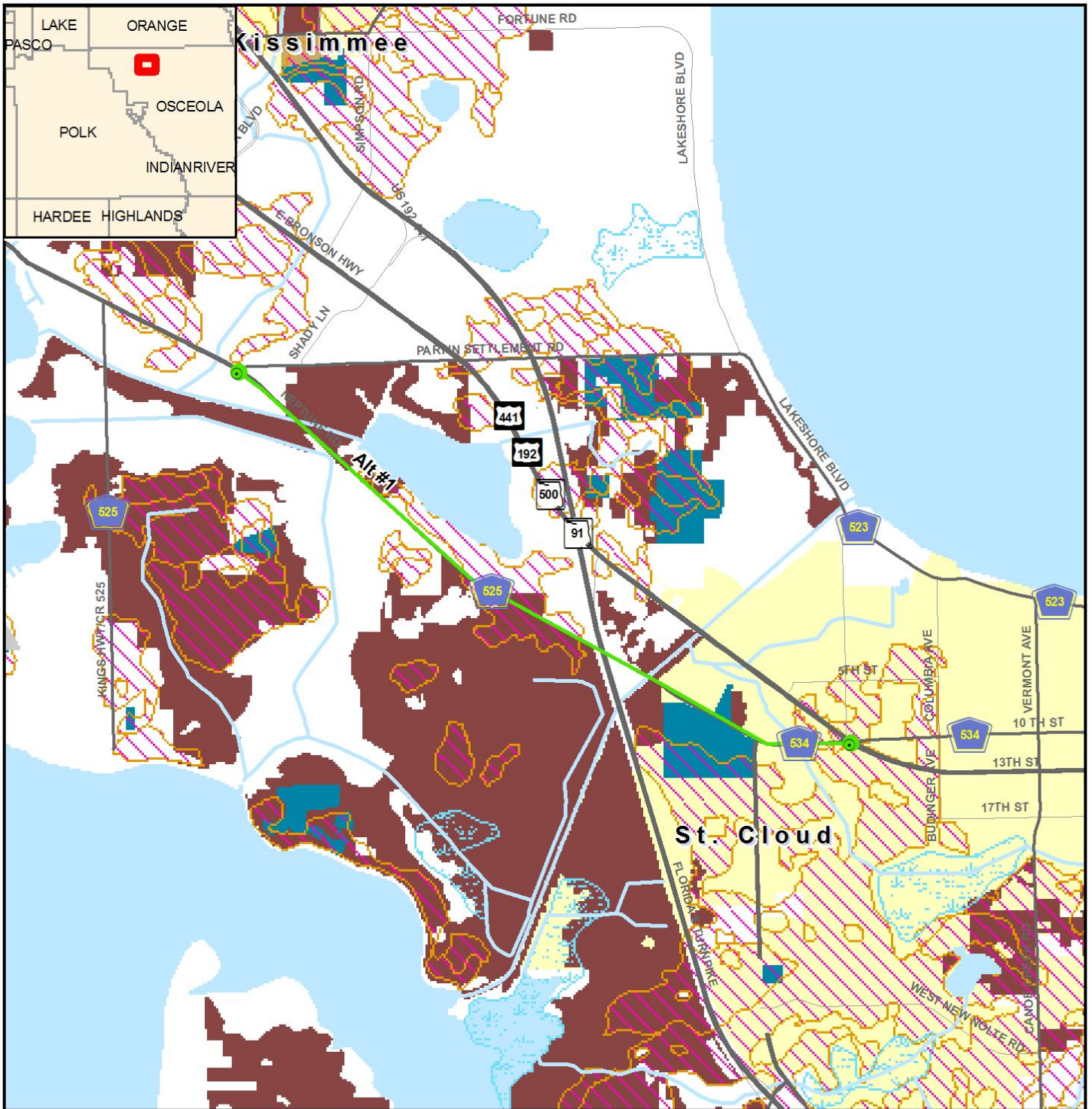


Data Sources:
 NAVTEQ
 US Geological Survey
 Florida Department of Transportation
 Florida Department of State,
 Bureau of Archaeological Research



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Farmlands Map

- | | | |
|--|---|---|
| ■ ETDM Alternative | ■ Cropland/Pastureland | Prime Farmland Soils |
| ● ETDM Alternative Terminus | ■ Nurseries/Vineyards | |
| — Major Road | ■ Specialty Farms | |
| — Local Road or Trail | ■ Tree Crops | |
| ■ City Limits | ■ Rural Open Lands | |

Data Sources:
 NAVTEQ
 Florida Water Management Districts
 US Geological Survey
 Natural Resources Conservation Service



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Floodplains Map

- ETDM Alternative
- ETDM Alternative Terminus
- Major Road
- Local Road or Trail
- City Limits
- Special Flood Hazard Area

Data Sources:
 NAVTEQ
 US Geological Survey
 Federal Emergency Management Agency

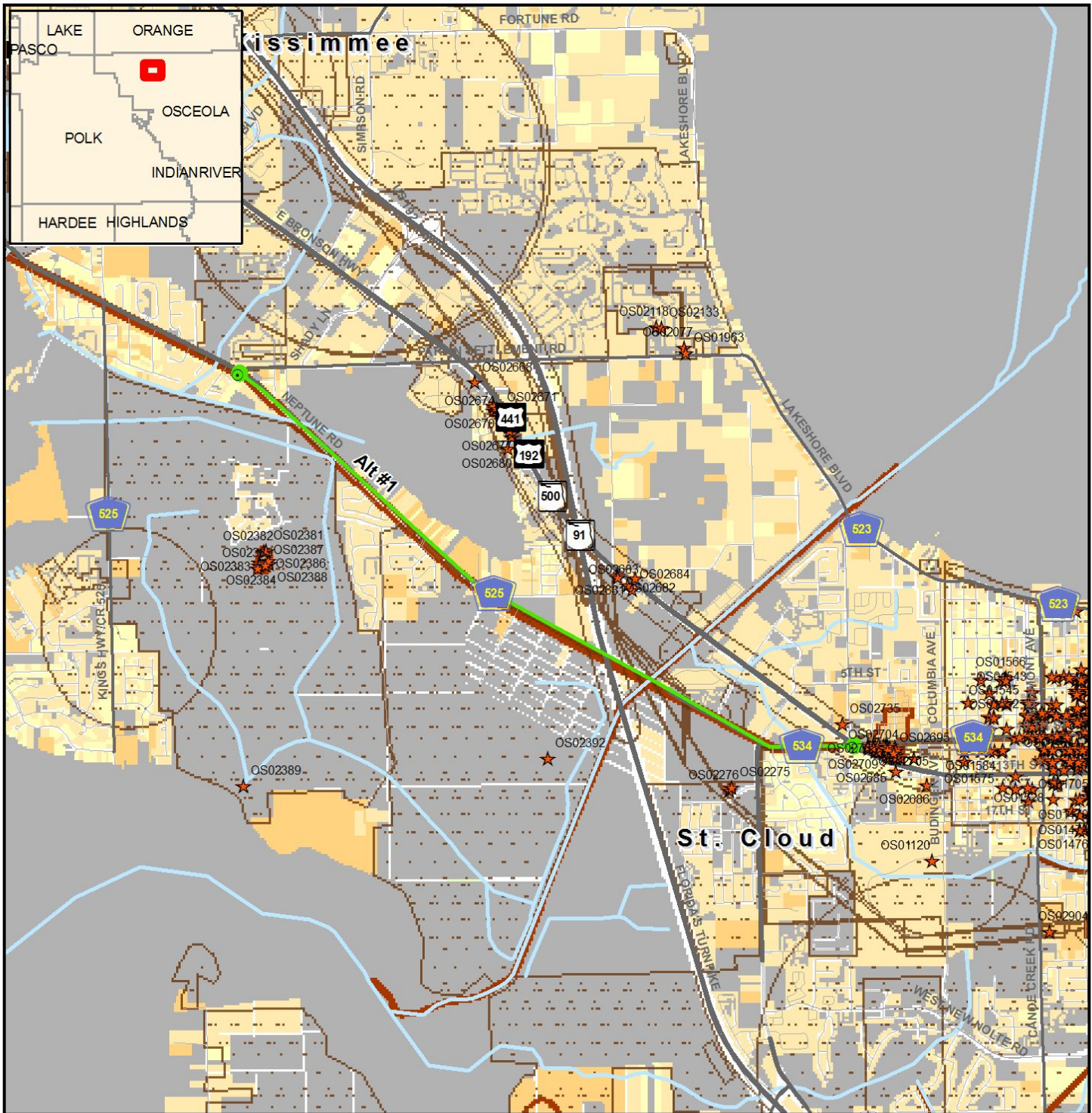
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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Historic Resource Map

ETDM Alternative	Year Built	Historic Structure	Data Sources: NAVTEQ US Geological Survey Florida Department of Transportation Florida Department of State, Bureau of Archaeological Research
ETDM Alternative Terminus	Pre 1970	Historic Bridge	
Major Road	Post 1980	State Historic Highway	
Local Road or Trail	1970 - 1979	Historic Cemetery	
Parcels w/ no values	Cultural Resource Field Survey Area	Historic Resource Group	

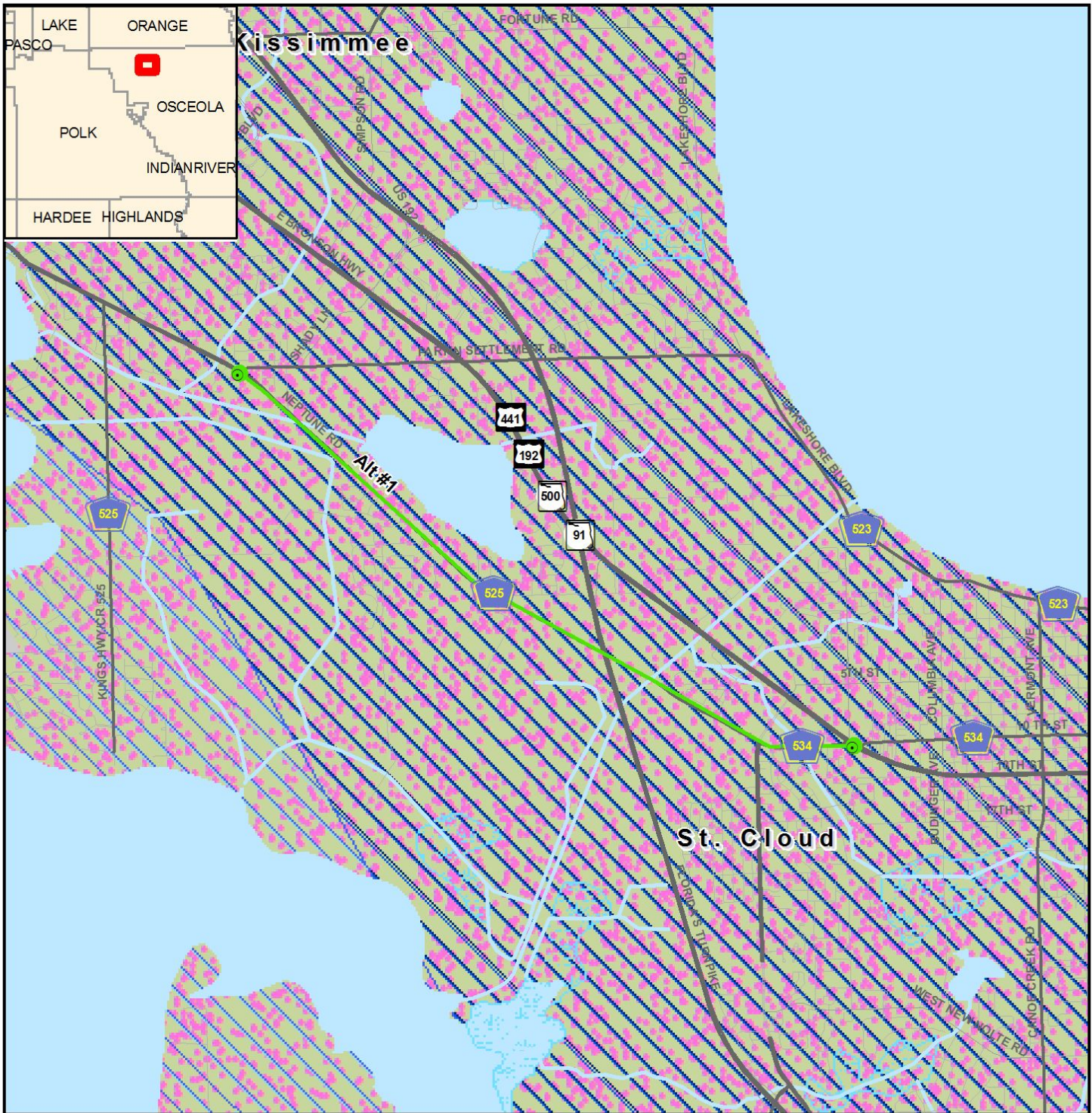
Note: Historic properties depicted on this map represent resources listed in the Florida Master Site File excluding archeological site locations, which, pursuant to Chapter 267.135, Florida Statutes, may be exempt from public record (Chapter 119.07, Florida Statutes). Absence of features on the map does not necessarily indicate an absence of resources in the project vicinity.

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Hydrogeology Map

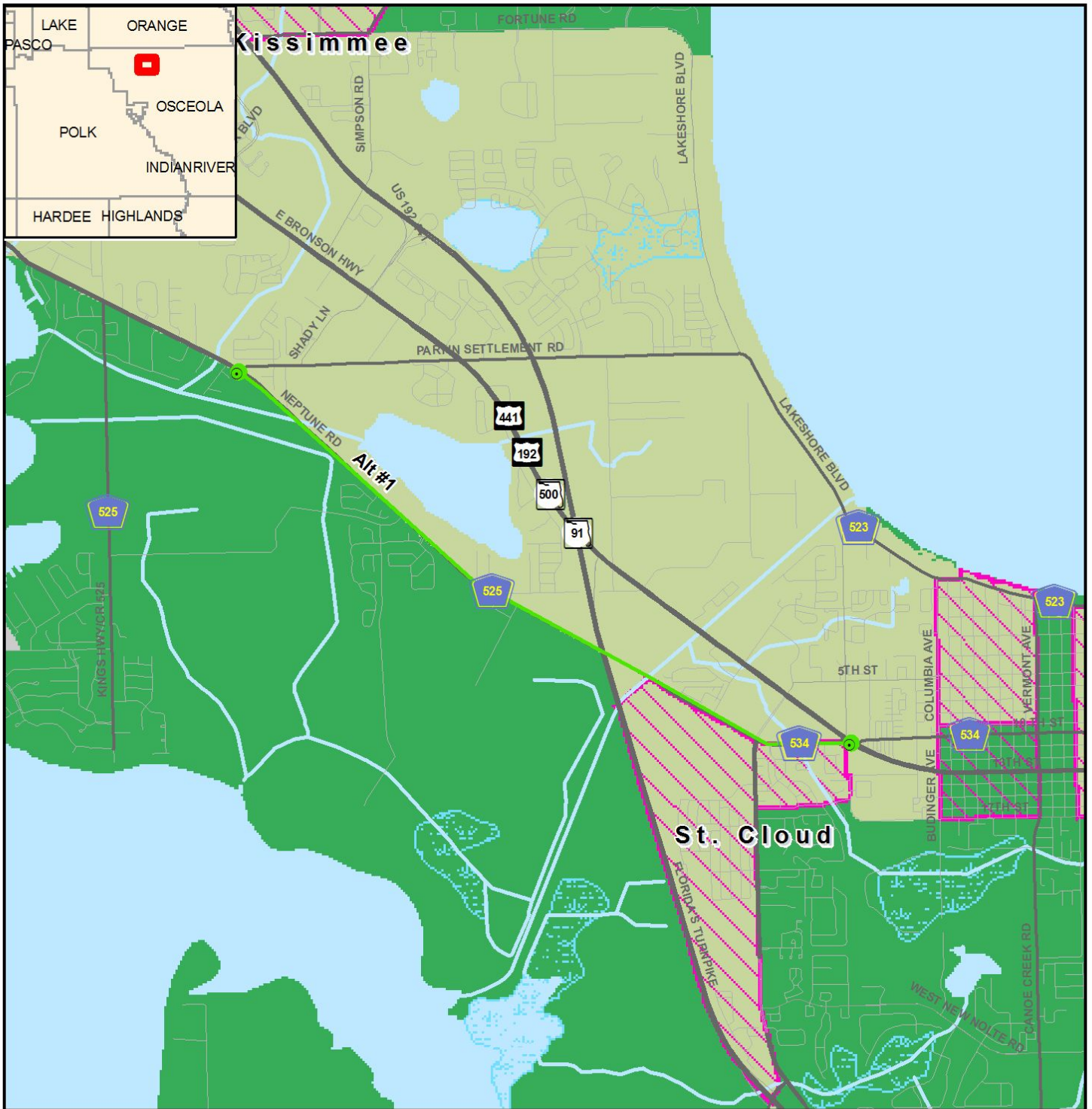
<ul style="list-style-type: none"> ■ ETDM Alternative ● ETDM Alternative Terminus — Major Road — Local Road or Trail ■ City Limits 	<p>Recharge Areas of the Floridan Aquifer</p> <ul style="list-style-type: none"> Discharge 1 to 5 Discharge > 5 Discharge < 1 Recharge 1 to 10 Recharge > 10 Recharge < 1 	<p>Surface Geology</p> <ul style="list-style-type: none"> ■ Eocene ■ Miocene ■ Miocene/Pliocene ■ Oligocene ■ Oligocene/Miocene ■ Pleistocene ■ Holocene ■ Pleistocene/Holocene ■ Pliocene ■ Pliocene/Pleistocene
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Data Sources: NAVTEQ; US Geological Survey
 Florida Department of Transportation
 South West Florida Water Management District
 Florida Geological Survey

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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Income Map

- ETDM Alternative
 - ETDM Alternative Terminus
 - Major Road
 - Local Road or Trail
 - > 20% Below Poverty
- | Median Household Income | |
|-------------------------|------------------|
| | 0 - 10,000 |
| | 10,001 - 29,999 |
| | 30,000 - 49,999 |
| | 50,000 - 79,999 |
| | 80,000 - 125,000 |
| | > 125,000 |

Data Sources:
 US Geological Survey
 FL Department of Transportation
 NAVTEQ
 US Census Bureau (2010)

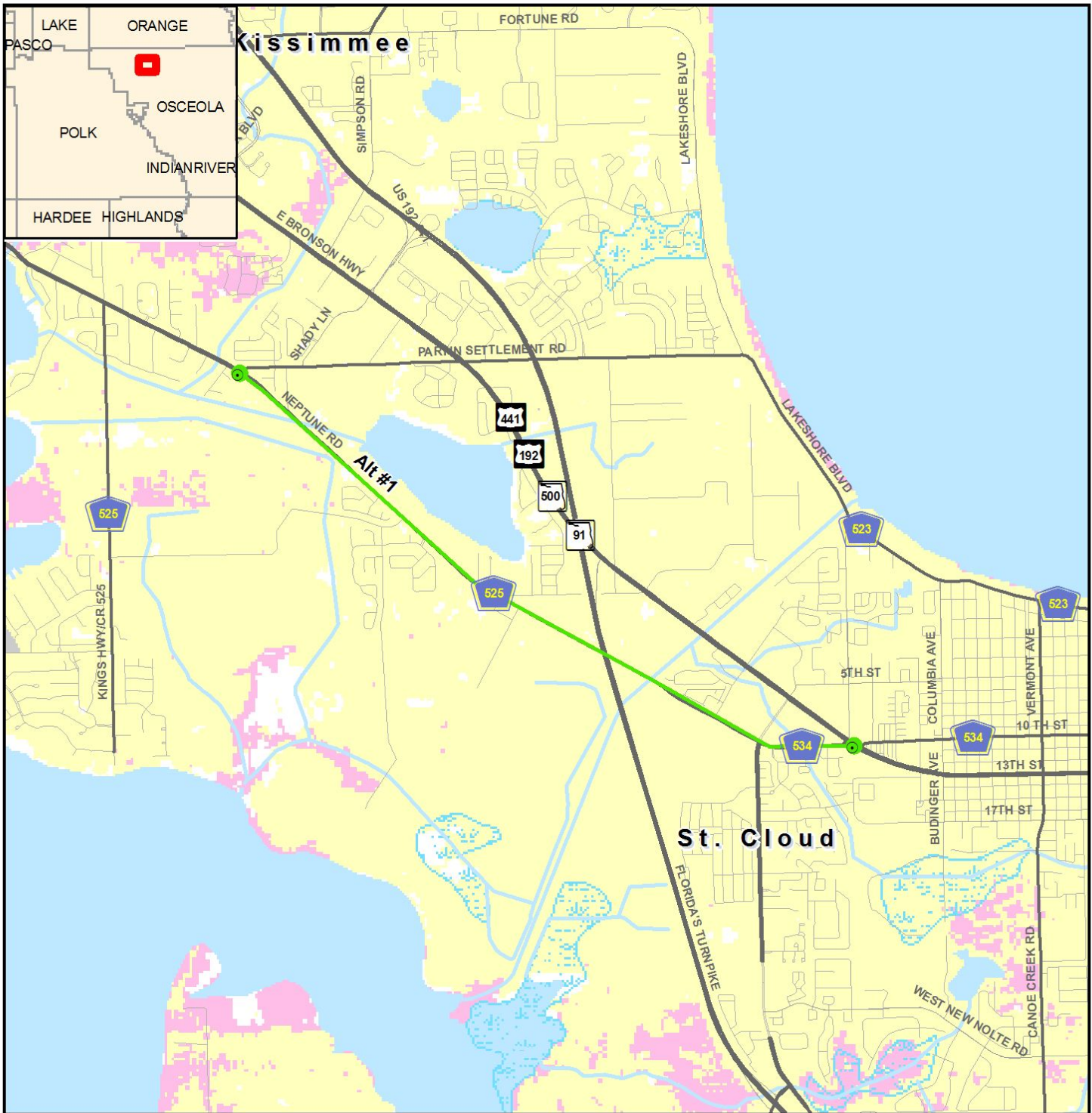
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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Integrated Wildlife Model Map

- ETDM Alternative
- Low Habitat Quality
- Medium Habitat Quality
- ETDM Alternative Terminus
- High Habitat Quality
- Major Road
- Local Road or Trail

Data Sources:
 NAVTEQ
 US Geological Survey
 Florida Department of Transportation
 Florida Fish & Wildlife Conservation Commission

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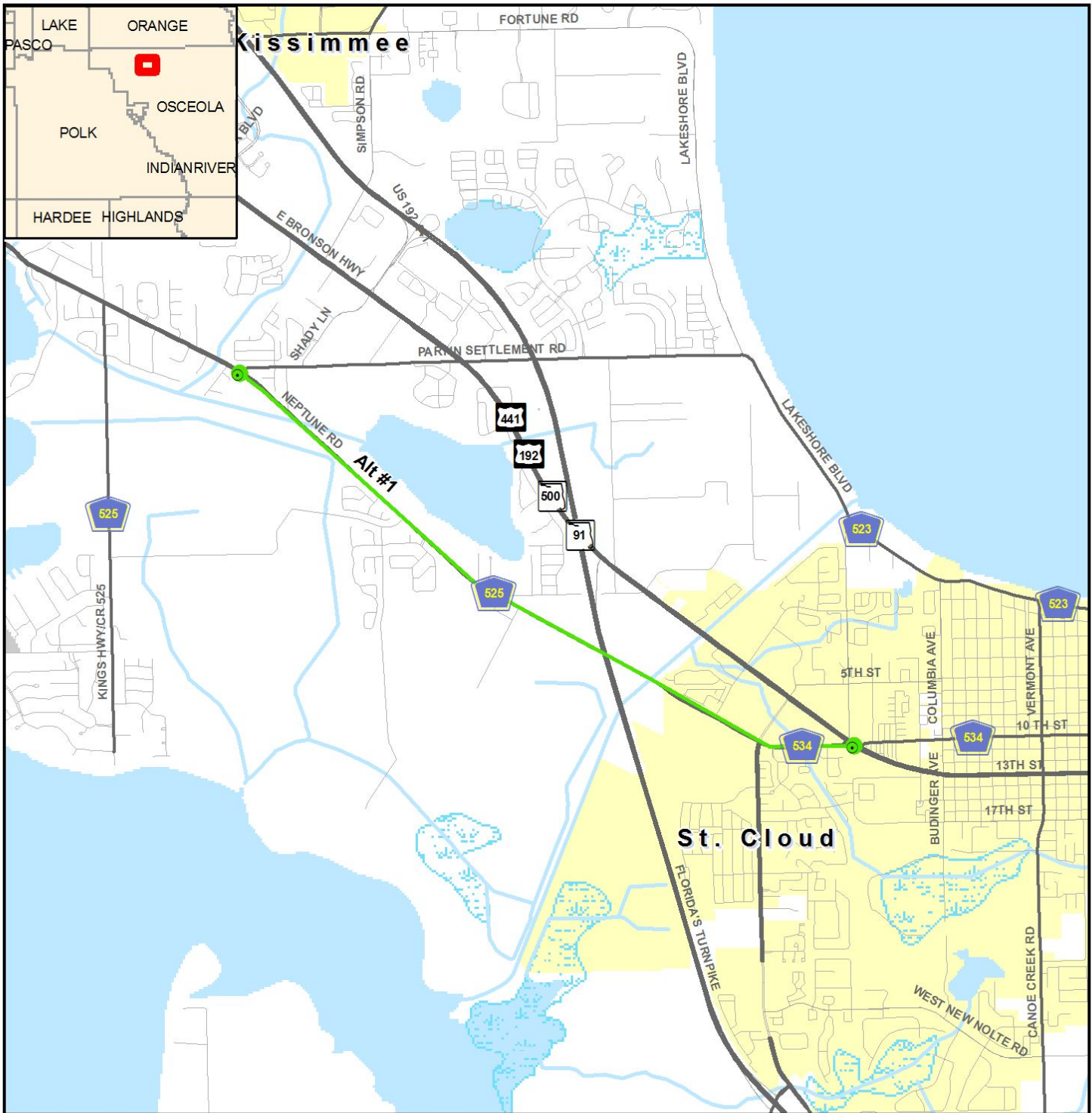


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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1

Partin Settlement Road to US 192



Land Use Map

ETDM Alternative	Agricultural	Other	Retail/Office
ETDM Alternative Terminus	Industrial	Public	Vacant (Residential)
Major Road	Institutional	Right-of-Way	Vacant (Nonresidential)
Local Road or Trail	Mining	Recreational	Water
	Open (Not Agricultural)	Residential	No Data

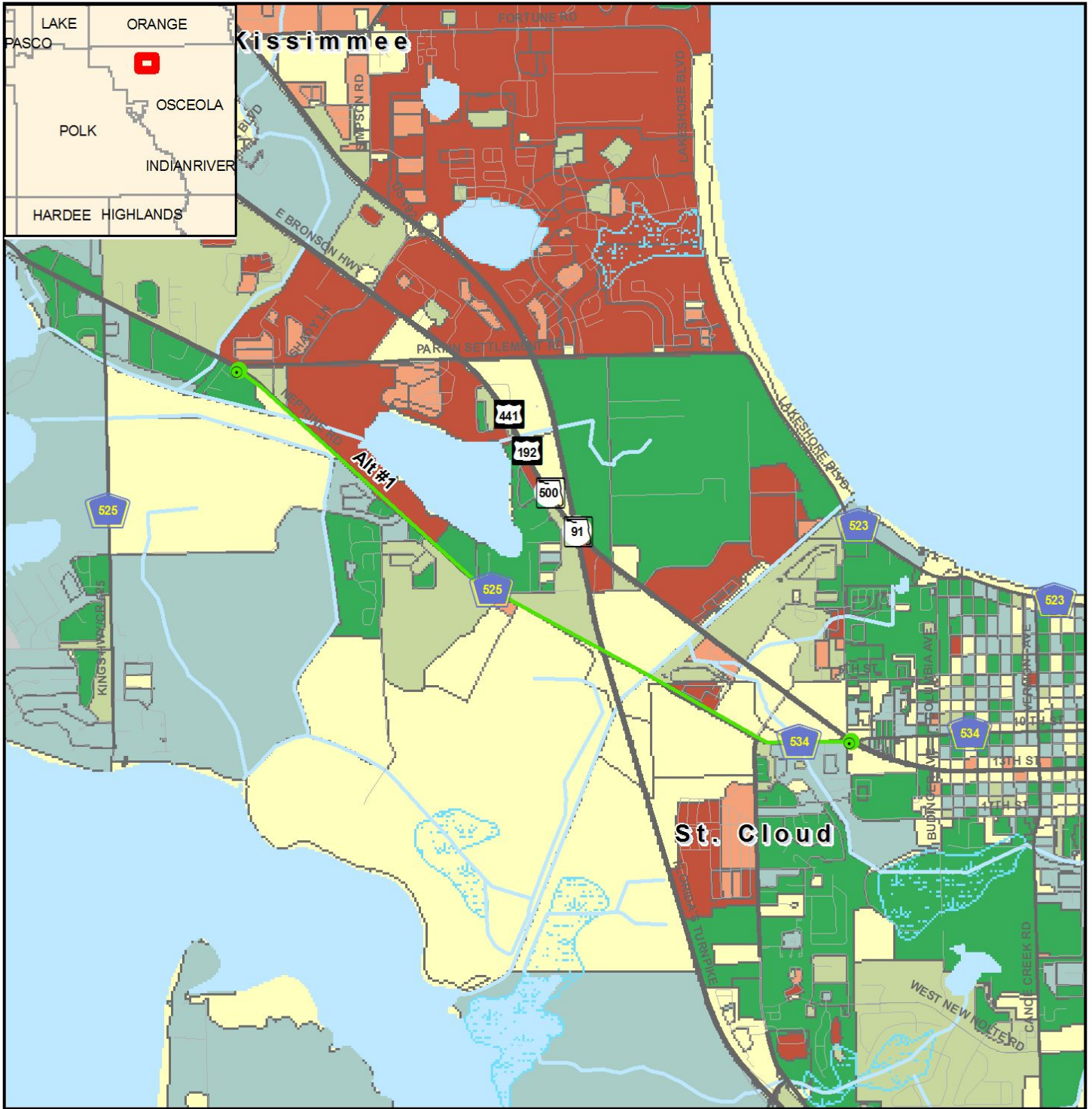
Data Sources:
 NAVTEQ
 US Geological Survey
 Florida Department of Revenue
 Florida Department of Transportation
 Florida County Property Appraiser Offices

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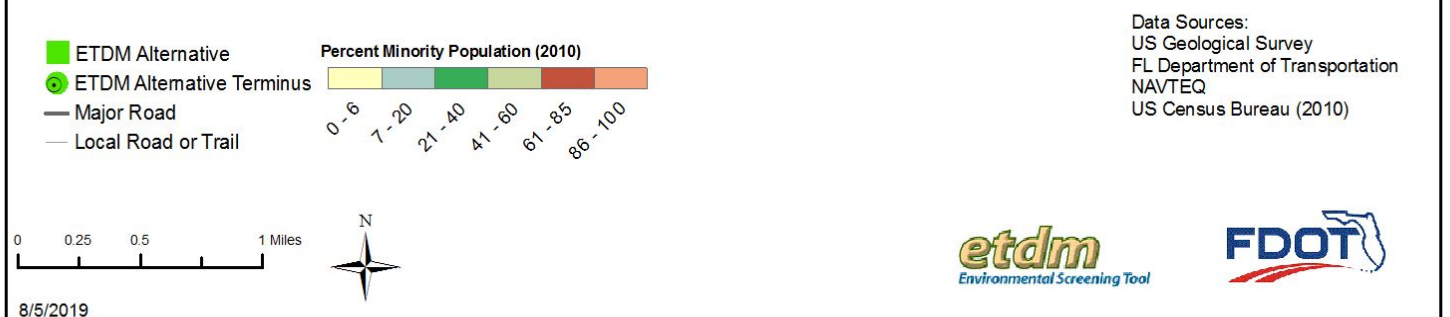
8/5/2019

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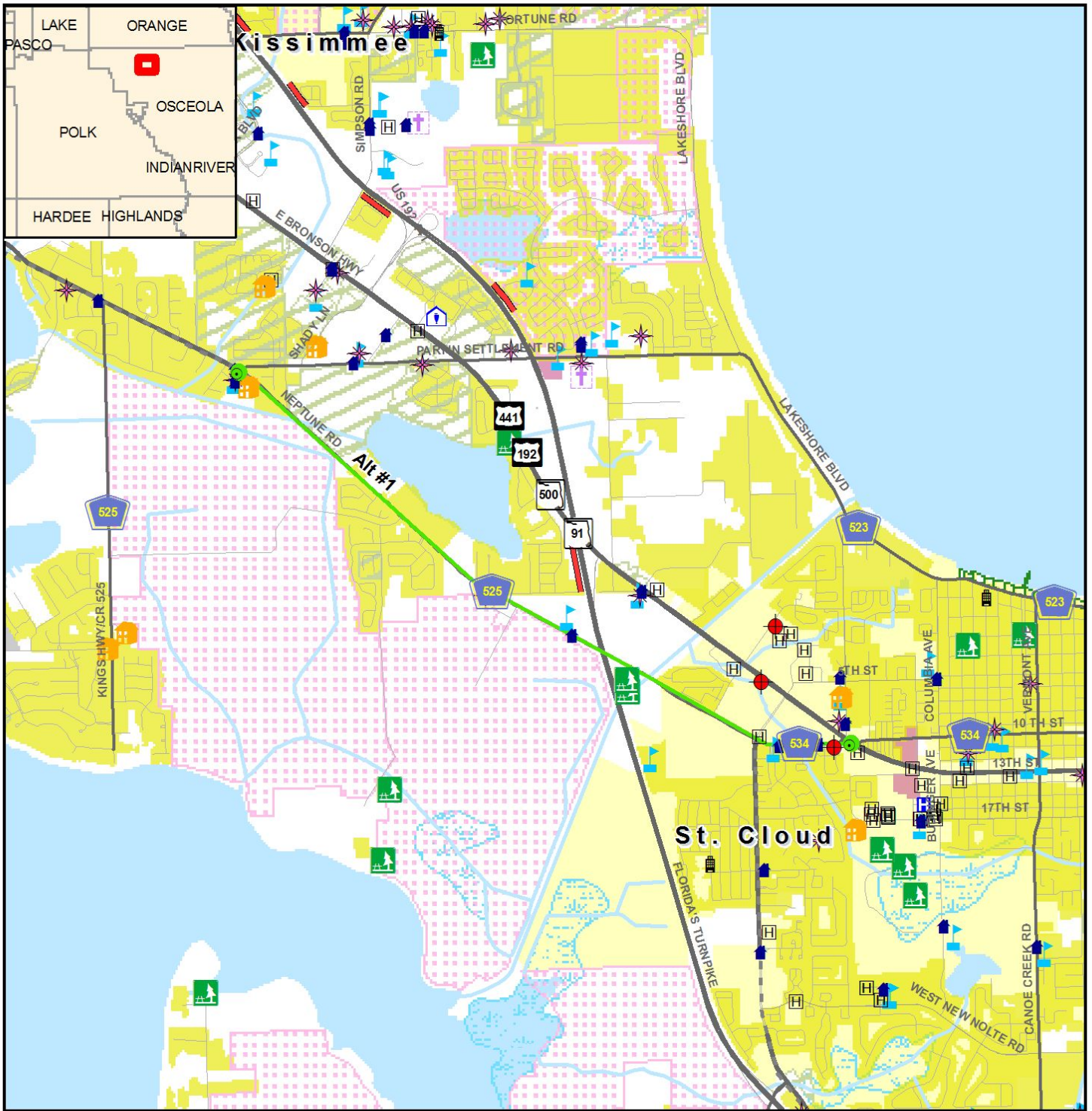


Minority Population Map



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Noise Map

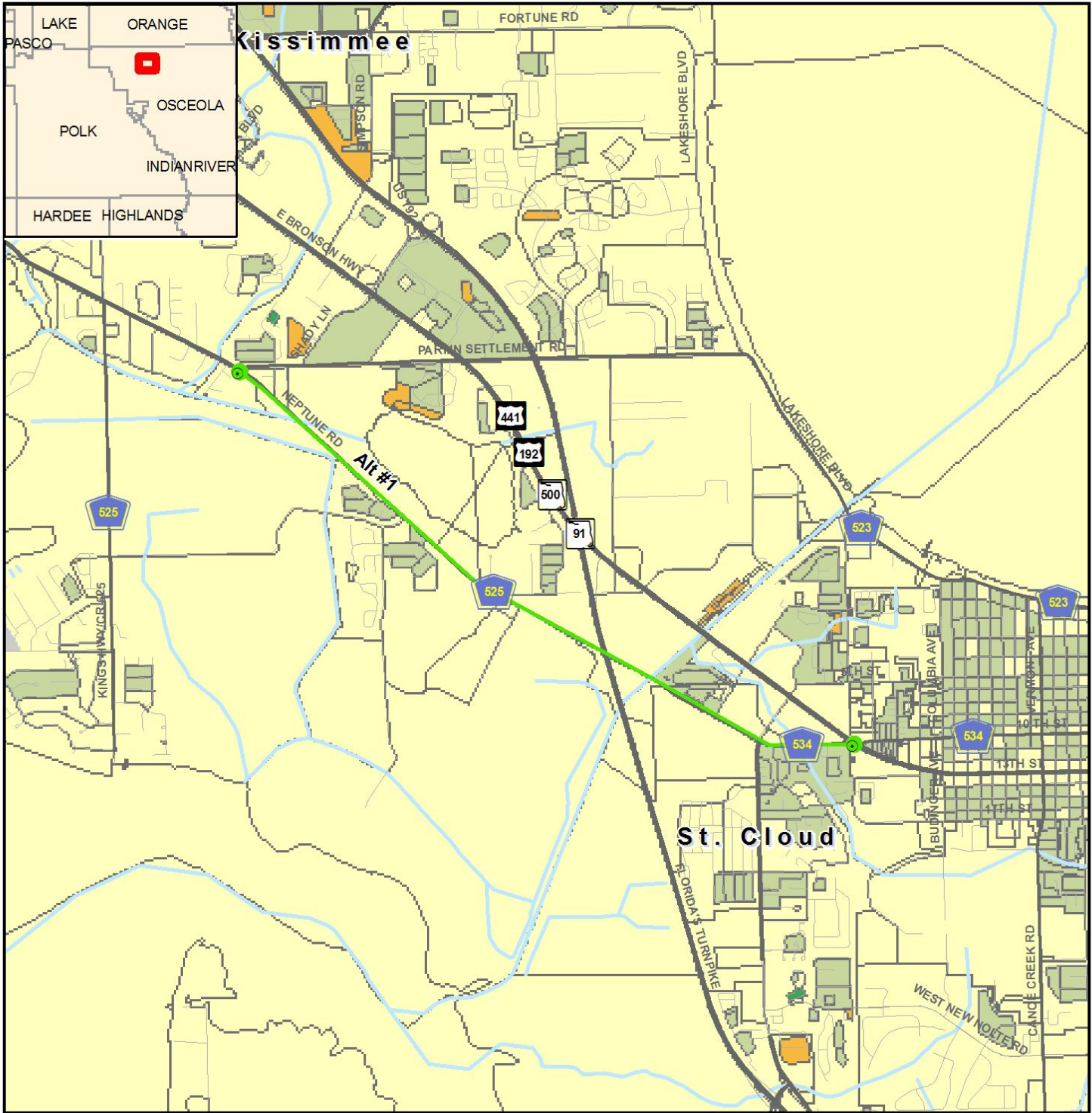
ETDM Alternative	Condo Owners Associations	Cultural Center	Historic Cemetery	ETAT.LU_NW_INDUSTRIAL_16
ETDM Alternative Terminus	Hospitals	Health Care	Planned Unit Developments	ETAT.LU_NW_RESIDENT_16
City Limits	Laser On-site	Park	Wildlife Refuges	HUD Renewal
Noise Barriers	Group Care Facilities	Place of Worship	National Parks	Nat'l Estuarine Reserves
Existing Trails	Cemetery	School	National Park Projects	Enterprise Zones
	Community Center		Marine Sanctuaries	DRI
			Military Installations	

Data Sources: GeoPlan Center, US Geological Survey, US Census Bureau, HUD, Florida DOT, US Fish and Wildlife, National Park Service, NOAA, National Estuarine Research, Enterprise Florida

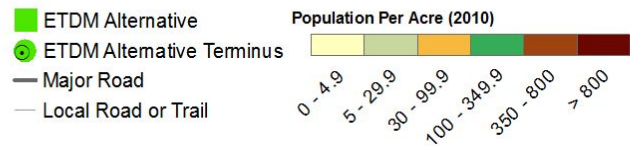
8/5/2019

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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Population Density Map



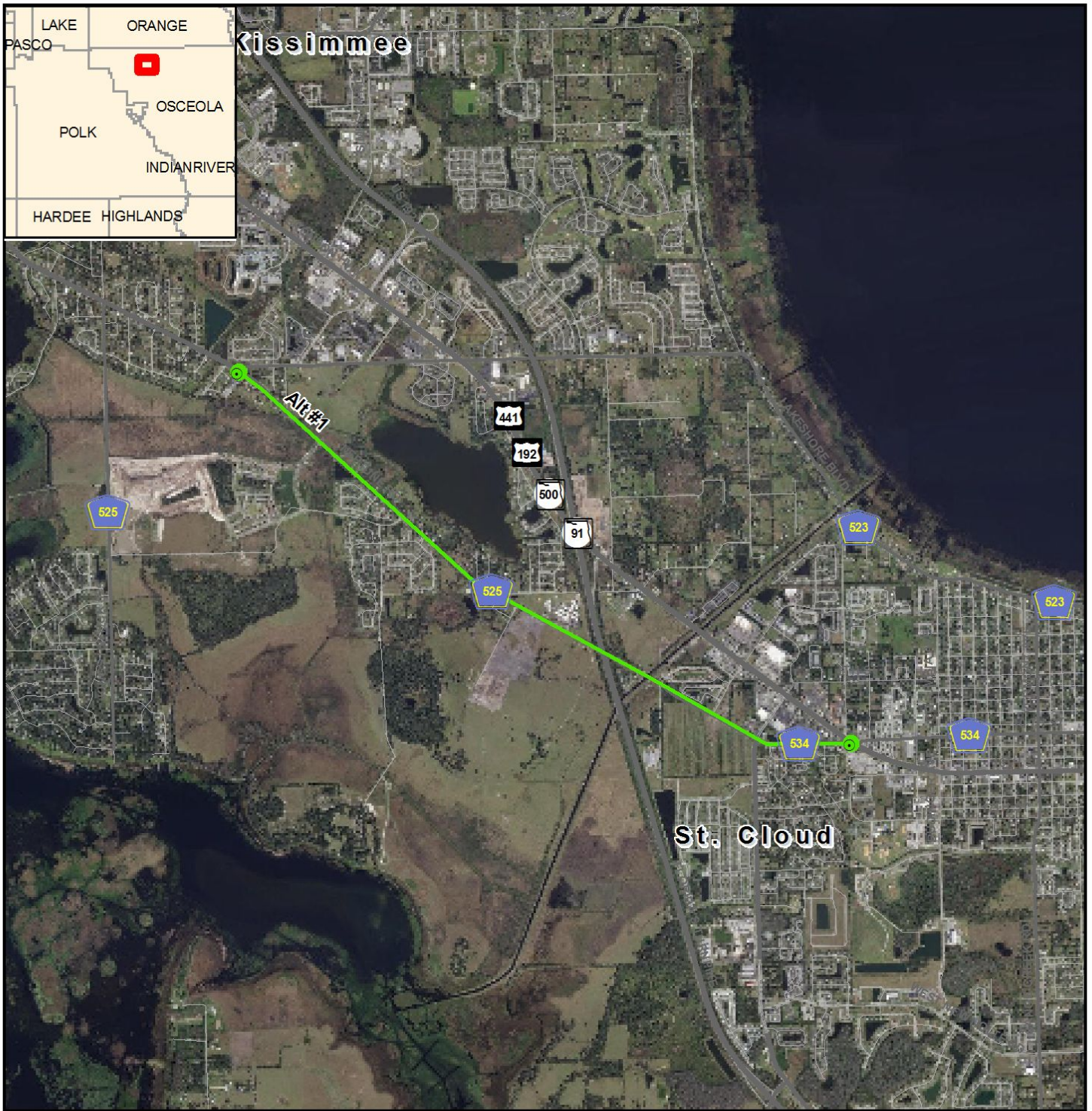
Data Sources:
 US Geological Survey
 FL Department of Transportation
 NAVTEQ
 US Census Bureau (2010)



8/5/2019

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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Project Aerial Map

- ETDM Alternative
- ETDM Alternative Terminus
- Major Road
- Local Road or Trail

Data Sources:
Highways - NAVTEQ
Digital Orthophotograph - ArcGIS Online

0 0.25 0.5 1 Miles



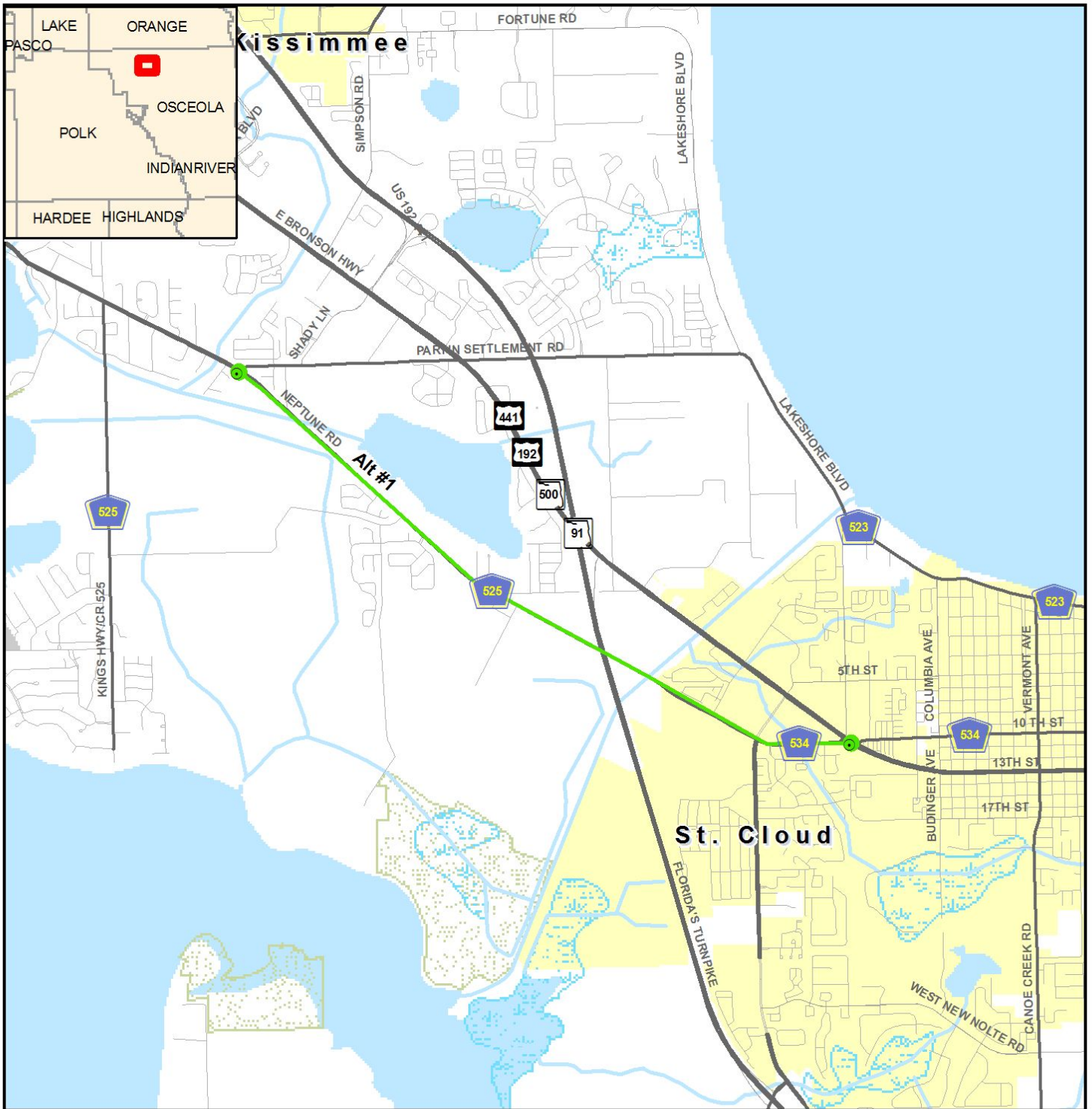
etdm
Environmental Screening Tool



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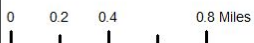
14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Project Base Map

- ETDM Alternative
- ETDM Alternative Terminus
- Local Road or Trail
- Major Road
- City Limits
- Managed Conservation Lands

Data Sources:
 NAVTEQ
 US Geological Survey
 US Census Bureau
 County Property Appraisers
 Florida Natural Areas Inventory



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Recreational Areas Map

- ETDM Alternative
- ETDM Alternative Terminus
- Major Road
- Local Road or Trail
- City Limits
- Conservation or Recreation Area

Data Sources:
 NAVTEQ
 US Geological Survey
 Florida Natural Areas Inventory

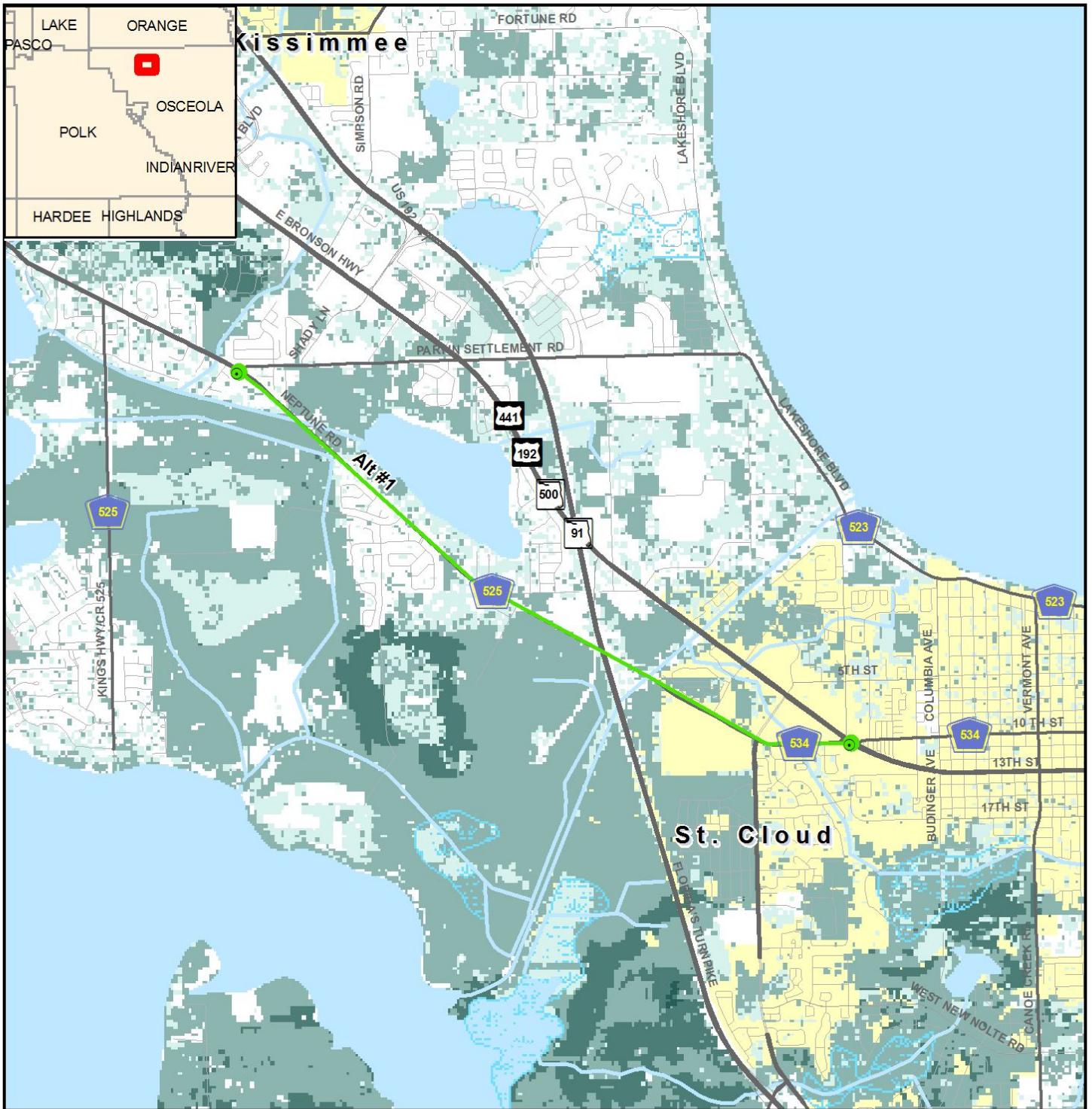
0 0.25 0.5 1 Miles



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192

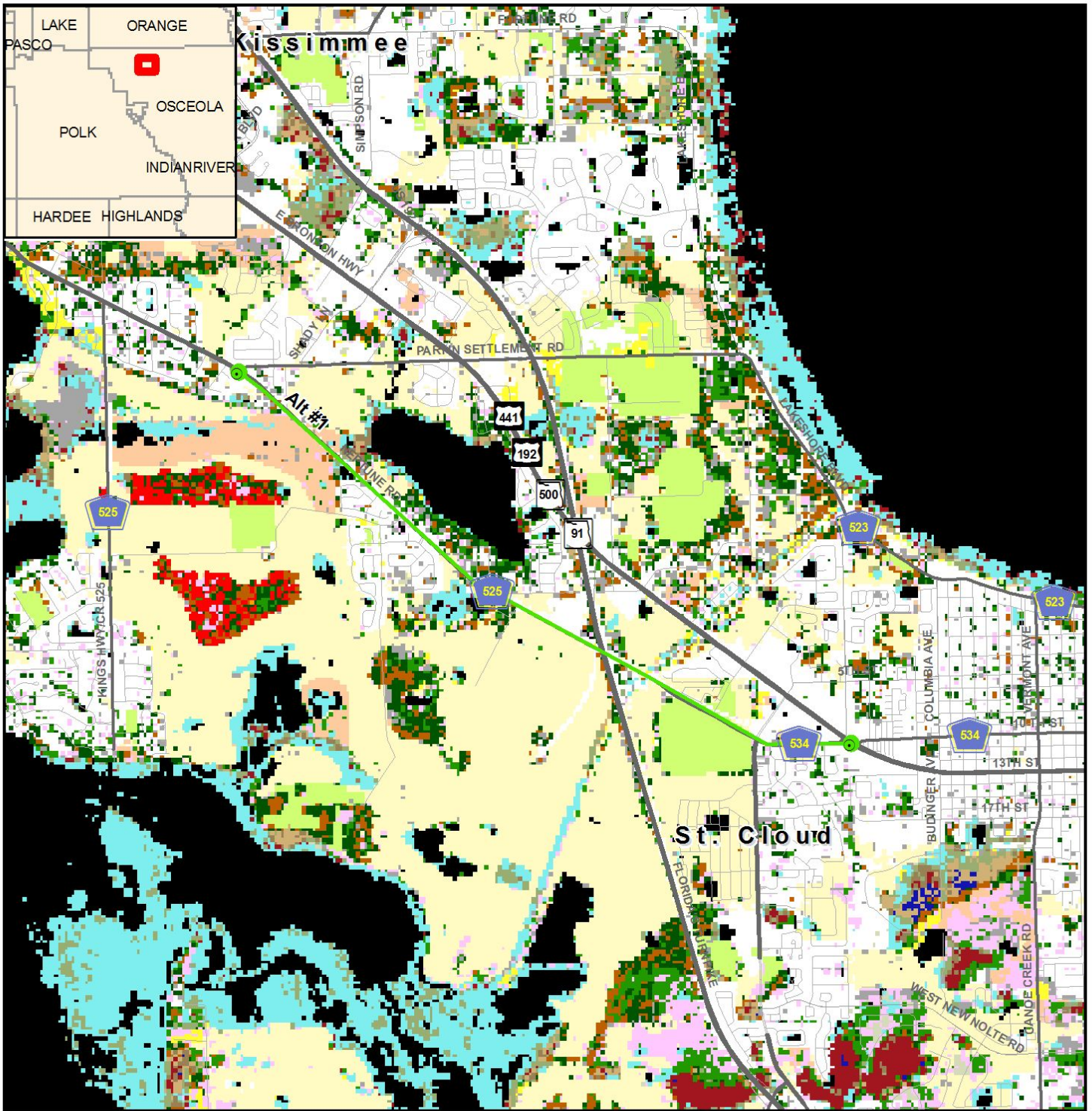


Species Potential Map

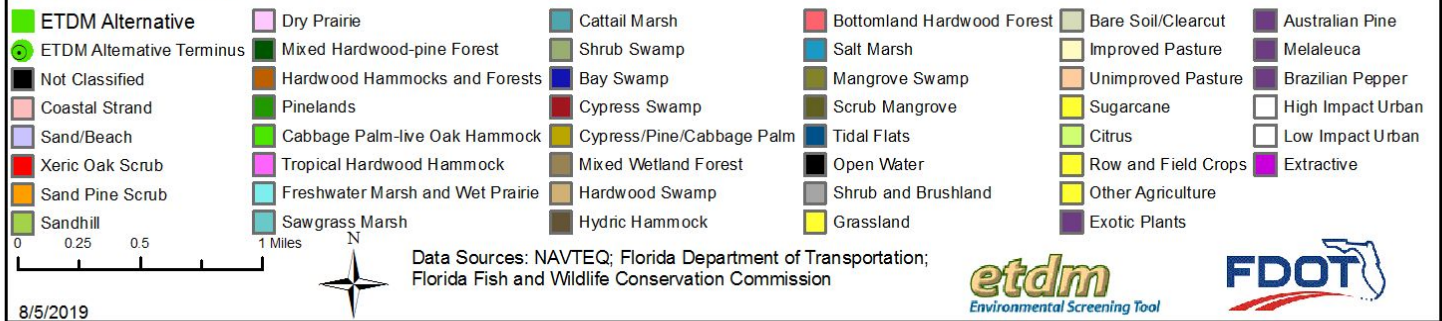


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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Vegetation Map



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Water Resource Map

- | | | | |
|---|------------------------|---------------------------|-------------|
| ■ ETDM Alternative | 1st Magnitude Spring | Drainage Basin | Water Body |
| ETDM Alternative Terminus | River, Stream or Canal | Outstanding Florida Water | Swamp/Marsh |
| Major Road | Navigable Water Way | Surface Water Class I | |
| Local Road or Trail | SFWMD Canals | Surface Water Class II | |
| City Limits | | | |

Data Sources:
 NAVTEQ
 US Geological Survey
 Florida Department of Transportation
 Florida Department of Environmental Protection
 Florida Geological Survey
 US Bureau of Transportation Statistics

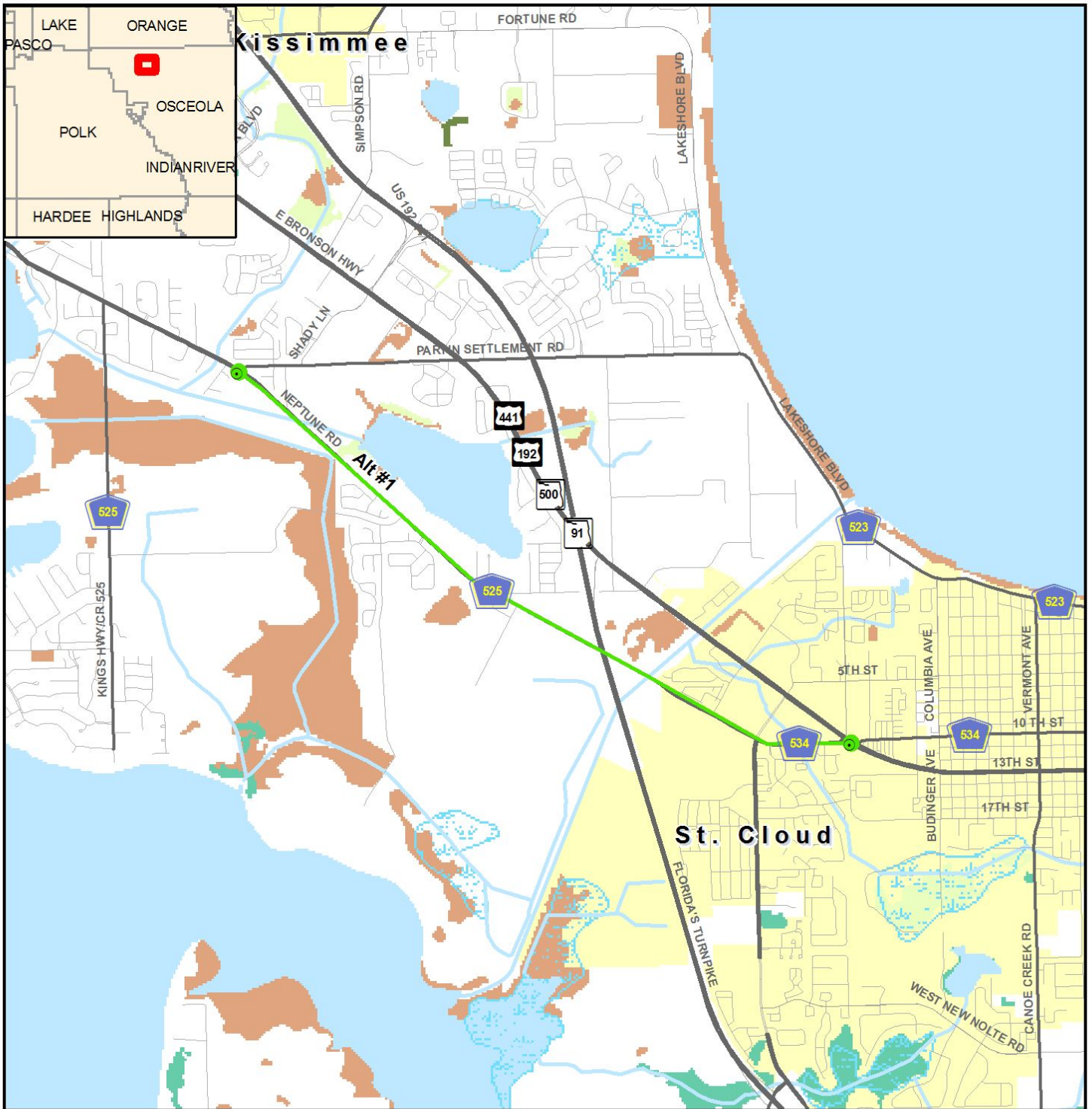
0 0.25 0.5 1 Miles



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14402 Neptune Road Widening From Partin Settlement Road to US 192, Alternative #1 Partin Settlement Road to US 192



Wetlands and Surface Waters Map

■ ETDM Alternative	— River, Stream or Canal	■ Non-vegetated Wetland
● ETDM Alternative Terminus	■ Water Body	■ Vegetated Non-forested Wetland
— Major Road	■ Swamp/Marsh	■ Wetland Forested Mixed
— Local Road or Trail		■ Wetland Coniferous Forest
■ City Limits		■ Wetland Hardwood Forest

Data Sources:
NAVTEQ
Florida Water Management Districts
US Geological Survey

0 0.25 0.5 1 Miles

8/5/2019

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Appendices

PED Comments

Advance Notification Comments

There are no comments for this project.

GIS Analyses

Since there are so many GIS Analyses available for Project #14402 - Neptune Road Widening From Partin Settlement Road to US 192, they have not been included in this ETDM Summary Report. GIS Analyses, however, are always available for this project on the Public ETDM Website. Please click on the link below (or copy this link into your Web Browser) in order to view detailed GIS tabular information for this project:

<http://etdmpub.fla-etat.org/est/index.jsp?tplID=14402&startPageName=GIS%20Analysis%20Results>

Special Note: Please be sure that when the GIS Analysis Results page loads, the **Summary Report Re-Published 3/19/2020Milestone** is selected. GIS Analyses snapshots have been taken for Project #14402 at various points throughout the project's life-cycle, so it is important that you view the correct snapshot.

Project Attachments

Note: Attachments are not included in this Summary Report, but can be accessed by clicking on the links below:

Date	Type	Size	Link / Description
07/15/2019	Ancillary Project Documentation	1.74 MB	http://etdmpub.fla-etat.org/est/servlet/blobViewer?blobID=28110 Application for Federal Assistance
08/31/2018	Ancillary Project Documentation	1.97 MB	http://etdmpub.fla-etat.org/est/servlet/blobViewer?blobID=28081 Advance Notification sent 8-31-18
07/16/2019	Ancillary Project Documentation	12 KB	http://etdmpub.fla-etat.org/est/servlet/blobViewer?blobID=28079 Federal Consistency Determination

Degree of Effect Legend

Color Code	Meaning	ETAT	Public Involvement
N/A	Not Applicable / No Involvement	There is no presence of the issue in relationship to the project, or the issue is irrelevant in relationship to the proposed transportation action.	
0	None (after 12/5/2005)	The issue is present, but the project will have no impact on the issue; project has no adverse effect on ETAT resources; permit issuance or consultation involves routine interaction with the agency. The <i>None</i> degree of effect is new as of 12/5/2005.	No community opposition to the planned project. No adverse effect on the community.
1	Enhanced	Project has positive effect on the ETAT resource or can reverse a previous adverse effect leading to environmental improvement.	Affected community supports the proposed project. Project has positive effect.
2	Minimal	Project has little adverse effect on ETAT resources. Permit issuance or consultation involves routine interaction with the agency. Low cost options are available to address concerns.	Minimum community opposition to the planned project. Minimum adverse effect on the community.
2	Minimal to None (assigned prior to 12/5/2005)	Project has little adverse effect on ETAT resources. Permit issuance or consultation involves routine interaction with the agency. Low cost options are available to address concerns.	Minimum community opposition to the planned project. Minimum adverse effect on the community.
3	Moderate	Agency resources are affected by the proposed project, but avoidance and minimization options are available and can be addressed during development with a moderated amount of agency involvement and moderate cost impact.	Project has adverse effect on elements of the affected community. Public Involvement is needed to seek alternatives more acceptable to the community. Moderate community interaction will be required during project development.
4	Substantial	The project has substantial adverse effects but ETAT understands the project need and will be able to seek avoidance and minimization or mitigation options during project development. Substantial interaction will be required during project development and permitting.	Project has substantial adverse effects on the community and faces substantial community opposition. Intensive community interaction with focused Public Involvement will be required during project development to address community concerns.
5	Potential Dispute (Planning Screen)	Project may not conform to agency statutory requirements and may not be permitted. Project modification or evaluation of alternatives is required before advancing to the LRTP Programming Screen.	Community strongly opposes the project. Project is not in conformity with local comprehensive plan and has severe negative impact on the affected community.

5	Dispute Resolution (Programming Screen)	Project does not conform to agency statutory requirements and will not be permitted. Dispute resolution is required before the project proceeds to programming.	Community strongly opposes the project. Project is not in conformity with local comprehensive plan and has severe negative impact on the affected community.
	No ETAT Consensus	ETAT members from different agencies assigned a different degree of effect to this project, and the ETDM coordinator has not assigned a summary degree of effect.	
	No ETAT Reviews	No ETAT members have reviewed the corresponding issue for this project, and the ETDM coordinator has not assigned a summary degree of effect.	