Draft

Preliminary Engineering Report

Florida Department of Transportation

District 4

S.R. 714/Monterey Road at FEC Railroad Crossing Project Development & Environment (PD&E) Study

Limits of Project: n/a

Martin County, Florida

Financial Management Number: 441636-2-22-02

ETDM Number: 14527

Date: September 2026

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

DRAFT

Professional Engineer Certification

Preliminary Engineer Report

Project: S.R. 714/Monterey Road at FEC Railroad Crossing Project Development & Environment (PD&E) Study

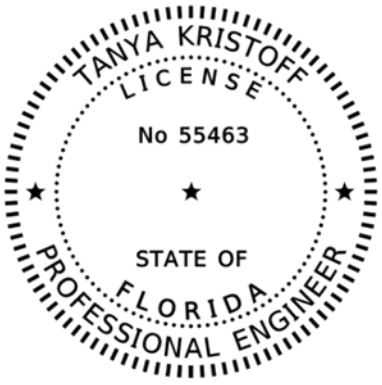
ETDM Number: 14527

Financial Project ID: 441636-2-22-01

Federal Aid Project Number: NA

This preliminary engineering report contains engineering information that fulfills the purpose and need for the S.R. 714/Monterey Road at FEC Railroad Crossing Project Development & Environment (PD&E) Study in Martin County, Florida I acknowledge that the procedures and references used to develop the results contained in this report are standard to the professional practice of transportation engineering as applied through professional judgment and experience.

I hereby certify that I am a registered professional engineer in the State of Florida practicing with HW Lochner Inc., and that I have prepared or approved the evaluation, findings, opinions, conclusions or technical advice for this project.



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1.0 PROJECT SUMMARY

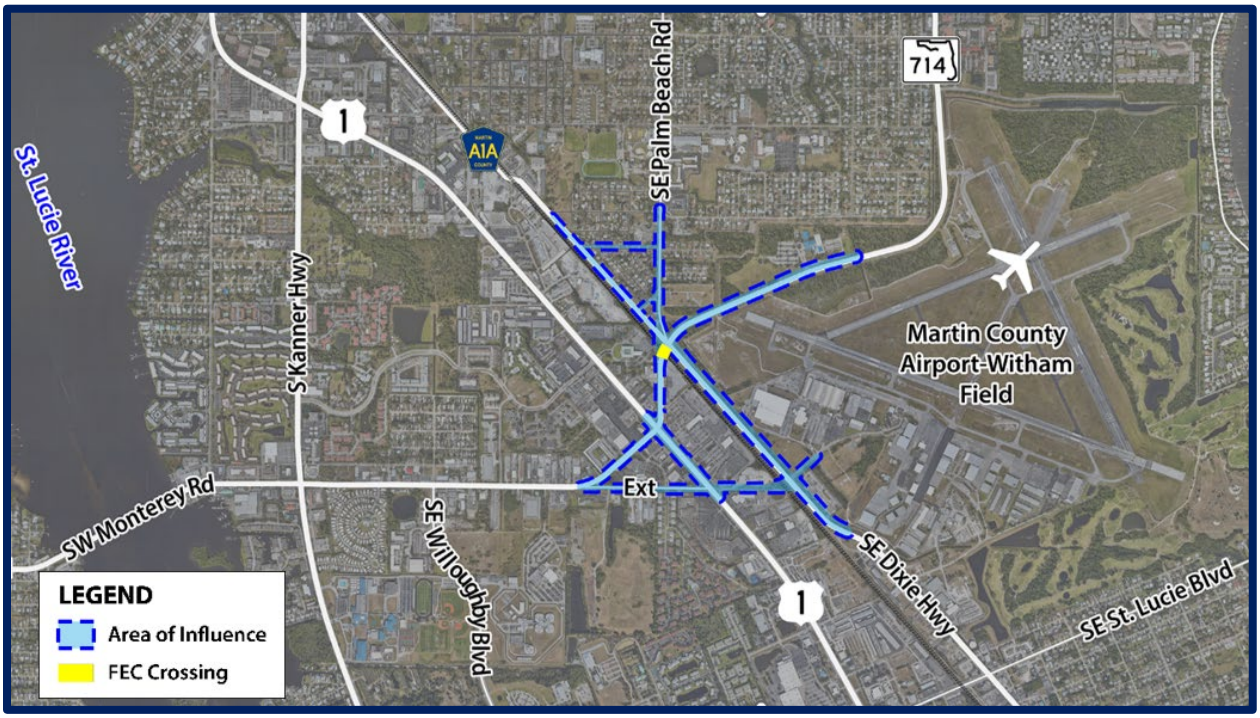
1.1 PROJECT DESCRIPTION

This project is a re-screening of the previous screening conducted in 2023. The re-screening includes a revised, larger study area including three Alternatives, which are discussed in detail further below. The project limits extend along State Road (S.R.) 714/Monterey Road approximately 0.60 miles east and 0.25 miles west of the S.R. 714/Monterey Road and the Florida East Coast (FEC) Railroad crossing intersection. This segment is located within unincorporated Martin County, Florida. S.R. 714/Monterey Road runs in a primarily east-west direction and is a state-maintained roadway. Within the project limits, S.R. 714/Monterey Road is an urban typical 4-lane roadway. West of County Road (C.R.) A1A/Southeast (SE) Dixie Highway, S.R. 714 is a four-lane facility with a two-way left turn lane, while east of C.R. A1A/SE Dixie Highway, it is a four-lane divided facility. Signalized intersections within the project limits are located at Monterey Road/SE Dixie Highway. Existing drainage conditions along S.R. 714/Monterey Road are curb and gutter with a closed drainage system using curb inlets as collection points for storm water runoff. C.R. A1A/SE Dixie Highway runs parallel to S.R. 5 within the study area and is not part of the State Highway System within project limits. The FEC Railroad runs along the west side of C.R. A1A/SE Dixie Highway. Pedestrian facilities include a 5-foot-wide sidewalk on both sides of S.R. 714/Monterey Road. There are no bicycle lanes within the project limits. **Figure 1-1** shows the project location.

This study will evaluate several Alternatives (Alternative 1, Alternative 2, and Alternative 3) for the proposed improvements, including a No Build Alternative. A grade-separated crossing/bridge for Monterey Road over the FEC railroad will be considered for all Alternatives. Alternative 1 will include connecting Monterey Road to SE Palm Beach Road east of the existing intersection of Monterey Road and SE Dixie Highway. Alternative 2 includes a similar layout to Alternative 1 with a slight modification for where Monterey Road connects with SE Palm Beach Road. Alternative 3 includes widening SE Dixie Highway further to the south compared to Alternatives 1 and 2, and widening SE Grumman Blvd. Additionally, Alternative 3 includes Mohawk Lane to the north to connect to an existing shopping plaza. All Alternatives will include considerations for pedestrian and bicycle facilities with the proposed typical sections. Additionally, Witham Field Airport is located within the project limits for all Alternatives. Because the proposed improvements may include a grade-separated crossing and are located within the runway protection zone of the airport, coordination with Witham Airfield and the Federal Aviation Administration (FAA) will be required.

For a majority of categories listed in the Preliminary Environmental Discussion (PED), the impacts would likely be the same across all Alternatives, due to the same project limits. Where differences would occur (i.e. Aesthetic Effects, Infrastructure, and Sole Source Aquifers) the variances in impacts were described for each Alternative within that category discussion. All Alternatives will require right-of-way (ROW) acquisition for the proposed improvements.

Figure 1-1: Location Map



1.2 PURPOSE AND NEED

1.2.1 Purpose

The primary purpose of the S.R. 714/Monterey Road at FEC Railroad crossing project is to improve traffic operations, support transportation demand, supply more efficient system linkage, and provide enhanced emergency evacuation. By enhancing multimodal connectivity along Monterey Road, the project will support social and transportation related demands.

1.2.2 Project Status

Within the project limits, SR 714/Monterey Road is located within the Martin County Metropolitan Planning Organization (MPO). This Project Development and Environment Study (PD&E) is identified as a Priority Project #4 within the Martin County MPO Transportation Improvement Program (TIP) for the Fiscal Year (FY) 2026-2030. This project is noted in the TIP to be in the following phase: Preliminary Engineering, ROW, and Construction. This project is currently funded for the PD&E Study for FY 2025 and 2026, and the PD&E Study is currently ongoing. As listed in the Statewide Transportation Improvement Program (STIP), the estimated total project cost for the PD&E Study is $2,527,476. Preliminary engineering is currently funded, and the estimated total cost is $15,593,143. Construction is currently funded, and the estimated total project cost is $65,400,000.

1.2.3 System Linkage

Monterey Road is an urban typical four-lane roadway. This road runs northeast, connecting Federal Highway to SE Dixie Highway, along with other areas within unincorporated Martin County. Although Monterey Road is not a designated road in the State's Strategic Intermodal System (SIS), the FEC Railroad is designated as an FDOT SIS railroad. The SIS includes Florida's important transportation facilities that support the state's economy and mobility. According to the S.R. 714/Monterey Road at FEC PD&E Traffic Forecasting Memorandum (April 2023), the Monterey Road at Florida East Coast (FEC) Railroad crossing currently accommodates approximately 25 train movements per day, consisting of 21 through freight trains and four switching trains. Traffic operations at this location are further constrained by congestion and queueing along nearby major roadways, including U.S. 1 and SE Dixie Highway. The Monterey Road/FEC Railroad crossing is closely spaced between adjacent intersections, with the Monterey Road/Dixie Highway intersection located approximately 118 feet from the rail crossing and the Monterey Road/U.S. 1 intersection located approximately 0.22 miles away. These short distances limit vehicle storage capacity and contribute to traffic backups during peak periods and train operations.

1.2.4 Transportation Demand

Monterey Road is currently operating at an overall Level of Service (LOS) D and is projected to operate at LOS E under future conditions, which is considered unsatisfactory. A contributing factor to the existing operational constraints is the maximum control delay threshold of 55 seconds at

the signalized intersection of Monterey Road and County Road (C.R.) A1A, which is frequently exceeded during peak travel periods. Traffic volumes within the project limits are expected to increase over the planning horizon. The Average Annual Daily Traffic (AADT) on Monterey Road east of U.S. 1 is approximately 27,000 vehicles per day under existing conditions and is projected to increase to approximately 32,500 vehicles per day by the 2045 design year, based on the S.R. 714/Monterey Road at FEC PD&E Traffic Forecasting Memorandum (April 2023).

In addition to existing freight operations, future rail activity is expected to increase. The Traffic Forecasting Memorandum indicates that the introduction of Brightline passenger rail service is anticipated to add approximately 15 additional trains per day. Given the frequency of train movements and the constrained roadway geometry, rail operations are a primary contributor to congestion at the Monterey Road/FEC Railroad crossing

1.2.5 Modal Interrelationships

Monterey Road accommodates a sidewalk along both the north and south sides west of C.R. A1A. East of C.R. A1A, Monterey Road only provides a sidewalk along the north side of the roadway. Designated bicycle lanes are not provided along Monterey Road within the project limits. A bicycle lane is provided along Monterey Road approximately 500 feet east of the C.R. A1A intersection. The study area is served by two bus transit routes, provided by Martin County Public Transit. Additionally, there are at least 10 school buses per school day that traverse the crossing. According to the Martin County Bicycle and Pedestrian Safety Action Plan (2016), Monterey Road at U.S. 1 is a bicycle and pedestrian crash hot spot and Monterey Road within the project limits is a high bicycle/pedestrian crash corridor.

1.2.6 Safety

According to the FEC Railroad Grade Separation Feasibility Study, 88 crashes in the vicinity of Monterey Road and the FEC railroad crossing have occurred in the last 5 years. However, none of the crashes included a train.

The Martin County Bicycle and Pedestrian Safety Action Plan includes countermeasures for reducing conflicts with bicycles, pedestrians, and vehicles, which will be considered for the project improvements. The goal of the FEC Railroad is to reduce conflicts and provide safe crossings for pedestrians. According to the Federal Rail Safety Improvements (Public Law 11-432-October. 16, 2008) SEC. 201 Pedestrian Crossing Safety, it is required by law for railroads to provide audible

and visual devices to warn pedestrians of approaching trains. Additionally, at railroad crossings, a pathway dedicated explicitly to the use of non-vehicular traffic such as pedestrians, bicyclists, and others is required.

1.2.7 Emergency Evacuation

Based on Martin County's Evacuation Routes Map, Monterey Road is classified as an evacuation route within the entire project limits. Additionally, Monterey Road is also within a designated hurricane evacuation zone, and this road serves as a route connecting high-risk flood zone neighborhoods and communities of Stuart and Hutchinson Island to more inland communities and evacuation shelters. Therefore, there is need to improve traffic flow and reliability at the intersection of Monterey Road and the FEC Railroad to support efficient evacuation movements during emergency events for the communities of Stuart and Hutchinson Island. There is also a need to reduce delays associated with railroad operations in order to improve emergency response times along this corridor. City of Stuart Fire Rescue Station #2 is located directly south of the project limits on Monterey Road, and reliable access along this roadway is necessary to allow the fire rescue vehicles to efficiently access the surrounding roadway network during an emergency.

1.3 PROJECT INVOLVEMENT CHECKLISTS

Table 1-1. Previous Planning Studies Checklist

Topic	Yes	No
Previous Planning Studies	☒	☐

Table1- 2. Engineering Considerations Checklist

Engineering Considerations	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Managed Lanes	☐	☒	☐	☐	☒
Railroad Crossings	☒	☐	☒	☒	☐
Lighting	☒	☐	☒	☒	☐
Aesthetic Features	☐	☒	☒	☒	☐
ITS/TSM&O	☐	☒	☒	☒	☐

Engineering Considerations	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Rest Areas, Weigh Stations, Truck Parking Areas	☐	☒	☐	☐	☒
Emergency Repairs	☐	☒	☐	☐	☒
Structure(s)	☐	☒	☒	☐	☒
Bridge(s)**	☐	☒	☒	☒	☐
Managed Lanes and Tolled Projects	☐	☒	☐	☐	☒
Interchanges on Interstate Highways	☐	☒	☐	☐	☒
Lane Repurposing	☐	☒	☐	☐	☒
Landscape	☐	☒	☐	☐	☒
Wildlife Crossings	☐	☒	☐	☐	☒
Sea Level Impact Protection Studies (SLIP Studies)	☐	☒	☐	☐	☒

Table1- 3. Bridge Considerations Checklist

Bridge Considerations	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Ship Impact Data	☐	☒	☐	☐	☒
Span Arrangement	☐	☒	☒	☒	☐
Historical Significance	☐	☒	☐	☐	☒

Bridge Considerations	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Geotechnical and Scour	☐	☒	☐	☐	☒
Channel Data	☐	☒	☐	☐	☒
Moveable Spans	☐	☒	☐	☐	☒
Normal and Mean High Water (coastal bridges)	☐	☒	☐	☐	☒
Bridge Security Issues	☐	☒	☐	☐	☒
Remaining Fatigue Life Estimate for Steel Bridges	☐	☒	☐	☐	☒

Table1- 4. Environmental Conditions Checklist

Environmental Conditions	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Social	☒	☐	☒	☒	☐
Economic	☒	☐	☒	☒	☐
Land Use Changes	☒	☐	☒	☒	☐
Mobility*	☒	☐	☒	☒	☐
Aesthetic Effects*	☐	☒	☒	☒	☐
Relocation Potential*	☐	☒	☒	☒	☐
Farmland	☒	☐	☐	☐	☒
Historic Sites/Districts	☒	☐	☒	☒	☐
Archaeological Sites	☒	☐	☒	☒	☐

Environmental Conditions	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Section 4(f) of the USDOT Act of 1966, as amended	☒	☐	☒	☒	☐
Section 6(f) of the Land and Water Conservation Fund Act of 1965	☒	☐	☒	☒	☐
Recreational Areas and Protected Lands	☐	☒	☐	☐	☒
Protected Species and Habitat	☒	☐	☒	☒	☐
Wetlands and Other Surface Waters	☒	☐	☒	☒	☐
Essential Fish Habitat (EFH)	☐	☒	☐	☐	☒
Floodplains*	☒	☐	☒	☒	☐
Sole Source Aquifer*	☐	☒	☐	☐	☒
Water Resources*	☒	☐	☐	☐	☒
Aquatic Preserves*	☐	☒	☐	☐	☒
Outstanding Florida Waters*	☐	☒	☐	☐	☒
Wild and Scenic Rivers	☐	☒	☐	☐	☒
Coastal Zone Consistency	☐	☒	☐	☐	☒
Coastal Barrier Resources	☐	☒	☐	☐	☒
Highway Traffic Noise	☒	☐	☒	☒	☐

Environmental Conditions	Existing Conditions: Present in Study Area	Existing Conditions: Not Present in Study Area	Proposed Conditions: Involved with Build Alternative(s)	Proposed Conditions: Involved with Preferred Alternative	Proposed Conditions: No Involvement
Air Quality	☐	☒	☐	☐	☒
Contamination	☒	☐	☒	☒	☐
Utilities and Railroads*	☒	☐	☒	☒	☐
Bicycles and Pedestrians*	☒	☐	☒	☒	☐
Navigation	☐	☒	☐	☐	☒
Construction*	☒	☐	☒	☒	☐

1.4 COMMITMENTS

The commitments will be included upon determination.

1.5 ALTERNATIVES ANALYSIS SUMMARY

A comprehensive alternatives analysis was conducted to identify a transportation solution that best addresses the project's purpose and need of improving traffic operations, system connectivity, safety, and emergency evacuation reliability at the SR 714/Monterey Road and FEC Railway crossing. Initially, alternatives analysis evaluated a No-Build Alternative ten concepts at a Tier I level, also known as a "Desktop." Three of the original concepts were carried forward as build Alternatives for detailed study. The Build Alternatives included various grade-separated crossing concepts intended to reduce delays associated with railroad operations while maintaining multimodal connectivity and access to surrounding properties.

Alternatives 1 and 2 proposed grade-separated improvements along the existing SR 714 corridor with new connections to SE Palm Beach Road. The primary difference between Alternatives 1 and 2 was the configuration and location of the proposed roadway connection east of the existing SR 714 and SE Dixie Highway intersection. Alternative 3 proposed a new grade-separated crossing approximately 0.5 mile south of the existing crossing utilizing improvements to SE Monterey Road Extension, SE Grumman Boulevard, SE Dixie Highway, and SE Airport Road. Alternative 3 also included extension of Mohawk Lane to maintain local property access and improve network connectivity.

The alternatives were evaluated based on transportation performance, safety, multimodal accommodations, right-of-way requirements, environmental considerations, compatibility with Martin County Airport/Witham Field operations, constructability, and estimated project costs. Coordination with the Federal Aviation Administration (FAA), Martin County Airport, Florida East Coast Railway, local agencies, and other stakeholders was an important consideration during the evaluation process because of the project's proximity to the Witham Field Runway Protection Zone and active railroad corridor.

Public and stakeholder feedback played a significant role in the alternatives evaluation process. Alternatives 1 and 2 did not received public support due to concerns regarding impacts to local properties, access changes, and their proximity to the airport runway protection zone. In addition, Alternatives 1 and 2 impacted the airspace associated with the primary runway of Witham Airfield, which was a concern. Alternative 3 received support because it minimizes direct interaction with the airport runway protection zone, provides improved system connectivity, maintains access to surrounding properties through the Mohawk Lane extension, and offers operational benefits while reducing conflicts at the existing railroad crossing..

1.6 DESCRIPTION OF PERFERRED ALTERNATIVE

The Preferred Alternative, identified as Alternative 3 previously referred to as Concept 10, includes SE Monterey Road Extension and SE Grumman Boulevard and providing a new grade-separated crossing/bridge over the FEC railroad approximately 0.5 miles south of the S.R. 714/Monterey Road and the FEC railroad crossing. A section of SE Dixie Highway and SE Airport Road will be raised to accommodate the grade-separated crossing. Mohawk Lane will be extended to the north to provide access to an existing shopping plaza that will lose its connection to SE Dixie Highway. The Preferred Alternative includes considerations for pedestrian and bicycle facilities. Right-of-way (ROW) acquisition will be required.

1.7 TECHNICAL DOCUMENTS

The following technical materials have been prepared to support this environmental document (alphabetical).

- *Access Management Plan, draft, dated …*
- *Advance Notification Package, dated February 2026*
- *Contamination Screening Evaluation Report, Draft, dated July 2026*
- *Cultural Resource Assessment Survey, dated September 2025*

- *Draft Case Study, dated August 2026*
- *Tier 1 Feasibility Whitepaper, dated August 2024, Updated January 2025*
- *Location Hydraulic Report, Draft dated April 2026*
- *Natural Resources Evaluation, Draft, dated September 2026*
- *Noise Study Report, Draft, dated August 2026*
- *Section 4(f), Draft, dated October 2026*
- *Office of Environmental Management (OEM) Pre-Screening Review Report, dated March 2026*
- *Pond Siting Report, dated August 2026*
- *Project Traffic Analysis Report (PTAR), dated December 2025*
- *Traffic Forecasting Memorandum, dated: April 2023*
- *Utility Assessment Package, dated October 2026*

2.0 EXISTING CONDITIONS

2.1 PREVIOUS STUDIES

Previous studies have taken place within the project area of influence. Information provided by those studies will be considered and built upon for this PD&E study. A list of the previous studies is provided below:

- *SR-714 (Monterey Road) Grade Separation Feasibility at Dixie Highway and FEC Railroad (May 2001)*
- *FEC Railroad Grade Separation Feasibility Study (August 10, 2017)*
- *Treasure Coast Congestion Assessment - Concept Development and Evaluation, SR-714/Monterey Road between SR-76/Kanner Highway and SR-A1A/Dixie Highway (September 2020)*
- *Feasibility Study Report SR-714 /Monterey Road, A1A /Dixie Highway, SE Palm Beach Road - Bicycle and Pedestrian Improvements Feasibility Study (July 2021)*
- *Traffic Forecasting Memorandum - SR 714/SE Monterey Road at FEC Railroad PD&E Project Traffic Report (April 2023)*
- *Witham Field Airport Master Plan (August 2023)*

2.2 EXISTING ROADWAY CONDITIONS

2.2.1 Roadway Typical Sections

SR 714/SE Monterey Road

The existing typical section for SR 714/SE Monterey Road is a five-lane undivided urban roadway from SR 76 to West of CR A1A/SE Dixie Highway, including a 12-foot two-way left turn lane. Travel lane widths vary between 11-13 feet as well as the existence and location of sidewalks. East of CR A1A/SE Dixie Highway, the typical section is a four-lane divided urban roadway and includes a 22-foot raised grassed median, four-foot bicycle lanes and sidewalk on north side of roadway. **Figures 2-1 to 2-3** provide the existing typical sections for SR 714/SE Monterey Road.

Figure 2-1: SR 714/SE Monterey Road from SR 76 to US 1/SE Federal Highway

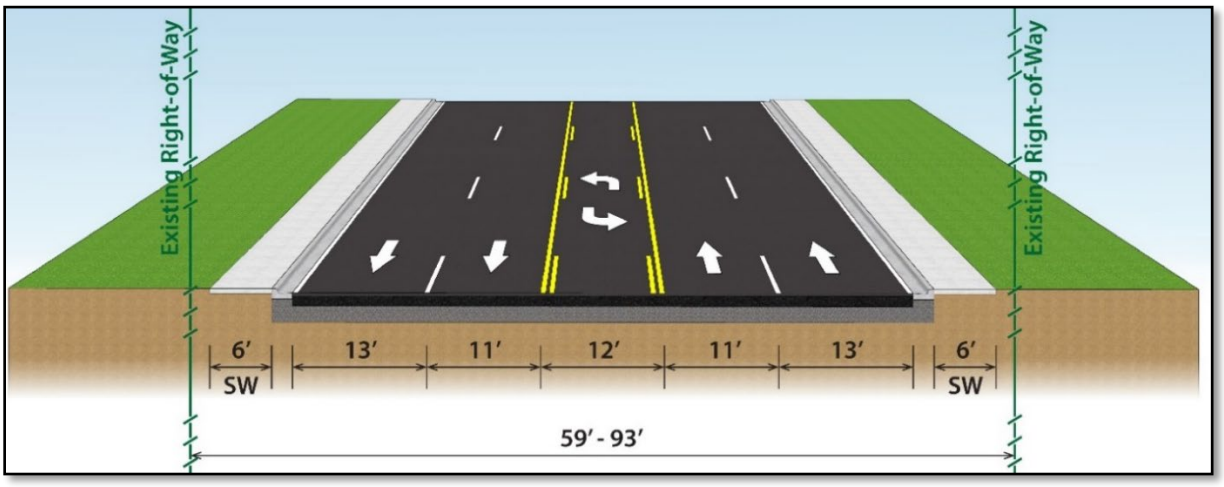


Figure 2-2: SR 714/SE Monterey Road west of CR A1A/SE Dixie Highway

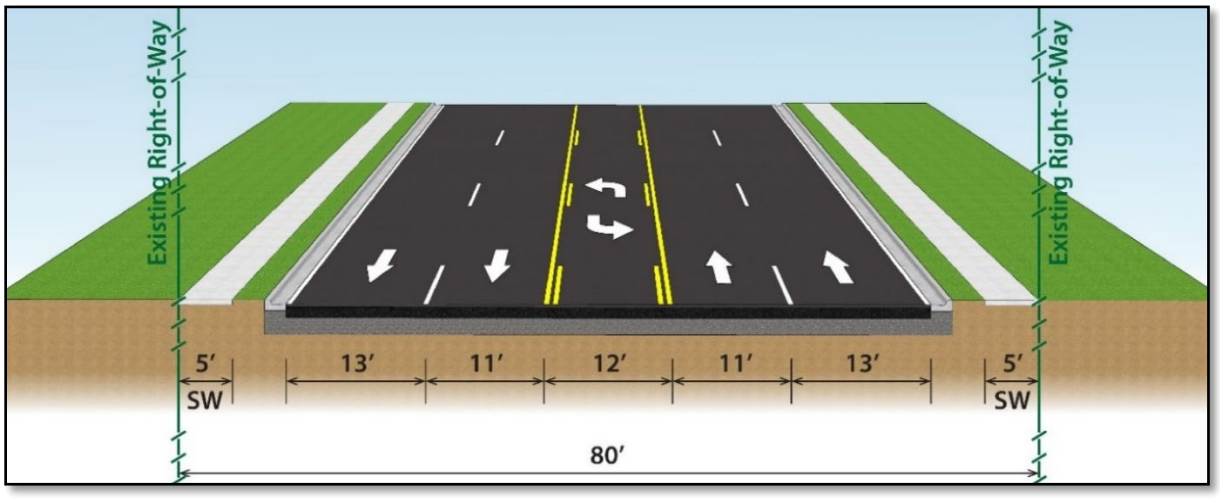
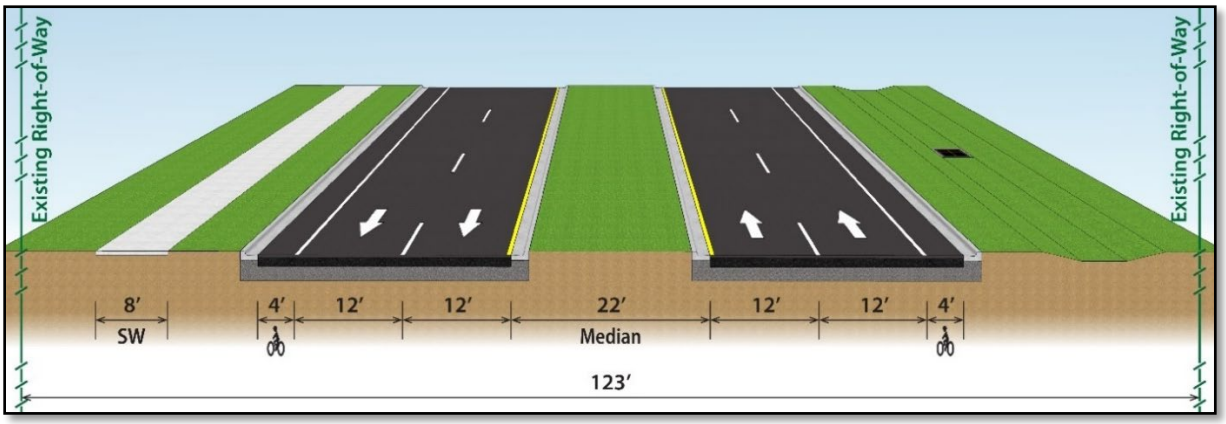


Figure 2-3: SR 714/SE Monterey Road east of CR A1A/SE Dixie Highway



CR A1A/SE Dixie Highway

The existing typical section for CR A1A/SE Dixie Highway varies dramatically on either side of SR 714/SE Monterey Road. South of SR 714/SE Monterey Road, CR A1A/SE Dixie Highway is a four-lane divided urban roadway with 12-foot travel lanes, a variable width (18-24 feet) raised grass median, Type F curb and gutter on the inside and outside, and five-foot on-street bicycle lanes. North of SR 714/SE Monterey Road, CR A1A/SE Dixie Highway is a two-lane undivided rural typical section with 10-foot travel lanes and 4-foot paved shoulders. **Figures 2-4 and 2-5** provide the existing typical sections for CR A1A/SE Dixie Highway.

Figure 2-4: CR A1A/SE Dixie Highway - South of SR 714/SE Monterey Road

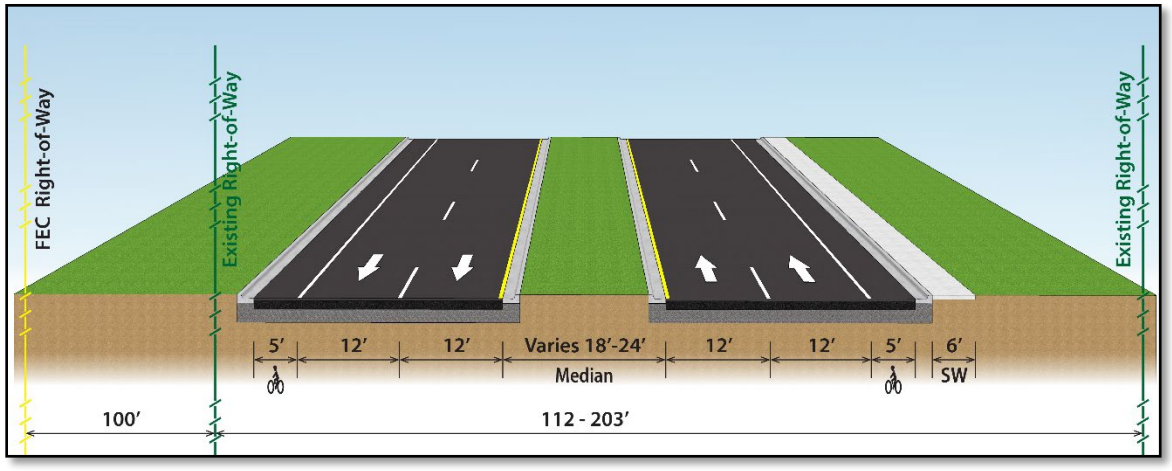
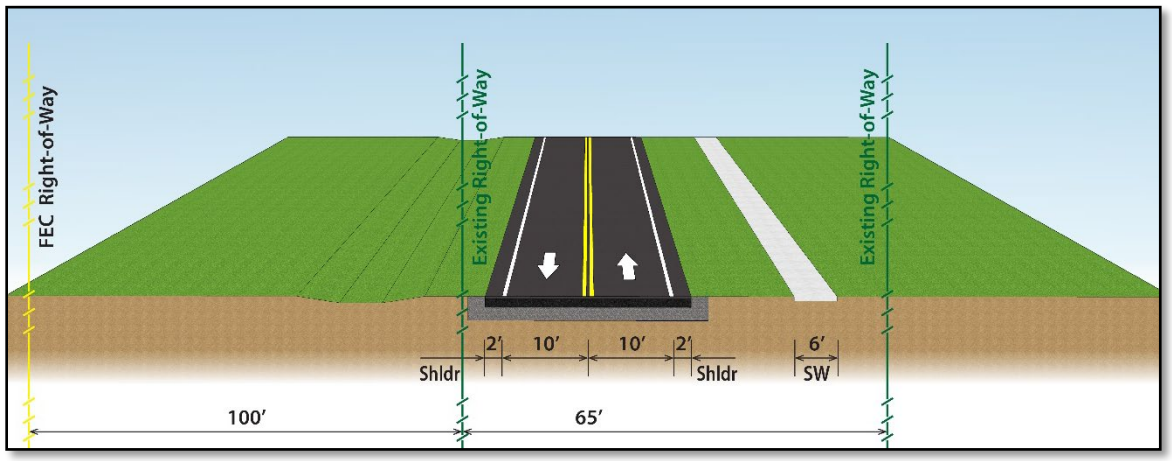


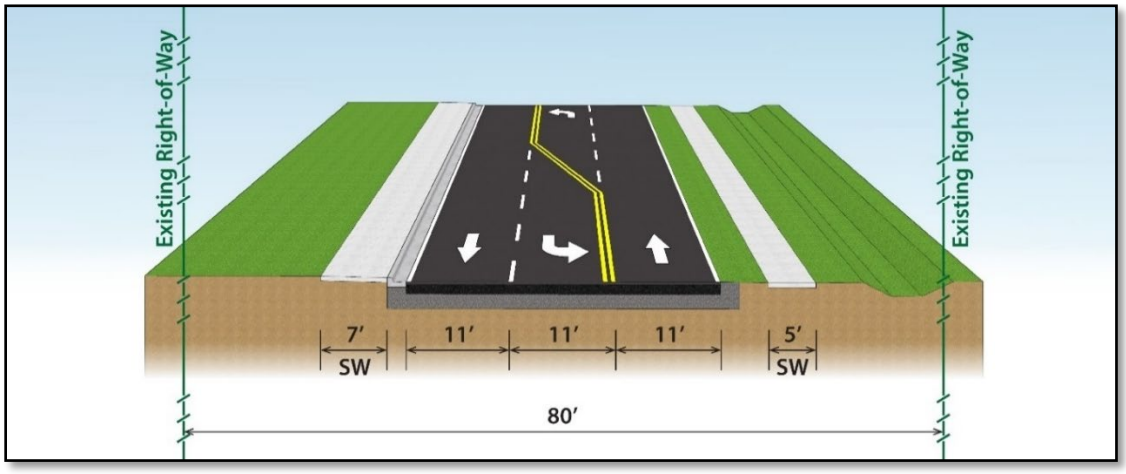
Figure 2-5: CR A1A/SE Dixie Highway - North of SR 714/SE Monterey Road



SE Monterey Road Extension

The existing typical section for SE Monterey Road Extension is a three-lane undivided urban roadway with 11-foot travel lanes, Type F curb and gutter on the north side, and flush shoulder on the south side. **Figure 2-6** provides the existing typical section for SE Monterey Road Extension.

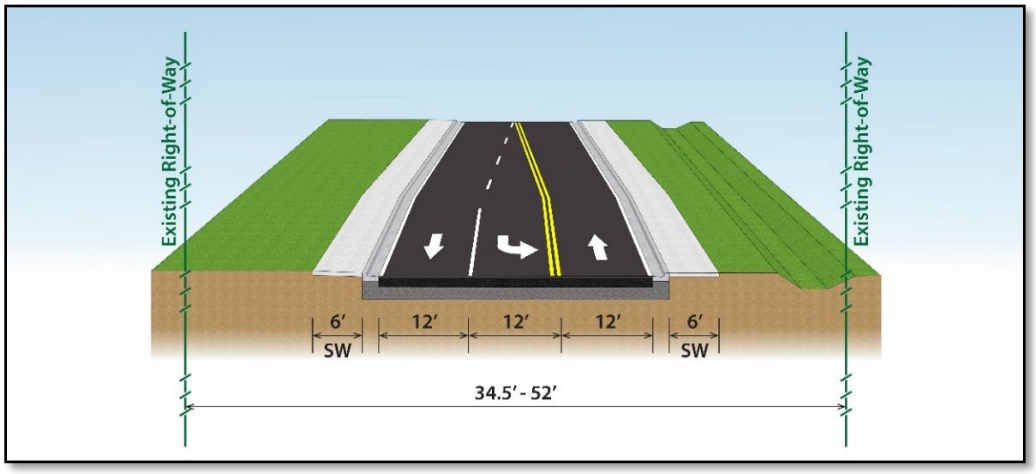
Figure 2-6: SE Monterey Road Extension between SR 714 and US 1



SE Grumman Boulevard

The existing typical section for SE Grumman Boulevard is a two-lane undivided urban roadway with 12-foot travel lanes, Type F curb and gutter on the outside, and 6-foot sidewalks. The roadway changes to a rural section to the dead end. **Figure 2-7** provides the existing typical sections for SE Grumman Boulevard.

Figure 2-7: SE Grumman Boulevard



2.2.2 Roadway Functional and Context Classification

The existing roadway functional classifications were derived from the FDOT Functional Classification Maps and the Martin County online GIS database. **Table 2-1** lists the respective functional classifications for each facility. SE Airport Road is a county local road and is the main entrance to the Martin County Airport/Witham Field and therefore classified as a Local Road.

Table 2-1: Existing Functional Classification

Facility	Segment	Classification
SR 714/SE Monterey Road	West of US 1/Federal Highway	Principal Arterial Urban
SR 714/SE Monterey Road	East of US 1/Federal Highway	Minor Arterial Urban
CR A1A/SE Dixie Highway	North of SR 714/SE Monterey Road	Major Collector Urban
CR A1A/SE Dixie Highway	South of SR 714/SE Monterey Road	Minor Arterial Urban
SE Monterey Road Extension	West of US 1/Federal Highway	Major Collector Urban
SE Grumman Boulevard	East of US 1/Federal Highway	Major Collector Urban
US1/SE Federal Highway	South of SR 714/SE Monterey Road	Principal Arterial Urban

The existing context classifications were derived from the FDOT Preliminary Context Classification GIS database. **Table 2-2** lists the respective context classifications for each facility. SE Monterey Road Extension and SE Grumman Boulevard are not a state road and therefore have no existing Context Classification.

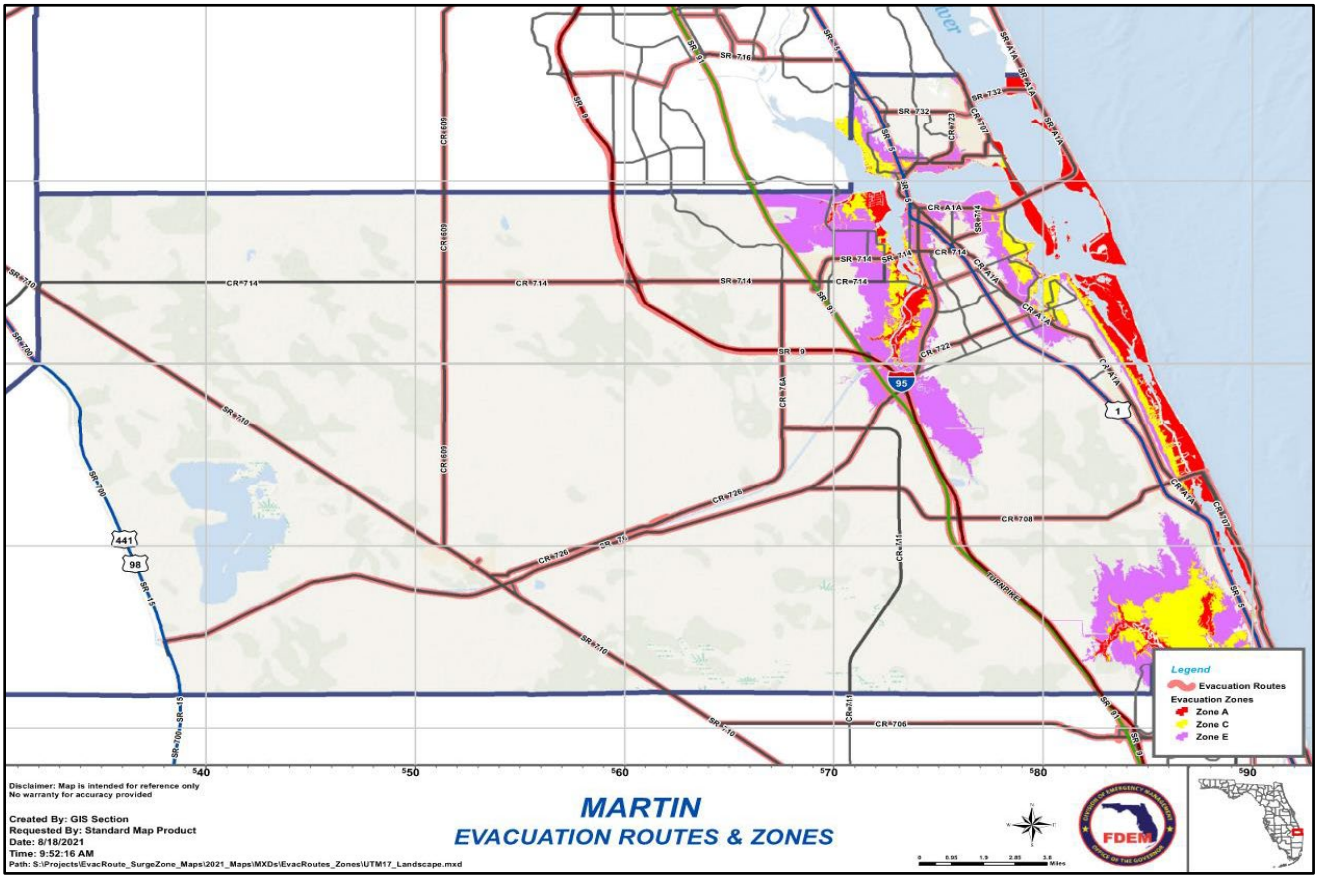
Table 2-2: Existing Context Classification

Facility	Begin	End	Classification
SR 714/SE Monterey Road	MP 0.000	MP 2.060	Urban General (C4)
CR A1A/SE Dixie Highway	MP 18.710	MP 19.630	Urban General (C4)
CR A1A/SE Dixie Highway	MP 17.760	MP 18.710	Suburban Commercial (C3C)
SE Monterey Road Extension	MP 0.000	MP 0.349	None
SE Grumman Boulevard	MP 0.000	MP 0.190	None
US1/SE Federal Highway	MP 18.530	MP 18.790	Suburban Commercial (C3C)

The Florida Division of Emergency Management has designated both SR 714/SE Monterey Road and CR A1A/SE Dixie Highway as hurricane evacuation routes however, the project study area does not fall within a designated evacuation zone. The surrounding coastal areas to the east,

north, and west all fall within Zone E. See **Figure 2-8** for a map of the existing evacuation routes and zones

Figure 2-8: Hurricane Evacuation Routes and Zones



2.2.3 Access Management Classification

The existing access management classifications were derived from the FDOT Access Management GIS database and/or identified based on the latest guidelines found in the FDOT Design Manual 2026 and the FDOT Multimodal Access Management Guidebook 2023.

SR 714 is designated Access Management Class 5 and 6 and US 1 is designated Access Management Class 5:

Access Management Class 5 has a restrictive median type and Access Management Class 6 has a non-restrictive median type. The connection spacing is 245 feet for less than or equal to 45

miles per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full. Signal spacing is 1,320 feet.

CR A1A/SE Dixie Highway is designated Access Management Class 3 and 4:

Access Management Class 3 has a restrictive median type and Access Management Class 4 has a non-restrictive median type. The connection spacing is 440 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 1320 feet for directional and 2640 feet for full. Signal spacing is 2,640 feet.

The existing access management classifications are listed in **Table 2-3.**

Table 2-3: Existing Access Management Classification

Facility	Segment	Classification
SR 714/SE Monterey Road	West of CR A1A/SE Dixie Highway	Class 6
SR 714/SE Monterey Road	East of CR A1A/SE Dixie Highway	Class 5
CR A1A/SE Dixie Highway	North of SR 714/SE Monterey Road	Class 4
CR A1A/SE Dixie Highway	South of SR 714/SE Monterey Road	Class 3
SE Monterey Road Extension	West of US 1/SE Federal Highway	None
SE Grumman Boulevard	East of US 1/SE Federal Highway	None
US 1 / SE Federal Highway	South of SR 714/SE Monterey Road	Class 5

SE Monterey Road Extension does not have a designated Access Management Class. This roadway segment is from SR 714 (SE Monterey Road) to US 1 (SE Federal Highway) with both intersections being signalized. The existing median type is non-restrictive, allowing turns across at any point with a 35 mph (posted speed). The existing access spacing is listed in **Table 2-4**. SE Grumman Boulevard does not have a designated Access Management Class. This roadway segment is from US 1 (SE Federal Highway) to dead end road with no posted speed. The existing median type is non-restrictive, allowing turns across at any point.

Table 2-4: Existing Access Management Spacing

Intersection Description	Station	Median Access Type	Existing Access Spacing (ft)	Existing Signal Spacing (ft)	Non-Compliant Spacing Difference (ft)
SR 714 / SE Monterey Road					
US 1 / SE Federal Highway	29+31	Signal	-	-	-
				1285	-35
CR A1A/SE Dixie Highway	42+15	Signal	-	-	-
CR A1A/SE Dixie Highway					
SE Witham Field Drive	144+95	Full	-	-	-
			865		
Airport Business Park	152+20	Full		-	-
			705		
SE Airport Road	160+10	Signal		-	-
			810	2660	
SR 714 / SE Monterey Road	186+70	Signal			-
SE Monterey Road Extension					
SR 714 / SE Monterey Road	73+89	Signal	-	-	-
			1038		
Elder Drive / Monterey Medical Center	84+25	Full	-	-	-
			639	1677	
US 1 / SE Federal Highway	90+66	Signal	-	-	-
SE Grumman Boulevard					
US 1 / SE Federal Highway	100+00	Signal	-	-	-
				850	
Dead End	108+50	Dead End	-	-	-
US 1 / SE Federal Highway					
SE Grumman Boulevard	991+00-	Signal	-	-	-
				1265	-55
SR 714 / SE Monterey Road	1003+00	Signal	-		

2.2.4 Right-of-Way

The existing roadway Right-of-Way (ROW) widths were derived from the latest available FDOT Right-of-Way (ROW) maps. The existing ROW for SR 714/SE Monterey Road and CR A1A/SE Dixie Highway are shown in **Table 2-5**

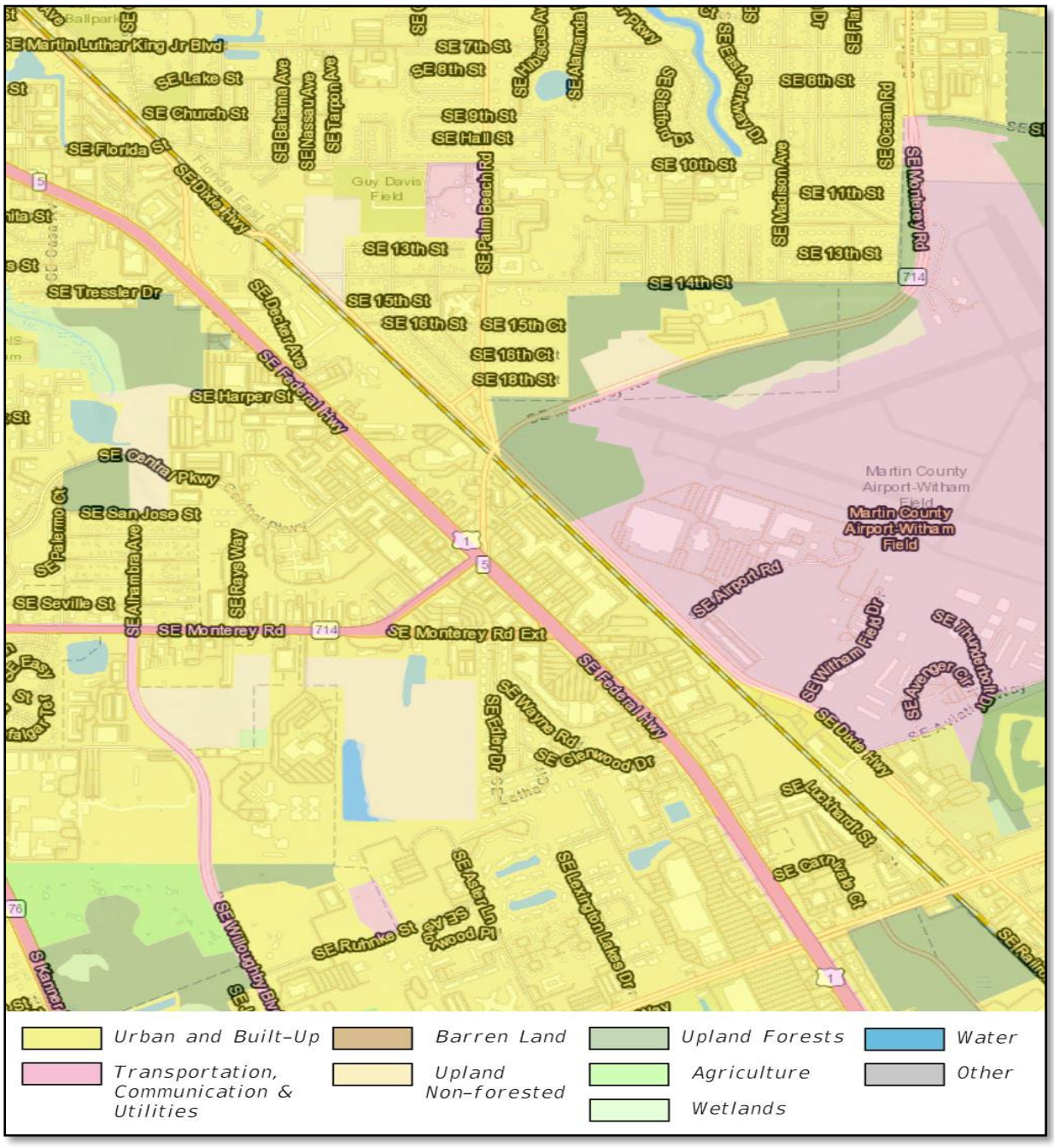
Table 2-5: Existing Right-of-Way Widths

Facility	Segment	Right-of-Way (feet)
SR 714/SE Monterey Road	West of US 1/Federal Highway	59-93
SR 714/SE Monterey Road	East of US 1/Federal Highway	123
CR A1A/SE Dixie Highway	North of SR 714/SE Monterey Road	65
CR A1A/SE Dixie Highway	South of SR 714/SE Monterey Road	112-203
SE Monterey Road Extension	West of US 1/Federal Highway	80
US 1 / SE Federal Highway	South of SR 714 / SE Monterey Road	133-145
SE Grumman Boulevard	North of US 1/Federal Highway	34-52

2.2.5 Adjacent Land Use and Martin County Airport/Witham Field

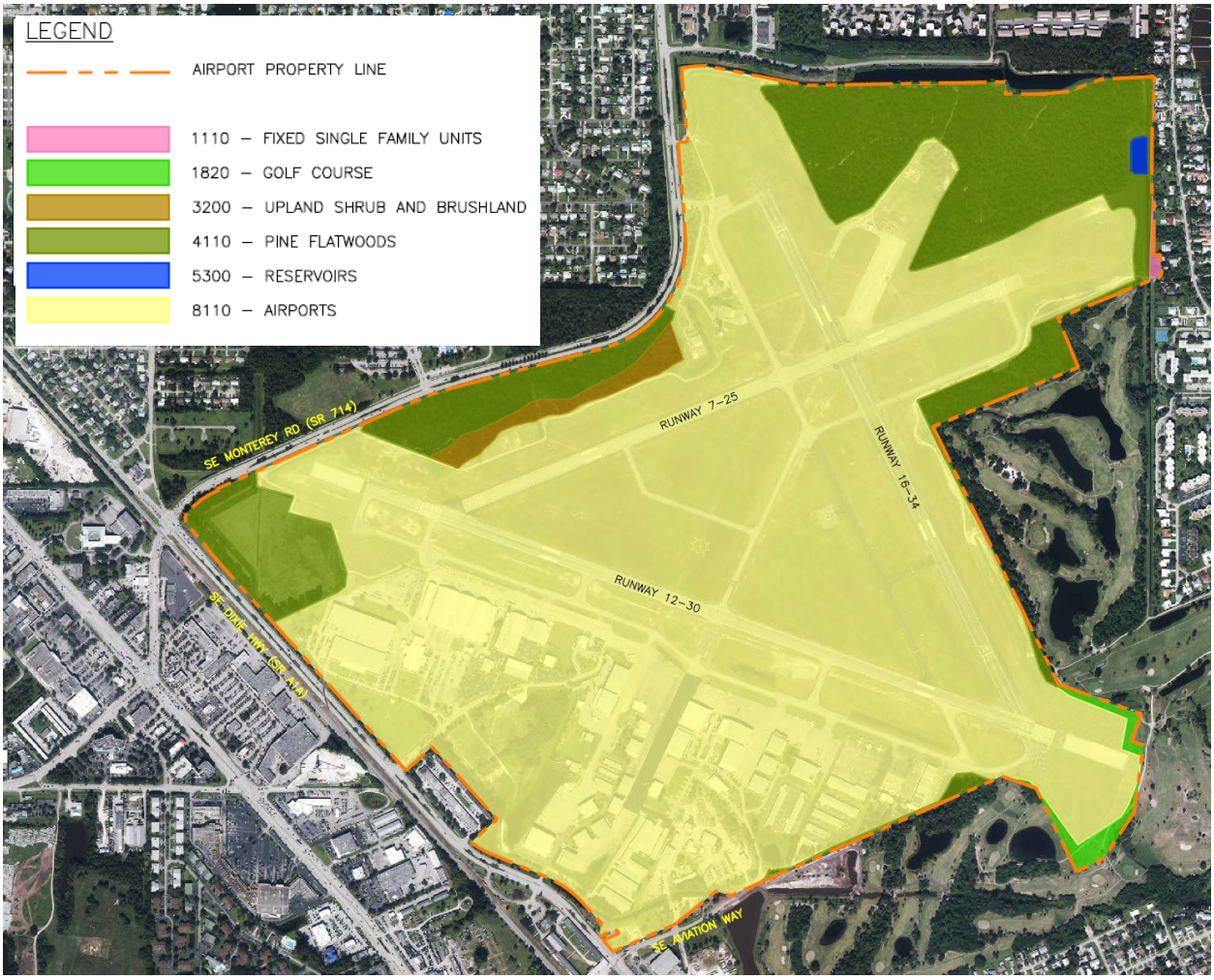
Existing Land Use (ELU) information was extracted from the South Florida Water Management (SFWM) Open Data Portal Administrator GIS Portal ("*SFWMD Land Cover Land Use 2017-2019*"). This data set represents the Land Cover and Land Use for 2017-2019 within the boundaries of the SFWM. The primary land uses along SR 714/SE Monterey Road and CR A1A/SE Dixie Highway include urban, commercial, Witham Field Airport, transportation/communication/utilities, and upland forests. Other surrounding land uses include upland non-forested, wetlands, agriculture, barren land, and water. See **Figure 2-9** for the existing land use map.

Figure 2-9: Existing Land Use Map



Martin County Airport/Witham Field existing airport land use and cover types have been mapped for Special Use Airspace (SUA) using the South Florida Water Management District (SFWMD) Florida Land Use, Cover, and Forms Classifications Systems (FLUCCS) data for Martin County. See **Figure 2-10** for the existing Witham Airfield land use map from Witham Field Airport Master Plan Final Report dated, August 2023.

Figure 2-10: Witham Airfield Land Use



2.2.6 Pavement Type and Condition

The FDOT All System Pavement Condition Forecast, dated February 6, 2024, for District 4 (Martin County), provides Distress Ratings for Cracking and Ride quality along SR 714/SE Monterey Road. The pavement forecast report indicates ratings by Mile Post (MP). For context, the intersection of SR 714/SE Monterey Road and US 1/SE Federal Highway lies at MP 1.314 and the intersection of SR 714/SE Monterey Road and CR A1a/SE Dixie Highway lies at MP 1.552. **Table 2-6** lists the most current "Cracking" and "Ride" ratings along SR 714/SE Monterey Road. Any rating less than or equal to 6.00 indicates pavement deficiency.

Table 2-6: S.R. 714 Existing Pavement Condition Ratings

Facility	Begin MP	End MP	Direction	Condition Category	Rating (0-10)	Year
SR 714/SE Monterey Road	0.000	1.314	Eastbound	Cracking	9.5	2024
				Ride	5.9	2024
			Westbound	Cracking	9.5	2024
				Ride	6.3	2024
	1.314	1.633	Eastbound	Cracking	9.5	2024
				Ride	5.6	2022
			Westbound	Cracking	9.5	2024
				Ride	5.7	2022
	1.633	3.166	Eastbound	Cracking	10.0	2024
				Ride	7.4	2024
			Westbound	Cracking	10.0	2024
				Ride	7.3	2024

The segment of SE Monterey Road Extension, between SR 714/SE Monterey Road and US 1/SE Federal Highway, has been resurfaced in the last three years. The pavement is in overall good condition.

CR A1A/SE Dixie Highway does not information maintained on the FDOT Pavement Condition Forecast Reports. Site review indicates that the pavement south of SR 714/SE Monterey Road is in good condition. North of SR 714/SE Monterey Road, the existing pavement includes numerous areas of transverse and longitudinal cracking.

2.2.7 Existing Design and Posted Speed Limits

Existing posted speed for SR 714/SE Monterey Road, CR A1A/SE Dixie Highway, US 1 / SE Federal Highway, SE Monterey Road Extension and SE Grumman Boulevard are listed in **Table 2-7.**

Table 2-7: Existing Posted Speeds

Facility	Speed Limit (mph)
SR 714/SE Monterey Road	40
CR A1A/SE Dixie Highway - North of SR 714/SE Monterey Road	40
CR A1A/SE Dixie Highway - South of SR 714/SE Monterey Road	45
SE Monterey Road Extension	35
US 1/SE Federal Highway	45
SE Grumman Boulevard	None

2.2.8 Horizontal Alignment

The existing horizontal alignment data was extracted from the latest available FDOT ROW maps, survey and As-Built plans. **Table 2-8** provides a breakdown of the alignment data for each roadway segment.

SR 714/SE Monterey Road

Within the project study area, SR 714/SE Monterey Road contains five horizontal curves. The existing FDOT ROW maps are divided at US 1/SE Federal Highway and therefore the existing stationing is not continuous throughout the corridor.

CR A1A/SE Dixie Highway

Within the project study area, CR A1A/SE Dixie Highway contains zero horizontal curves, and runs along a southeast to the northwest alignment and intersects with SR 714/SE Monterey Road. The roadway is comprised of three tangents, with slight deflections in the alignment at each point of intersection.

SE Palm Beach Road

Within the project study area, SE Palm Beach Road contains two horizontal curves and runs north from the intersection with SR 714/SE Monterey Road.

SE Monterey Road Extension

Within the project study area, SE Monterey Road Extension contains zero horizontal curves, and runs along an east-west alignment. The roadway is comprised of two tangents, with slight deflections in the alignment at the point of intersection.

US 1/SE Federal Highway

Within the project study area, US 1/SE Federal Highway contains zero horizontal curves and runs along a north-west alignment. The roadway is comprised of one tangent, no deflections in the alignment at the point of intersection.

SE Grumman Boulevard

Within the project study area, SE Grumman Boulevard contains zero horizontal curves and runs along an east-west alignment. The roadway is comprised of one tangent, no deflections in the alignment at the point of intersection.

Table 2-8: Horizontal Alignment

Begin	End	Type	Bearing	Length (ft)	Radius (ft)	Degree of Curvature
SR 714/SE Monterey Road						
Survey Sta. 91+24.79 (SR 76/Kanner Hwy)	Sta. 131+40.36	Tangent	S 89° 38' 19" E	4,15.57	N/A	N/A
Sta. 131+40.36	Sta. 137+12.28	Curve	N/A	571.92	775.00	07° 23' 35"
Sta. 137+12.28	Sta. 147+09.93	Tangent	N 48° 04' 45" E	997.64	N/A	N/A
Sta. 28+91.73 (US 1)	Sta 35+49.18	Tangent	N 00° 30' 48" E	657.45	N/A	N/A
Sta 35+49.18	Sta. 37+42.24	Curve	N/A	193.06	5,729.58	01° 00' 00"
Sta. 37+42.24	Sta. 46+84.61	Curve	N/A	942.37	800.00	07° 09' 43"
R/W Map: Sta. 46+84.61	Sta. 64+07.05	Tangent	N 66° 04' 31" E	1,722.44	N/A	N/A
Sta. 64+07.05	Sta. 67+24.85	Curve	N/A	317.81	2,000.00	02° 51' 53"
Sta. 67+24.85	Sta. 79+97.88	Tangent	N 75° 10' 47" E	1,273.03	N/A	N/A
Sta. 79+97.88	Sta. 91+11.26	Curve	N/A	1,113.37	800.00	07° 09' 43"
CR A1A/SE Dixie Highway						
Survey Sta. 159+00.00	Sta. 179+98.02	Tangent	N 42° 00' 26" W	2098.02	N/A	N/A
Sta. 179+98.02	Sta. 202+91.44	Tangent	N 41° 53' 18" W	2,293.42	N/A	N/A
R/W Map Sta. 202+91.44	Sta. 218+40.72	Tangent	N 41° 32' 43" W	1,549.28	N/A	N/A
SE Palm Beach Road						
Survey Sta. 9+00.48	Sta. 10+03.39	Curve	N/A	102.91	400.00	14° 19' 26"
Sta. 10+03.39	Sta. 11+62.74	Tangent	N 19°04'06" W	159.35	N/A	N/A
Sta. 11+62.74	Sta. 14+23.15	Curve	N/A	260.41	776.00	07° 23' 01"
Sta. 14+23.15	Sta 17+23.15	Tangent	N 00° 09' 33" E	300.00	N/A	N/A
SE Monterey Road Extension						
Survey Sta. 70+16.09	Sta. 82+82.79	Tangent	S 89° 38' 19" E	1266	N/A	N/A
Sta. 82+82.79	Sta. 90+66.24	Tangent	S 89° 53' 57" E	783.46	N/A	N/A
US 1 / SE Federal Highway						
Survey Sta. 990+90.84	Sta. 1034+00	Tangent	N 41° 55' 37" W	4309.16	N/A	N/A
SE Grumman Boulevard						
As-built: Sta. 10+03.15	Sta. 14+60.00	Tangent	S 89° 25' 27" E	456.85	NA	NA

2.2.9 Vertical Alignment

Within the project study area, the topography is relatively flat with little variance in elevation. Through research of FDOT projects, available as-built plans were for rehabilitation projects that lacked profile information. Vertical alignment evaluation was conducted using field reviews.

Along SR 714/SE Monterey Road, approaching the intersection at CR A1A/SE Dixie Highway, there is a slight vertical curve, identified in the rise of the roadway through the intersection. Beyond that, there does not appear to be any vertical curves along SR 714/SE Monterey Road, CR A1A/SE Dixie Highway, or SE Monterey Road Extension.

2.2.10 Multimodal Facilities

2.2.10.1 Pedestrian Accommodations

SR 714/SE Monterey Road

West of CR A1A/SE Dixie Highway, SR 714/SE Monterey Road has existing five-foot sidewalks along both sides of the road. The location of the sidewalks varies between adjacent to the back of curb and offset from the back of curb, with no discernable pattern. East of CR A1A/SE Dixie Highway, SR 714/SE Monterey Road has an existing five-foot sidewalk along the north side of the road but no pedestrian facilities along the south side of the road. Approximately 500 feet from the intersection with CR A1A/SE Dixie Highway, the sidewalk widens to eight feet. The sidewalk is offset from the back of curb, maintaining a minimum separation of three feet. Signalized intersections along SR 714/SE Monterey Road include painted crosswalks, ADA detectable warning pads, and pedestrian signals with pushbutton activation.

CR A1A/SE Dixie Highway

There is an existing sidewalk along the east side of CR A1A/SE Dixie Highway, throughout the project study limits. There are limited pedestrian facilities along the west side of the road. On the east side, south of SR 714/SE Monterey Road, the existing sidewalk is six-foot wide and adjacent to the back of curb. North of SR 714/SE Monterey Road, the existing sidewalk is five-foot wide and is offset from the edge of the paved shoulder by a minimum of eight-foot. On the west side of the roadway, south of Airport Road, the existing sidewalk is six-foot wide and meanders between the back of curb and ROW. The intersection of CR A1A/SE Dixie Highway and SE Christie Way does not include crosswalks east-west and does not include ADA detectable warning pads.

The remainder of the signalized intersections along CR A1A/SE Dixie Highway include painted crosswalks, ADA detectable warning pads, and pedestrian signals with pushbutton activation.

SE Monterey Road Extension

There is an existing sidewalk along the north and south sides of SE Monterey Road Extension. The sidewalk along the north side of the road ends at Monterey Triangle business park. The existing sidewalk is six feet wide on both the north and south sides. The north sidewalk is adjacent to the back of the curb while the sidewalk on the south is offset from the edge of pavement, maintaining a minimum separation of three feet. Signalized intersections along SE Monterey Road Extension include painted crosswalks, ADA detectable warning pads, and pedestrian signals with pushbutton activation.

2.2.10.2 Bicycle Facilities

Within the project study area, there are no bicycle pavement messages, only lane lines. There are no existing multi use trails or shared use paths within the study area, however, the East Coast Greenway has been partially funded and may traverse through the project study area at some point in the future.

SR 714/SE Monterey Road

Within the area of the FEC railroad, there are no designated bicycle lanes along SR 714/SE Monterey Road. However, the roadway does classify as a sharrow bicycle lane between mile post 1.09 and 1.65. West of CR A1A/SE Dixie Highway, SR 714/SE Monterey Road does not have any existing bicycle facilities. East of CR A1A/SE Dixie Highway, SR 714/SE Monterey Road has existing four-foot on-street bicycle lanes. These facilities begin approximately 600 feet east of the intersection with CR A1A/SE Dixie Highway and continue east outside of the project study area.

CR A1A/SE Dixie Highway

South of SR 714/SE Monterey Road, CR A1A/SE Dixie Highway has an existing five-foot on-street bicycle lane. These facilities begin approximately 1,000 feet south of the intersection with SR 714/SE Monterey Road and continue south, outside of the project study area. North of SR 714/SE Monterey Road, CR A1A/SE Dixie Highway does not have any existing bicycle facilities.

SE Monterey Road Extension

There are no designated bike lanes along SE Monterey Road Extension.

2.2.10.3 Transit Facilities

Martin County Public Transit (MARTY) provides bus services throughout the project study area. Route 1 runs along SE Federal Highway and Route 3 runs along portions of both SR 714/SE Monterey Road and CR A1A/SE Dixie Highway. Stop IDs 914 and 915, at the intersection of SR 714/SE Monterey Road and SE Federal Highway, have the potential to be impacted by the proposed alternatives. Stop IDs 939 and 940, at the intersection of CR A1A/SE Dixie Highway and SE Aviation Way, are outside of the area of proposed improvements and will remain with little to no impact. See **Figure 2-11** for the limits of existing MARTY Route 1 (shown in pink) and 3 (shown in blue).

Figure 2-11: Existing Martin County Public Transit Route Map

2.2.11 Intersections

There are seven signalized intersections within the project study area. The signalized intersections are listed in **Table 2-9**. See **Figure 2-12** for a map of the existing signalized intersections.

Figure 2-12: Existing Signalized Intersections

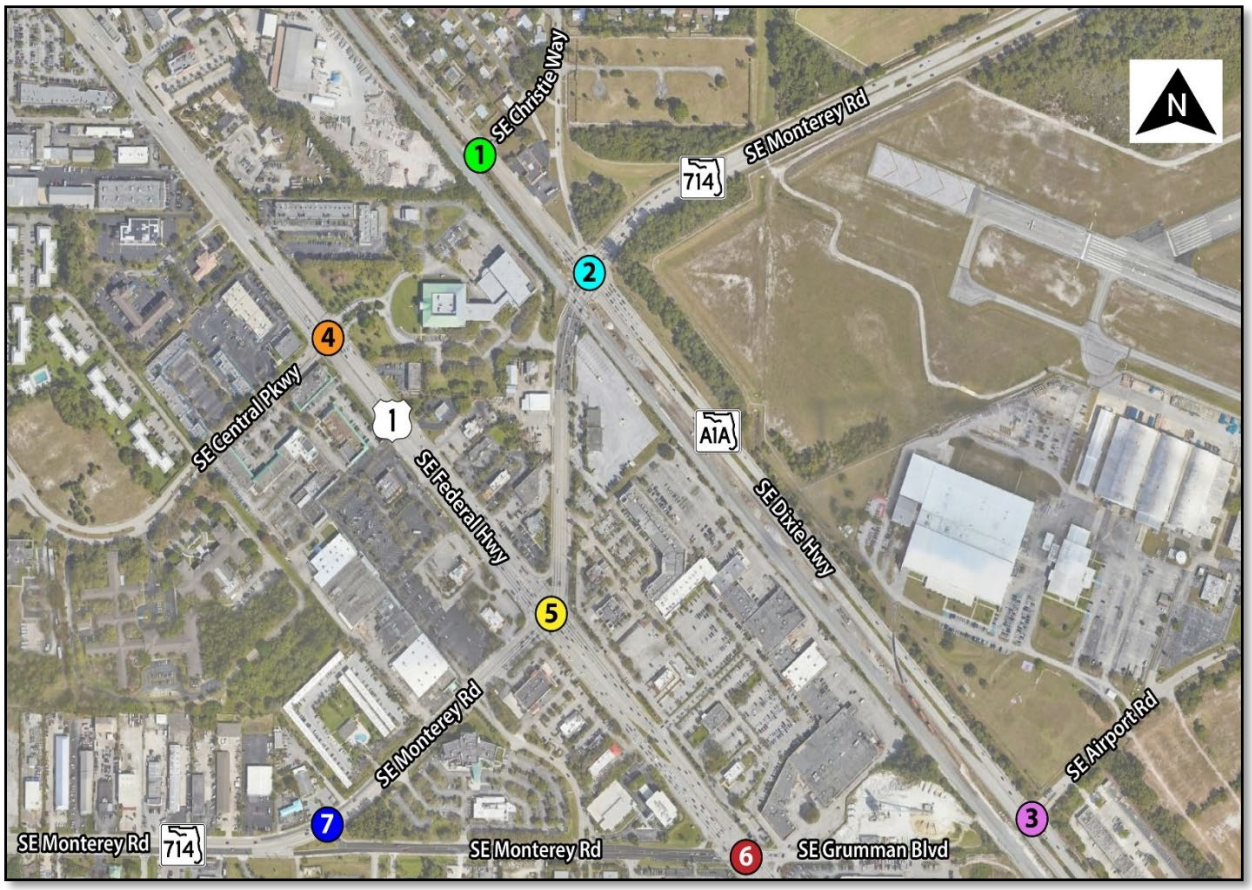


Table 2-9: Existing Signalized Intersections

Intersection	Roadway 1	Roadway 2
1	CR A1A/SE Dixie Highway	SE Christie Way
2	CR A1A/SE Dixie Highway	SR 714/SE Monterey Road and SE Palm Beach Road
3	CR A1A/SE Dixie Highway	SE Airport Road
4	US 1/SE Federal Highway	SE Central Parkway
5	US 1/SE Federal Highway	SR 714/SE Monterey Road
6	US 1/SE Federal Highway	SE Monterey Road Extension and SE Grumman Blvd
7	SR 714/SE Monterey Road	SE Monterey Road Extension

These seven existing signalized intersections are summarized below.

1. CR A1A/SE Dixie Highway and SE Christie Way

The intersection of CR A1A/SE Dixie Highway and SE Christie Way is a signalized, three-legged T-intersection, with SE Christie Way intersecting from the east. CR A1A/SE Dixie Highway runs along

a southeast to northwest alignment. In the westbound direction, SE Christie Way provides a dedicated left turn lane and a shared left/right turn lane. In the northbound direction, CR A1A/SE Dixie Highway provides a single thru lane and in the southbound direction CR A1A/SE Dixie Highway provides two thru lanes. There is existing vehicle detection technology for all approach legs, mounted on the concrete strain poles.

2. CR A1A/SE Dixie Highway and SR 714/SE Monterey Road

The intersection of CR A1A/SE Dixie Highway and SR 714/SE Monterey Road is signalized and located just east of the FEC railroad. CR A1A/SE Dixie Highway runs along a southeast to northwest alignment. SR 714/SE Monterey Road intersects CR A1A/SE Dixie Highway on a horizontal curve that runs from southwest to northeast. In the westbound direction, SR 714/SE Monterey Road provides a dedicated left turn lane, a thru lane, and a shared thru/right turn lane. In the eastbound direction, SR 714/SE Monterey Road provides a dedicated left turn lane, a thru lane, and a shared thru/right turn lane. In the northbound direction, CR A1A/SE Dixie Highway provides a dedicated left turn lane, two thru lanes, and a dedicated right turn lane. One thing to note is that the receiving lane for the eastern most thru lane is SE Palm Beach Road, which is aligned to the north. In the southbound direction, CR A1A/SE Dixie Highway provides a dedicated left turn lane, two thru lanes, and a dedicated right turn lane. There is existing vehicle detection technology for all approach legs. In the northbound and southbound directions, the vehicle detection technology is mounted on the mast arms, in the westbound and eastbound directions, the technology is mounted on the railroad crossing steel mast arms.

3. CR A1A/SE Dixie Highway and SE Airport Road

The intersection of CR A1A/SE Dixie Highway and SE Airport Road is a signalized, three-legged t-intersection, with SE Airport Road intersecting from the east. CR A1A/SE Dixie Highway runs along a southeast to northwest alignment. In the westbound direction, SE Airport Road provides a dedicated left turn lane and right turn lane. In the northbound direction, CR A1A/SE Dixie Highway provides two thru lanes and a dedicated right turn lane. In the southbound direction, CR A1A/SE Dixie Highway provides two thru lanes and a dedicated left turn lane. There is existing vehicle detection technology for all approach legs, mounted on the signal mast arms.

4. US 1/SE Federal Highway and SE Central Parkway

The intersection of SE Federal Highway and SE Central Parkway is signalized and located at the entrance to the Martin County School District. SE Federal Highway runs along a southeast to northwest alignment. SE Central Parkway intersects SE Federal Highway on a southwest to

northeast alignment. In both the westbound and eastbound directions, SE Central Parkway provides a shared thru/left turn lane and a dedicated right turn lane. In the northbound direction, SE Federal Highway provides a dedicated left turn lane, two thru lanes, and a shared thru/right turn lane. In the southbound direction, SE Federal Highway provides a dedicated left turn lane, two thru lanes, and a dedicated right turn lane. There is existing vehicle detection technology for all approach legs, mounted on the signal mast arms.

5. US 1/SE Federal Highway and SR 714/SE Monterey Road

The intersection of SE Federal Highway and SR 714/SE Monterey Road is signalized. SE Federal Highway runs along a southeast to northwest alignment. SR 714/SE Monterey Road intersects SE Federal Highway on a horizontal curve that runs from southwest to northeast. In the westbound direction, SR 714/SE Monterey Road provides a dedicated left turn lane, two thru lanes, and a dedicated right turn lane. In the eastbound direction, SR 714/SE Monterey Road provides a dedicated left turn lane, two thru lanes, and a dedicated right turn lane. In both the northbound and southbound directions, SE Federal Highway provides two dedicated left turn lanes, three thru lanes, and a dedicated right turn lane. There is existing vehicle detection technology for all approach legs, mounted on the signal mast arms.

6. US 1/SE Federal Highway and SE Monterey Road Extension/Grumman Boulevard

The intersection of SE Federal Highway and SE Monterey Road Extension/Grumman Boulevard is signalized. SE Federal Highway runs along a southeast to northwest alignment. SE Monterey Road Extension/Grumman Boulevard runs along an east-west alignment. In the westbound direction, Grumman Boulevard provides a dedicated left turn lane and a shared thru/right turn lane. In the eastbound direction, SE Monterey Road Extension provides a dedicated left turn lane, a thru lane, and a dedicated right turn lane. In both the northbound and southbound directions, SE Federal Highway provides a dedicated left turn lane, three thru lanes, and a dedicated right turn lane. There is existing vehicle detection technology for all approach legs, mounted on the signal mast arms.

7. SR 714/SE Monterey Road and SE Monterey Road Extension

The intersection of SR 714/SE Monterey Road and SE Monterey Road Extension is a signalized, three-legged T-intersection, with SE Monterey Road Extension intersecting from the east. SE Monterey Road Extension intersects SR 714/SE Monterey Road along a horizontal curve that runs along a southwest to northeast alignment. In the westbound direction, SE Monterey Road Extension provides a dedicated left turn lane and a shared left/right turn lane. In the northbound

direction, SR 714/SE Monterey Road provides dedicated left-turn lane, two thru lanes, and a direct connection to SE Monterey Road Extension, essentially acting as a right turn. In the southbound direction SR 714/SE Monterey Road provides two thru lanes. There is existing vehicle detection technology for all approach legs, mounted on the signal mast arms.

2.2.12 Physical and Operational Restrictions

The project study area is constrained by several physical and operational features that influence the development and evaluation of alternatives. The most significant physical constraints are the Florida East Coast (FEC) Railway corridor and Martin County Airport/Witham Field. The FEC Railway is an FDOT Strategic Intermodal System (SIS) facility that operates three rail lines within a 100-foot railroad right-of-way. The close proximity of the existing railroad crossing to the SR 714/Monterey Road and CR A1A/SE Dixie Highway intersection limits vehicle storage, contributes to congestion, and constrains potential roadway improvements.

Witham Field, a Martin County Airport, is located immediately east of the project corridor. Portions of the study area are located within the airport's Runway Protection Zone (RPZ), requiring coordination with the Federal Aviation Administration (FAA) and Martin County Airport. FAA guidance limits the placement of new roadways and intersections within the Arrival RPZ, making airport compatibility a major factor in alternative development and evaluation. Existing SR 714 is grandfathered within the RPZ; therefore, minimizing impacts to airport operations and maintaining compatibility with airport safety requirements are key project considerations.

Additional physical constraints include existing commercial, industrial, airport-related, and residential development adjacent to the roadway corridors, limited available ROW in several locations, extensive utility infrastructure, existing drainage facilities, and access requirements for surrounding properties and businesses.

Operational constraints include existing congestion along SR 714/Monterey Road, CR A1A/SE Dixie Highway, and US 1, traffic delays associated with railroad operations, closely spaced signalized intersections, multimodal accommodations for pedestrians, bicyclists, and transit users, and the corridor's function as a designated hurricane evacuation route and emergency response corridor. Maintaining traffic operations, railroad operations, airport access, emergency response access, and connectivity for surrounding businesses during construction and under future conditions are critical operational considerations for the project.

2.2.13 Traffic Data

Traffic data collection occurred during September 2022. A breakdown of the existing annual average daily traffic (AADT) volumes and existing traffic factors are provided in **Table 2.10 and 2.11**, respectively.

Table 2-10: Existing Annual Average Daily Traffic (AADTs) 2022

Location	2022 AADT
SR714/SE Monterey Road, west of US 1/SE Federal Highway	20,500
SR714/SE Monterey Road, east of US 1/SE Federal Highway	27,000
SR714/SE Monterey Road, east of CR A1A/SE Dixie Highway	23,000
CR A1A/SE Dixie Highway, north of SR714/SE Monterey Road	13,500
CR A1A/SE Dixie Highway, south of SR714/SE Monterey Road	19,500
SE Monterey Road Extension	N/A
US / SE Federal Highway, south of Monterey Road	41,000

Table 2-11: Traffic Factors

Location	K%	D%	T%
SR714/SE Monterey Road, west of US 1/SE Federal Highway	9.0	58.6	9.0
SR714/SE Monterey Road, east of US 1/SE Federal Highway	9.0	58.6	6.0
SR714/SE Monterey Road, east of CR A1A/SE Dixie Highway	N/A	N/A	N/A
CR A1A/SE Dixie Highway, north of SR714/SE Monterey Road	9.0	58.6	7.0
CR A1A/SE Dixie Highway, south of SR714/SE Monterey Road	9.0	58.6	7.0
SE Monterey Road Extension	N/A	N/A	N/A
US 1/SE Federal Highway, south of Monterey Road	9.0	58.6	7.0

K = Design Hour Factor
D = Directional Distribution Factor
T = Truck Factor

2.2.14 Roadway Operational Conditions

According to the Martin County MPO FEC Railroad Grade Separation Feasibility Study (2017), Monterey Road currently operates at an overall Level of Service (LOS) D and is expected to operate below satisfactory levels at a LOS E by 2040. A contributing factor to the current LOS is the threshold for the maximum control delay at the signalized intersection of SR 714/SE Monterey Road and CR A1A/SE Dixie Highway, which is 55 seconds. Although the current LOS is considered

satisfactory, a LOS E is considered unsatisfactory. Within the project study limits, existing LOS data is not available for SE Monterey Road Extension or CRA1A/SE Dixie Highway.

Additionally, a detailed operational analysis for the Existing Year 2022 was performed for the 17 study area intersections

Table 2-12: Overall Intersection Delay and LOS

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 76/Kanner Highway	59.4	E	82.4	F
SR714/SE Monterey Road at Monterey Road Extension	28.3	C	60.2	E
SR714/SE Monterey Road at SR 5/US 1	42.4	D	57.5	D
SR714/SE Monterey Road at CR A1A/SE Dixie Highway	43.6	D	49.6	D
CR A1A at Decker Avene/SE Railroad Avenue	15.2	C	16.3	C
CR A1A at Christie Way	18	B	20.5	C
CR A1A at SE Aviation Way	6.9	A	6.5	A
CR A1A at SE Airport Road	16.7	B	19.7	B
CR A1A between US 1 and A1A	14.5	B	16.5	C
CR A1A at SE Indian Street	39.3	D	53.3	D
US 1 at SR 5A	39.5	E	225.3	F
US 1 at Decker Avenue	21.3	C	42.5	E
US 1 at Central Parkway	29.1	C	45.8	D
US 1 at Monterey Road Extension/Grumman Boulevard	19.6	C	38.3	D
US 1 at Luckhardt Street	13.8	B	17.9	B
US 1 at SE Indian Street	45.7	D	59	E
SR 5A between US 1 and CR A1A	10.4	B	10.2	B
SR714/SE Monterey Road at Willoughby Boulevard	91.1	F	50.3	D
SR714/SE Monterey Road at SE Ray's Way	14.7	B	35	E

2.2.15 Safety Data

A review of crash data from 2019 to 2023 was performed for roadway segments and key intersections within the study limits. A total of 1632 crashes occurred along the roadway segments while 735 were associated with the key intersections. Among the roadway segments evaluated, US-1/Federal Highway experienced the highest crash frequency with 782 crashes, including four fatal crashes, followed by SR 714/Monterey Road with 421 crashes and CR A1A with 397 crashes.

The highest-crash intersections were SR 714/Monterey Road & US-1/Federal Highway (212 crashes), SR 714/Monterey Road & SR 76/Kanner Highway (206 crashes), and SR 714/Monterey Road & CR A1A (168 crashes). Crash trends indicate a predominance rear-end type crashes, with the highest occurrence during afternoon peak travel periods.

2.2.16 Drainage/Water Resources

The project alignment and its contributing drainage areas span three distinct regional basins, South Fork Basin, South Coastal Basin and South Mid-Estuary Basin. Geographically, these basins are bounded by SE Ocean Boulevard to the north, SR 714 and SE Palm Beach Road to the west, and SE Federal Highway and the southern portion of the Witham Field Airport property to the south. The specific project footprint spans five distinct localized sub-drainage basins.

The project is located within a watershed that discharges into the Saint Lucie River Estuary. The FDEP has designated this estuary as an impaired water body with established Total Maximum Daily Loads (TMDLs) for Total Phosphorus (TP) and Total Nitrogen (TN).

The existing drainage system consists of storm sewers discharging into ponds located within the vicinity of the intersection. The interconnected ponds overflow into a lateral ditch system within Witham Field which discharges into Krueger Creek, a tributary of St. Lucie River.

Floodplains

According to the DFIRM (SFHA) 100 Year Flood Zones data, 6.82 [100.0%] of the 200-foot project buffer occur outside of the 100-year floodplain. A review of available records indicates that no historical flooding events have been documented at the project site or within the immediate surrounding area.

2.2.17 Utilities

The design tickets requested information regarding the utility owners from right-of-way to right-of-way for SR 714 and CR A1A within the project study limits. There are 22 Utility Agency Owners (UAO)s identified within the project study limits. **Table 2-13** provides a list of the known UAOs within the project limits and contact data obtained from Sunshine State One Call of Florida (SSOCOF)**.** Utility items within the project study limits include power poles, single support signs, meter – electrical underground, guy anchor, junction box – service cabinets, fences, water valves, and subsurface utility markers.

Table 2-13: Existing Utility Agency Owners (UAOs)

Utility Agency Owner (UAO)	Facility Type	Phone	Email
At&T-Distribution	Telephone	407-496-6041	gr150m@att.com
Advance Cable Communication (Bluestream)	CATV	772-618-0267	eadams@bluestreamfiber.com
City Gas Company of Florida	Gas	888-325-5325	
City of Stuart	Sewer, Water	772-221-4700 x5	mrogolino@ci.stuart.fl.us
Cogent Communications	Fiber Optic	202 793-5078	jabaker@cogentco.com
Comcast	CATV	772-321-3425	anthony_sprigsteel@comcast.com
Crown Castle	Fiber Optic	888-632-0931 x2	fiber.dig@crowncastle.com
Ferrellgas (Propane)	Gas	561-719-1165	kimwilkins@ferrellgas.com
		772 349-4752	krystacremaldi@ferrellgas.com
FPL- Fiber	Fiber	954 651-2872	richard.aurrecoecha@fpl.com
FPL-Distribution-Martin (and Subaqueous)	Electric	772-485-0858	rob.morris@fpl.com
		800-778-9140	edgar.aguilar@fpl.com
		386-586-6403	jamie.purnell@fpl.com
Florida Public Utilities (Cheasepeake/Gas)	Gas	772-226-4343	fvanleeuwen@chpk.com
Hotwire	CATV, Fiber, Telephone	954-296-7765	fernado.morales@hotwirecommunication.com
ITS Fiber	Telephone	229 507-1308	
Lumen	Fiber Optic	786-266-1713	relocation@lumen.com
Martin County Public Services Traffic Division	Traffic Signals	772 288-5528	dbono@martin.fl.us
Martin County Public Utilities	Sewer, Water	772 521-1633	jbrotherton@martin.fl.us
MCI/Verizon	Fiber Optic	954-213-1959	donovan.carr@verizon.com
		800-624-9675	investigations@verizon.com
Mdu Pro(CATV)	CATV	954 551-7950	russb@broadstar.com
Nextcity Networks (Fiber)	Fiber	305 529-4664	
Resurgence	Fiber Optic	850-826-8046	laura.glass@glass811.com
South Martin Regional Utility (W&S)	Sewer, Water	772-546-6259	mhammond@tji.martin.fl.us
			kmclaughlin@tji.martin.fl.us
Teco	Gas	813 275-3700 x8326	eggiugliano@tecoenergy.com
			dxdiaz@tecoenergy.comn

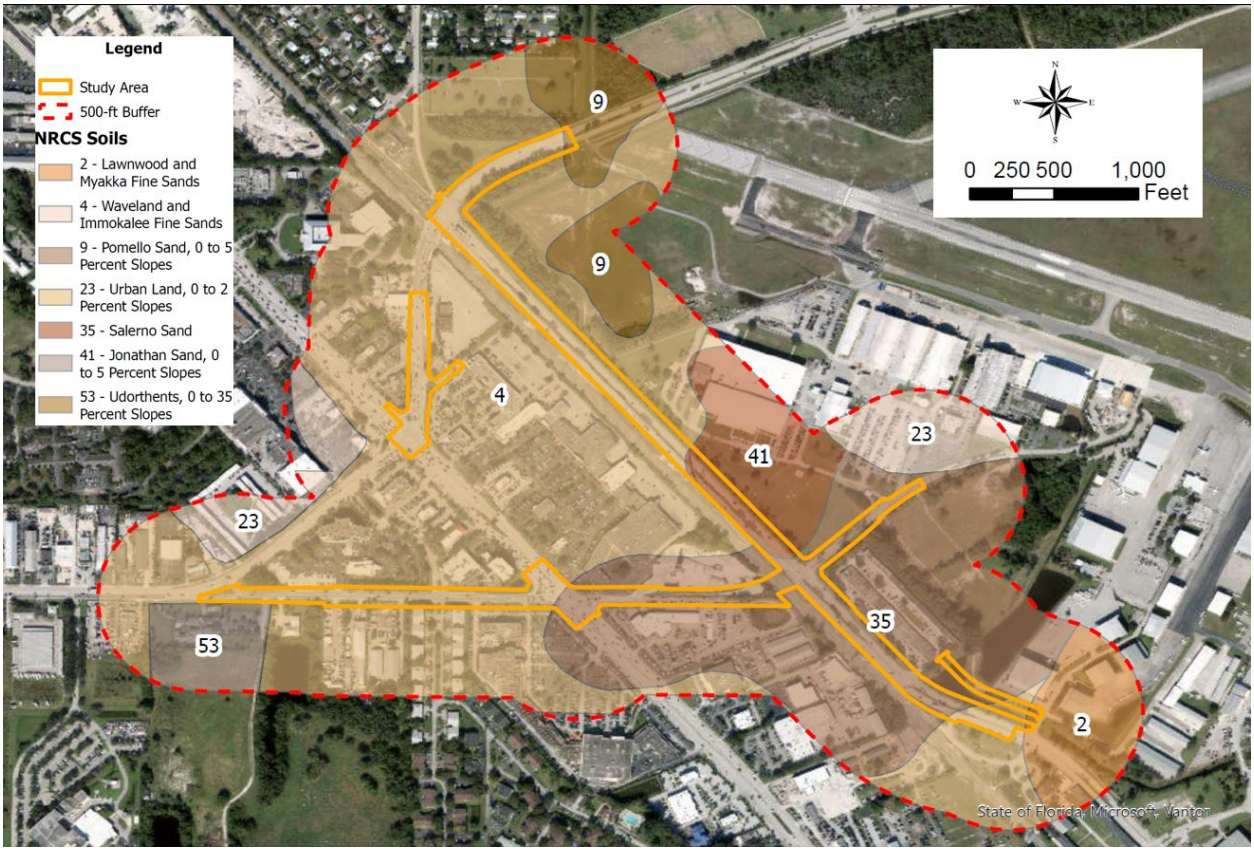
2.2.18 Soils and Geotechnical Data

From review of the USDA NRCS Web Soil Survey, it was determined that there is a total of seven (7) soil types within the project study area, see Soils Maps. Of the soil types present, six (6) are not classified as hydric according to the Hydric Soils of Florida Handbook. One (1) soil classification is not ranked. **Table 2-14** summarizes the soils and **Figure 2-13** shows NRCS soils map

Table 2-14: Existing Soils

Soils ID	Soils Name	Hydric (Yes/No)	Project Study Area		Study Area And Buffer	
			Size (Acres)	Percent of Total	Size (Acres)	Percent of Total
2	Lawnwood and Myakka Fine Sands	No	0.12	0.5%	10.31	4.1%
4	Waveland and Immokalee Fine Sands	No	15.62	59.3%	143.64	56.5%
9	Pomello Sand, 0 to 5 Percent Slopes	No	0.13	0.5%	13.74	5.4%
23	Urban Land, 0 to 2 Percent Slopes	Unranked	--	--	13.86	5.4%
35	Salerno Sand	No	8.40	31.9%	53.69	21.1%
41	Jonathan Sand, 0 to 5 Percent Slopes	No	2.05	7.8%	12.80	5.0%
53	53 - Udorthents, 0 to 35 Percent Slopes	No	--	--	6.31	2.5%
TOTAL			***26.32***	***100.0%***	***254.35***	***100.0%***

Figure 2-13: NRCS Soils Map



2.2.19 Traffic Signs

Within the project study area, there are no major overhead traffic signs. There are minor overhead wayfinding signs along northbound CR A1A/SE Dixie Highway and eastbound SR 714/SE Monterey Road, approaching the intersection of the two roadways. The remaining existing signage consists of standard roadway regulatory, advisory, and wayfinding signs.

2.2.20 Railroad Crossings

Within the project study limits, the FEC railroad operates three rail lines parallel to CR A1A/SE Dixie Highway and crosses the road at one location approximately 0.67 miles north of SR 714/SE Monterey Road. The FEC railroad is designated as a FDOT Strategic Intermodal System railroad. Currently the FEC railroad operates as a freight rail facility, while the Bright Line passenger rail service also utilizes this rail alignment. The standard operating speed for the FEC railroad is 60 mph and the Bright Line rail service can reach speeds up to 125 mph. There are approximately 25 train crossings daily, 21 of which are through trains and four are switching trains. Deliveries to

super Ready Mix and Titan intensify delays, particularly when deliveries cause backups onto SR 714/SE Monterey Road, blocking the intersection. Bright Line utilizes the track by running 16-19 round trips daily or 32-38 additional trains per day. The railroad maintains 100 feet or right of way through the project study area. The crossings include Type IV railroad grade crossing traffic control gates with a gate arm.

Due to the railroad's proximity to CR A1A/SE Dixie Highway, particularly at the intersection with SR 714/SE Monterey Road, train crossings can have a major impact on traffic flow and experienced vehicle delays. This has been the basis for the desire to move this project forward.

2.2.21 Lighting

SR 714/SE Monterey Road

SR 714/SE Monterey Road does not maintain consistent lighting throughout the project study limits. West of the intersection with Monterey Road Extension, the light fixtures run along the south side of the roadway and east of the Monterey Road Extension light fixtures run along the north side of the roadway, mounted on utility poles. From US 1/Federal Highway to CR A1A/Dixie Highway the roadway is not illuminated. West of CR A1A/Dixie Highway, streetlights, on their own poles, provide illumination along SR 714.

CR A1A/SE Dixie Highway

CR A1A/SE Dixie Highway maintains existing roadway lighting. The light fixtures, on their own poles, exist only south of SR 714/SE Monterey Road and along the east side of the road. No other roadway lighting exists along CR A1A/SE Dixie Highway within the project study limits.

SE Monterey Road Extension

SE Monterey Road Extension, between SR 714/SE Monterey Road and US 1/Federal Highway, the roadway maintains no existing lighting.

SE Monterey Road US 1/SE Federal Highway

US 1/SE Federal Highway, between Monterey Road and SE Monterey Road Extension, is not illuminated.

2.2.22 Aesthetics Features

There are aesthetic features within the project study area. Along the south side of SR 714/SE Monterey Road, just east of Kanner Highway, there is a perimeter wall for the Leisure Villas 55+ Residential Community. The perimeter wall stretches approximately 1,000 feet.

2.2.23 Intelligent Transportation Systems (ITS)/Transportation System Management and Operations (TSM&O) Features

No major ITS facilities have been identified within the project study area. At signalized intersections, there are cameras mounted on the signal mast arms. These cameras serve as video detection for the signalized intersections.

2.2.24 Freight Features

As previously mentioned, the FEC railroad is designated as a FDOT Strategic Intermodal System railroad. Currently the FEC railroad operates as a freight rail facility,

2.3 Existing Environmental Features

2.3.1 Potentially Occurring Listed Species and Designated Critical Habitat

Based on literature and field reviews, seventy (70) species of protected plants and animals have the potential to occur in Martin County and the systems of the project study area. Eighteen (18) of the species are federally listed endangered, threatened, or proposed for listing. They are:

- *Perforate reindeer lichen,*
- *Four-petal pawpaw*
- *Beach jacquemontia*
- *Tiny polygala*
- *Monarch butterfly*
- *American alligator*
- *American crocodile*
- *Eastern indigo snake*
- *Florida scrub jay*
- *Crested caracara*
- *Red-cockaded woodpecker*
- *Eastern black rail*
- *Everglade snail kite*
- *Florida panther*
- *Puma*

Fifty (50) additional species are state listed endangered or threatened.

- *Golden leather fern*
- *Meadow jointvetch*
- *Curtiss' milkweed*
- *Pine-pink*
- *Many-flowered grass-pink*
- *Hand fern*
- *Satinleaf*
- *Cutthroatgrass*
- *Large-flowered rosemary*
- *Florida tree fern*
- *Spurred neottia*
- *Night-scented orchid*
- *Blacktorch*
- *Pine pinweed*
- *Pine lily*
- *Small's flax*
- *Toothed maiden fern*
- *Celestial lily*
- *Giant sword fern*
- *Giant orchid*
- *Widespread polypody*
- *Plume polypody*
- *Comb polypody*
- *Terrestrial peperomia*
- *Blunt-leaved peperomia*
- *Blueflower butterwort*
- *Yellow flowered butterwort*
- *Snowy orchid*
- *Rose pogonia*
- *Pale-flowered polystachya*
- *Leafless beaked ladies'-tresses*
- *Lace-lip ladies'-tresses*
- *Giant spiral ladies'-tresses*
- *Balbis' airplant*
- *Common wild-pine*
- *Banded wild-pine*
- *Spreading air-plant*
- *Soft-leaved wild-pine*
- *Hoop vine*
- *Florida gamagrass*
- *Redmargin zephyrlily*
- *Gopher tortoise*
- *Pine snake*
- *Florida sandhill crane*
- *Florida burrowing owl*
- *Little blue heron*
- *Tricolored heron*
- *Wood stork*
- *Black skimmer*
- *Least tern*

2.3.2 Wetlands

Two (2) wetland and other surface water (OSW) community types were identified within the project area: streams and waterways (roadside ditches) and reservoirs (stormwater management facilities.

2.3.3 Essential Fish Habitat

There is no Essential Fish Habitat in the project study area.

2.3.4 Cultural Resources

The architectural survey resulted in the identification of 16 resources, including one previously recorded resource group (8MT01573), two previously recorded linear resources (8MT01450 and 8MT01621), three newly recorded resource groups (8MT02230–8MT02232), and 10 newly recorded buildings (8MT02220–8MT02229). The segment of 8MT01450, the FEC Railway, within the APE was evaluated as eligible for listing in the National Register of Historic Places (NRHP) by. the State Historic Preservation Officer (SHPO) in 2012. Due to significant upgrades to the segment of the FEC Railway within the APE, SEARCH recommends that the segment within the APE is ineligible and no longer contributes to the overall eligible resource within Martin County. Resource 8MT01621, Dixie Highway, has been evaluated as eligible for the NRHP by the SHPO in 2012. Resource 8MT01573, Witham Field Airport, was originally documented in 2009 by Martin County; however, the resource was not evaluated by the SHPO due to insufficient information

2.4 SURVEY AND MAPPING

2.4.1 Aerials

Existing FDOT aerial imagery for the project study was obtained from the FDOT's Aerial Photo Look Up System (APLUS). At the start of the study the available tiles used were dated 2021. As the study progressed, updated imagery tiles for dated 2024 were used. In May 2026 aerial imagery tiles were pulled from the Martin County GIS portal dated 2026. These aerials will be used going forward in this study.

2.4.2 Survey Data

A Survey Report, signed on February 26th, 2024 was provided for this project and accompanied nine supporting files, in accordance with the "Standards of Practice" for Surveying and Mapping

in the State of Florida, as set forth by the Florida Board of Professional Surveyors and Mappers, in Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027 Florida Statutes. These survey files covered Alternatives 1 and 2 study areas along SR 714 and part of CR A1A.

The Horizontal Datum is based upon the Florida State Plane Coordinate System, Transverse Mercator Projection, East Zone, North American Datum of 1983 (NAD83/1990 Adjustment) with a bearing of N 4°00'47" E between monuments BLC2 and BLC3.

Vertical datum is relative to the North American Vertical Datum 1988 (NAVD88) and is referenced to FDOT points DBLC1 and DBLC3 shown on Project Control Sheets for SR714 FPID No. 444405-1-52-01.

2.4.3 Lidar Data

For areas of this study outside of the design survey, point cloud LiDAR was obtained to fill in areas along CR A1A heading south to SE Airport Road.

2.4.4 GIS Data and As-Built Plans

Previous roadway mapping and plans were obtained from FDOT for location of existing underground drainage design and utilities. Martin County GIS data files were obtained to supplement the survey with right of way lines, parcel lines, side streets and wetland lines.

2.5 GEOTECHNICAL INVESTIGATION

2.5.1 Contamination

A total of 60 potential contamination sites were identified with the study's area of potential effect. his evaluation. Eight of the sites are considered High risk, one Medium risk and the remainder are Low to no risk rated sites. This includes the City-wide PFAS and the 1,2-DCP Plume.

3.0 DESIGN CONTROLS AND CRITERIA

Build alternatives for this PD&E Study were developed and analyzed based on FDOT and AASHTO design standards and criteria as set in the Florida Design Manual (FDM) and PD&E Manual that were in effect at the time of this study. The following FDOT Manuals and Guidelines were used in conducting the PD&E study:

- *Florida Statues*

- *Florida Administrative Codes*
- *Applicable Federal Regulations, U.S. Codes, and Technical Advisories*
- *FDOT PD&E Manual*
- *FDOT ETDM Manual*
- *SocioCultural Effects Evaluation Handbook*
- *Public Involvement Handbook*
- *FDOT Design Manual (FDM), January 2026*
- *Highway Capacity Manual (HCM)*
- *Manual on Uniform Traffic Studies (MUTS)*
- *Manual of Uniform Traffic Control Devices (MUTCD)*
- *Minimum Standards for Design, Construction, and Maintenance Streets and Highways (Florida Greenbook)*
- *A Policy on Geometric Design of Highways and Streets*
- *AASHTO Guide for the Development of Bicycle Facilities*
- *AASHTO Guide for the Development of Pedestrian Facilities*
- *Highway Safety Manual (HSM)*
- *Right of Way Mapping Handbook*
- *Right of Way Procedures Manual*
- *Survey and Mapping Handbook*
- *Soils and Foundation Handbook*
- *Electronic Field Book (EFB) User Handbook*
- *FDOT Drainage Manual & Drainage Design Guide*
- *Structures Manual*
- *CADD Manual*
- *Quality / Level of Service Handbook*
- *FDOT Multimodal Quality / Level of Service Handbook Software & Tables*
- *Project Traffic Forecasting Handbook & Project Traffic Forecasting Procedure No. 525-030-120*
- *Traffic Analysis Handbook*
- *FDOT Traffic Engineering Manual*
- *Access Management Guidebook*
- *Florida Highway Landscape Guide*
- *Basis of Estimates Manual*

- *Federal Transit Administration (FTA) and Federal Rail Administration (FRA) Program Guidance*
- *Project Management Handbook*
- *Aerial Surveying Standards for Transportation*
- *Manual On Intersection Control Evaluation (ICE)*
- *SJRWMD Permit Information Manual*
- *Federal Aviation Administration (FAA) Advisory Circular 150/5200-33C*
- *FDEP and Department of Management Services (DMS) Florida State Owned Land and Record Information System (FL-SOLARIS) and Land Inventory Tracking System (LITS)*
- *U.S. Department of Agriculture, Soil Conservation Service (SCS)*
- *U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) SSURGO Database of Clay County, Florida*
- *United States Geological Survey (USGS) 7.5-Minute Quadrangle Map*
- *U.S. Fish and Wildlife Service National Wetland Inventory (NWI)*
- *Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM)*

3.1 DESIGN CONTROLS

All of the design controls played a role in the development of the Build Alternatives in varying degrees. Additionally, two main constraints that were controlling factors were the FEC railroad right of way and the Martin County Airport/Witham Field along C.R. A1A (SE Dixie Hwy).

For Alternative 1 and Alternative 2, the alignment of S.R. 714 (Monterey Road) utilized the existing alignment, and the curvature of S.R. 714 (Monterey Road) was held close to the existing curvature to minimize impact to FEC railroad and Martin County Airport. For Alternative 3, Monterey Road Extension utilized the existing alignment while Grumman Boulevard was adjusted to aligned with the existing airport entrance.

The vertical alignment is a best fit over the FEC railroad tracks.. See Table 3-1 for Design Controls and Criteria with source.

3.1.1 Roadway Context Classification

The context classifications for roadways within this project study are C3C Suburban Commercial and C4 Urban General. Each state road has been assigned a context classification as identified in

Section 2.2 and will not change from the existing context classification. There are city and county roads that will be evaluated to become part of the state road system.

3.1.2 Functional Classification and SIS Designation

Functional classification categorizes roadways according to the character of service they provide in relation to the total roadway network. For this project study the roadway functional classifications will remain as identified in Section 2.2. as Principal Arterial, Minor Arterial, Collector and Local Road. The only SIS designation in the project study area is FEC Railroad, which is designated as an FDOT SIS railroad.

3.1.3 Access Management Class and Applicable Standards

For this project study the access management class will remain as identified in Section 2.2. Designs are to comply with the Florida Statutes 335.18 "State Highway System Access Management Act", Rule 14-97 "Arterial Access Classifications & Standards" & "Interim Access Management Standards", adopted procedures and directives, and the district program.

3.1.4 Design Speed and Target Speed

For this project study the design speeds that are identified in Section 2.2 will be used to evaluate the proposed roadways with low-speeds of 45 mph and less, down to very low-speeds of 35 mph and less for local roads.

3.1.5 Capacity and Level of Service (LOS) Target

The Target LOS for this area is D.

3.1.6 Design Vehicle

The design vehicle for state roads will use WB-62 FL and the city local roads will use

3.1.7 Pedestrian and Bicycle Requirements

Shared use path on the east side of C.R. A1A/Dixie Highway and sidewalks for reconstructed roadways. Bike lanes will be required as well.

3.1.8 Physical constraints

Airport/Runway

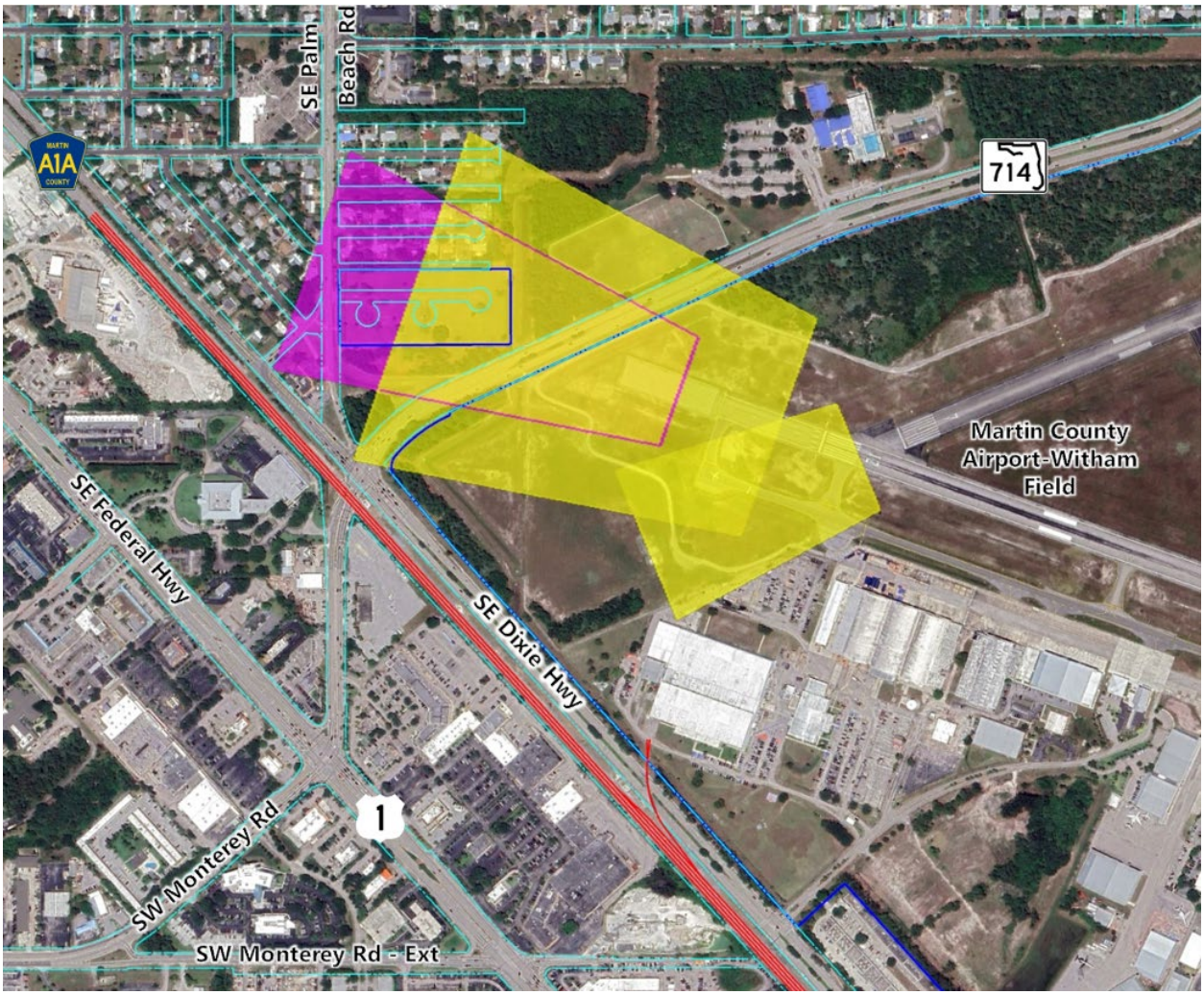
Witham Field, a Martin County Airport, is located on the southeast corner of the intersection of S.R. 714 (Monterey Road) and C.R. A1A (SE Dixie Hwy). Runway 12-30, Runway 7-25 and the land within the airport property is controlled by the Federal Aviation Administration (FAA) and Martin County Airport regulations. Owned and managed by the Martin County Board of County Commissioners, Witham Field is a general aviation airport that serves Martin County and the Treasure Coast region by supporting corporate aviation, flight training, medical flights, and other aviation services that contribute to the community and regional economy. There are currently no plans for Witham Field to become a commercial service airport.

Aircraft operating at Witham Field generally follow a standard traffic pattern altitude of approximately 1,000 feet above ground level (AGL). This altitude helps pilots maintain safe and consistent operations while arriving and departing from the airport. During takeoff and landing, aircraft may operate at different altitudes as they climb to or descend from the traffic pattern. Pilots are trained to follow established procedures and safely navigate around ground features such as antennas, buildings, and trees while transitioning to the runway or the standard traffic pattern altitude. These procedures are designed to ensure safe and efficient aircraft operations in the airspace surrounding the airport.

Flight training is a common activity at general aviation airports and is one of the many aviation services offered at Witham Field. As a public-use airport that receives federal funding from the Federal Aviation Administration (FAA), the airport operates under FAA Grant Assurances that require airports to provide fair and equal access to aviation services without economic discrimination. Because flight training is a recognized aviation activity available to the public, airports that accept federal funding cannot prohibit these operations. Currently, two flight schools operate at Witham Field, providing pilot training and contributing to the airport's overall aviation services and operations.

An Airport Runway Protection Zone (RPZ) analysis was conducted due to the proximity of the study area to the Witham Field runways, see **Figure 3-1** that shows the arrival and departure RPZs. During a meeting with FAA, it was conveyed that any new roadway or intersections need to be outside of the Arrival RPZ. The existing SR 714 alignment is grandfathered into the RPZ so staying within the current footprint is vital.

Figure 3.1: Martin County Airport -Witham Field Runway Protection Zones



Railroad

The FEC railroad crosses S.R. 714 (Monterey Road) and runs parallel to the west side of C.R. A1A (SE Dixie Hwy). Refer to FDM Chapter 220 and FDOT Standard Plans Index 509-070 regarding the railroad crossing.

3.1.9 Design High Water

In areas where the average ground surface elevation varies from 13.0 feet to 16.0 feet NAVD 88, the local depth to the water table extends up to 5.0 feet below grade. To ensure engineering accuracy and regulatory compliance during the design phase, the bottom elevation of adjacent existing dry ponds must be utilized as the direct baseline indicator to match and establish the

local seasonal highwater table. This shallow water table requires precise calculation of pond bottom profiles to ensure compliance with dry retention or wet detention criteria.

Additionally, FAA's Advisory Circular (AC) 150/5200-33C provides guidance on certain land uses that have the potential to attract hazardous wildlife on or near public-use airports. According to the guidance, detention and retention ponds can attract birds and other wildlife by providing feeding, loafing, nesting, or watering habitat. As a result, stormwater facilities near airports should be designed to minimize standing water and discourage wildlife use.

3.2 DESIGN CRITERIA

3.2.1 Geometric Design Criteria

The project is on-system, with some roads being off-system. The design criteria used for the project is based on the 2026 Florida Department of Transportation Design Manual (FDM) publication. **Table 3-1** shows the Roadway Design Criteria.

Table 3-1: Design Criteria

	Design Element	Criteria	Reference Source
General	Context Classification	C3C (Suburban), C4 (Urban General)	FDM 200.4 and FDOT Context Classification Guidebook
	Functional Classification	Arterial, Collector and Local	FDM Section 200.2
	Traffic Design Year	2050	FDM Section 201.3
	Design Speed	35, 45 mph (Urban)	FDM Table 201.5.1 and as-builts
Section Features	Travel Lane Width (includes Aux Lane)	10 feet for 35 mph 11 feet for 45 mph	FDM Table 210.2.1
	Median Widths	15.5 feet for 35 mph 19.5 feet for 45 mph	FDM Table 210.3.1
	Curb and Gutter Type	E (Inside), F (Outside)	FDM 210.5 & FDM 210.5.1
	Bridge Inside Shoulder	45 mph or less, 16 inches from edge of travel lane	FDM Section 260.3.1 Figure 260.1.3

	Bridge Outside Shoulder	45 mph or less, 16 inches from edge of travel lane	FDM Section 260.3.1 Figure 260.1.3
	Pavement Cross Slope	2%-4%	FDM Figure 210.2.1
	Border Width	12 feet for 35 mph 14 feet for 45 mph	FDM Table 210.7.1
Horizontal Alignment	Max. Deflection. w/o Curves	2°00'00" for ≤40 mph, (Curbed) 1°00'00" for 45 mph, (Curbed)	FDM 210.8.1
	Desirable Length of Curves	525 feet for 35 mph 675 feet for 45 mph	FDM Table 210.8.1
	Max Degree of Curvature with Superelevation Rate (e max=0.5)	14°15'00" for 35mph 8°15'00" for 45mph	FDM Table 210.9.2
	Clear Zone Width	14 feet for 35 mph 24 feet for 45 mph	FDM Table 215.2.1
Vertical Clearance	Roadway over Roadway	16.5 feet Min.	FDM Table 210.6.1
	Roadway over Railroad	23.5 feet Min.	FDM Table 260.6.1
	Overhead Sign Structure and Traffic Signals	17.5 feet Min.	FDM 210.10.3
Vertical Alignment	Max. Grade	7% for 35 mph 6% for 45 mph	FDM Table 210.10.1
	Maximum Change in Grade without Vertical Curve	35 mph: 0.9% 45 mph: 0.7%	FDM Table 210.10.2
	Min. Grade on Curbed Roadway	0.3%, 250 feet Min. between VPIs	FDM Section 210.10.1.1
	Min. K Value SAG Curves	49 feet for 35 mph 79 feet for 45 mph	FDM Table 210.10.3
	Min. K Value Crest Curves	47 feet for 35 mph 98 feet for 45 mph	FDM Table 210.10.3
	Min. Length of Sag Curves	105 feet for 35 mph 135 feet for 45 mph	FDM Table 210.10.4
	Min. Length of Crest Curves	105 feet for 35 mph 135 feet for 45 mph	FDM Table 210.10.4
Multimodal	Sidewalk Width	6 feet	FDM Table 222.2.1
	Shared-Use Path / Urban Side Path Width	8 feet – 14 feet	FDM 224.4

Features	Bicycle Lane Width	Shared-Use Path Substitute for design speed of 35 mph or greater	FDM 223.2.1.1

3.2.2 Drainage Design Criteria

The proposed stormwater management system must satisfy state and regional criteria for water quality treatment, nutrient load reduction, and peak discharge attenuation. Regulatory oversight is governed by the Florida Department of Environmental Protection (FDEP) and the SFWMD under Chapter 62-330, Florida Administrative Code (F.A.C.), and the SFWMD Environmental Resource Permit (ERP) Applicant's Handbook Volume II.

3.2.3 Water Quality and Nutrient Criteria

The project is located within a watershed that discharges into the Saint Lucie River Estuary. The FDEP has designated this estuary as an impaired water body with established Total Maximum Daily Loads (TMDLs) for Total Phosphorus (TP) and Total Nitrogen (TN). Consequently, the project must comply with the enhanced statewide stormwater performance standards.

3.2.3.1 Performance-Based Nutrient Load Reduction

Rather than relying solely on traditional prescriptive volumetric rules, the post-development stormwater system must achieve a performance-based pollutant load reduction:

- *Net Improvement Standard: Because the receiving water body is impaired, the post development nutrient sheet flow and point source discharges must demonstrate a net improvement for the parameters of concern (TP and TN). Post-development average annual nutrient loading must be less than or equal to the pre-development baseline loading.*
- *Baseline Volumetric Treatment: As a components-based minimum, wet detention systems must retain or detain the greater of:*
- *The first 1.0 inch of runoff from the entire contributing project area, or*
- *The total runoff generated by 2.5 x the percentage of new impervious area.*

3.2.3.2 Best Management Practices (BMP) and System Types

- *Wet Detention Systems: Must be designed with a control elevation set at or below 1.0 foot from the seasonal high groundwater table (SHGWT). The system must maintain a slow bleed-down rate, discharging no more than 0.5 inches of the detention volume within a 24-hour period.*
- *Dry Detention / Retention Systems: Alternative BMPs (such as dry retention or exfiltration trenches) may be utilized within the existing right-of-way footprint. However, their selection and footprint requirements must be justified using a continuous simulation or performance-matrix routing tool (e.g., BMP trains) to prove equivalent or superior TP and TN mass removal efficiencies.*
- *Hydrocarbon Source Control: Because the final roadway configuration represents a high-traffic transportation facility exceeding 50% imperviousness, the system must feature structural skimmers, baffles, or equivalent sediment/debris mechanisms at all discharge structures to prevent the migration of oils, grease, and floating pollutants into the receiving waters.*

3.2.4 Water Quantity and Attenuation Criteria

The SFWMD mandates that post-development peak discharge rates do not cause adverse upstream or downstream impacts on off-site properties. Allowable discharge limits are typically governed by historic discharge rates, limits established in prior SFWMD permits, or specific basin-allowable discharge allocations.

3.2.4.1 Tidal Discharge and Attenuation Rules

The project outfalls eventually reach tidally influenced portions of the Saint Lucie River system. While tidal outfalls are exempt from some restrictive land-locked basin allowable discharge limits, the SFWMD and FDOT District Four require a strict evaluation of the 25-year, 72-hour design storm event.

Post-development peak discharge rates and discharge volumes must not exceed predevelopment levels for this design storm. Furthermore, structural design and hydraulic routing calculations must account for tailwater conditions, incorporating local sea-level rise (SLR) projections and high-tide stages to ensure the proposed roadway prism, bridge approach structures, and internal conveyance systems remain safe from localized flooding.

4.0 ALTERNATIVES ANALYSIS

4.1 NO-BUILD (NO-ACTION) ALTERNATIVE

The No Build Alternative is defined as the alternative in which the proposed project activity would not take place and assumes that no action will be taken to improve SR 714/Monterey Road within the project limits. This involves leaving the existing roadway as it is, with only routine maintenance as required. The No Build Alternative serves as the baseline against which the Build Alternatives are evaluated and remains under consideration throughout this PD&E study. The No-Build Alternative has certain advantages and disadvantages.

Advantages of the No-Build Alternative include:

- *No disruptions or temporary impacts due to construction;*
- *No expenditure of public funds; and*
- *No environmental degradation or disruption of natural and other environmental resources due to construction*

Disadvantages of the No-Build Alternative include:

- *The purpose and need are not fulfilled;*
- *Increased congestion and delay;*
- *Increased safety concerns; and*
- *Increased emergency response and evacuation time*

4.1.1 No Build 2030 and 2050 Traffic Analysis

The No Build Synchro analysis was performed by employing the existing conditions Synchro models and applying the forecasted future year 2030 and 2050 No Build turning movement volumes. An area wide signal optimization was performed as well.

Given the increased volumes projected for the future year scenarios, it was expected that some intersections would begin to fail by the 2030 opening year. As shown in **Table 4-1** and **Table 4-2**, the following intersections were shown to fail by either 2030 or 2050:

Table 4-1: Overall Intersection Delay and LOS (2030)

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 76/Kanner Highway	94.7	F	110.6	F
SR714/SE Monterey Road at Monterey Road Extension	37.3.	D	39.8	D
SR714/SE Monterey Road at SR 5/US 1	67.4	E	84.9	F
SR714/SE Monterey Road at CR A1A/SE Dixie Highway	48.6	D	58	E
CR A1A at Decker Avene/SE Railroad Avenue	17.6	C	17.9	C
CR A1A at Christie Way	18.4	B	22.8	C
CR A1A at SE Aviation Way	8.2	A	7	A
CR A1A at SE Airport Road	14.8	B	16.2	B
CR A1A between US 1 and A1A	18.9	C	20.3	C
CR A1A at SE Indian Street	49	D	61.6	E
US 1 at SR 5A	132	F	1442.4	F
US 1 at Decker Avenue	31.4	D	108.3	F
US 1 at Central Parkway	30.1	C	53.6	D
US 1 at Monterey Road Extension/Grumman Boulevard	39.7	D	54.4	D
US 1 at Luckhardt Street	34.7	C	29.4	C
US 1 at SE Indian Street	73.4	E	94	F
SR 5A between US 1 and CR A1A	10.9	B	10.4	B
SR714/SE Monterey Road at Willoughby Boulevard	109.1	F	77.9	E
SR714/SE Monterey Road at SE Ray's Way	17.2	C	53.5	F

Table 4-2: Overall Intersection Delay and LOS (2050)

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 76/Kanner Highway	156.3	F	110.6	F
SR714/SE Monterey Road at Monterey Road Extension	40.3	D	50.8	D
SR714/SE Monterey Road at SR 5/US 1	131.3	F	124.3	F
SR714/SE Monterey Road at CR A1A/SE Dixie Highway	69	E	119.3	F
CR A1A at Decker Avene/SE Railroad Avenue	21.7	C	26.2	D
CR A1A at Christie Way	31.4	C	33.2	C
CR A1A at SE Aviation Way	10.1	B	8	A
CR A1A at SE Airport Road	24.2	C	12.1	B
CR A1A between US 1 and A1A	33.6	D	28.1	D

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
CR A1A at SE Indian Street	67.	E	104.6	F
US 1 at SR 5A	441.5	F	*	F
US 1 at Decker Avenue	62.9	F	394.2	F
US 1 at Central Parkway	32.6	C	56.9	E
US 1 at Monterey Road Extension/Grumman Boulevard	47.2	D	90	F
US 1 at Luckhardt Street	38.8	D	32.2	C
US 1 at SE Indian Street	90.8	F	157.6	F
SR 5A between US 1 and CR A1A	11.3	B	10.7	B
SR714/SE Monterey Road at Willoughby Boulevard	84.9	F	85.1	F
SR714/SE Monterey Road at SE Ray's Way	13.8	B	682.5	F

*Delay exceeded Synchro limits.

As shown in the above tables, the No Build intersection analysis reveals that during the Opening Year, nine intersections operations are anticipated to not meet the LOS D Target without additional improvements. The No Build Design Year is anticipated eleven intersections not meeting the LOS D target during at least one Peak period.

4.2 TRANSPORTATION SYSTEM MANAGEMENT AND OPERATIONS (TSM&O)

TSM&O Alternatives were analyzed for this study. Various intersection improvements associated with maintaining the SR 714 alignment with the at-grade crossing with FEC. The limits of the improvements varied between the no-build alternative and build alternatives.

4.2.1 No Build TSM&O

The No Build TSM&O analysis was performed by improving the previous No Build Synchro models with TSM&O intersection improvements and signal optimization as well.

The study intersections demonstrated improvements when the TSM&O improvements were applied. While several intersections are still projected to reach LOS F conditions by 2050 under the TSM&O scenario, they are generally greatly improved as compared to the initial No Build alternative. The following intersections will require extensive right-of-way acquisitions to increase the intersection's capacity to allow for levels of service better than LOS F:

- *SR 714/Monterey Road at SR 5/US 1*
- *SR 714/Monterey Road at CR A1A*

- *CR A1A at Indian Street*
- *SR 5/US 1 at Indian Street*

Refer to Table 16 in section seven of the Project Traffic Analysis Report (PTAR).

4.2.2 Build Alternatives TSM&O

4.2.2.1 Alternative 1 & 2 TSM&O Alternative Analysis

The Alternative 1 & 2 TSM&O analysis was performed by improving the previous Alternative 1 Synchro models with TSM&O intersection improvements and signal optimization as well.

The study intersections demonstrated improvements when the TSM&O improvements were applied. Similar to the No Build TSM&O scenario, several intersections are still projected to reach LOS F conditions by 2050 under the TSM&O scenario, they are generally greatly improved as compared to the initial Alternative 1 scenario. The following intersections will require extensive right-of-way acquisitions to increase the intersection's capacity to allow for levels of service better than LOS F:

- *SR 714/Monterey Road at SR 5/US 1*
- *SR 714/Monterey Road at CR A1A*
- *SR 5/US 1 at Indian Street*

Refer to Table 17 in section seven of the Project Traffic Analysis Report (PTAR).

The TSM&O strategies within the Alternative 1 and Alternative 2 footprint and did not increase right of way acquisition were incorporated into the Alternative

4.2.2.2 Alternative 3 TSM&O Alternative Analysis

The Alternative 3 TSM&O analysis was performed by improving the previous Alternative 2 Synchro models with TSM&O intersection improvements and signal optimization as well.

The study intersections demonstrated improvements when the TSM&O improvements were applied. Similar to the No Build TSM&O scenario, several intersections are still projected to reach LOS F conditions by 2050 under the TSM&O scenario, they are generally greatly improved as compared to the initial Alternative 2 scenario. The following intersections will require extensive

right-of-way acquisitions to increase the intersection's capacity to allow for levels of service better than LOS F:

- *SR 714/Monterey Road at SR 5/US 1*
- *SR 714/Monterey Road at CR A1A*
- *CR A1A at Indian Street*
- *SR 5/US 1 at Indian Street*

One additional unsignalized intersection, 5 (500) – CR A1A at Decker Avenue, experiences LOS F conditions for the minor street approaches in the 2050 PM Peak hour period, but due to the fact that this intersection is situated on a railroad crossing, additional improvements were deemed impractical.

Refer to Table 18 in section seven of the Project Traffic Analysis Report (PTAR).

The TSM&O strategies within the Alternative 3 footprint and did not increase right of way acquisition were incorporated into the Alternative

4.3 MULTIMODAL ALTERNATIVE(S)

Although the Multimodal Alternative would improve some connectivity such as bicycle and pedestrian across the FEC corridor and enhance safety for non-motorized users, it would not eliminate vehicular delays associated with rail operations, improve roadway level of service, or provide the operational and safety benefits required to meet the project's purpose and need. Therefore, this alternative was eliminated from further consideration. However, a currently funded FPID project # 444405-2-52-01 - SR-714 SE Monterey Road And CR-A1A Multimodal Pathway – will provide concrete shared use path on the eastside of C.R. A1A/Dixie Highway, north side of S.R. 714/Monterey Road and east side of SE Palm Beach Road. Also, all proposed alternatives provide pedestrians accommodations.

4.4 BUILD ALTERNATIVES

As discussed in Section 1.5, Alternatives 1 and 2 proposed grade-separated improvements along the existing SR 714 corridor with new connections to SE Palm Beach Road. Alternative 3 proposed a new grade-separated crossing approximately 0.5 mile south of the existing crossing utilizing improvements to SE Monterey Road Extension, SE Grumman Boulevard, SE Dixie Highway, and SE Airport Road.

4.4.1 Horizontal and Vertical Geometry

Alternatives 1 and 2

Horizontal alignments will follow the existing alignments along S.R. 714/ SE Monterey Road, SE Palm Beach Road, and Christie Way.as discussed in Section 2.2.8. New alignments or shifts in alignments are described below per roadway segment, and curve data is listed in **Table 4-3** per roadway segment. See **Table 4-4** for Vertical Curve Data of roadway segment S.R. 714/ SE Monterey Road.

The 16th Street alignment begins at C.R. A1A/SE Dixie Highway and heads west and ends at SE Palm Beach Rd, it consists of one tangent segment.

The 16th Street Extension alignment begins at SE Palm Beach Rd and heads west, then runs southeast to end at SR 714, it consists of three curves connected by three tangent segments.

Table 4-3: Alternative 1 and 2 Horizontal Curve Data

Curve No	Radius (ft)	Curve Length (ft)	Superelevation (e)	Design Speed (mph)
SR 714/SE Monterey Road				
1	5,730.00	193.06	Normal Crown	40
2	800.00	942.37	e = 0.080	40
SE Christie Way				
1	395	330.59	e = 0.045	35
SE Palm Beach Road				
1	400.00	102.91	e = 0.045	35
2	776.00	260.41	Reverse Crown	35
SE 16th Street Extension (Alternative 1)				
1	838.75	265.35	Normal Crown	30
2	976.25	392.07	Normal Crown	30
3	603.84	676.05	Normal Crown	30
SE 16th Street Extension (Alternative 2)				
1	3804.89	340.15	Normal Crown	30
2	599.34	635.93	Reverse Crown	30

Table 4-4: Alternative 1 and 2 Vertical Curve Data

Vertical Curve No	Vertical Curve Length (ft)	K-value	Entrance Grade (%)	Exist Grade (%)
SR 714/SE Monterey Road Over FEC and C.R. A1A/SE Dixie Highway				
1	360	64	-0.620	5.000
2	753	70	5.000	-5.500
3	328	64	-5.500	-0.370

Alternative 3

Horizontal alignments will follow the existing alignments along C.R. A1A/SE Dixie Highway, SE Monterey Road Extension and SE Airport Road. New alignments or shifts in alignments are described below per roadway segment, and curve data is listed in **Table 4-5** per roadway segment. New alignments for retail access road and Mohawk Lane Extension will be finalized in the design phase. See **Table 4- 6** for Vertical Curve Data of roadway segment C.R. A1A/SE Dixie Highway.

Table 4-5: Alternative 3 Horizontal Curve Data

Curve No	Radius (ft)	Curve Length (ft)	Superelevation (e)	Design Speed (mph)
SR 714/SE Monterey Road				
1	5,730.00	193.06	Normal Crown	40
2	800.00	942.37	e = 0.080	40
SE Grumman Boulevard				
1	842.33	610.06	Reverse Crown	35
SE Airport Road				
1	1,244.26	233.96	Normal Crown	25

Table 4-6: Alternative 3 Vertical Curve Data

Vertical Curve No	Vertical Curve Length (ft)	K-value	Entrance Grade (%)	Exist Grade (%)
CR A1A/SE Dixie Highway Over FEC Spur				
1	302	64	0.276	4.987
2	354	70	4.987	-0.074
3	383	70	-0.074	-5.542
4	302	64	-5.002	-0.279

Vertical Curve No	Vertical Curve Length (ft)	K-value	Entrance Grade (%)	Exist Grade (%)
SE Grumman Boulevard Over FEC				
1	360	64	-0.620	5.000
2	753	70	5.000	-5.500
3	328	64	-5.500	-0.370

4.4.2 Typical Sections

The roadway design of typical sections for alternatives 1 and 2 are the same with exception of SE 16th street. In Alternative 2 SE 16th street is removed from improvements due to the off-set intersection at SE Palm Beach Road. See **Figures 4-1** to **4-6** that represents Alternative 1 & 2 roadway improvements.

4.4.2.1 Alternative 1 and 2 Typical Sections

Figure 4-1: SR 714 (East of US 1)

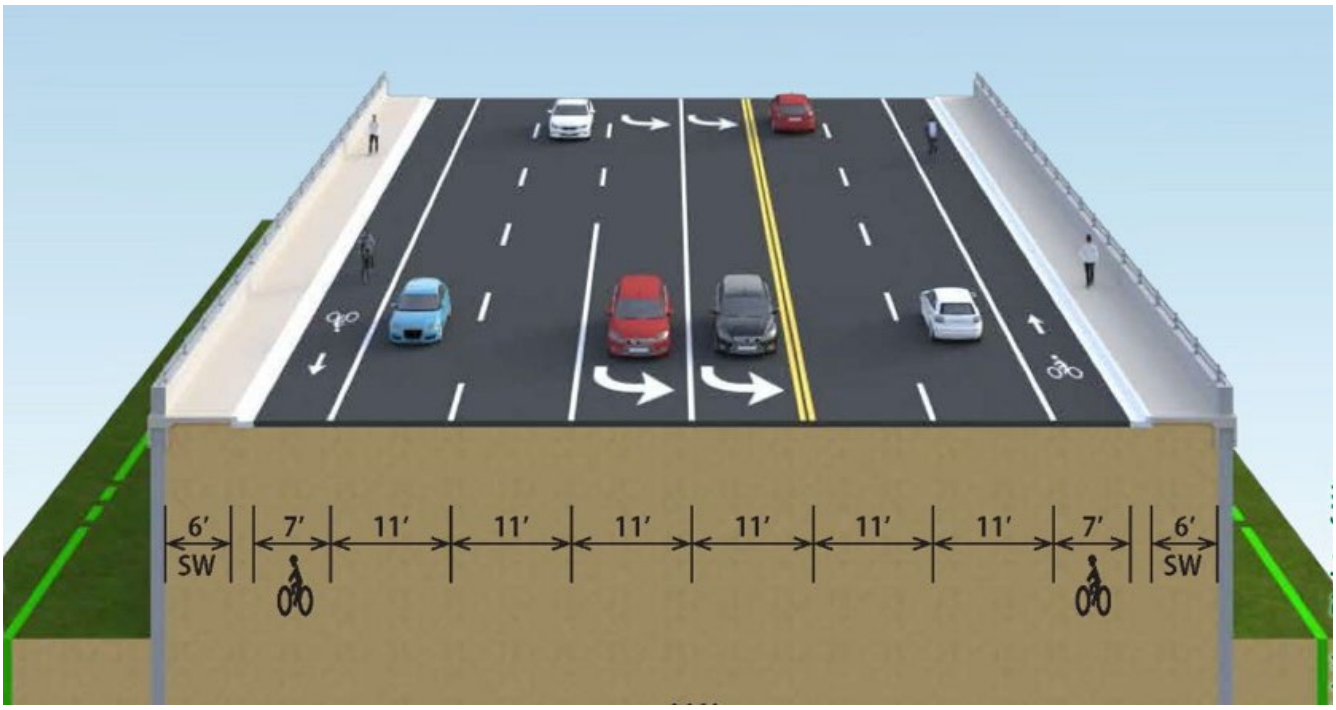


Figure 4-2: SR 714 Bridge Over FEC Railroad)

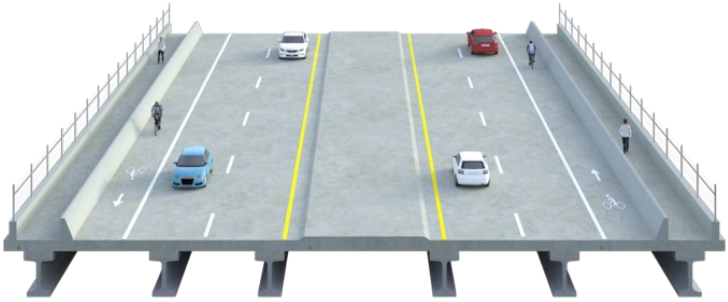


Figure 4-3: SR 714 (East of CR A1A)

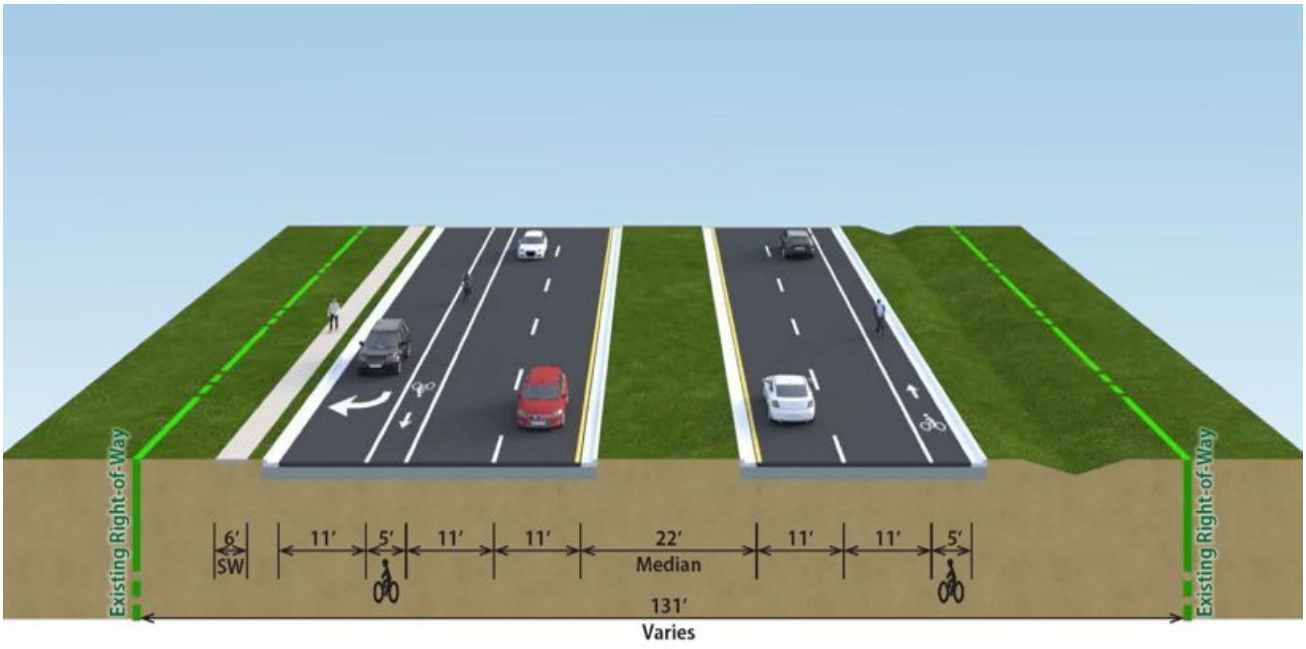


Figure 4-4: CR A1A (South of SR 714)

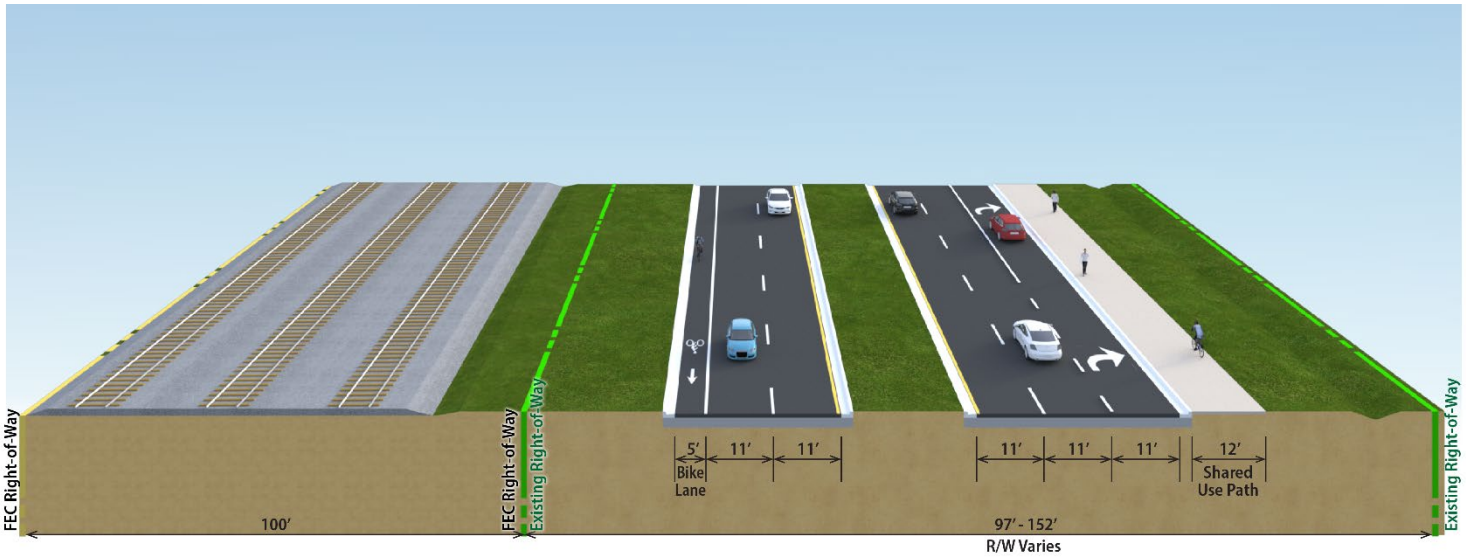


Figure 4-5: SE 16th Street Extension

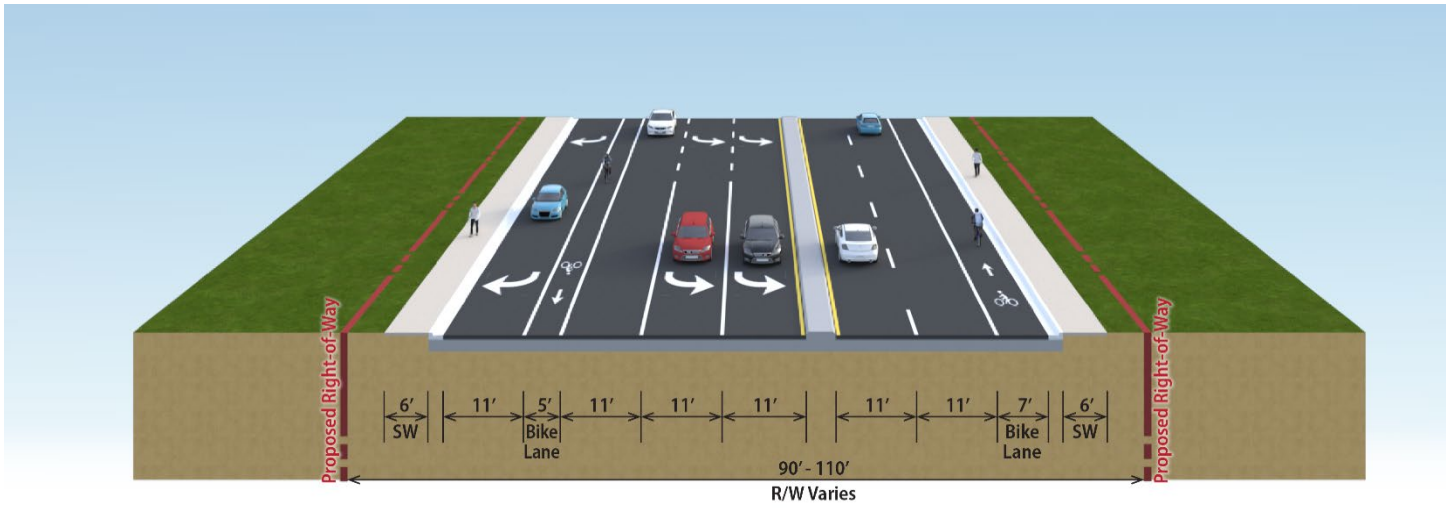
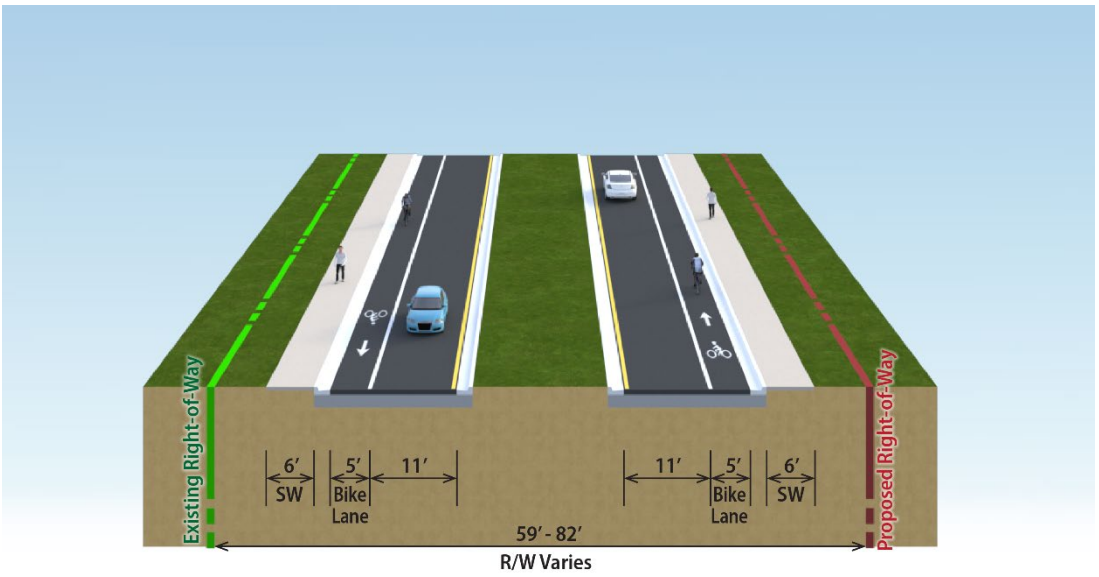


Figure 4-6: SE 16th Street



4.4.2.2 Alternative 3 Typical Sections

See **Figures 4-7** to **4-15** that represents Alternative 1 & 2 roadway improvements.

Figure 4-7: SR 714/SE Monterey Road (West of CR A1A/SE Dixie Highway)

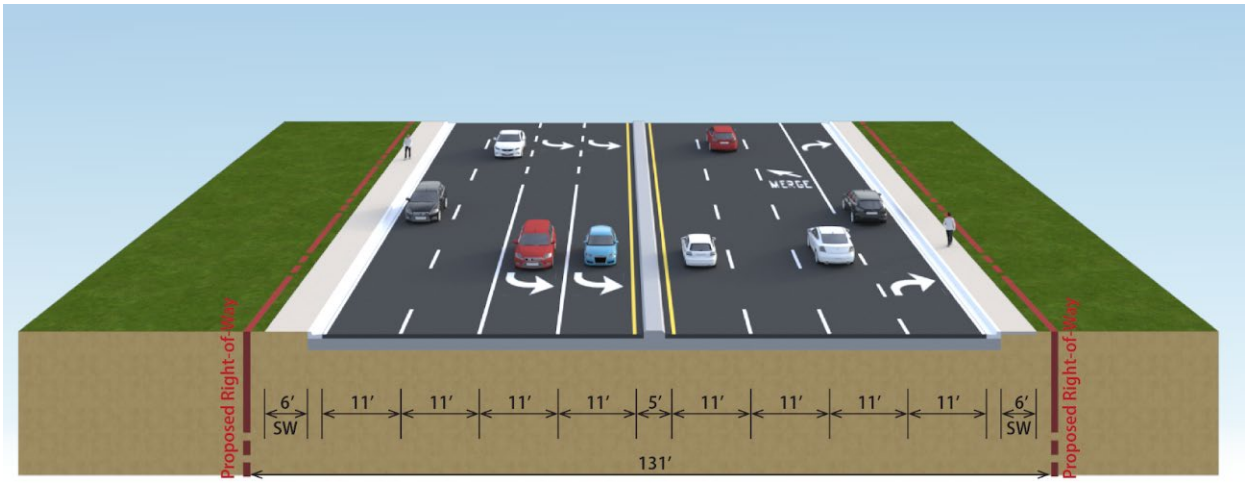


Figure 4-8: SR 714/SE Monterey Road (East of CR A1A/SE Dixie Highway)

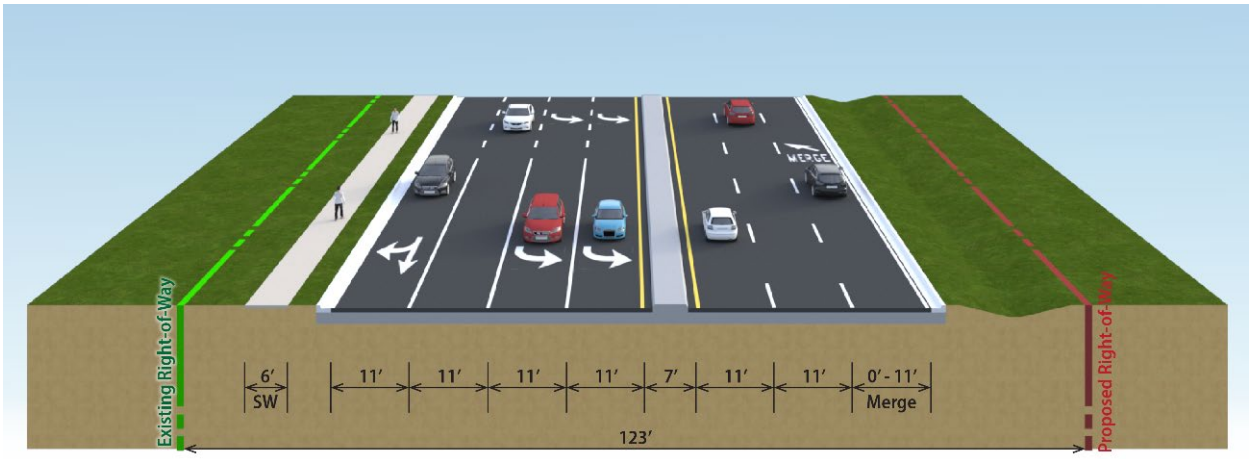


Figure 4-9: C.R. A1A (North & South of FEC Railroad Spur)

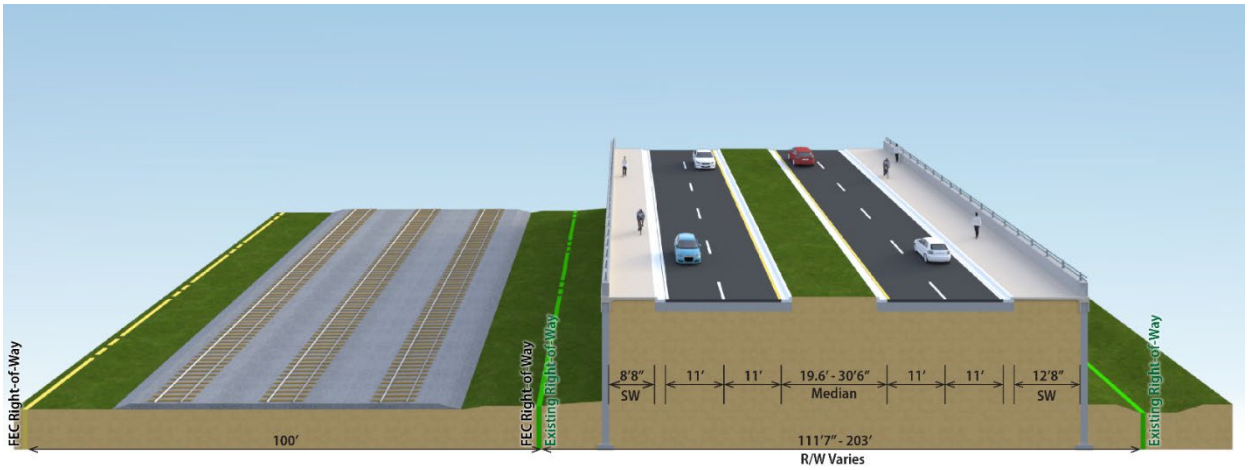


Figure 4-10: C.R. A1A Bridge Over FEC Railroad Spur

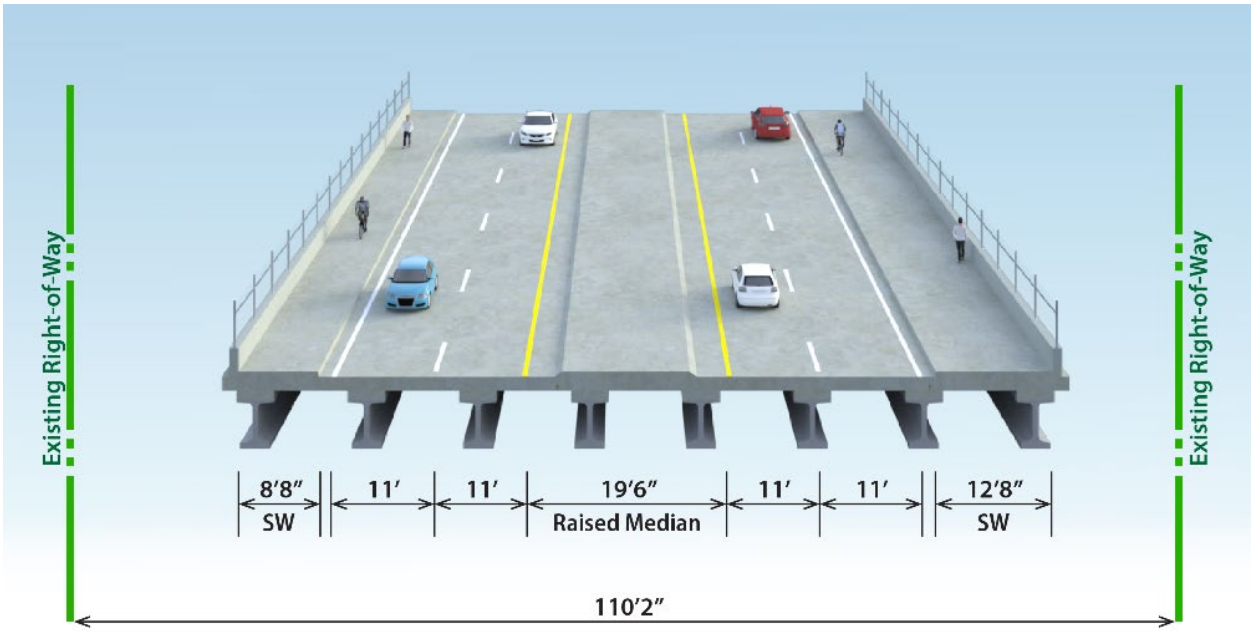


Figure 4-11: C.R. A1A (South of SR 714)

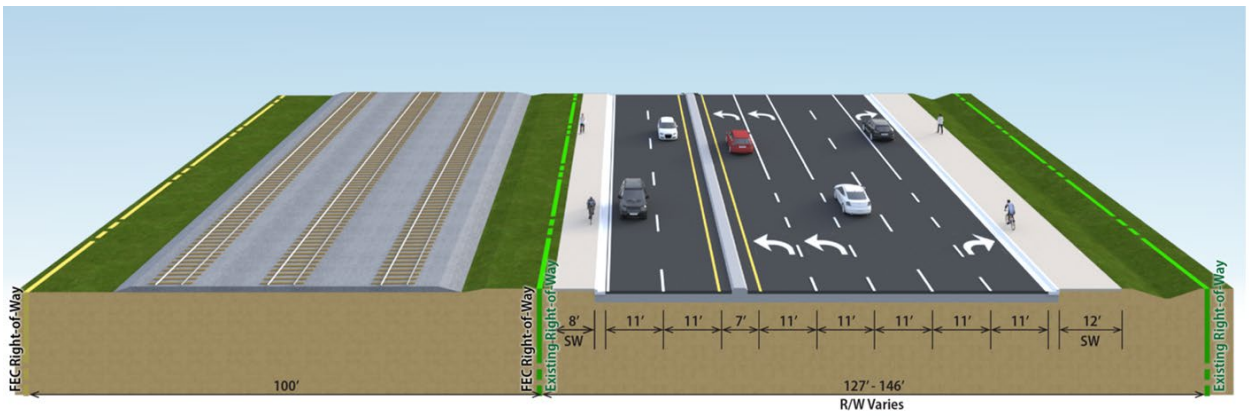


Figure 4-12: Figure 4: SE Monterey Road Extension

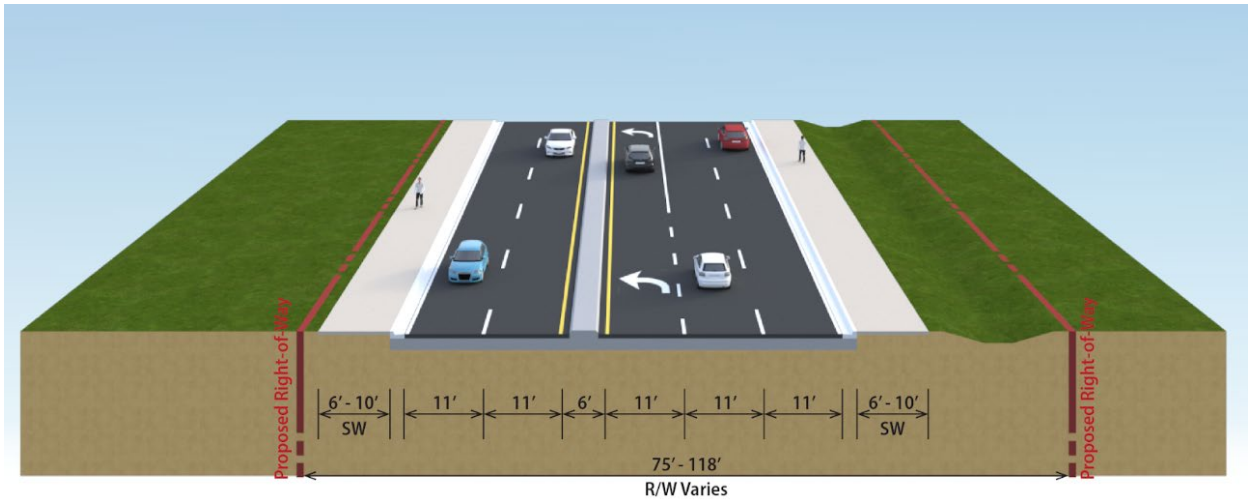


Figure 4-13: SE Grumman Boulevard (East of US 1/Federal Highway)

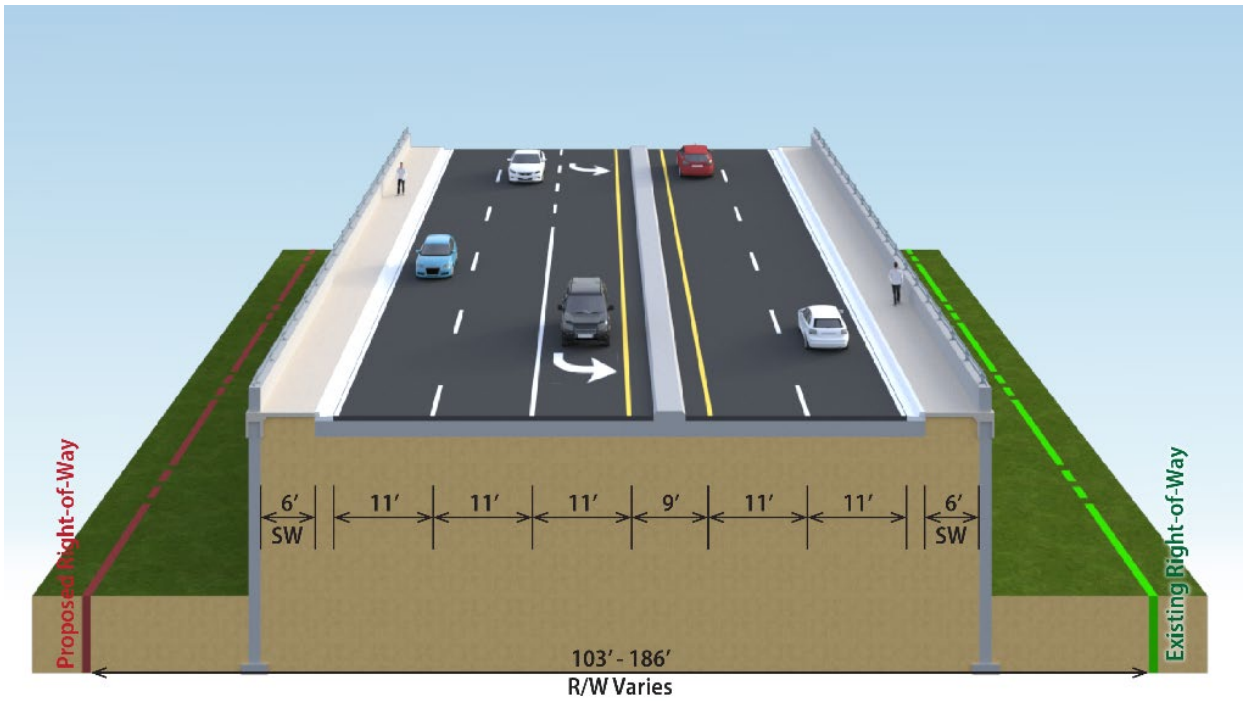


Figure 4-14: Grumman Boulevard (Over FEC Railroad)

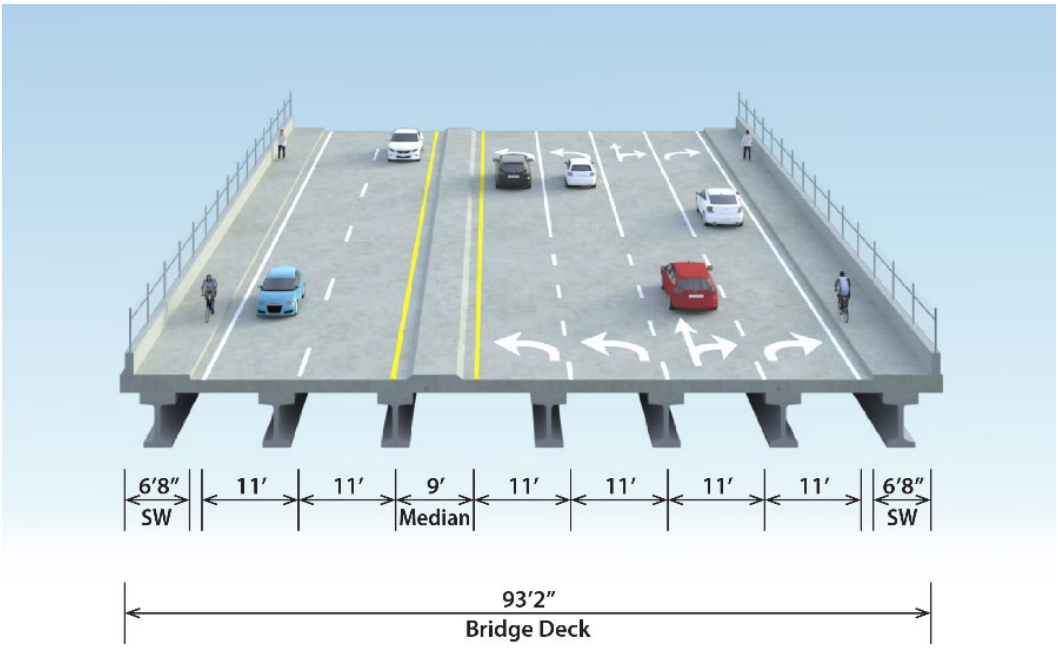
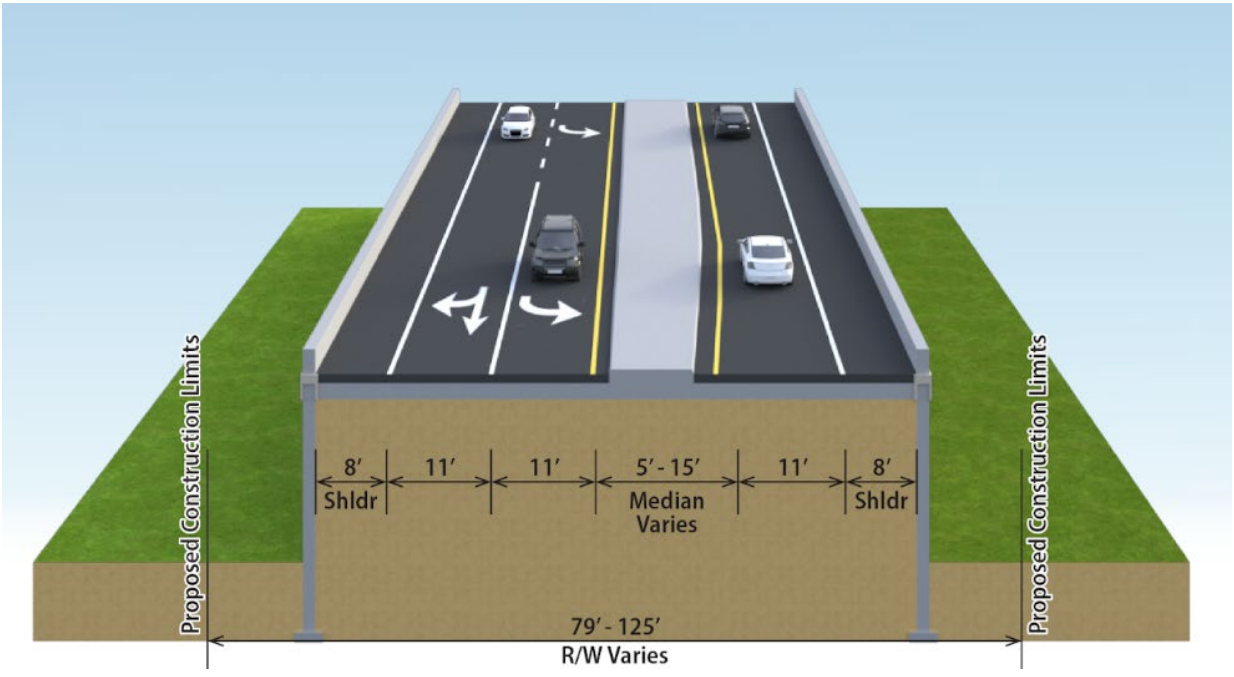


Figure 4-15: SE Airport Road East of C.R. A1A



4.4.3 Right of Way

The proposed right of way widths for each roadway segment within each alternative are shown in **Tables 4-7 – 4-9.**

Table 4-7: Proposed Right-of-Way Widths for Alternative 1

Facility	Segment	Right-of-Way (feet)
SR 714/SE Monterey Road	West of SE Dixie Highway	110-121
SR 714/SE Monterey Road	East of SE Dixie Highway	128-165
SE Dixie Highway	North of SR 714	75-84
SE Dixie Highway	South of SR 714	132-158
SE 16th Street	East of SE Dixie Highway	65-111
SE 16th St Ext	East of SE Palm Beach Road	102-111
SE Palm Beach Road	North of SE 16th St	70-74
SE Palm Beach Road	South of SE 16th St	82-88

Table 4-8: Proposed Right-of-Way Widths for Alternative 2

Facility	Segment	Right-of-Way (feet)
SR 714/SE Monterey Road	West of SE Dixie Highway	110-121
SR 714/SE Monterey Road	East of SE Dixie Highway	128-165
SE Dixie Highway	North of SR 714	75-84
SE Dixie Highway	South of SR 714	132-158
SE 16th St Ext	East of SE Palm Beach Road	102-122
SE Palm Beach Road	North of SE 16th St	70-74
SE Palm Beach Road	South of SE 16th St	82-88

Table 4-9: Proposed Right-of-Way Widths for Alternative 3

Facility	Segment	Right-of-Way (feet)
SR 714/SE Monterey Road	West of SE Dixie Highway	122-130-
SR 714/SE Monterey Road	West of US 1/Federal Highway	80-112
SR 714/SE Monterey Road	East of US 1/Federal Highway	85-95
CR A1A/SE Dixie Highway	North of SR 714/SE Monterey Road	65
CR A1A/SE Dixie Highway	South of SR 714/SE Monterey Road	127-146
SE Monterey Road Extension	West of US 1/Federal Highway	75-118
SE Grumman Blvd	East of US 1/Federal Highway	103-186

There are approximately 6.44 Acres of right-of-way acquisition required to construct Alternative 1, impacting 43 parcels. Alternative 2 required 6.12 Acres of ROW to construct, impacting 22 parcels. Alternative 3 required 7.17 Acres of ROW to construct, impacting 24 parcels. It should be noted that Alternative 3 includes the pond areas that need to be obtained. Alternative 1 and 2 do not include pond areas that would be needed to treat those alternatives. Total cost of right-of-way acquisition will be updated with the final PER. Coordination during final design will determine the final right-of-way requirements of the project.

4.4.4 Context Classification

The existing context classifications for SR 714, CR A1A/SE Dixie Highway US 1/SE Federal Highway and SE Monterey Road Extension will remain as it is today for all Alternatives. For Alternative 3,. SE Grumman Boulevard are recommended to have a Context Classification of C4 – Urban General.

Table 4-10: Alternatives Context Classification

Facility	Begin	End	Classification
SR 714/SE Monterey Road	MP 0.000	MP 2.060	Urban General (C4)
CR A1A/SE Dixie Highway	MP 18.710	MP 19.630	Urban General (C4)
CR A1A/SE Dixie Highway	MP 17.760	MP 18.710	Suburban Commercial (C3C)
SE Monterey Road Extension	MP 0.000	MP 0.349	Urban General (C4)
SE Grumman Boulevard	MP 0.000	MP 0.190	Urban General (C4)*
US1/SE Federal Highway	MP 18.530	MP 18.790	Suburban Commercial (C3C)

- *Recommended for Alternative 3*

4.4.5 Multimodal / Pedestrian and Bicycle Accommodations

All three alternatives include pedestrian and bicycle accommodation. In Alternative 1 and Alternative 2, bicycle lanes and sidewalks are provided and listed in **Table 4-11** below. If not specifically indicated, the accommodation is on both sides of the roadway.

Table 4-11: Alternative 1 and Alternative 2 Pedestrian and Bicycle Accommodations

Location	Accommodations
SR714/SE Monterey Road, west of CR A1A/SE Dixie Highway	7′ bike lanes & 5′ sidewalks
SR714/SE Monterey Road, east of CR A1A/SE Dixie Highway	7′ bike lane & 10 shared use path′ (Northside)
CR A1A/SE Dixie Highway, north of SR714/SE Monterey Road	7′ bike lane & 6′ sidewalk (Eastside)
CR A1A/SE Dixie Highway, south of SR714/SE Monterey Road	7′ bike lane & 10 shared use path (Eastside)
16th Street	7′ bike lane & 5′ sidewalk
16th Street extension	7′ bike lane & 5′ sidewalk
SE Christie Way	5′ bike lane (Southbound) & 5′ sidewalks
SE Palm Beach Road	7′ bike lane & 5′ sidewalks

Alternative 3 also provides sidewalks, shared use paths and limited bicycle lanes and listed in **Table 4-12** below.

Table 4-12: Alternative 1 and Alternative 2 Pedestrian and Bicycle Accommodations

Location	Accommodations
SR714/SE Monterey Road, west of CR A1A/SE Dixie Highway	5′ sidewalks
SR714/SE Monterey Road, east of CR A1A/SE Dixie Highway	4′ bike lane & 10′ shared use path (Northside)
CR A1A/SE Dixie Highway, south of SR714/SE Monterey Road	6′ sidewalk (Westside) & 10 shared use path (Eastside)
SE Monterey Road Extension	10 shared use path
Grumman Boulevard	6′ sidewalk
Airport Road	None
Mohawk Lane	5′ sidewalks (Westside)

4.4.6 Traffic Operations and Safety

Using Synchro's Performance Index calculations, it is possible to provide a side by side comparison of proposed build alternatives. This is particularly useful for when analyzing such a large and complicated study area. This Performance Index takes into account a variety of measures of effectiveness (MOEs) within Synchro in order to calculate an overall score for each alternative. **Table 4-13** provides the included scores for each peak hour analyzed and an overall combined score for each alternative.

Table 4-13: Performance Index Comparison

AM Peak							
Network Totals	**2022 Existing**	**2050 No Build**	**2050 NB-TSM&O**	**2050 Alt1**	**2050 Alt1-TSM&O**	**2050 Alt3**	**2050 Alt3-TSM&O**
Number of Intersections	23	23	23	27	27	23	23
Total Dealy (hr)	339	1,310	842	1,347	863	1,154	752
Stops (#)	22,475	37,710	42,233	39,198	43,021	36,581	40,702
Average Speed (mph)	21	11	15	12	16	12	16
Total Travel Time (hr)	703	1,843	1,396	1,950	1,465	1,649	1,249
Distance Traveled (mi)	14,432	21,159	21,064	23,379	23,379	19,560	19,560
Fuel Consumed (gal)	993	2,106	1,791	2,225	1,915	1,918	1,669
Fuel Economy (mpg)	14.5	10	11.8	10.5	12.2	10.2	11.7
Performance Index	401.2	1,415	960	1,456	982	1,256	886
PM Peak							
Network Totals	**2022 Existing**	**2050 No Build**	**2050 NB-TSM&O**	**2050 Alt1**	**2050 Alt1-TSM&O**	**2050 Alt3**	**2050 Alt3-TSM&O**
Number of Intersections	23	23	23	27	27	23	23
Total Dealy (hr)	414	1,940	1,345	1,868	1,289	1,780	1,099
Stops (#)	25,549	43,675	50,760	45,878	51,971	43,297	47,452
Average Speed (mph)	20	10	12	10	13	10	14
Total Travel Time (hr)	834	2,550	1,977	2,558	1,979	2,364	1,686
Distance Traveled (mi)	16,665	24,245	24,120	26,691	26,691	23,018	23,019
Fuel Consumed (gal)	1,154	2,735	2,356	2,787	2,429	2,568	2,115
Fuel Economy (mpg)	14.4	8.9	10.2	9.6	11	9	10.9
Performance Index	484.6	2,061	1,486	1,995	1,434	1,900	1,231
Combined Performance Index	866	3,476	2,445	3,451	2,416	3,156	2,097
Rank	-	6	3	5	2	4	1

As shown in **Table 4-13**, Alternative 3-TSM&O demonstrates the best potential improvements over the No Build scenario.

Next, this section quantifies the benefits of the proposed project alternatives using Federal Highway Administration's (FHWA) Crash Modification Factors (CMF).

4.4.6.1 Selection of Crash Modification Factors

The alternatives identified with this analysis limit the types of CMFs that can be applied. In fact, the only factor identified was the Conversion of an At-Grade Intersection into a Grade-Separated Interchange (CMF ID:459). For Alternative 1, the existing at-grade intersection of SR 714/Monterey Road and CR A1A would be converted to a grade-separated interchange. Unfortunately, Alternative 3, which essentially only adds a new leg to an existing intersection, does not benefit from any identified CMFs. However, Alternative 3 does significantly reduce traffic volumes along SR 714/Monterey Road, at CR A1A, which may add an unquantifiable safety benefit due to reduced exposure.

4.4.6.2 Safety Benefit Calculation

A described the historical crash data for the intersection of SR 714/Monterey Road and CR A1A. can be found in the Project Traffic Analysis Report. For this intersection, 5-year averages for Fatal Crashes, Injury Crashes and Property Damage Only Crashes were calculated. **Table 4-14** provides the reduction in annual crashes for Alternative 1.

Table 4-14: Annual Crash Reduction Calculations

Type of Crash	CMF	No Build	Alt 1 & Alt 2	Alt 3
Fatal	0.00	0	0	NA
Injury	0.43	7	3.01	NA
Property Damage Only	0.64)	27	17.28	NA
Total	0.58	34	19.72	NA

4.4.7 Intersection and Signal Analysis

The Alternative 1 and Alternative 2 Synchro analysis was performed by modifying the existing conditions Synchro models and applying the forecasted future year 2030 and 2050 Alternative 1 and Alternative 2 turning movement volumes **Table 4-15** and **Table 4-16** includes the intersections affected by the modifications included in Alternative 2. The other study intersections experience similar delays/LOS as in the No-Build alternative. A complete table with all intersections and all alternatives

Table 4-15: Alternative 1 and 2 - Overall Intersection Delay and LOS (2030)

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 5/US 1	NA	NA	NA	NA
CR A1A at Christie Way	13.1	B	18.6	B
SR 714 at 16th Street Extension	34.3	C	29.3	C
CR A1A at 16th Street	8	A	7.3	A
SE Palm Beach Rd at 16th Street	43.5	D	41.2	D

Table 4-16: Alternative 1 and 2 - Overall Intersection Delay and LOS (2050)

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 5/US 1	NA	NA	NA	NA
CR A1A at Christie Way	13.5	B	24.7	C
SR 714 at 16th Street Extension	50.1	D	50.6	D
CR A1A at 16th Street	9.4	A	8.2	A
SE Palm Beach Rd at 16th Street	48.1	D	48.3	D

The Alternative 3 Synchro analysis was performed by modifying the existing conditions Synchro models and applying the forecasted future year 2030 and 2050 Alternative 3 turning movement volumes. **Table 4-17** and **Table 4-18** includes the intersections affected by the modifications included in Alternative 3.

Table 4-17: Alternative 3 - Overall Intersection Delay and LOS (2030)

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 5/US 1	48.8	D	63.5	E
CR A1A at SE Airport Road	43.9	D	38.8	D
US 1 at Monterey Road Extension/Grumman Boulevard	57.6	E	40.6	D

Table 4-18: Alternative 3 - Overall Intersection Delay and LOS (2030)

Intersection	AM Peak Delay	AM Peak LOS	PM Peak Delay	PM Peak LOS
SR714/SE Monterey Road at SR 5/US 1	53.7	D	99.7	F
CR A1A at SE Airport Road	45.3	D	70.1	E
US 1 at Monterey Road Extension/Grumman Boulevard	68.7	E	60	E

4.4.8 Access Management

With both Alternatives 1 and 2 having similar design concepts with exception of SE 16th Street-East of SE Dixie Highway. Access Class will be the same for both along the proposed roadway segments. With exception of SR 714/SE Monterey Road and US 1, all roadway segments are local roads. All driveways will remain open with exception to one business at Regency Square Shopping Center mentioned below. All three Alternatives proposed design roadway segments are described below.

4.4.8.1 Alternatives 1 & 2

- *SR 714/SE Monterey Road-East of US 1 will remain Class 5 having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full. Signal spacing is 1,320 feet. The proposed divided roadway will have a grass median and a 4-foot traffic separator. The intersection with CR A1A/SE Dixie Highway will be removed and a new intersection is proposed further east with the SE 16th Street Extension. This new intersection provides access to CR A1A/SE Dixie Highway and SE Palm Beach Road.*
- *CR A1A/SE Dixie Highway-North of Christie Way will remain Class 6 having a non-restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour*

(mph) (posted speed). Signal spacing is 1,320 feet. The proposed design closes the existing signalized intersection at SR 714/SE Monterey Road. Southbound travel along CR A1A/SE Dixie Highway provides access to SR 714/SE Monterey Road using SE 16th Street or Christie Way.

- *CR A1A/SE Dixie Highway-South of Christie Way will remain Class 5 having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full. Signal spacing is 1,320 feet. Northbound travel along CR A1A/SE Dixie Highway provides access to SR 714/SE Monterey Road with a right turn and aux lane to access the new signalized intersection at SE 16th Street Extension.*
- *Christie Way is a proposed two roadway that connects with SE Palm Beach Road. Proposed design is Class 6 having a non-restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). Signal spacing is 1,320 feet.*
- *SE 16th Street-East of CR A1A/SE Dixie Highway (Alt 1) will remain a local roadway. Proposed design is Class 5 having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full.*
- *SE 16th Street-East of CR A1A/SE Dixie Highway (Alt 2) will remain a local roadway. No change is proposed*
- *SE 16th Street Extension is proposed as Class 5 having a restrictive median type. Proposed local road with a design Class 5 having a restrictive median type. This roadway segment is from SE Palm Beach Road heading southeast to connect with SR 714/SE Monterey Road with both intersections being signalized. The divided roadway will have a grass median and a 4-foot traffic separator going from both intersections. No connection spacing is proposed. Signal spacing meets design criteria.*
- *SE Palm Beach Road will remain a local roadway. Proposed design is Class 6 having a non-restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). Signal spacing is 1,320 feet.*

4.4.8.2 Alternative 3

- *SR 714/SE Monterey Road-East of CR A1A/SE Dixie Highway will remain Class 5 having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles*

per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full. Signal spacing is 1,320 feet.

- *SR 714/SE Monterey Road-West of CR A1A/SE Dixie Highway is proposed Class 5 having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). Signal spacing is 1,320 feet. A 4-foot traffic separator is proposed to provide safety at the Stuart North shopping center.*
- *US 1-South of SR 714/SE Monterey Road will remain Class 5 having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full. Signal spacing is 1,320 feet. A median opening is proposed between SR 714/SE Monterey Road and SR 714/SE Monterey Road to provide access to the Stuart North shopping center. The right-only out driveway is proposed to be moved further north away from the signalized intersection with Grumman Blvd.*
- *CR A1A/SE Dixie Highway-North of SR 714/SE Monterey Road no change is proposed*
- *CR A1A/SE Dixie Highway-South of SR 714/SE Monterey Road will remain Class 5 having a restrictive median type. The connection spacing is 440 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 1320 feet for directional and 2640 feet for full. Signal spacing is 2,640 feet.*
- *SE Monterey Road Extension is proposed as Class 5, having a restrictive median type. The connection spacing is 245 feet for less than or equal to 45 miles per hour (mph) (posted speed). The median opening spacing is 660 feet for directional and full. Signal spacing is 1,320 feet. This roadway segment is from SR 714/SE Monterey Road to US 1/SE Federal Highway with both intersections being signalized. Closing one driveway at Regency Square Shopping Center that is within a right turn lane movement.*
- *SE Grumman Boulevard is proposed as Class 5, having a restrictive median type and signal spacing is 1,320 feet. This roadway segment is from US 1/SE Federal Highway to CR A1A/SE Dixie Highway with both intersections being signalized. The roadway median will have a 4-foot traffic separator going from both intersections.*

4.4.9 Drainage and Stormwater Management Facilities

The Pond Siting Report was performed for Alternative 3. Based on a comprehensive engineering evaluation, desktop GIS screening, and the June 2026 field review, the selection and configuration of the Stormwater Management Facilities (SMFs) for the State Road (SR) 714 grade-separated overpass project are finalized. The recommended stormwater strategy successfully achieves all

regional and statewide performance criteria while strictly respecting local socio-economic and geometric constraints.

The preferred configuration implements three (3) distinct dry detention ponds distributed across two of the project's localized drainage basins, alongside an underground exfiltration trench system deployed within the remaining heavily constrained corridor footprint:

- *SMF Pond 1-1 (Basin 1): Recommended for construction within the surplus right-of-way of the old SE Dixie Highway alignment. The design sets a pond bottom elevation of +11.00 feet NAVD 88 and a top of berm elevation of +16.00 feet NAVD 88. It carries an overall rating of "Good" due to the use of right-of-way dedicated to CR A1A and zero anticipated involvements with wetlands, contamination, or listed species. The pond's geometry is technically modified to preserve access to the adjacent Stuart County Fairgrounds parking facilities.*
- *SMF Swale 1 (Sub-Basin 2): Recommended for construction west of the FEC Railway tracks near the dead end of SE Monterey Road. It carries an overall rating of "Fair" due to a "LOW" wetland involvement rating (less than 20% encroachment on an existing private wet pond) and an feasible estimated right-of-way acquisition/easement cost affecting private parcel ID 15-38-41-000-000-00030-6. The pond bottom is set at +8.00 feet NAVD 88 and the top of berm at +13.00 feet NAVD 88.*
- *SMF Pond 2-1 (Basin 2): Recommended for construction east of the FEC tracks along the northern limits of SE Monterey Road. This facility involves regrading and expanding an existing dry pond within a cleared public parcel previously acquired for airport runway protection. It carries an overall rating of "Good" due to the use of right-of-way associated with stormwater runoff and zero anticipated involvements with wetlands, contamination, or listed species. The pond bottom is set at +8.00 feet NAVD 88 and the top of berm at +13.00 feet NAVD 88.*
- *SMF Pond 3-2A, Pond 3-2B (Basin 3): Recommended for construction along SE Monterey Road. This facility involves the construction of two dry ponds and hydraulically supplemented by a reduced length of exfiltration trench system (100 feet) within the existing right of way, and in combination with the improvement of an existing gravity trunk line. It carries an overall rating of "Good" due to reduced maintenance cost, low impacts on existing utilities, and zero anticipated involvements with wetlands, contamination, or listed species. The invert of the French pipe will be set at +7.50 feet NAVD 88, and the ponds bottom will be set at +9.00 feet NAVD 88 and the top of berm at +15.00 feet NAVD 88.*

4.4.10 Water Quality

Preliminary engineering assessments confirm that existing right of way contains sufficient surplus area to accommodate the water quality treatment and peak quantity attenuation required for the new impervious areas.

4.4.11 Hydrology and Floodplains

The proposed stormwater management system will consist of an integrated network of dry detention ponds and conveyance swales designed to provide adequate storage and attenuation for project-generated runoff. These facilities will be hydraulically interconnected and engineered to provide full compensatory storage, thereby ensuring that post-development stormwater volumes and discharge characteristics are consistent with pre-development conditions.

Although the project corridor is located within Flood Zone X as delineated on the FEMA Flood Insurance Rate Maps and therefore lies outside the regulatory 100-year floodplain, the stormwater management system will still be designed in accordance with the applicable criteria established by the SFWMD.

The proposed improvements will not impact the floodplain, and any encroachment volume will be mitigated.

4.4.12 Utilities and Railroads

Utilities

Impacts are estimated to occur to buried and overhead telephone, water main, force main, sanitary sewer main, sewer laterals, water meter, fire hydrants, gas main, overhead electric, and overhead fiber optic cable for all Alternatives. The estimated impacts to utility facilities resulting from the recommended Preferred Alternative will be itemized in the Final Utility Assessment Package prepared for the PD&E Study.

Railroad Crossings

S.R. 714/Monterey Road intersects the FEC railroad at crossing number 272353M. For Alternatives 1 and 2, the crossing will become a grade separated crossing. The improvements associated with Alternative 3 will not physically impact this crossing but will reduce the number of vehicles utilizing the crossing.

CR A1A/SE Dixie Highway intersects the FEC railroad spur at crossing number 272929N. This crossing is not altered for Alternatives 1 or 2. The improvements associated with Alternative 3 will convert this at-grade crossing to a grade-separated crossing.

This project will create a new roadway crossing of the FEC Railway. The new crossing will connect existing SE Grumman Boulevard to the intersection of CR A1A/SE Dixie Highway and SE Airport Road with a grade-separated crossing over the FEC Railway.

If the closure of 272929N is determined to be acceptable, the FDOT Railroad Closure Application process would commence as a separate project outside of this PD&E study.

4.4.13 Traffic Control Strategies

Transportation Management Plan (TMP)

The TMP involves strategies to manage the work zone impacts of a project and may include the following three components:

- *Temporary Traffic Control Plan*
- *Transportation Operations Plan*
- *Public Information Plan*

4.4.13.1 Temporary Traffic Control Plan (TTC)

Alternative 1

The TTC plan will consist of three main phases of work which are:

- *Phase 1 – Widen SR 714 beyond the northern limits of the proposed overpass bridge and walls. Construct new SE 16th Street roadway connection between SE Palm Beach Road and SR 714. Construct northbound portion of the new bridge over SE Dixie Highway. Construct wall segments and northbound pavement tie-in to SR 714.*
- *Phase 2 – Widen SE 16th Street and construct new signalized intersection at SE Dixie Highway. Widen SE Christie Way and SE Palm Beach Road. Construct new signal at the SE Christie Way intersection at SE Dixie Highway.*
- *Phase 3 – Close the existing SE Christie Way intersection at SE Dixie Highway. Construct the remainder of the SR 714 bridge southbound with traffic shifted to the northbound portion of*

the bridge. Complete widening and improvements to SE Dixie Highway. Complete widening and intersection improvements at the US 1 and SR 714 intersection.

Alternative 2

The TTC plan will consist of three main phases of work which are:

- *Phase 1 – Widen SR 714 beyond the northern limits of the proposed overpass bridge and walls. Construct new SE 16th Street roadway connection between SE Palm Beach Road and SR 714. Construct northbound portion of the new bridge over SE Dixie Highway. Construct wall segments and northbound pavement tie-in to SR 714.*
- *Phase 2 –Widen SE Christie Way and SE Palm Beach Road. Construct new signal at the SE Christie Way intersection at SE Dixie Highway.*
- *Phase 3 – Close the existing SE Christie Way intersection at SE Dixie Highway. Construct the remainder of the SR 714 bridge southbound with traffic shifted to the northbound portion of the bridge. Complete widening and improvements to SE Dixie Highway. Complete widening and intersection improvements at the US 1 and SR 714 intersection.*

Alternative 3

The TTC plan will consist of three main phases of work which are:

- *Phase 1 – Partially utilizing temporary pavement shift SE Dixie Highway to the northeast. Relocate the existing signal at SE Airport Road. Construct the FEC RR overpass bridge, Grumman Boulevard Extended widening and walls. Partially construct the southeastern portion of SE Dixie Highway and partially construct the Railroad spur bridge.*
- *Phase 2 – Construct Mohawk Lane Extension from Whitman Field Drive to SE Airport Road. Install a temporary signal at SE Dixie Highway and Whitman Field Drive. Close SE Airport Road and utilize Mohawk Lane Extension for access to the Airport. Shift Traffic on SE Dixie Highway to the newly constructed elevated portion of SE Dixie Highway and construct the remainder of the northbound side of SE Dixie Highway and the Railroad Spur bridge. Complete the walls and connection to SE Airport Drive.*
- *Phase 3 – Open Grumman Boulevard Extended, the completed SE Dixie Highway and SE Airport Road along with the new signalized SE Dixie Highway intersection. Construct widening on SE Monterey Road Extended and SR 714. Construct improvements on US 1.*

4.4.13.2 Transportation Operations Plan (TOP)

The Transportation Operations Plan (TOP) examines strategies to improve mobility, work zone access, and safety. The strategies typical fall within four categories, demand management, corridor/network management, work zone traffic management and safety management and enforcement. Given the nature of the corridor, the three categories that the strategies are anticipated to fall into are work zone traffic management, safety management and enforcement and corridor/network management. These strategies can range from utilizing messaging signs to inform of public of construction activates/impacts to messaging signs with speed displays to warning lights. Since all three alternatives alter and add new network connections an intensive public outreach will be needed to inform the public of these changes in advance of their implementation.

4.4.13.3 Public Information Plan

The Public Information Plan would have similarities to the one prepared for this PD&E Study. The FDOT Public Information Office would notify the public of important construction elements such as lane closures and detours.

Constructability

The constrained nature of the right-of-way will present some construability challenges. Crane placement and staging must occur outside of the FEC Railroad right of way as an example. This may prove more challenging during the overpass construction required under Alternatives 1 and 2. The crane will need to be placed within SE Dixie Highway to drive piling and set bridge girders. The footprint required for this operation may present a challenge in maintaining the current lane configuration on SE Dixie Highway. For Alternative 3, constrained right-of-way on SE Dixie Highway at the RR Spur Bridge and Wall Construction may require a reduction in lanes during a portion of the phased construction to complete the elevated portion of SE Dixie Highway. Railroad flagging and involvement in all phases over or near the railroad tracks will also be required during some phases of construction for all three alternatives. A general construction sequence would involve initial Maintenance of Traffic (MOT) setup, utility coordination and relocation (if necessary), followed by earthwork and drainage improvements, and concluding with pavement construction and final restoration. The bridge pile driving, drilling, and crane operations require coordination with the Martin County Airport, FAA and FEC.

Construction Impacts

Temporary construction-related impacts are expected to include minor increases in noise, dust, and emissions due to equipment operations. Standard FDOT specifications and Best Management Practices (BMPs) will be employed to minimize effects on air and water quality. Maintenance of traffic will be coordinated to ensure continued access for local residences and businesses, with provisions for emergency vehicle access. No long-term impacts to threatened or endangered species are anticipated.

4.4.14 Project Costs

The construction cost for all three alternatives was estimated using the Long-Range Estimate (LRE) cost estimating tool. In addition to the construction cost, Right of Way cost were determined for the footprint of each Alternative. These cost are included in the Comparison Matrix in Section 4.7. Cost not included are pond sites, Design, Construction Engineering Inspection (CEI), or Utility Relocation Costs, which will be determined during the preliminary design phase based on field survey data. The LRE for the Preferred Alternative is in Appendix E

A breakdown of the costs (Right of Way and Construction) associated with the each Alternative are as follows:

- *Alternative 1: $71.3M*
- *Alternative 1: $62.3M*
- *Alternative 1: $65.4M*

4.4.15 Design Variations and Exceptions

Bike lane and border width variations are proposed for all three alternatives.

4.4.16 ITS TSM&O Strategies

TSM&O strategies were discussed in Section 4.2. No ITS strategies are anticipated other than preemptive signals for Emergency Services.

4.4.17 Lighting

For all of the alternatives, proposed lighting will be consistent with existing lighting.

4.4.18 Structures and Bridges

Alternatives 1 and 2 propose a grade separation over FEC railroad and C.R. A1A, along the S.R. 714 alignment with a two span bridge. Refer to Section 4.4.2 for the bridge typical section.

Alternative 3 proposes a grade separation over FEC railroad elevating Grumman Blvd to extend to elevated C.R. A1A, with a single span bridge. A second grade separation is proposed over FEC railroad spur along the elevated section of C.R. A1A, with a skewed single span bridge. Refer to Section 4.4.2 for the bridge typical sections.

Appendix A provides the preferred bridge typical sections and Appendix B provides the preferred bridge concept and profile. A Bridge Development Report will be completed during Final Design.

4.4.19 Social

The proposed improvements are not expected to disproportionately affect minority, low income, or disadvantaged populations. Alternatives 1 and 2 are anticipated to have greater social effects due to their proximity to established neighborhoods north of SE Monterey Road and east of SE Dixie Highway, with potential impacts on access, noise, visual character, and temporary construction disruptions.

Alternative 3 is expected to have a lower degree of effect on residential areas, though it may have comparatively greater impacts on nearby commercial properties.

4.4.20 Economic

All three alternatives are expected to deliver long-term economic benefits through improved mobility, operations, and accessibility. Alternative 3 is anticipated to have a Moderate economic effect due to slightly higher poverty rates in its study area and greater potential impacts on adjacent businesses. Alternatives 1 and 2 are expected to have minimal economic effects.

4.4.21 Land Use Changes

The proposed improvements are consistent with the Martin County 2045 Long Range Transportation Plan and Cost Feasible Plan. All three alternatives will have moderate land use effects along the project limits, primarily near the FEC Railroad crossing. Because the study area is already largely developed, no changes to future land use are anticipated.

4.4.22 Historic Site/Districts

Within 500 feet of all three alternatives, three recorded historic resource groups are present:

- *FEC Railroad (8MT01450)*
- *Dixie Highway (8MT01621)*
- *Witham Field Airport (8MT01573)*

The Florida State Historic Preservation Office (SHPO) has determined the FEC Railroad and Dixie Highway eligible for listing in the NRHP, and the project corridor lies within five SHPO survey boundaries. No Adverse Effect on historic sites and districts is anticipated for all three alternatives. Refer to the Cultural Resource Assessment Survey report and Case Study that was prepared as part of the PD&E Study. No archaeological sites are within the area of potential effects (APE).

4.4.23 Section 4(f)

Within the project area, the East Coast Greenway is identified within the roadway right of way of C.R. A1A (SE Dixie Highway). It is identified as a priority trail corridor by the Florida Office of Greenways and Trails and identified as part of the SUN Trail Network as Partially Funded for Pre-Construction. The Greenway trail has been constructed approximately 3 miles south of the project area within the C.R. A1A right of way south of SE Cove Road and approximately 2 miles north of the project area within the C.R. A1A right of way north of the St. Lucie River.

The proposed project concepts are designed to accommodate a 12-foot-wide shared use path within the transportation right of way of C.R. A1A. The trail opportunities are identified within the roadway right of way, but not limited to a specific location within the right of way. As the project design allows for the continuity of the trails, a use of land would not occur, in accordance with 23 CFR 774.13(f)(3) and Question 15C of the Section 4(f) Policy Paper.

4.4.24 Protected Species and Habitat

Based on literature and field reviews, seventy (70) species of protected plants and animals have the potential to occur in Martin County and the systems of the project study area. Eighteen (18) of the species are federally listed endangered, threatened, or proposed for listing. After evaluating the habitat requirements for each species, the types of habitats present within the project study area, and habitats being impacted, effect determinations were made for each species and are presented in **Table 4-19.**

Table 4-19: Effect Determination for Federally Listed Species

Scientific Name	Common Name	USFWS Designation	Effect Determination
LICHENS			
Cladonia perforata	Perforate reindeer lichen	E	No Effect
PLANTS			
Asimina tetramera	Four-petal pawpaw	E	No Effect
Jacquemontia reclinata	Beach jacquemontia	E	No Effect
Polygala smallii	Tiny polygala	E	No Effect
INSECTS			
Danaus plexippus	Monarch butterfly	PT	Not Applicable
REPTILES			
Alligator mississippiensis	American alligator	SAT	No Effect
Crocodylus acutus	American crocodile	T	No Effect
Drymarchon couperi	Eastern indigo snake	T	NLAA
BIRDS			
Aphelocoma coerulescens	Florida scrub jay	T	No Effect
Caracara plancus	Crested caracara	T	No Effect
Dryobates borealis	Red-cockaded woodpecker	T	No Effect
Laterallus jamaicensis ssp.	Eastern black rail	T	No Effect
Rostrhamus sociabilis	Everglade snail kite	E	No Effect
MAMMALS			
Felis concolor cory	Florida panther	E	No Effect
Felis concolor	Puma	SAT	No Effect
Eumops floridanus	Florida bonneted bat	E	MANLAA
Perimyotis subflavus	Tricolored bat	PE	No Effect
Peromyscus polionotus niveiventris	Southeastern beach mouse	T	No Effect

E = Endangered
T = Threatened
PE = Proposed Endangered
PT = Proposed Threatened
SAT = Similarity of Appearance (Threatened)
NLAA = Not Likely to Adversely Affect
MANLAA = May affect, not likely to adversely affect

Fifty (50) additional species are state listed endangered or threatened. After evaluating the habitat requirements of each species, the types of habitats present within the project study area, and habitats being impacted by alternatives, effect determinations were made for each species and are presented in **Table 4-20**.

Table 4-20: Effect Determination for State Listed Species

Scientific Name	Common Name	FWC/FDACS Designation	Effect Determination
PLANTS			
Acrostichum aureum	Golden leather fern	T	No Effect Anticipated
Aeschynomene pratensis var. pratensis	Meadow jointvetch	E	No Effect Anticipated
Asclepias curtissii	Curtiss' milkweed	E	No Effect Anticipated
Bletia purpurea	Pine-pink	T	No Effect Anticipated
Calopogon multiflorus	Many-flowered grass-pink	T	No Effect Anticipated
Cheiroglossa palmata	Hand fern	E	No Effect Anticipated
Chrysophyllum oliviforme ssp. oliviforme	Satinleaf	T	No Effect Anticipated
Coleataenia abscissa	Cutthroatgrass	E	No Effect Anticipated
Conradina grandiflora	Large-flowered rosemary	T	No Effect Anticipated
Ctenitis sloanei	Florida tree fern	E	No Effect Anticipated
Eltroplectris calcarata	Spurred neottia	E	No Effect Anticipated
Epidendrum nocturnum	Night-scented orchid	E	No Effect Anticipated
Erithalis fruticosa	Blacktorch	T	No Effect Anticipated
Lechea divaricata	Pine pinweed	E	No Effect Anticipated
Lilium catesbyi	Pine lily	T	No Effect Anticipated
Linum smallii	Small's flax	E	No Effect Anticipated
Meniscium serratum	Toothed maiden fern	E	No Effect Anticipated
Nemastylis floridana	Celestial lily	E	No Effect Anticipated

Scientific Name	Common Name	FWC/FDACS Designation	Effect Determination
Nephrolepis biserrata	Giant sword fern	T	No Effect Anticipated
Orthochilus ecristatus	Giant orchid	T	No Effect Anticipated
Pecluma dispersa	Widespread polypody	E	No Effect Anticipated
Pecluma plumula	Plume polypody	E	No Effect Anticipated
Pecluma ptilodon ssp. caespitosum	Comb polypody	E	No Effect Anticipated
Peperomia humilis var. humilis	Terrestrial peperomia	E	No Effect Anticipated
Peperomia obtusifolia var. obtusifolia	Blunt-leaved peperomia	E	No Effect Anticipated
Pinguicula caerulea	Blueflower butterwort	T	No Effect Anticipated
Pinguicula lutea	Yellow flowered butterwort	T	No Effect Anticipated
Platanthera nivea	Snowy orchid	T	No Effect Anticipated
Pogonia ophioglossoides	Rose pogonia	T	No Effect Anticipated
Polystachya concreta	Pale-flowered polystachya	E	No Effect Anticipated
Sacoila lanceolata	Leafless beaked ladies'-tresses	T	No Adverse Effect Anticipated
Spiranthes laciniata	Lace-lip ladies'-tresses	T	No Effect Anticipated
Spiranthes longilabris	Giant spiral ladies'-tresses	T	No Effect Anticipated
Tillandsia balbisiana	Balbis' airplant	T	No Effect Anticipated
Tillandsia fasciculata	Common wild-pine	E	No Effect Anticipated
Tillandsia flexuosa	Banded wild-pine	T	No Effect Anticipated
Tillandsia utriculata	Spreading air-plant	E	No Adverse Effect Anticipated
Tillandsia variabilis	Soft-leaved wild-pine	T	No Effect Anticipated
Trichostigma octandrum	Hoop vine	E	No Effect Anticipated
Tripsacum floridanum	Florida gamagrass	T	No Effect Anticipated

Scientific Name	Common Name	FWC/FDACS Designation	Effect Determination
Zephyranthes simpsonii	Redmargin zephyrlily	T	No Adverse Effect Anticipated
REPTILES			
Gopherus polyphemus	Gopher tortoise	T	No Adverse Effect Anticipated
Pituophis melanoleucus	Pine snake	T	No Adverse Effect Anticipated
BIRDS			
Antigone canadensis pratensis	Florida sandhill crane	E	No Adverse Effect Anticipated
Athene cunicularia floridana	Florida burrowing owl	E	No Adverse Effect Anticipated
Egretta caerulea	Little blue heron	T	No Effect Anticipated
Egretta tricolor	Tricolored heron	T	No Effect Anticipated
Mycteria americana	Wood stork	T	No Adverse Effect Anticipated
Rynchops niger	Black skimmer	T	No Effect Anticipated
Sternula antillarum	Least tern	T	No Effect Anticipated

T = Threatened
E = Endangered

4.4.25 Wetlands and Other Surface Waters

Two (2) wetland and other surface water (OSW) community types were identified within the project area: streams and waterways (roadside ditches) and reservoirs (stormwater management facilities. Direct impacts are assumed for the entire existing and proposed right of way. Wetland and OSW impacts are presented in **Table 4-21**.

Table 4-21: Alternative 3 Wetland and OSW Impacts

FLUCFCS Code	Description	USFWS Code	Impact Type	Alternative 1 Impact (Acres)	Alternative 2 Impact (Acres)	Alternative 3 Impact (Acres)
510	Streams and Waterways (Roadside Ditches)	PEM1Cx	Direct (Dredge and Fill)	0.20	0.20	0.83
534	Reservoirs less than 10 acres	PUBHx	Direct (Dredge and Fill)	0	0	0.21
			Total	**0.20**	**0.20**	**1.04**

The upland cut ditches (OSWs) and stormwater ponds (reservoirs) being impacted are manmade features constructed for the conveyance of water as part of the surface water management system and are being replaced as part of the project and not mitigated. The replacement area will provide comparable ecological functional value to the abundance, diversity, and habitats of fish, wildlife, and listed species as provided by the impacted areas.

4.4.26 Highway Traffic Noise

The noise analysis was performed on Alternative 3. The feasibility of constructing a noise barrier as an abatement option was assessed before evaluating its reasonableness. The project area includes several engineering constraints that would limit the ability to construct and maintain a noise barrier, such as insufficient ROW available to construct and maintain a noise barrier; impacts to overhead electric lines, utility poles, and drainage features; and the presence of driveways and access roads limiting the construction of a continuous and effective noise barrier.

Design year (2045) traffic noise levels for the Preferred Build Alternative are predicted to meet or exceed the FDOT NAC at six residences but at none of the SLUs within the project limits. Four of the impacted residences are within the Kingman Acres Condominiums development (NAA 1/CNE 1). Two of the impacted single-family residences are located within Lawler Heights subdivision (NAA 3/CNE 4). The feasibility and reasonableness of noise barriers were assessed for these six impacted noise-sensitive sites.

The four impacted residences within the Kingman Acres Condominiums development are located along the south side of SE Monterey Road Extension. The feasibility review indicated that there are several engineering constraints that limit the ability to construct and maintain a noise barrier. The proposed improvements to the SE Monterey Road Extension would leave insufficient ROW

available to construct and maintain a noise barrier. In addition, impacts to overhead electric lines, utility poles, and drainage features would need to be considered. The community entrance at SE Edler Drive would also prevent construction of a continuous noise barrier. Therefore, noise barriers were not considered a feasible abatement measure at this location and were not recommended for further consideration.

The two impacted residences within Lawler Heights subdivision are located along the east side of SE Dixie Highway. The feasibility review indicated that an effective noise barrier at this location would block direct access to these residences. Therefore, noise barriers were not considered a feasible abatement measure at this location and were not recommended for further consideration.

Based on the noise analysis, no feasible noise-abatement measures are available for the six impacted residences within the project area. Therefore, impacts to these residences are an unavoidable consequence of the project.

4.4.27 Contamination

This contamination screening evaluation included reviewing environmental databases and aerial photographs, as well as assigning contamination risk ratings for each source within the project buffers, as defined in the PD&E manual. A total of 60 potential contamination sites were identified through this evaluation. Recommendations for future actions for high and medium risk rated sites are outlined by site listing in the table below. No actions are recommended for low and no risk rated sites.

Table 4-22: High and Medium Risk Rated Site Recommendations

Site No.	Site Name	Alt 1	Alt 2	Alt 3	Recommendation
H1	Central Concrete Supermix and Other Associated Sites	Y	Y	N	The current status of the release or environmental condition of the site could not be determined from available records. Coordinate with FDEP to retrieve current site status. If monitoring or remediation is ongoing or the site received a conditional site closure, coordinate with FDEP regarding next steps. If an SRCO without conditions was received for the site, no further action is necessary.
H2*	TurboCombuster Technology, Inc. / City Of Stuart Well Field Contamination Part A-1988	N	N	N	Site investigation or remediation associated with this site is ongoing and a contamination plume associated with this site is present. Future actions should be coordinated with FDEP.
H3	City of Stuart / City of Stuart Old Landfill /Landfill Green Reuse Area / Stuart Landfill	Y	Y	Y	Contamination in connection with this site may have impacted the project area. Future actions should be coordinated with FDEP and the City of Stuart.
H4	City of Stuart Fire Station No. 2	N	N	Y	This facility is a suspected source of city-wide PFAS contamination. Coordinate with FDEP and the City of Stuart to determine next steps.
H5	Stuart Centre Shopping Plaza Stuart Centre Investors 1,2-DCP /Stuart Square Shopping Center	Y	Y	Y	Contamination in connection with this site may have impacted the project area. Future actions should be coordinated with FDEP and the City of Stuart.
H6	City of Stuart Wellfield / SE Dixie Highway and Monterey Road Groundwater Contamination / Stuart 1,2 DCP Plume	Y	Y	Y	Contamination in connection with this site and Site No. H5 may have impacted the project area. Future actions should be coordinated with FDEP and the City of Stuart.
H7	Former Northrop Grumman and Other Associated Sites	Y	Y	Y	Site investigation or remediation associated with this site is ongoing. Future actions should be coordinated with FDEP and the City of Stuart.
H8	Martin County Airport / Witham Field and Others	Y	Y	Y	Contamination in connection with this site and nearby sites may have impacted the project area. Future actions should be coordinated with FDEP and the City of Stuart.
M1	Stuart Ready Mix Concrete / Titan America-Stuart Ready Mix / Titan Florida LLC Stuart / Titan Florida – Stuart RMC / Tarmac America -Stuart RMC	Y	Y	Y	Conduct Phase II Assessment.

* This site is not within the applicable alternative buffers, but the plume generated from the site is or has been located within the project study area.

4.5 PROJECT SPECIFIC CONSIDERATIONS

4.5.1 Value Engineering

A Draft Value Engineering (VE) study was conducted in the week of June 22, 2026. The VE Team generated 106 ideas during the speculation phase. Of those 106 ideas, 11 ideas were evaluated as acceptable for further evaluation and 14 designated as design suggestions. Ten design proposals were selected for consideration, 1 idea was dropped as it was a cost-cutting measure only as noted in Section 5 of the Draft Value Engineering Report -District 4 VE Study # 2600405, dated June 22-26, 2026.

Proposals (P)

The 10 design proposals were presented to the PD&E team for responses. A summary of the VE proposals cost change and PD&E Team responses are shown in **Table 4-23** below. The analysis for the proposals and design suggestions are detailed in Section 6 of the Draft Value Engineering Report -District 4 VE Study # 2600405, dated June 22-26, 2026.

Table 4-23: VE Proposals and PD&E Responses

VE Proposal No.	Description	"Accept", "Reject", or "Needs Further Study"	Acceptance Comments
P1	Construct Mohawk Lane to Improve Airport Access and Connectivity	Accept	Extending Mohawk Lane from Witham Field Drive to Airport Road Realigning the roadway to avoid crossing the existing swale. Direct access to Airport Road from the C.R. A1A and Witham Field Drive Accommodates future airport development and provides temporary construction access.
P2	Construct Dry Pond along Aviation Way	Will Consider in Pond Evaluation	Avoids potential contamination concerns. Reduces drainage construction beneath the active railroad. Avoids R/W acquisition of active industrial property.

VE Proposal No.	Description	"Accept", "Reject", or "Needs Further Study"	Acceptance Comments
			Provides a lower-risk, more cost-effective stormwater solution.
P3	Reduce Driver Confusion on Monterey Road Extension EB at US 1	Partial Accept	Reduces potential crashes and conflicting movements. Eliminates a driveway conflict within the extended right-turn lane. Maintains property access through the remaining driveway. Replaces the sod barrier with striping, reducing maintenance. Provides more consistent roadway channelization.
P4	Maintain Raised Median along S.R. 5/US 1/Federal Highway	Reject	Closing the median would increase U-turns at U.S. 1/Monterey Extension. Median opening is important for Stuart Centre access. Added U-turn demand would impact the southbound left-turn movement, currently operating at LOS F
P5	Close Right-out Only Driveway along S.R. 5/US 1/Federal Highway	Accept with modifications	Recommendation is to move the right out only driveway northward to meet spacing criteria and to continue to facilitate delivery trucks for the Stuart Centre.
P6	Shared Use Path on Monterey Rosd Extension	Accept	Provides off-street bicycle facilities, improving cyclists' safety. Aligns with the local agency's preference for off-street facilities. Connects directly to the existing sidewalk network.
P7	Remove Grass Median on Grumman Blvd	Accept	Reduces long-term maintenance requirements. Provides a consistent, uniform concrete separator.
P8	Optimize Grumman Blvd/C.R. A1A Lanes Configuration	Accept	Better matches lane configuration to projected traffic volumes. Improves vehicle processing and traffic flow.

VE Proposal No.	Description	"Accept", "Reject", or "Needs Further Study"	Acceptance Comments
P9	Adjust SE Grumman Blvd Typical Section and Alignment	Reject	The lane modification results in LOS F. Southward alignment shift significantly impacts the car dealership property.
P10	Redirect Palm Beach Road Traffic to Christie Way	Reject	MPO feedback recommends maintaining the existing SE Palm Beach Road connection.

Two proposals (P8 and P9) were related to the alignment of SE Grumman Boulevard and because of their recommendations, only one could be implemented. Similarly, Proposal P7 was included in Proposal P9 and because of their recommendations, only one could be implemented.

There were 14 Design Suggestions, ideas that the VE Team felt would benefit the project but did not have adequate data to evaluate and demonstrate value as a proposal.

4.6 ALTERNATIVES CONSIDERED BUT ELIMINATED

Several feasibility concepts were considered to determine which one would best fit this project's purpose and need. Many different ideas and design concepts were considered based on the previous studies. Several were ruled out due to a fatal flaw or lack of feasibility. Each concept was evaluated with criteria rankings for best scoring to move forward with the 3 alternatives.

Ten concepts were initially developed and examined at a Tier I level, also known as a "Desktop" analysis. Each concept is described below.

4.6.1 Planning Study Alternatives Eliminated (PEL)

4.6.1.1 Tier 1 Feasibility Concepts

- *Concept 1 would elevate the entire intersection of S.R. 714/ Monterey Road and C.R. A1A, providing the same number of travel lanes as today with the exception of the westbound movement. The westbound movement would have an additional left and an additional right turn lane. The two roadways would be elevated using mechanically stabilized earth (MSE) walls.*

- *Concept 2 would elevate only S.R. 714/Monterey Road over the FEC railway and C.R. A1A, utilizing the existing alignment of S.R. 714. This alternative would provide limited connectivity between S.R. 714/Monterey Road and C.R. A1A through the use of ramps. S.R. 714/Monterey Road and the new ramps would be elevated using mechanically stabilized earth (MSE) walls.*
- *Concept 3 would also elevate only S.R. 714/Monterey Road over the FEC railway, utilizing the existing alignment of S.R. 714. However, this alternative would provide limited connectivity between S.R. 714/Monterey Road and C.R. A1A which would be through the use of an access road and a roundabout. The access road, which would be in the area that was once SE 18th Ct. Pedestrian and bicycle accommodations are included in the concept.*
- *Concept 4 would realign an elevated S.R. 714 further away from the airport while minimizing parcel impacts as much as possible before tying into existing S.R. 714. The shifted S.R. 714 (Monterey Road) would utilize some of the area that was formerly SE 18th Ct, which is currently Witham Airport property, and tie back into existing S.R. 714 (Monterey Road) just east of the YMCA's entrance. Connectivity between S.R. 714 (Monterey Road) and C.R. A1A would be through the use of an access road on the north side of S.R. 714 (Monterey Road). The access road ties into the eastern cul-de-sac of SE 15th Ct and ultimately to SE Palm Beach Road.*
- *Concept 5 takes that realignment a further to increase that distance from the airport. The concept would briefly utilize SE Palm Beach Road ROW prior to curving to the east near SE 15th Court. The concept would continue east, potentially utilizing 14th St ROW, ultimately tying into existing S.R. 714 (Monterey Road) just north of Flying Fortress Lane.*
- *Concept 6 would again elevate S.R. 714 (Monterey Road) away from the airport, similar to Feasibility 5. However, the concept would continue the improvements along SE Palm Beach Road until its connection with A1A to the north.*
- *Concept 7 is the inverse of Concept 1, depressing the intersection, allowing the railroad tracks to be over the roadway.*
- *Concept 8 involves a box jacking system that will tunnel under the tracks, allowing them to remain operational. This concept would provide limited connectivity between S.R. 714 (Monterey Road) and C.R. A1A either through the use of an access road (Feasibility 8A) or ramps (Feasibility 8B).*
- *Concept 9 is south of the current intersection with improvements to Monterey Road Ext and SE Grumman Boulevard, elevating over the tracks and utilizing ramps to access A1A. SE Monterey Road would need to be widened to a four-lane divided facility. SE Grumman*

Boulevard would be improved, extended and elevated over the railroad and C.R. A1A and ultimately tying into the Airport entrance.

- *Concept 10 is south of the current intersection with improvements to Monterey Road Ext and SE Grumman Boulevard. and providing a new grade-separated crossing/bridge over the FEC railroad approximately 0.5 miles south of the S.R. 714/Monterey Road and the FEC railroad crossing. A section of SE Dixie Highway and SE Airport Road will be raised to accommodate the grade-separated crossing. Mohawk Lane will be extended to the north to provide access to an existing commerical plaza that will lose its connection to SE Dixie Highway.*

Figure 4-16: Teir 1 Feasiblity Concepts

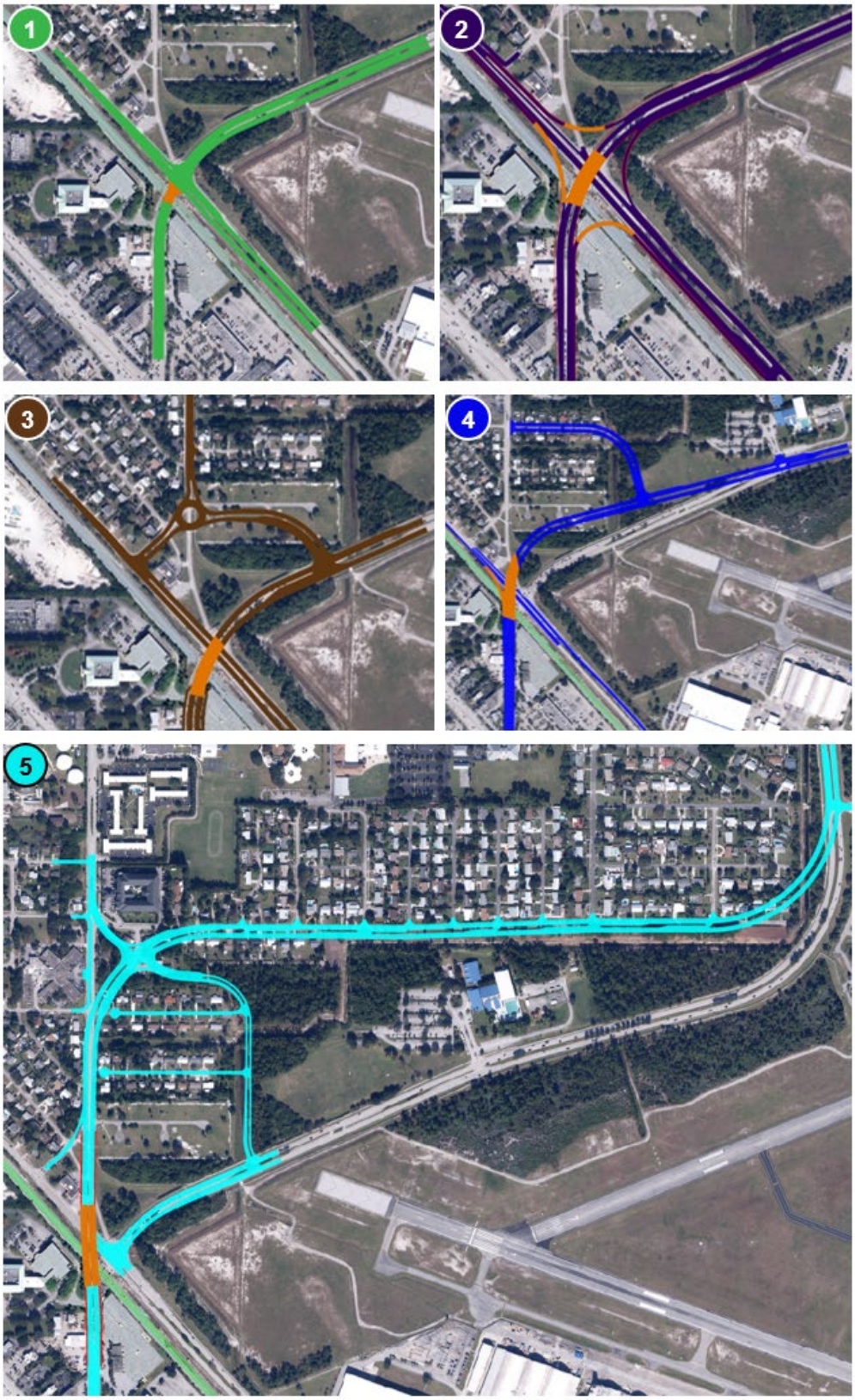
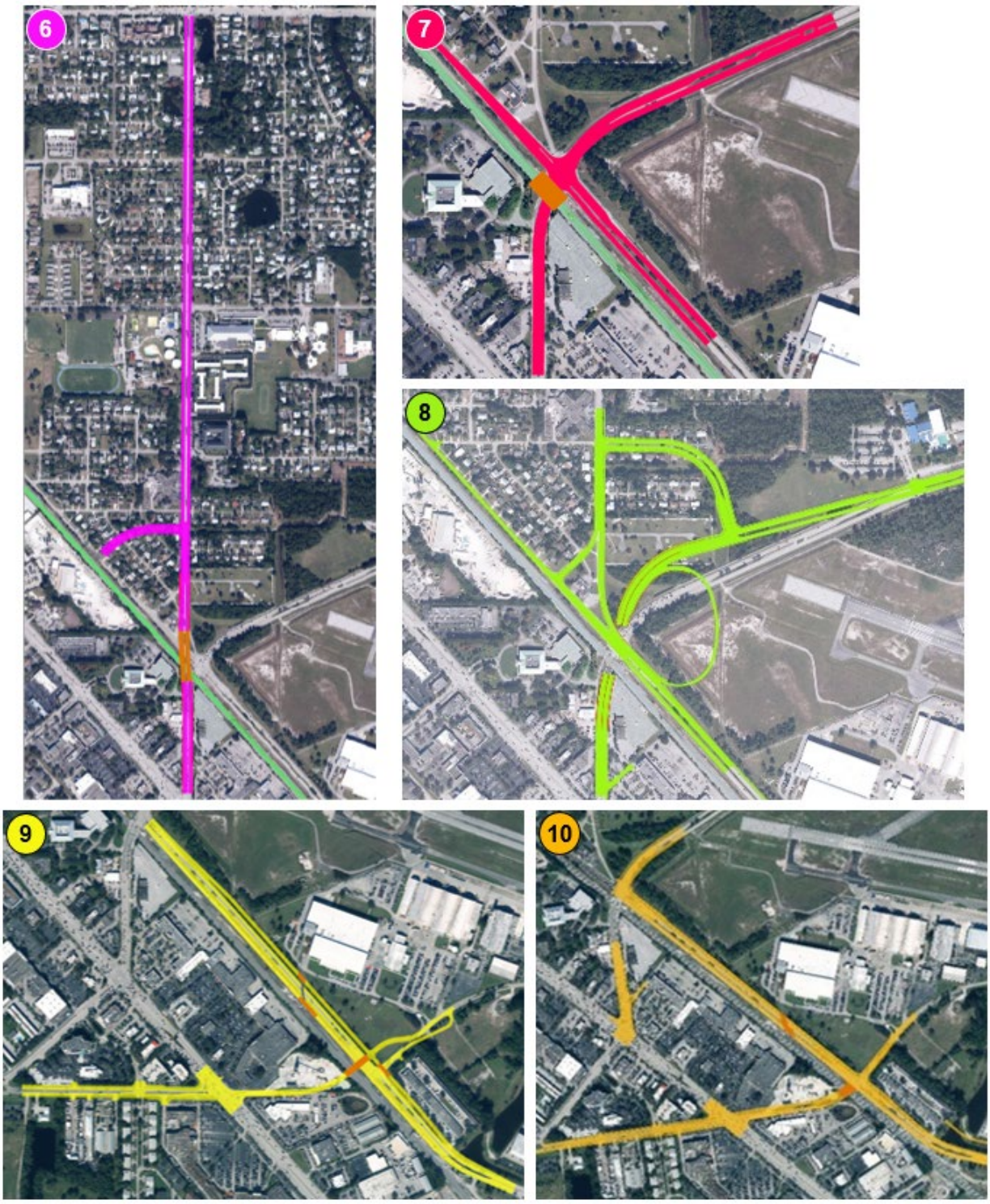


Figure 4-16: Teir 1 Feasibility Concepts(Cont')



4.6.2 PD&E Phase Alternatives Eliminated

Two of the Feasibility Concepts were taken into the PD&E phase, becoming Alternatives that were further developed, analyzed and presented to the public at the Alternatives Public Workshop. Feasibility Concept 3 was modified and renamed to Alternative 1 and 2, then design was revised to avoid the approach RPZ of runway. Below is a brief description of each.

Alternatives 1 and 2 were not received well by the public. Also, Martin County Airport was not in favor of any design within the runway RPZ.

4.6.2.1 Alternative 1

This would elevate only S.R. 714/Monterey Road over the FEC railway, utilizing the existing alignment of S.R. 714. However, this alternative would provide limited connectivity between S.R. 714/Monterey Road and C.R. A1A which would be through the use of an access road. The access road cutting through the YMCA parcel, which would be connected to SE 16th St. Pedestrian and bicycle accommodations are included in the concept. See **Figure 4-17** of the Alternative 1 Overall Plan.

Figure 4-17: Alternative 1 Overall Plan

4.6.2.2 Alternative 2

This would elevate only S.R. 714/Monterey Road over the FEC railway, utilizing the existing alignment of S.R. 714. However, this alternative would provide limited connectivity between S.R. 714/Monterey Road and C.R. A1A which would be through the use of an access road. The access road cutting through the YMCA parcel heading northwest just north of SE 15th Ct, which would be an offset intersection connected to SE Palm Beach Road. Pedestrian and bicycle accommodations are included in the concept. See **Figure 4-18** of the Alternative 2 Overall Plan.

Figure 4-18: Alternative 2 Overall Plan

4.6.2.3 Elimination Factors

Both Alternative 1 & 2 were eliminated based on the following:

- *Right-of-way impacts & displacements*
- *Increased traffic near residences and YMCA*
- *Difficulty exiting driveways or neighborhood streets*
- *Safety of children on bikes, traveling to schools and YMCA*
- *Accessing Palm Beach Road from SR 714*
- *Signal preemption and reliable crossing during train activity for emergency services*
- *Stuart Centre access but supported right-in/right-out driveway*
- *Additional vehicle storage at signals*
- *Requested shared-use path instead of bicycle lanes*

4.7 COMPARATIVE ALTERNATIVES EVALUATION

Each Alternative was analyzed with regards to the natural, social, cultural and physical environment impacts as well as the degree to which the Alternative supports the Project's Purpose and Need.

Alternative 3

Improvements to Monterey Road Extension, SE Grumman Boulevard. and providing a new grade-separated crossing/bridge over the FEC railroad approximately 0.5 miles south of the S.R. 714/Monterey Road and the FEC railroad crossing. A section of SE Dixie Highway and SE Airport Road will be raised to accommodate the grade-separated crossing from Grumman Boulevard. There will be a grade-separated crossing over the FEC railroad spur that leads to Witham Field. Mohawk Lane will be extended to the north and provide access to the existing commercial plaza. See **Figure 4-19** of the Alternative 3 Overall Plan.

Figure 4-19: Alternative 3 Overall Plan

Table 4-24: Evaluation Matrix for Level of Improvement

Level of improvement & relative to each alternative: Low | Medium | High

Evaluation Criteria/Potential Involvement	No Build	TSM&O	ALT 1 (3)	ALT 2 (3*)	ALT 3 (10)
Purpose & Need					
Improve Traffic Operations	-	Low	Low	Low	High
Establish More Efficient Road System Connectivity	-		Low	Low	High
Provide Enhanced Emergency Evacuation	-		Medium	Medium	High
Improve Sidewalks and Bike Lane Network	-		High	High	High

Table 4-25: Evaluation Matrix for Level of Impact

Level of impact & relative to each alternative: Low | Medium | High

Evaluation Criteria/Potential Involvement	**No Build**	**TSM&O**	**ALT 1 (3)**	**ALT 2 (3*)**	**ALT 3 (10)**
Engineering					
Railroad Operations	-	-	Low	Low	Medium
Runway Surfaces	-	-	Medium	Medium	Low
Airport Property	-	-	Low	Low	Low
Parcel Encroachment					
Number of Parcels Impacted	0	8	43	22	23
Right-of-Way Impact Area (Acres)	0	0.43	6.4	6.1	7.2
Number of Residential Relocations	0	0	18	4	0
Number of Business Relocations	0	0	1	2	2
Overall Parcel Impact	-	Low	High	High	Medium
Environmental					
Archeological/Historical Sites	-	-	Low	Low	Low
Section 4(f) Sites Involvement	-	-	1	1	1
Noise	-	-	Low	Low	Low
Wetlands/Other Surface Water (Acres)	-	-	0.58	0.58	0.35
Protected Species Involvement	-	-	Low	Low	Low

Petroleum & Hazardous Materials Sites	-	-	Medium	Medium	Medium
Cost (Right-of-Way and Construction)					
Total	-	TBD	$71.3M	$62.3M	$65.4M

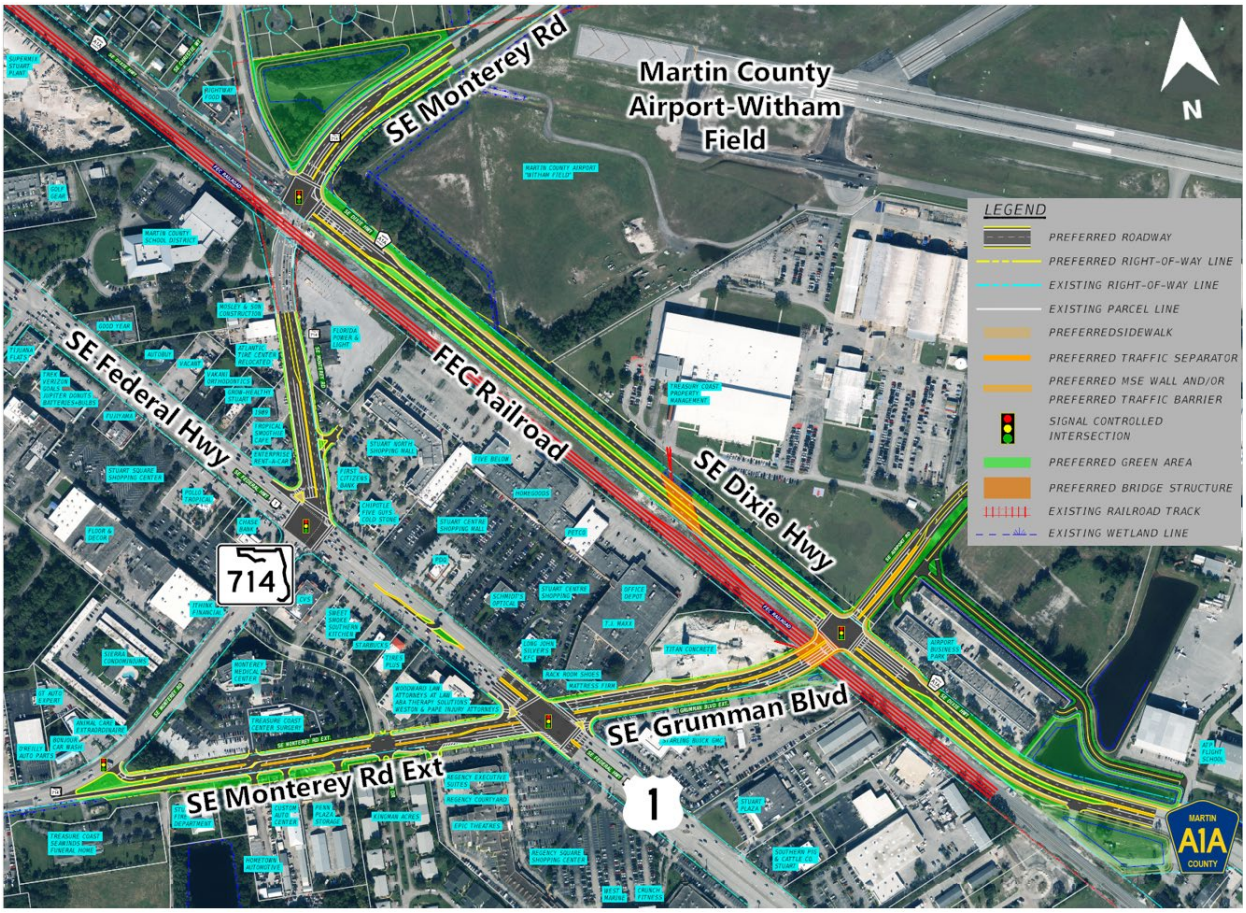
4.8 SELECTION OF THE PREFERRED ALTERNATIVE

Alternative 3 was selected as the preferred alternative. As mentioned in Section 4.5.1 from the VE study, the accepted changes were incorporated and the design refinements made. Proposed improvements that benefits the community, enhances safety, provides multi-modal improvements, and meets future traffic needs. Project reconstructs Dixie Hwy, Grumman Blvd, Monterey Road Extension and TSM&O on SR 714.

4.8.1 Preferred Alternative

Improvements to Monterey Road Extension, SE Grumman Boulevard and providing a new grade-separated crossing/bridge over the FEC railroad approximately 0.5 miles south of the S.R. 714/Monterey Road and the FEC railroad at-grade crossing. A section of C.R. A1A /SE Dixie Highway and SE Airport Road will be raised to accommodate the grade-separated crossing from Grumman Boulevard. Along C.R. A1A /SE Dixie Highway there will be a grade-separated crossing over the FEC railroad spur that leads to Witham Field. Mohawk Lane will be extended to the north and provide access to the existing commercial plaza and provide connections on both sides of the parcel, with one access off Airport Road from C.R. A1A /SE Dixie Highway and one from Witham Field Drive. See **Figure 4-20** of the Preferred Alternative Overall Plan.

Figure 4-20: Preferred Alternative Plan Exhibit



4.8.1.1 Proposed Improvements

The grade separated design allows east/west traffic to flow during train activity which improves traffic operations. Additional improvements listed below by roadway segment.

S.R. 714 East of FEC:

- *Additional WB-SB left and NB-EB right merge*

S.R. 714 West of FEC :

- *Additional SB left turn lane*
- *Dedicated NB-EB right that merges into through lanes*

Stuart North & Stuart Centre Mall:

- *Ingress/Egress adjustment at S.R. 714*

- *Shift right-in/right-out on US 1 closer to KFC*
- *Close entrance on Grumman Blvd*

Monterey Road Extension:

- *Widen to four lanes with left turn lanes*
- *Provide 10 ft shared use paths on both sides of roadway*

Grumman Blvd:

- *Widen to four lanes*
- *Provide sidewalks on both sides of roadway*
- *New elevated roadway and grade separation over FEC railroad*

C.R. A1A (SE Dixie Hwy):

- *Provide a 12 ft shared use path and 8 ft sidewalk*
- *Additional NB-EB free-flow right and NB-WB left*
- *New elevated roadway to meet Grumman Blvd*
- *New bridge over FEC Spur track*

Airport Road:

- *New elevated roadway to meet SE Dixie Hwy*
- *Provide 10 ft shoulders*

Mohawk Lane:

- *Construct 24 ft roadway from Witham Field Drive to Airport Road*

Refer to **Appendix A** for typical sections of the Preferred Alternative and **Appendix B** for concept plans of the Preferred Alternative.

4.8.1.2 Design Variations and Exceptions

Bike lanes and Border widths have variations.

5.0 PROJECT COORDINATION

A Public Involvement Plan was prepared to outline the public outreach efforts. A Summary of Public Involvement Report will be prepared to capture the relevant public and agency comments obtained throughout the study. Both documents are provided as part of the project file on SWEPT.

5.1 AGENCY COORDINATION

5.1.1 Advance Notification and ETDM

The Advance Notification (AN) -Re-Screening was prepared in accordance with Part 1, Chapter 3, of the FDOT PD&E Manual and transmitted to the Florida State Clearinghouse in the Department of Environmental Protection on February 19th, 2026, for distribution to the Environmental Technical Advisory Team (ETAT) for review. FDOT District Four also submitted the project through the Programming Screen of the Efficient Transportation Decision Making (ETDM) Environmental Screening Tool (EST) in coordination with the AN package. This project is listed as ETDM #14527 SR 714/Monterey Road at FEC Railroad Crossing - PD&E Study.

The following ETAT members commented within the EST regarding all three alternatives:

- *Florida Department of Agriculture and Consumer Services (FDACS)*
- *Florida Department of Environmental Protection (FDEP)*
- *Florida Department of State*
- *FL Fish and Wildlife Conservation Commission (FWC)*
- *National Marine Fisheries Service (NMFS)*
- *Seminole Tribe of Florida (STOF)*
- *South Florida Water Management District (SFWMD)*
- *US Army Corps of Engineers (USACE)*
- *US Environmental Protection Agency (USEPA)*
- *US Fish and Wildlife Service (USFWS)*

Figure 5-1: Screening Summary Chart

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

	Social and Economic							Cultural and Tribal			Natural					Physical					
	Social	Economic	Land Use Changes	Mobility	Aesthetic Effects	Relocation Potential	Farmlands	Section 4(f) Potential	Historic and Archaeological Sites	Recreational and Protected Lands	Wetlands and Surface Waters	Water Resources	Floodplains	Protected Species and Habitat	Coastal and Marine	Noise	Air Quality	Contamination	Infrastructure	Navigation	Special Designations
North 1 *Published: 07/10/2026 Reviewed from 02/19/2026 to 04/05/2026)*	3	2	3	1	3	4	2	N/A	3	N/A	2	3	2	3	0	3	2	3	3	N/A	N/A
South 1 *Published: 07/10/2026 Reviewed from 02/19/2026 to 04/05/2026)*	2	3	3	1	3	4	2	N/A	3	N/A	2	3	2	3	0	3	2	3	3	N/A	N/A
North 2 *Published: 07/10/2026 Reviewed from 02/19/2026 to 04/05/2026)*	3	2	3	1	3	4	2	N/A	3	N/A	2	3	2	3	0	3	2	3	3	N/A	N/A

Degree of Effect Legend

N/A N/A / No Involvement | 0 None | 1 Enhanced | 2 Minimal | 3 Moderate | 4 Substantial | 5 Issue Resolution

The comments received were taken into consideration during design of concepts and within the matrix evaluation. To review the Official Transmittal List of the AN package, refer to Appendix A in the Summary of Public Involvement Report.

5.1.2 Local, State and Federal Agencies

- *Martin County Metropolitan Planning Organization (MPO)*
- *City of Stuart*
- *Florida East Coast (FEC) Railway*
- *Martin County Airport-Witham Field*

5.1.2.1 Local, State and Federal Agencies Meeting Dates

- *Martin County MPO Meeting: February 2024*
- *Martin County MPO Meeting: February 2025*
- *Stakeholder Meetings: Began February 2025 (On-going)*
- *Martin County Airport-Witham Field: March 2025*

- *Martin County MPO Meeting: February 2026*
- *City of Stuart Commission Meeting: March 2026*
- *Martin County MPO Meeting: September 2026*
- *City of Stuart Manager Meeting: October 2026*

5.2 PUBLIC INVOLVMENT

A Public Involvement Plan was prepared to outline the public outreach efforts. Public Involvement activities occurred throughout the study and are being documented in the Summary of Public Involvement Report. This technical document will be included in the PD&E Study project files and uploaded to SWEPT with the final PER report. Following the public hearing, this section will be updated to reflect any feedback from the public hearing.

5.2.1 Public Kick-Off Meeting

Meeting was held on Wednesday, December 04, 2024 with Virtual at 5:30 PM and In-Person at 6:00 PM. Over 45 individuals attended between the virtual and in-person sessions. Public feedback was overall sentiment to consider the neighborhood and the potential impact the project may have.

Public Concerns:

- *Right-of-way impacts & displacements*
- *Access to previous studies*
- *Overpass noise and privacy impacts*
- *Airport operational constraints*
- *Access to the neighborhood and SE Palm Beach Road from SR 714*
- *Congestion around the YMCA*
- *Being informed of Alternatives that would be considered*
- *Project schedule*
- *Environmental impacts*
- *Access to businesses along SR 714, Federal Highway and CR A1A*

5.2.2 Alternatives Public Workshop

Workshop meeting was held Virtually on Wednesday, March 11, 2026 at 5:30 PM and In-Person on Thursday, March 12, 2026 at 6:00 PM with over 60 individuals attended between the virtual

and in-person sessions. Public feedback with an overall sentiment leaned negative toward Alternatives 1 and 2 and largely positive toward Alternative 3.

Public Concerns:

- *Right-of-way impacts & displacements*
- *Increased traffic near residences and YMCA*
- *Difficulty exiting driveways or neighborhood streets*
- *Safety of children on bikes, traveling to schools and YMCA*
- *Accessing Palm Beach Rd from SR 714*
- *Signal preemption and reliable crossing during train activity for emergency services*
- *Stuart Centre access but supported right-in/right-out driveway*
- *Additional vehicle storage at signals*
- *Requested shared-use path instead of bicycle lanes*

5.2.3 Public Hearing: November 2026

This section will be revised following the Public Hearing scheduled for Virtual Public Hearing on Tuesday, November 17, 2026 and In-Person Public Hearing on Wednesday, November 18, 2026.

5.3 ENGINEERING DESIGN COORDINATION

This project is funded for Design, Right-of-Way (2028) and Construction (2030). It will be let as a Design-Build project.

APPENDIX A

Preferred Typical Section Package

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

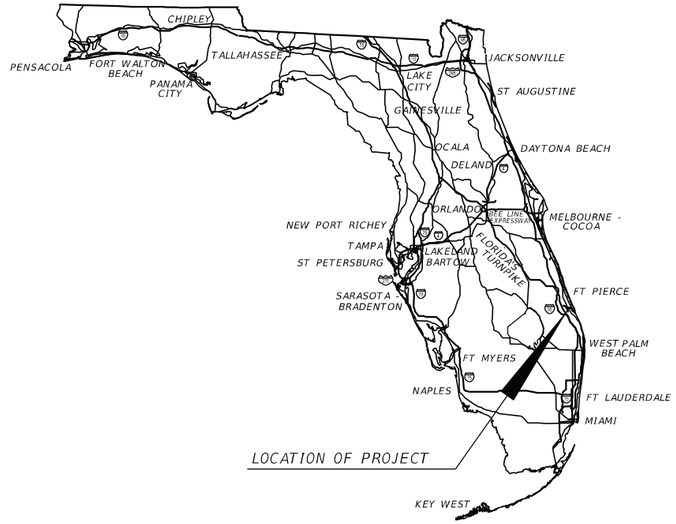
TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 441636-2-22-01

COUNTY (890920)

STATE ROAD NO. 714 (SE MONTEREY ROAD)

S.R. 714/MONTEREY ROAD @ FEC RAILROAD CROSSING
ALTERNATIVE 3



PROJECT LOCATION URL:	https://tinyurl.com/bdf454wn
PROJECT LIMITS:	S.R. 714 BEGIN MP 1.011 - END MP 1.706 SE MONTEREY RD EXT BEGIN MP 0.000 - END MP 0.349 GRUMMAN BLVD EXT BEGIN MP 0.000 - END MP 0.234
EXCEPTIONS:	S.R. 714 MP 1.510 - MP 1.545
BRIDGE LIMITS:	BR# GRUMMAN BLVD EXT MP 0.190 - MP 0.223
RAILROAD CROSSING:	FLORIDA EAST COAST (FEC) MAINLINE (272353M) AND FEC SPUR (272929N)

FDOT DISTRICT DESIGN ENGINEER

BINOD BASNET, P.E.
CONCURRING WITH:
TYPICAL SECTION ELEMENTS
TARGET SPEED
DESIGN SPEED & POSTED SPEED

FDOT DISTRICT TRAFFIC OPERATIONS ENGINEER

JONATHAN M. OVERTON, P.E.
CONCURRING WITH:
TARGET SPEED
DESIGN SPEED & POSTED SPEED

FDOT DISTRICT PROJECT DEVELOPMENT MANAGER

CESAR J. MARTINEZ, P.E.
CONCURRING WITH:
TARGET SPEED
CONTEXT CLASSIFICATION

FDOT DISTRICT STRUCTURES DESIGN ENGINEER

DAVID DE TORRES, P.E.
CONCURRING WITH:
TYPICAL SECTION ELEMENTS

APPROVED BY:

TANYA KRISTOFF LICENSE No 55463 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:
Tanya Kristoff-Powder
Digitally signed by Tanya Kristoff-Powder
Date: 2026.10.09 21:28:57 -04'00'

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

H.W. LOCHNER, INC.
8750 NW 36TH STREET, SUITE 360
MIAMI, FL 33178
TANYA KRISTOFF, P.E. NO. 55463

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

SHEET NO	SHEET DESCRIPTION
1	TYPICAL SECTION COVER
2	TYPICAL SECTION NO. 1
3	TYPICAL SECTION NO. 2
4	TYPICAL SECTION NO. 3
5	TYPICAL SECTION NO. 4
6	TYPICAL SECTION NO. 5

SHEET NO.
1

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) N/A : L.A. FACILITY
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
(X) PRINCIPAL ARTERIAL
( ) MINOR ARTERIAL
( ) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
(X) STATE HIGHWAY SYSTEM
( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
(X) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

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BIKE LANE - NONE

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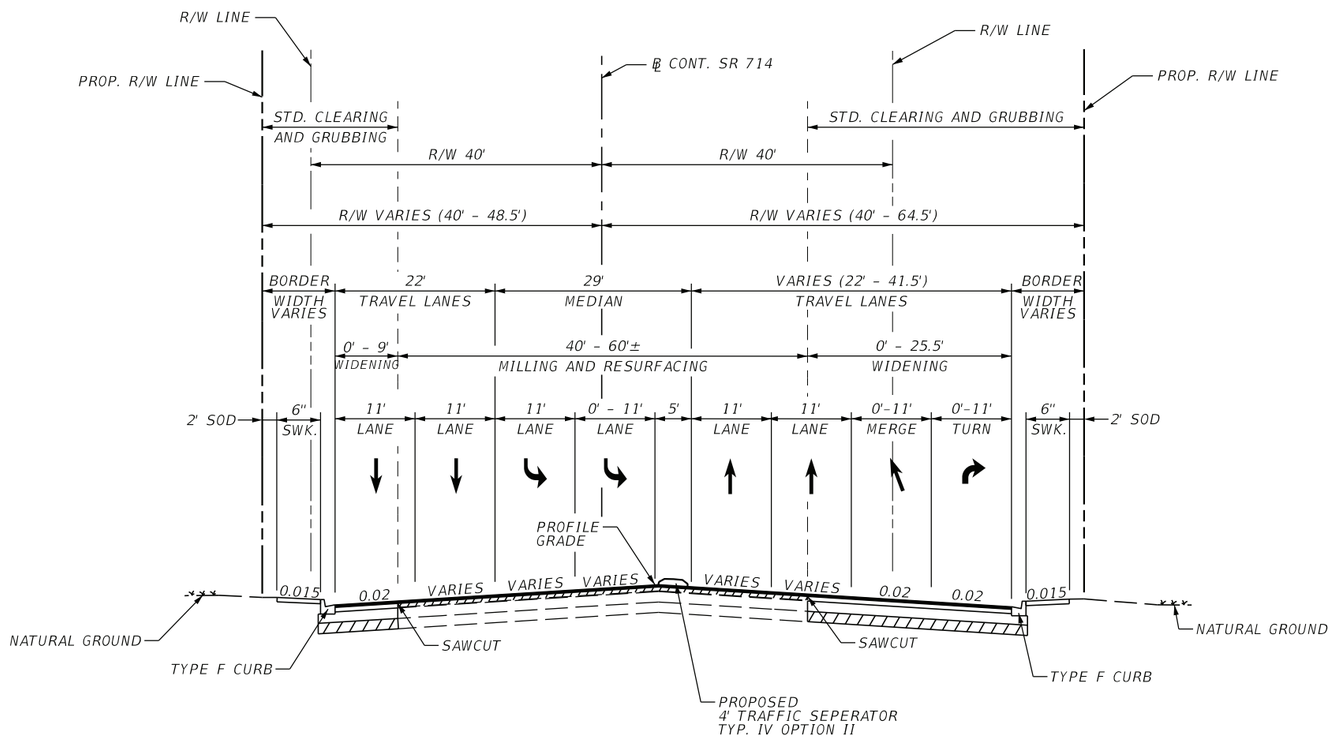

S.R. 714
(EAST OF US 1)
MP 1.315 TO MP 1.470

TRAFFIC DATA

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ESTIMATED OPENING YEAR = 2030 AADT = 26,000
ESTIMATED DESIGN YEAR = 2050 AADT = 23,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 40 MPH
DESIGN SPEED (EXISTING) = 40 MPH
DESIGN SPEED (PROPOSED) = 40 MPH
POSTED SPEED (EXISTING) = 40 MPH
POSTED SPEED (PROPOSED) = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
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PROJECT CONTROLS

CONTEXT CLASSIFICATION

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( ) C3R : SUBURBAN RES.
( ) N/A : L.A. FACILITY
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
(X) PRINCIPAL ARTERIAL
( ) MINOR ARTERIAL
( ) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
(X) STATE HIGHWAY SYSTEM
( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
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( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

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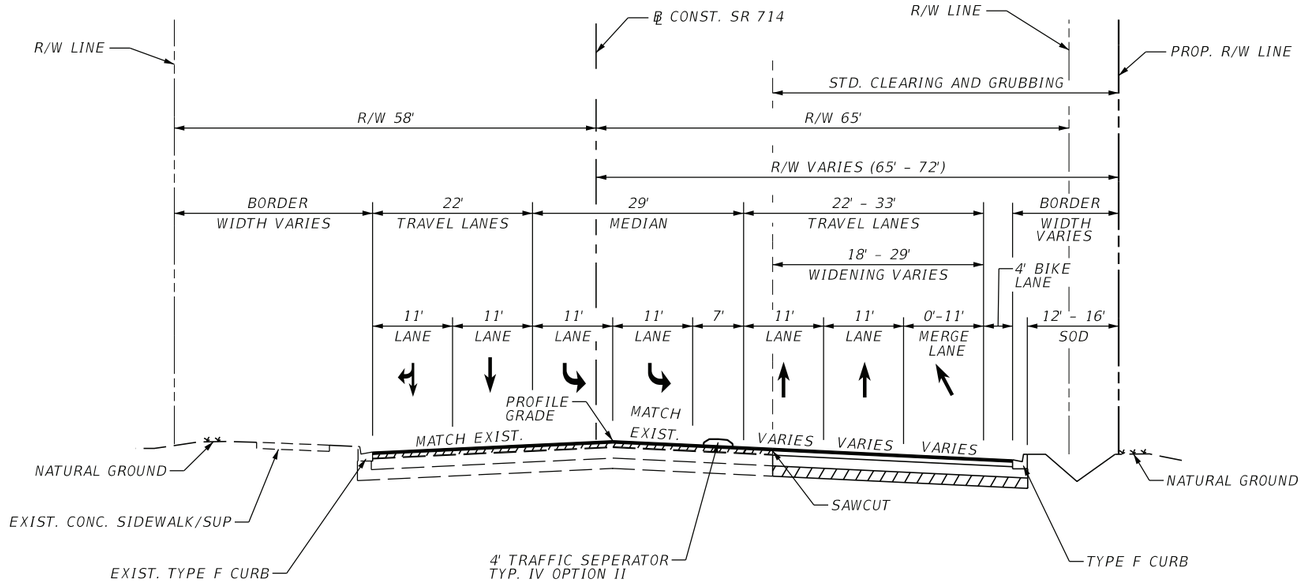

S.R. 714
(EAST OF C.R. A1A)
MP 1.554 TO MP 1.706

TRAFFIC DATA

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ESTIMATED DESIGN YEAR = 2050 AADT = 27,500
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DESIGN HOUR T = 3.5%
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DESIGN SPEED (EXISTING) = 40 MPH
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PROJECT CONTROLS

CONTEXT CLASSIFICATION

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( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE
( ) N/A : L.A. FACILITY

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( ) INTERSTATE
( ) FREEWAY/EXPWY.
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( ) MINOR ARTERIAL
(X) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

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( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

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( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

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BIKE LANE - NONE

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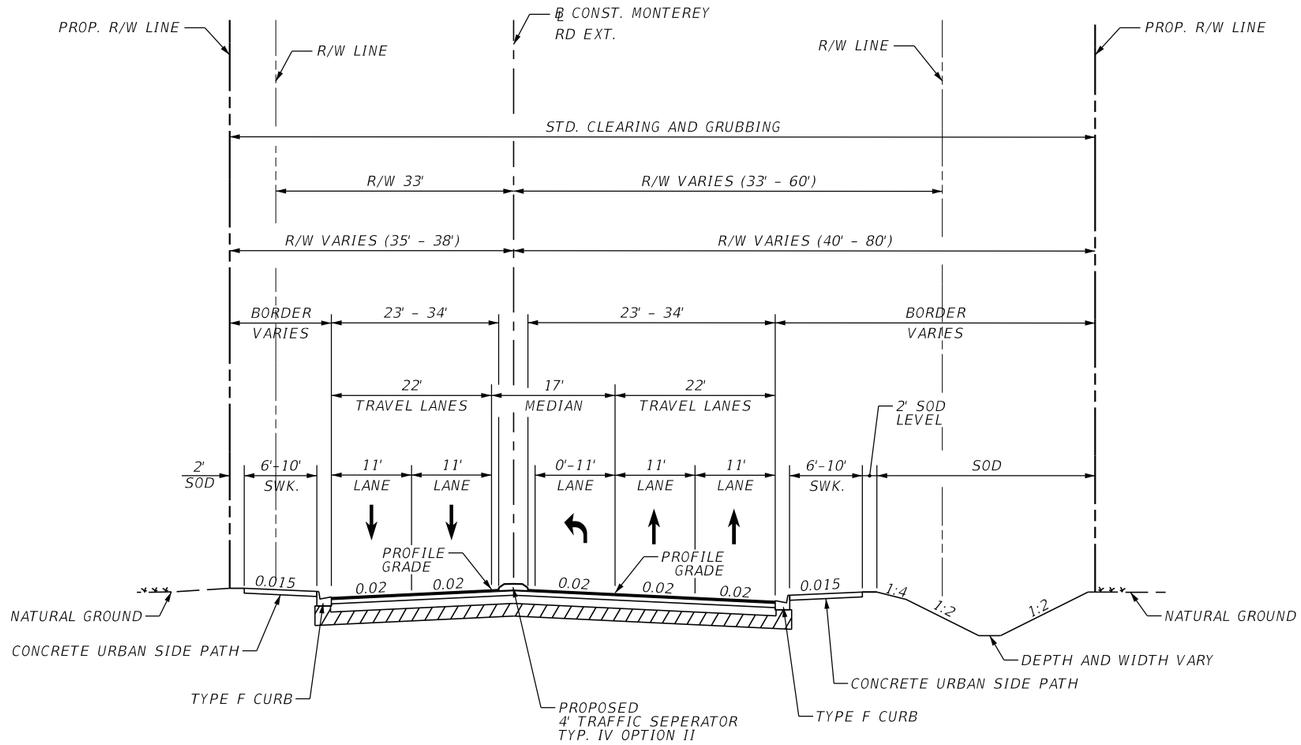

SE MONTEREY ROAD EXT.
(WEST OF US 1)
MP 0.000 TO MP 0.349

TRAFFIC DATA

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ESTIMATED OPENING YEAR = 2030 AADT = 9,000
ESTIMATED DESIGN YEAR = 2050 AADT = 13,500
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DESIGN HOUR T = 3%
TARGET SPEED = 40 MPH
DESIGN SPEED (EXISTING) = 35 MPH
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441636-2-22-01	4

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	(X)	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	(X)	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

( )	NATIONAL HIGHWAY SYSTEM
( )	STRATEGIC INTERMODAL SYSTEM
( )	STATE HIGHWAY SYSTEM
(X)	OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( )	1 - FREEWAY
( )	2 - RESTRICTIVE w/Service Roads
( )	3 - RESTRICTIVE w/660 ft. Connection Spacing
( )	4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X)	5 - RESTRICTIVE w/440 ft. Connection Spacing
( )	6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( )	7 - BOTH MEDIAN TYPES

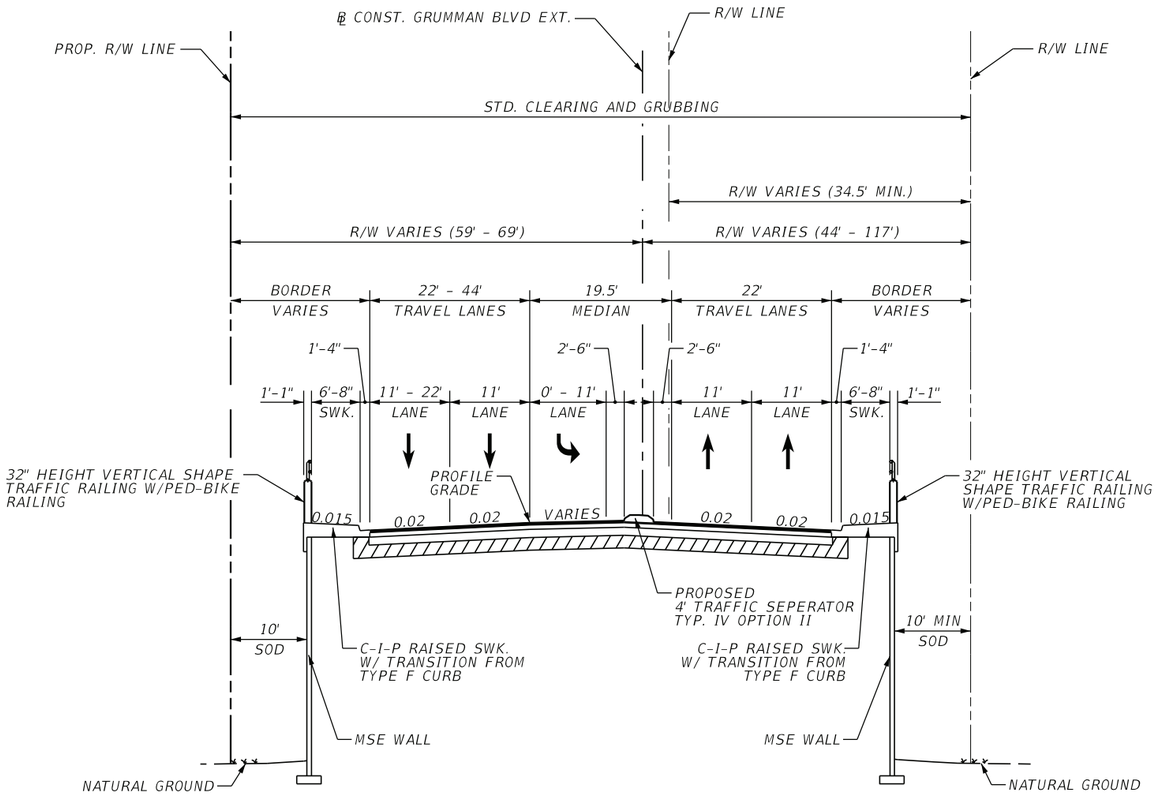
CRITERIA

(X)	NEW CONSTRUCTION / RECONSTRUCTION
( )	RESURFACING (LA FACILITIES)
( )	RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BIKE LANE - NONE

TYPICAL SECTION No. 4



GRUMMAN BLVD EXT.
(EAST OF US 1)
MP 0.000 TO MP 0.190

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 18,500
ESTIMATED OPENING YEAR = 2030 AADT = 19,500
ESTIMATED DESIGN YEAR = 2050 AADT = 21,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 35 MPH
DESIGN SPEED (EXISTING) = 35 MPH
DESIGN SPEED (PROPOSED) = 35 MPH
POSTED SPEED (EXISTING) = 35 MPH
POSTED SPEED (PROPOSED) = 35 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	5

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) N/A : L.A. FACILITY
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ARTERIAL
( ) MINOR ARTERIAL
(X) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

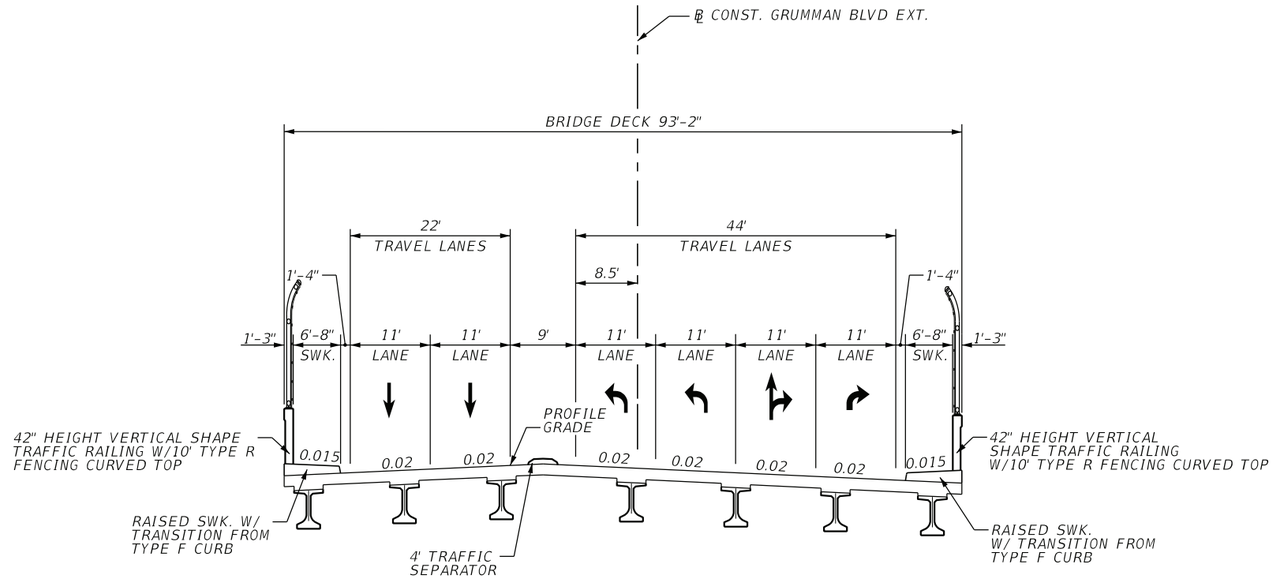
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BIKE LANE - NONE

TYPICAL SECTION No. 5



GRUMMAN BLVD EXT.
(OVER FEC RAILROAD)
MP 0.190 TO MP 0.223

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 18,500
ESTIMATED OPENING YEAR = 2030 AADT = 19,500
ESTIMATED DESIGN YEAR = 2050 AADT = 21,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 35 MPH
DESIGN SPEED (EXISTING) = 35 MPH
DESIGN SPEED (PROPOSED) = 35 MPH
POSTED SPEED (EXISTING) = 35 MPH
POSTED SPEED (PROPOSED) = 35 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	6

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STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

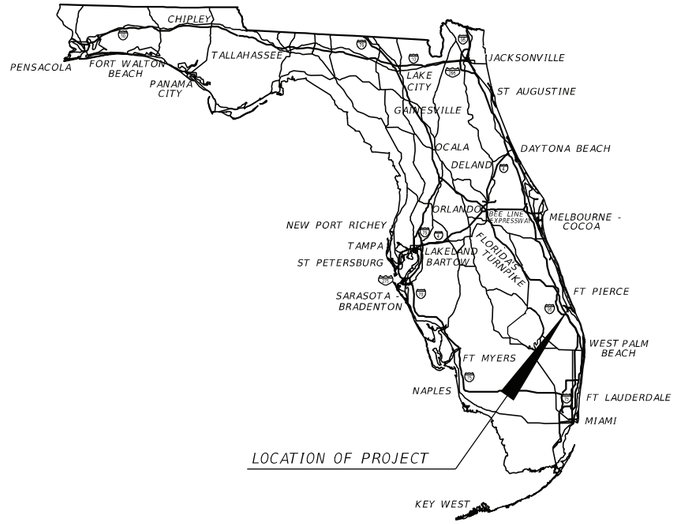
TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 441636-2-22-01

MARTIN COUNTY (890920)

STATE ROAD NO. 714 (SE MONTEREY ROAD)

S.R. 714/MONTEREY ROAD @ FEC RAILROAD CROSSING
ALTERNATIVE 3



PROJECT LOCATION URL:	https://tinyurl.com/bdf454wn
PROJECT LIMITS:	C.R. A1A/DIXIE HWY BEGIN MP 18.024 - END MP 18.790 SE AIRPORT RD BEGIN MP 0.000 - END MP 0.093
EXCEPTIONS:	NONE
BRIDGE LIMITS:	BR# (TBD) C.R. A1A MP 18.408 - MP 18.457
RAILROAD CROSSING:	FLORIDA EAST COAST (FEC) MAINLINE (272353M) AND FEC SPUR (272929N)

APPROVED BY:

TANYA KRISTOFF LICENSE No 55463 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Tanya Kristoff-Powder

Digitally signed by Tanya Kristoff-Powder
Date: 2026.10.09 21:05:42 -04'00'

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

H.W. LOCHNER, INC.
8750 NW 36TH STREET, SUITE 360
MIAMI, FL 33178
TANYA KRISTOFF, P.E. NO. 55463

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

FDOT DISTRICT DESIGN ENGINEER

BINOD BASNET, P.E.
CONCURRING WITH:
TYPICAL SECTION ELEMENTS
TARGET SPEED
DESIGN & POSTED SPEEDS

FDOT DISTRICT TRAFFIC OPERATIONS ENGINEER

JONATHAN M. OVERTON, P.E.
CONCURRING WITH:
TARGET SPEED
DESIGN & POSTED SPEEDS

FDOT DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER

CESAR J. MARTINEZ, P.E.
CONCURRING WITH:
CONTEXT CLASSIFICATION
TARGET SPEED
TYPICAL SECTION ELEMENTS

LOCAL TRANSPORTATION ENGINEER
MARTIN COUNTY ENGINEER

MICHAEL J. GRZELKA, P.E.
CONCURRING WITH:
TYPICAL SECTION ELEMENTS
OFF-STATE HIGHWAY SYSTEM

INDEX OF SHEETS

SHEET NO	SHEET DESCRIPTION
1	TYPICAL SECTION COVER
2	TYPICAL SECTION NO. 1
3	TYPICAL SECTION NO. 2
4	TYPICAL SECTION NO. 3
5	TYPICAL SECTION NO. 4
6	TYPICAL SECTION NO. 5

SHEET NO. 1

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY	(X)	N/A : OFF-SYSTEM

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

- ( ) NATIONAL HIGHWAY SYSTEM
- ( ) STRATEGIC INTERMODAL SYSTEM
- ( ) STATE HIGHWAY SYSTEM
- (X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- ( ) 1 - FREEWAY
- ( ) 2 - RESTRICTIVE w/Service Roads
- ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
- ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
- ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- ( ) 7 - BOTH MEDIAN TYPES

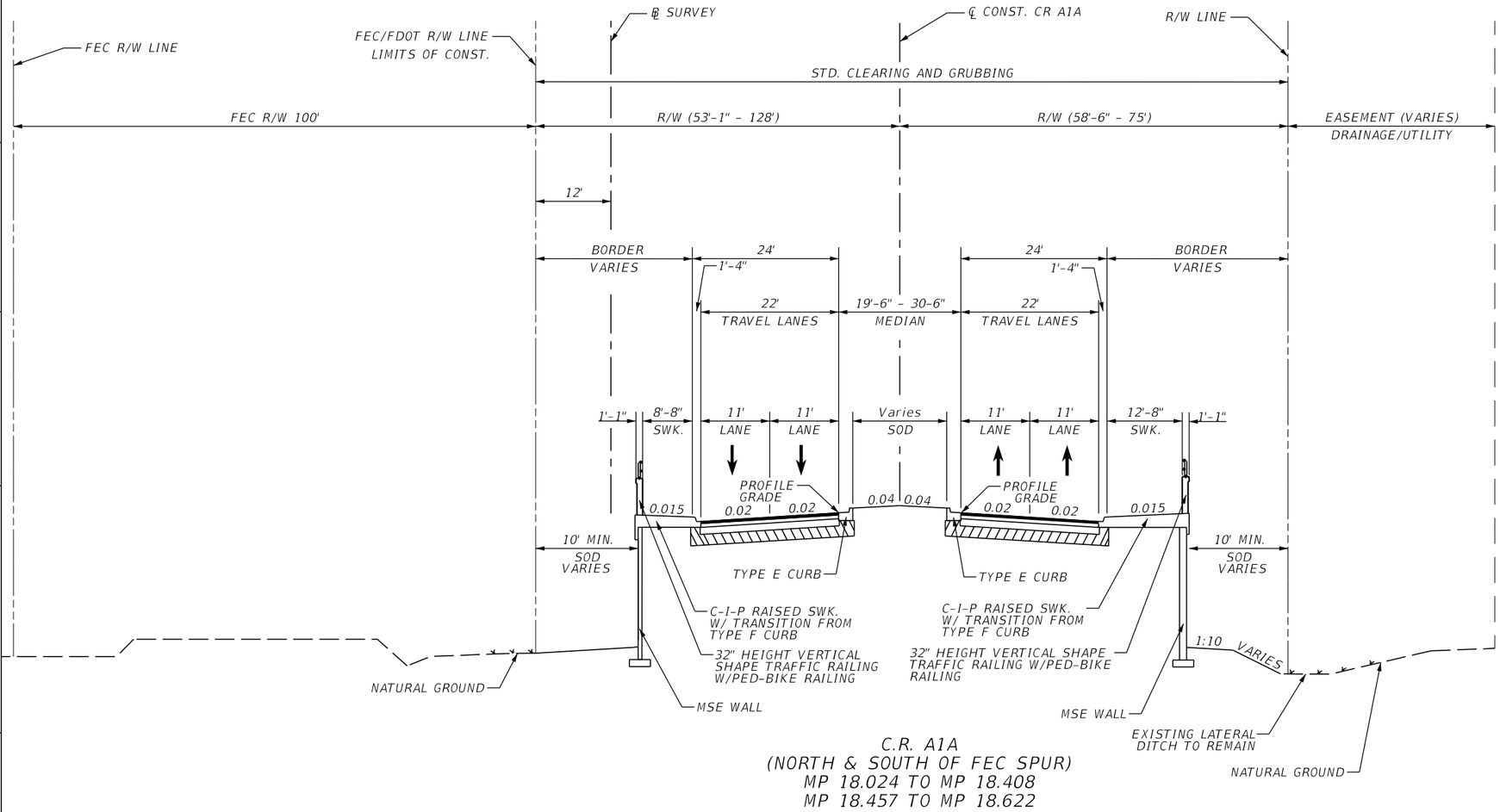
CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- ( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BIKE LANE - NONE

TYPICAL SECTION No. 1



C.R. A1A
(NORTH & SOUTH OF FEC SPUR)
MP 18.024 TO MP 18.408
MP 18.457 TO MP 18.622

TRAFFIC DATA
SE AVIATION WAY TO AIRPORT ROAD

CURRENT YEAR = 2022 AADT = 17,500
ESTIMATED OPENING YEAR = 2030 AADT = 18,500
ESTIMATED DESIGN YEAR = 2050 AADT = 21,000
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 45 MPH
DESIGN SPEED (EXISTING) = 45 MPH
DESIGN SPEED (PROPOSED) = 45 MPH
POSTED SPEED (EXISTING) = 45 MPH
POSTED SPEED (PROPOSED) = 45 MPH

TRAFFIC DATA
FROM AIRPORT ROAD TO SR 714

CURRENT YEAR = 2022 AADT = 19,500
ESTIMATED OPENING YEAR = 2030 AADT = 20,500
ESTIMATED DESIGN YEAR = 2050 AADT = 23,000
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 45 MPH
DESIGN SPEED (EXISTING) = 45 MPH
DESIGN SPEED (PROPOSED) = 45 MPH
POSTED SPEED (EXISTING) = 45 MPH
POSTED SPEED (PROPOSED) = 45 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	2

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY	(X)	N/A : OFF-SYSTEM

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

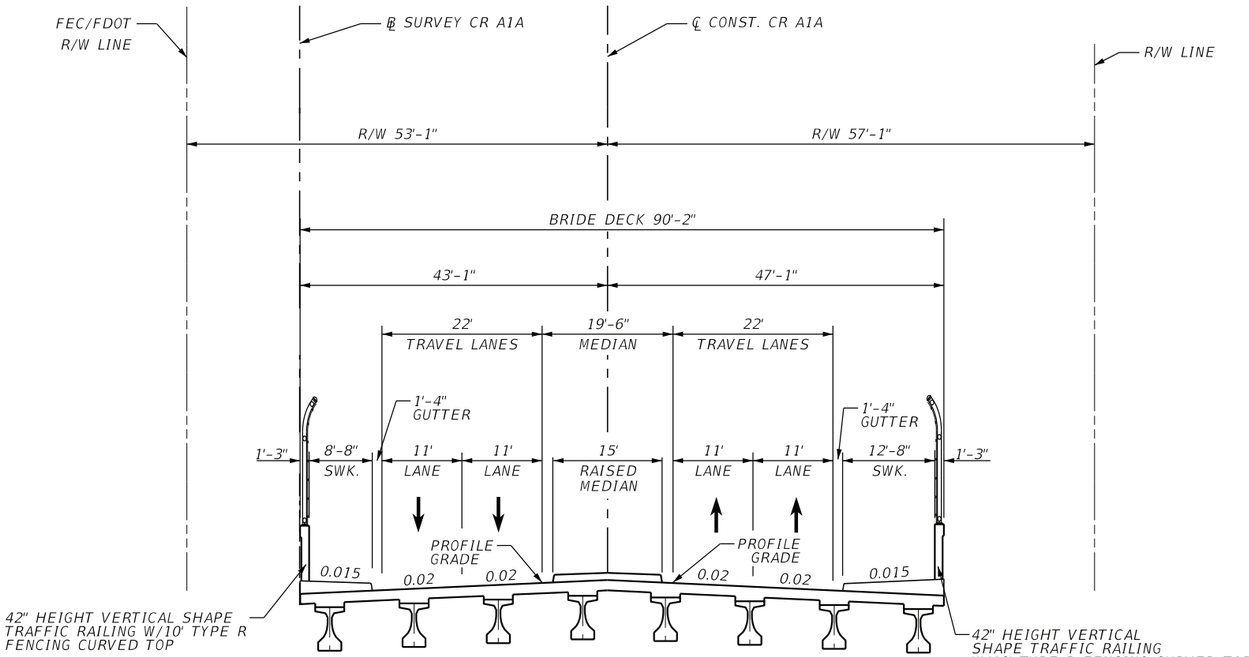
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BIKE LANE - NONE

TYPICAL SECTION No. 2



C.R. A1A
OVER FEC RAILROAD SPUR
SKEW 34°

MP 18.408 TO MP 18.457

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 19,500
ESTIMATED OPENING YEAR = 2030 AADT = 20,500
ESTIMATED DESIGN YEAR = 2050 AADT = 23,000
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 45 MPH
DESIGN SPEED (EXISTING) = 45 MPH
DESIGN SPEED (PROPOSED) = 45 MPH
POSTED SPEED (EXISTING) = 45 MPH
POSTED SPEED (PROPOSED) = 45 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	3

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY	(X)	N/A : OFF-SYSTEM

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

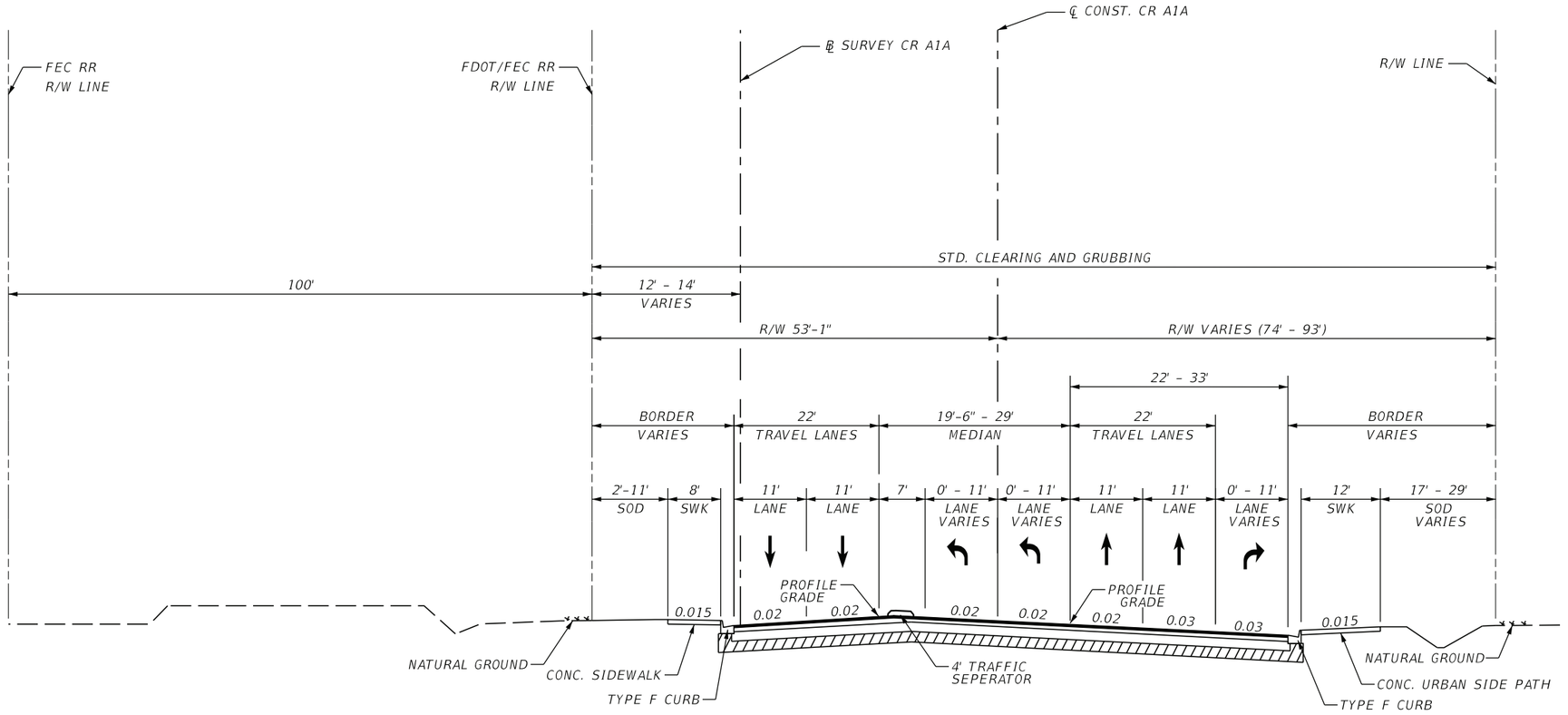
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BIKE LANE - NONE

TYPICAL SECTION No. 3



C.R. A1A
(SOUTH OF S.R. 714)
MP 18.622 TO MP 18.790

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 19,500
ESTIMATED OPENING YEAR = 2030 AADT = 21,000
ESTIMATED DESIGN YEAR = 2050 AADT = 24,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 40 MPH
DESIGN SPEED (EXISTING) = 40 MPH
DESIGN SPEED (PROPOSED) = 40 MPH
POSTED SPEED (EXISTING) = 40 MPH
POSTED SPEED (PROPOSED) = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	4

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY	(X)	N/A : OFF-SYSTEM

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	(X)	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

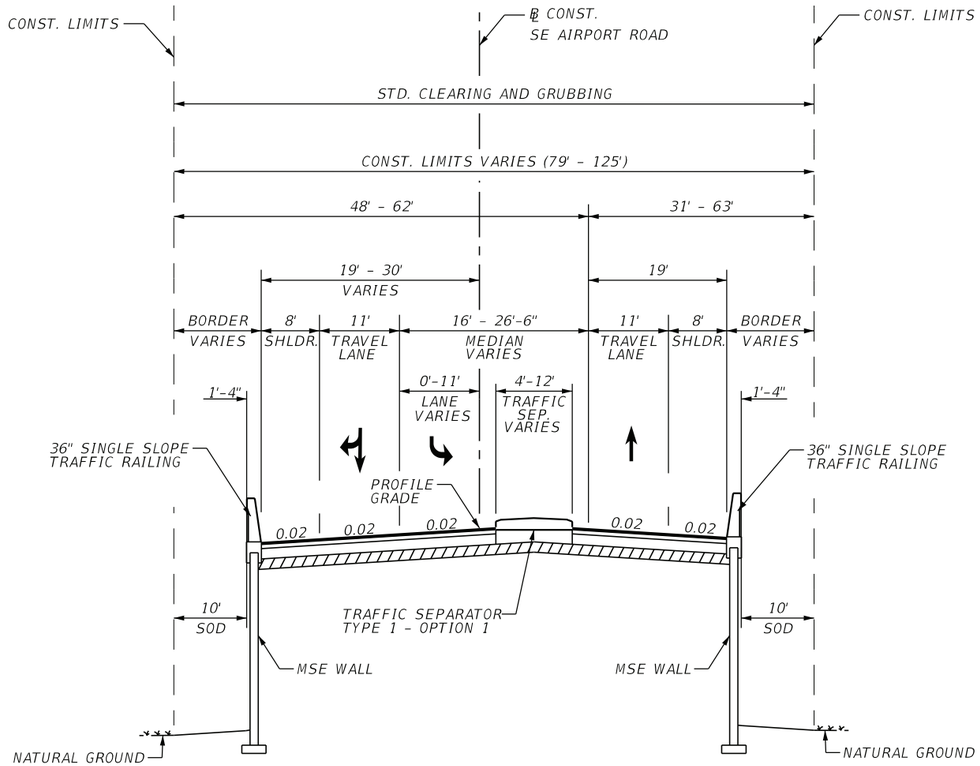
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
(X) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 4



SE AIRPORT ROAD
(EAST OF C.R. A1A)
MP 0.000 TO MP 0.093

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 2,000
ESTIMATED OPENING YEAR = 2030 AADT = 2,100
ESTIMATED DESIGN YEAR = 2050 AADT = 2,400
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 25 MPH
DESIGN SPEED (EXISTING) = 25 MPH
DESIGN SPEED (PROPOSED) = 25 MPH
POSTED SPEED (EXISTING) = 25 MPH
POSTED SPEED (PROPOSED) = 25 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	5

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) N/A : L.A. FACILITY
( ) C3C : SUBURBAN COMM.
( ) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE
(X) N/A : OFF-SYSTEM

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ARTERIAL
( ) MINOR ARTERIAL
( ) MAJOR COLLECTOR
( ) MINOR COLLECTOR
(X) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

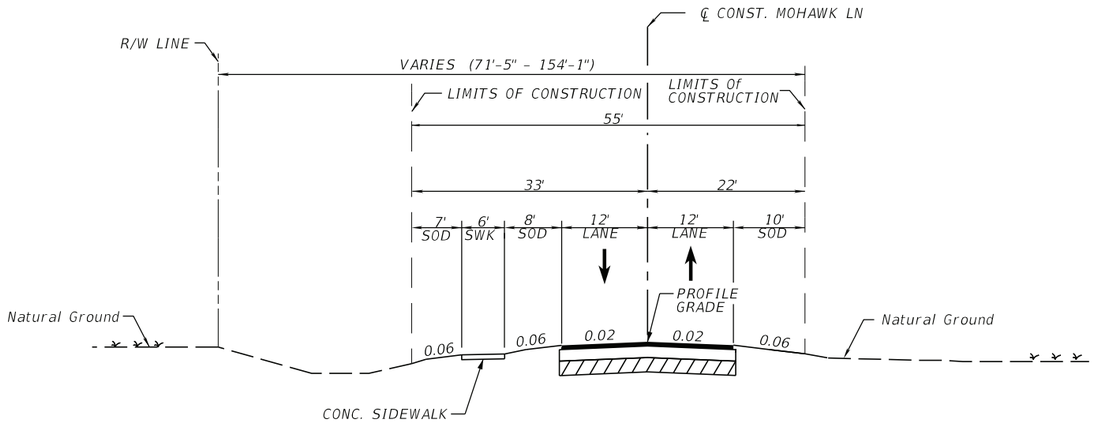
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
(X) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 5



MOHAWK LANE
(EAST OF CR. A1A, SOUTH OF SE AIRPORT RD)
STA . 10+00 TO STA . 15+80

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	6

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APPENDIX B

Preferred Plans

CONTRACT PLANS COMPONENTS

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

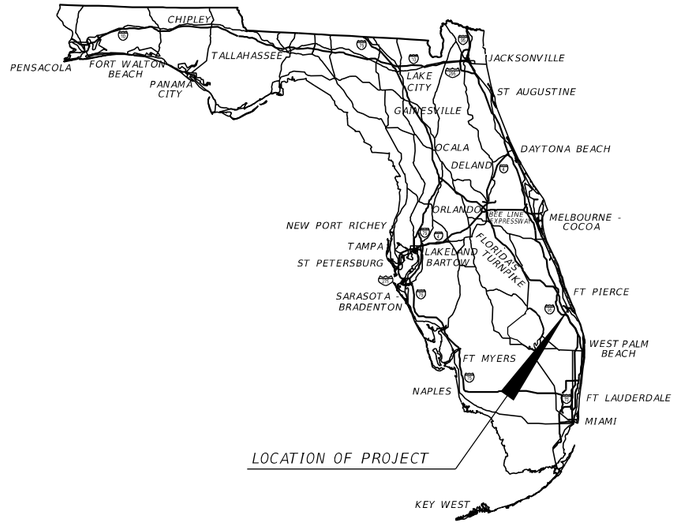
ROADWAY PLANS

FINANCIAL PROJECT ID 441636-2-52-01

MARTIN COUNTY (890920)

STATE ROAD NO. 714 (SE MONTEREY ROAD)

S.R. 714/MONTEREY ROAD @ FEC RAILROAD CROSSING



PROJECT LOCATION URL:	https://tinyurl.com/bdf454wn
PROJECT LIMITS:	S.R. 714 BEGIN MP 1.011 - END MP 1.706
EXCEPTIONS:	
BRIDGE LIMITS:	
RAILROAD CROSSING:	FLORIDA EAST COAST (FEC) MAINLINE (272353M) AND FEC SPUR (272929N)

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
	KEY SHEET
1 - 9	PREFERRED ALTERNATIVE

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2026-27 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: IR - -

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2026-27 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

ROADWAY PLANS ENGINEER OF RECORD:

TANYA KRISTOFF, P.E., P.E.
P.E. LICENSE NUMBER 55463
EGIS USA, INC.
8750 NW 36TH STREET, SUITE 360
MIAMI, FL 33178
904-512-7475
CONTRACT NO.: CAP98
VENDOR NO.: F362338811

FDOT PROJECT MANAGER:

ROBERT LOPES, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		--

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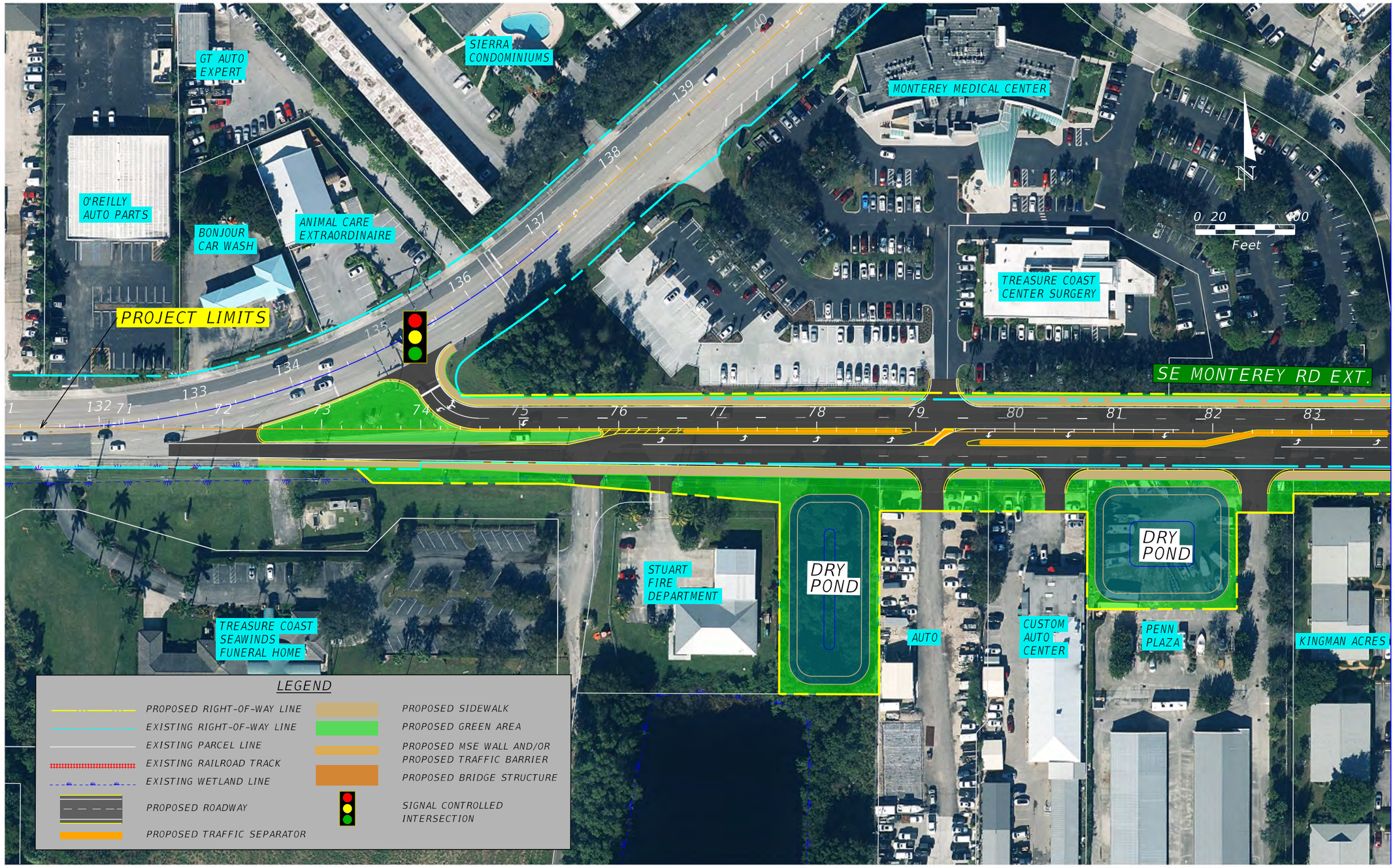

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JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

PREFFERED ALTERNATIVE SE MONTEREY ROAD EXT.

SHEET NO. 1

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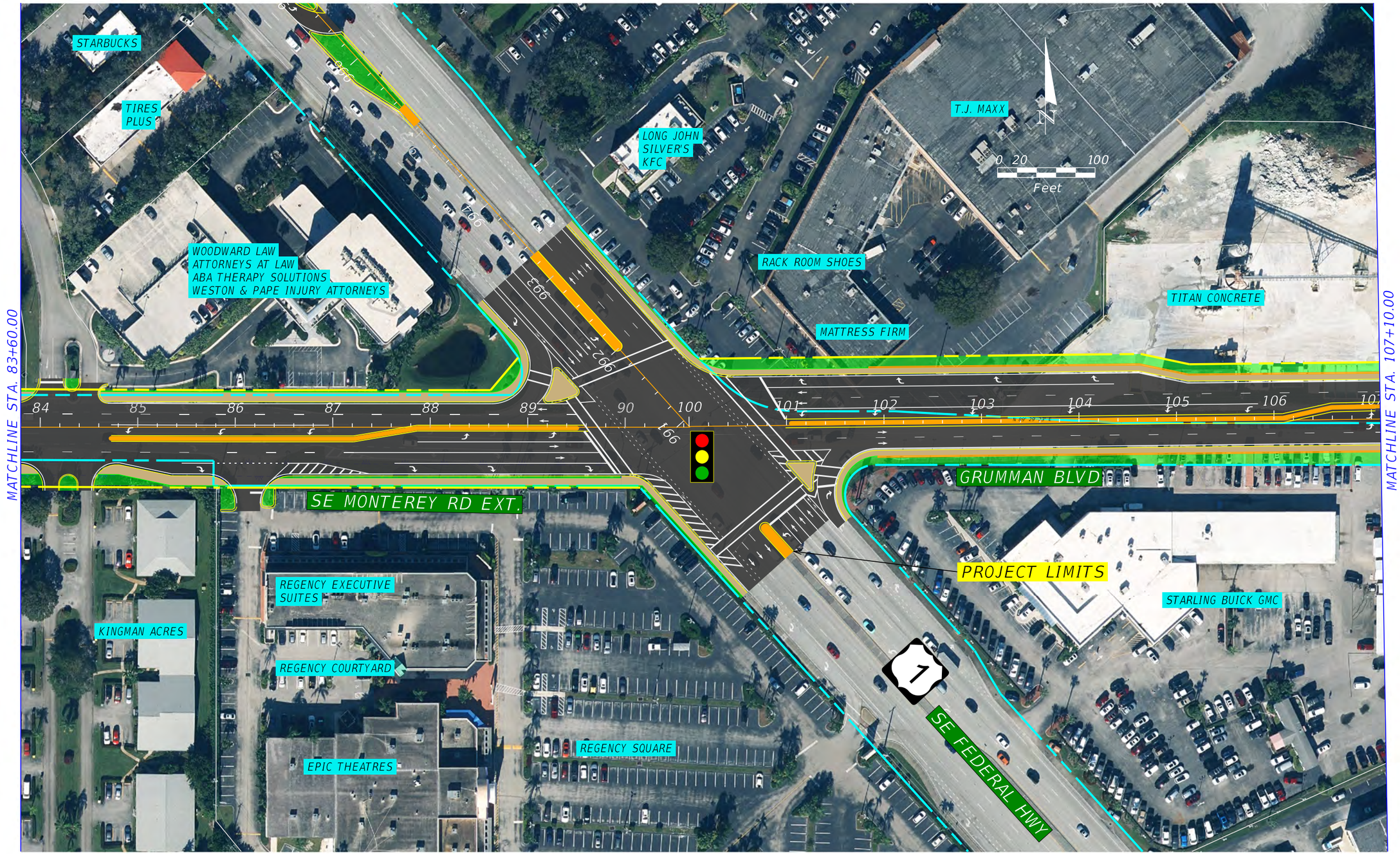

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

PREFERRED ALTERNATIVE SE MONETREY ROAD EXT. & GRUMMAN BLVD

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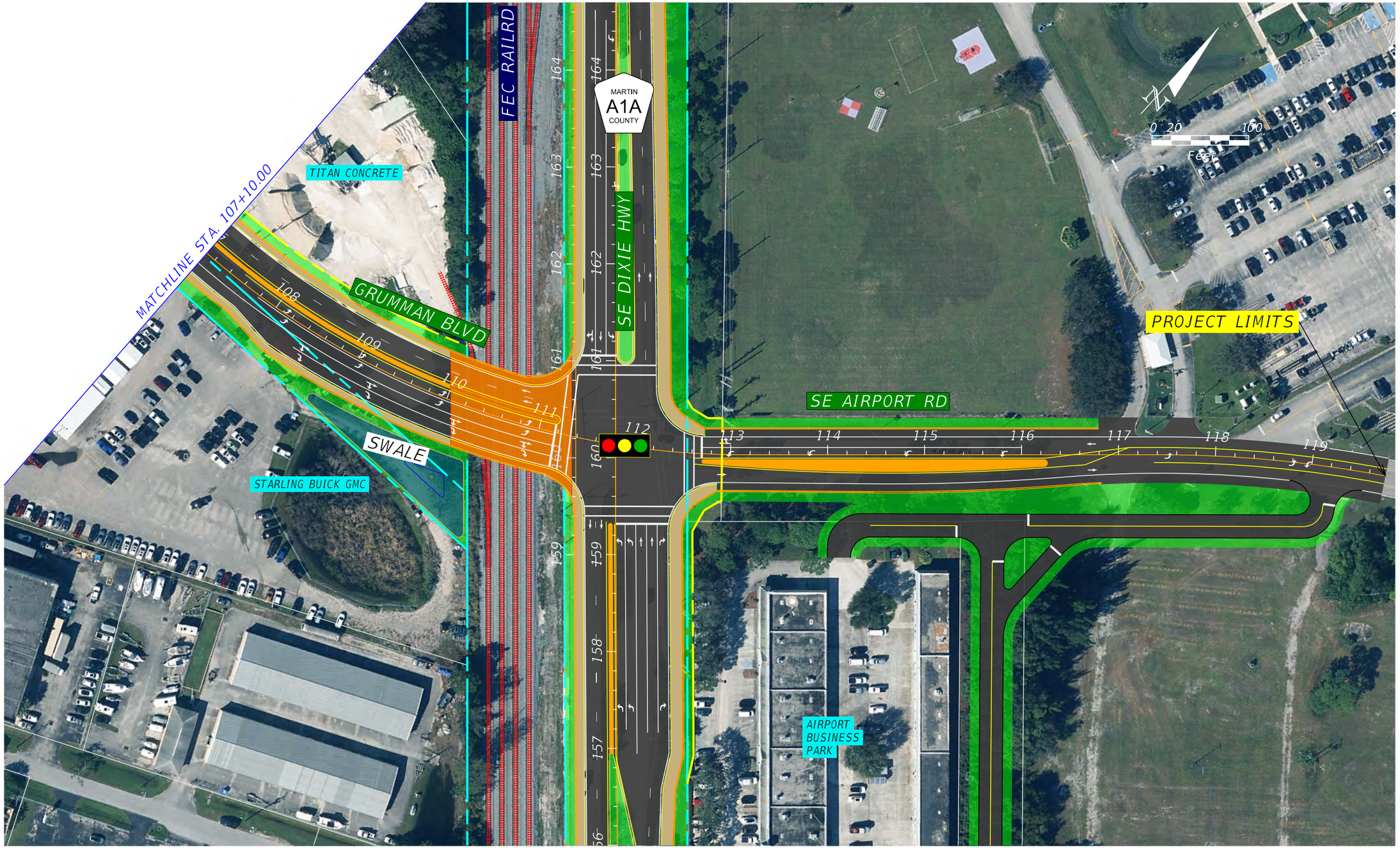

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JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

PREFERRED ALTERNATIVE GRUMMAN BLVD EXT. & SE AIRPORT ROAD

SHEET NO. 3

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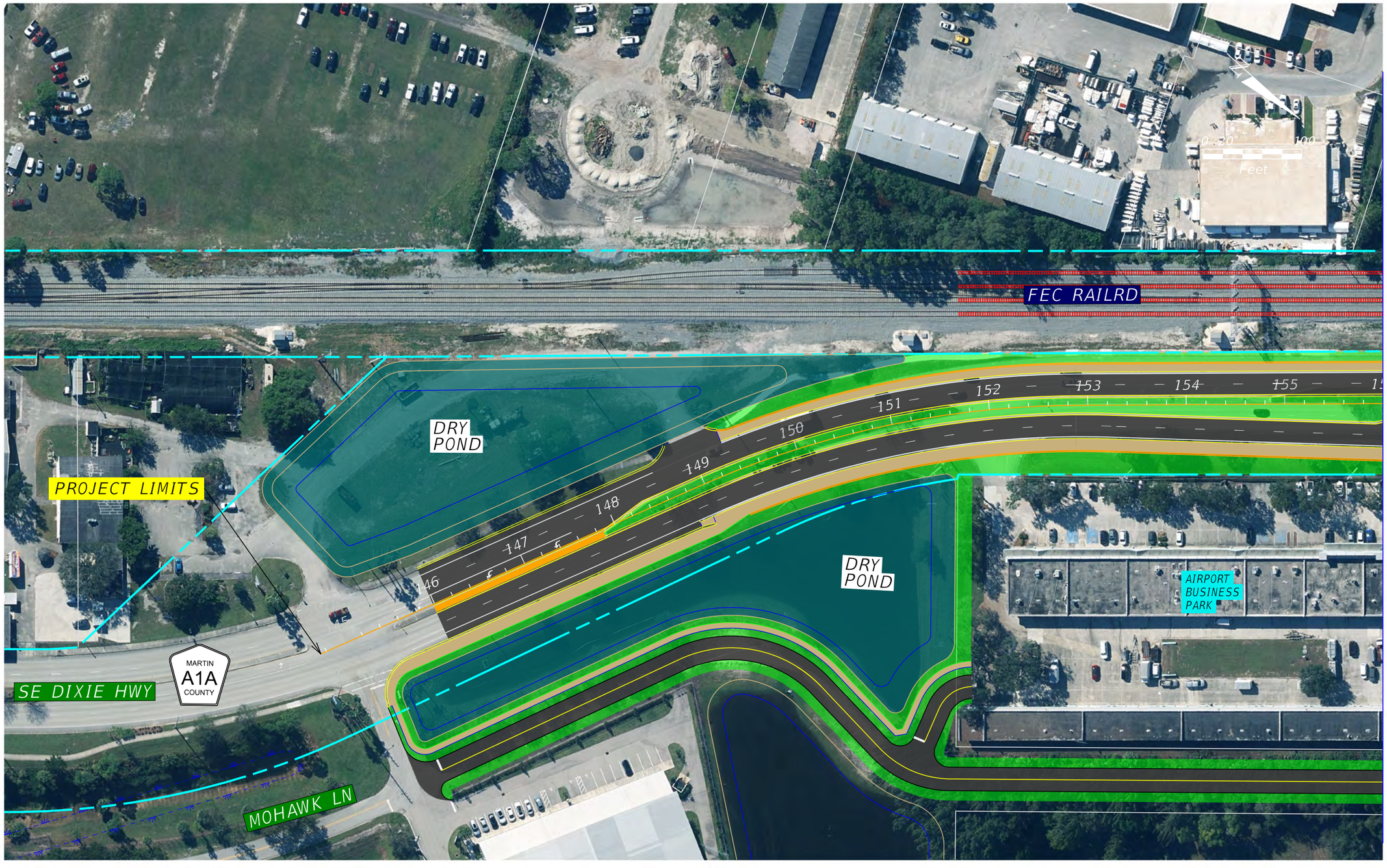

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DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PREFERRED ALTERNATIVE
CR A1A / SE DIXIE HIGHWAY

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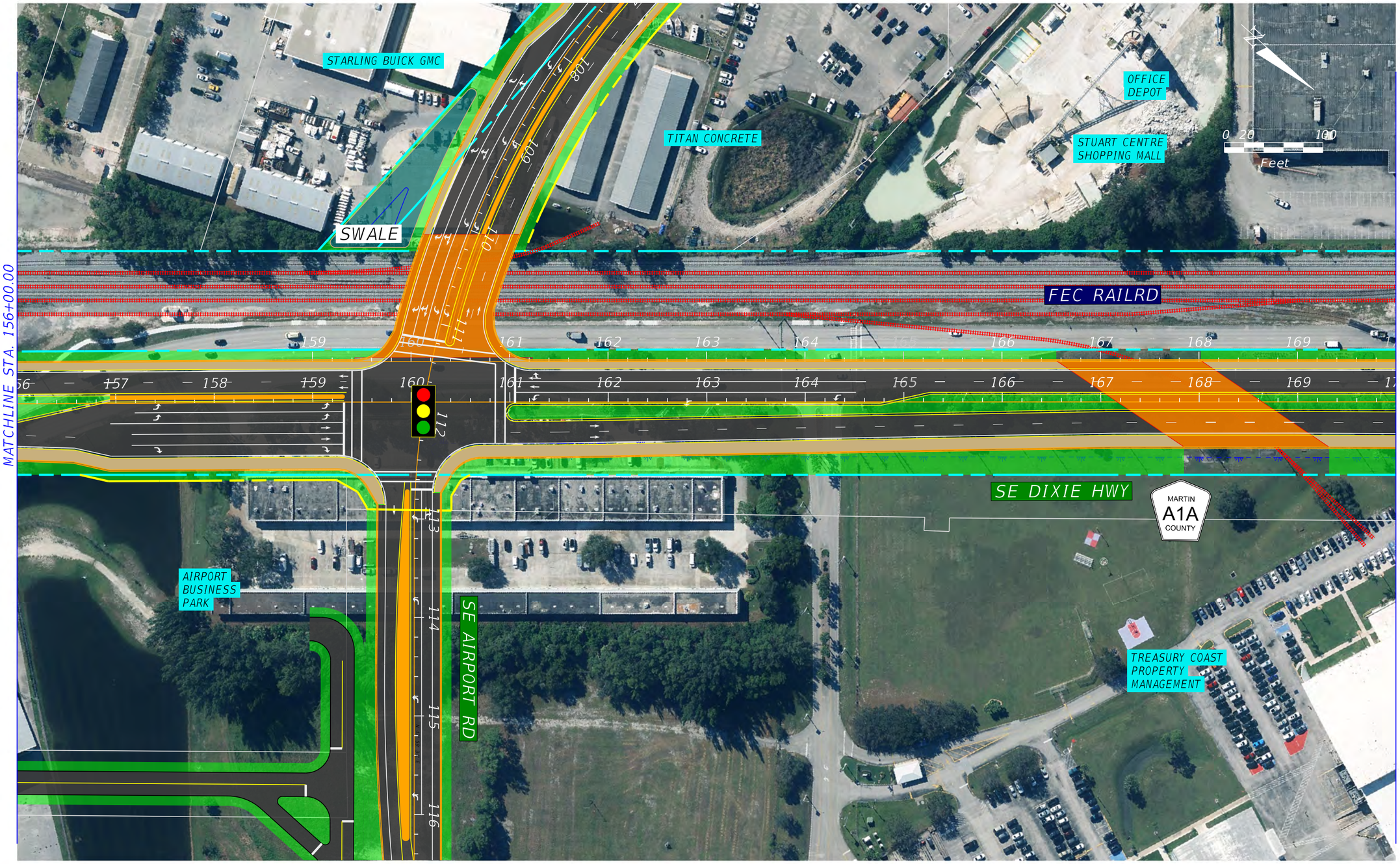

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SR 714	MARTIN	441636-2-22-01

PREFERRED ALTERNATIVE
CR A1A / SE DIXIE HIGHWAY

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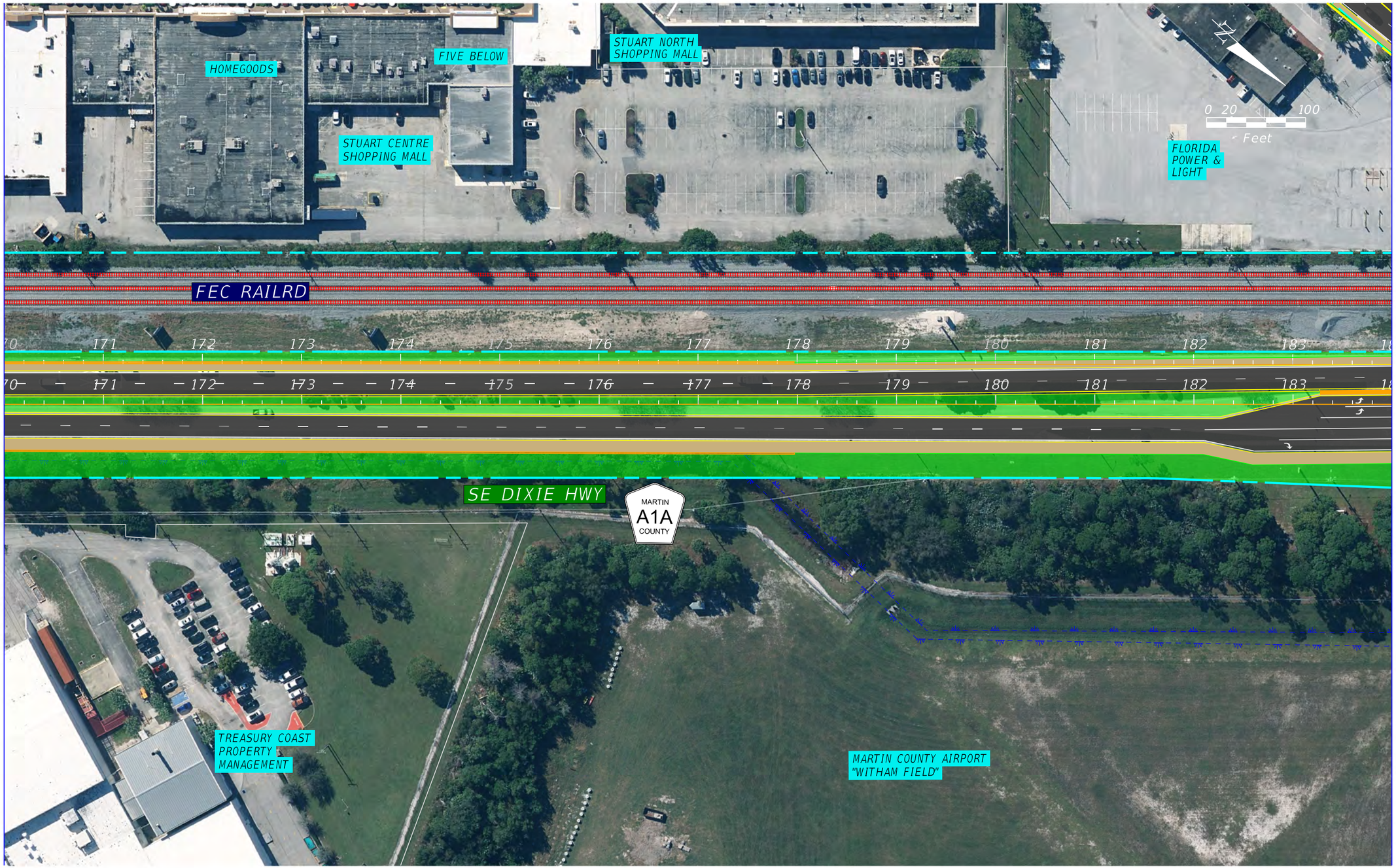

MATCHLINE STA. 170+00.00

MATCHLINE STA. 184+00.00

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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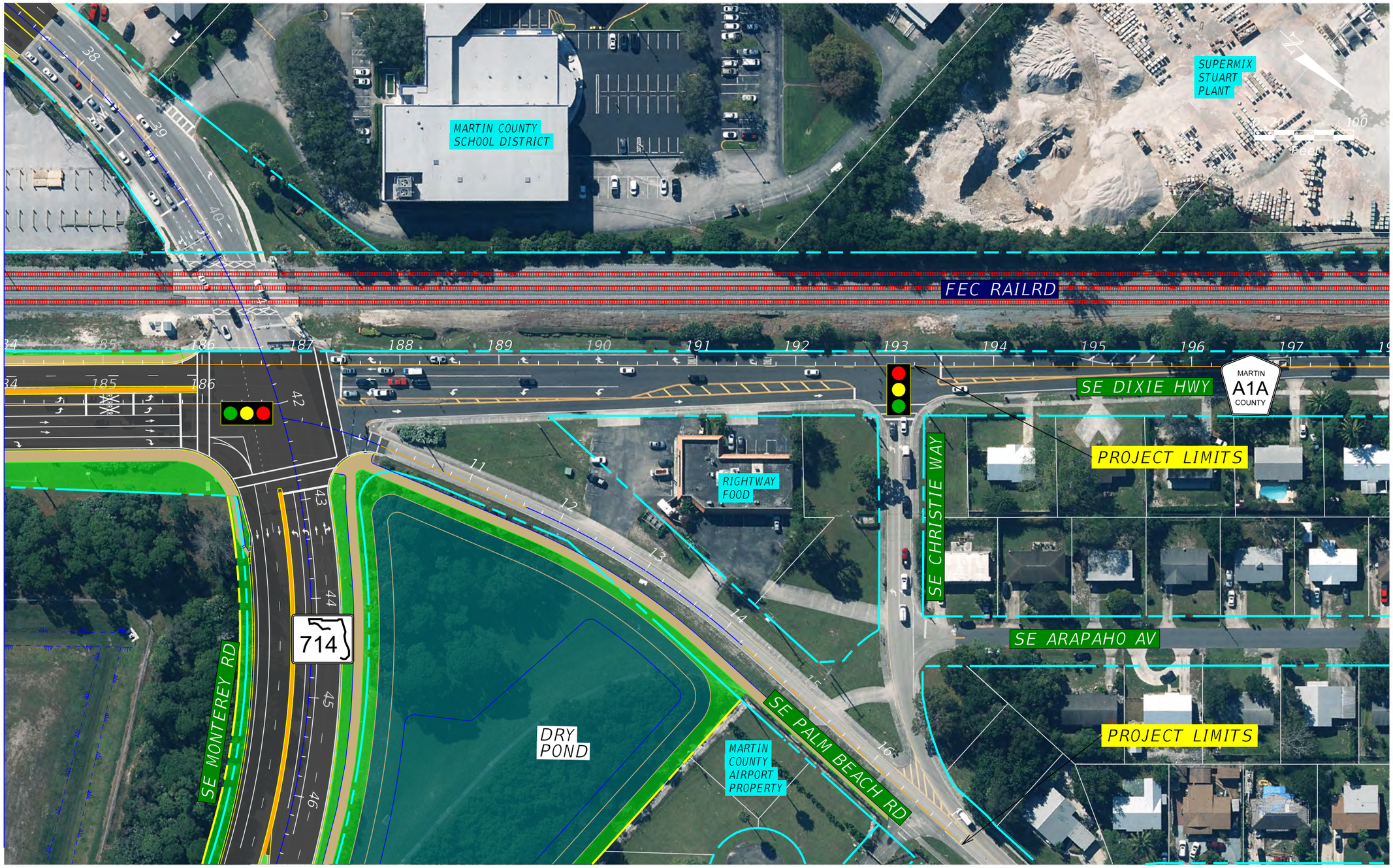

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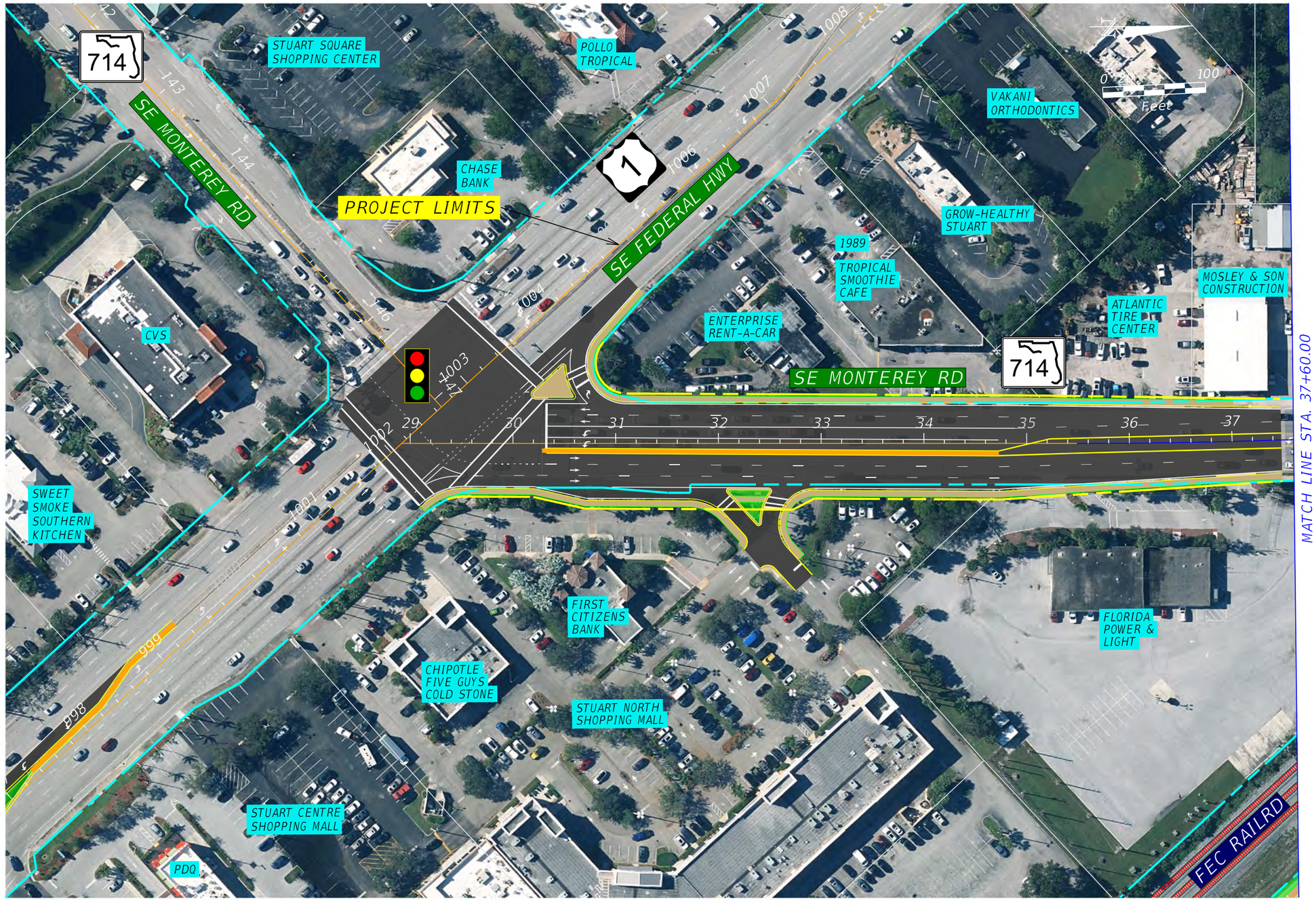

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

PREFERRED ALTERNATIVE SR 714 /SE MONTEREY ROAD

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MARTIN COUNTY SCHOOL DISTRICT

MOSLEY & SON CONSTRUCTION

FEC RAILRD

MARTIN A1A COUNTY

SE DIXIE HWY

714

SE MONTEREY RD

DRY POND

MARTIN COUNTY AIRPORT PROPERTY

0 20 100
Feet

MARTIN COUNTY AIRPORT "WITHAM FIELD"

PROJECT LIMITS

MATCH LINE STA. 37+60.00

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JACKSONVILLE, FL 32256

STATE OF FLORIDA
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SR 714	MARTIN	441636-2-22-01

PREFERRED ALTERNATIVE
SR 714 /SE MONTEREY ROAD

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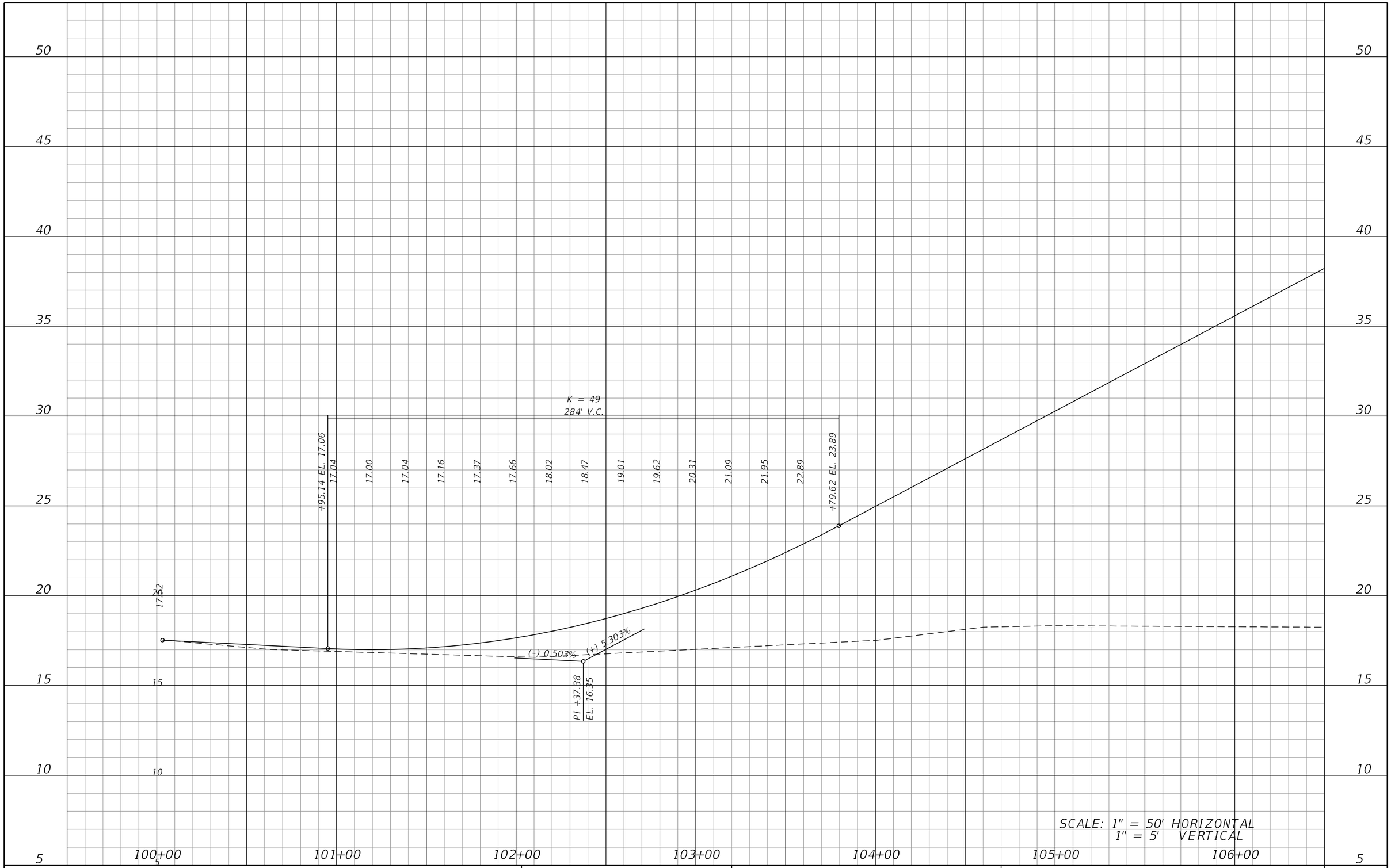

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

SR 714 / MONTEREY RD @ FEC RR
PREFERRED PROFILE
GRUMMAN BLVD OVER FEC

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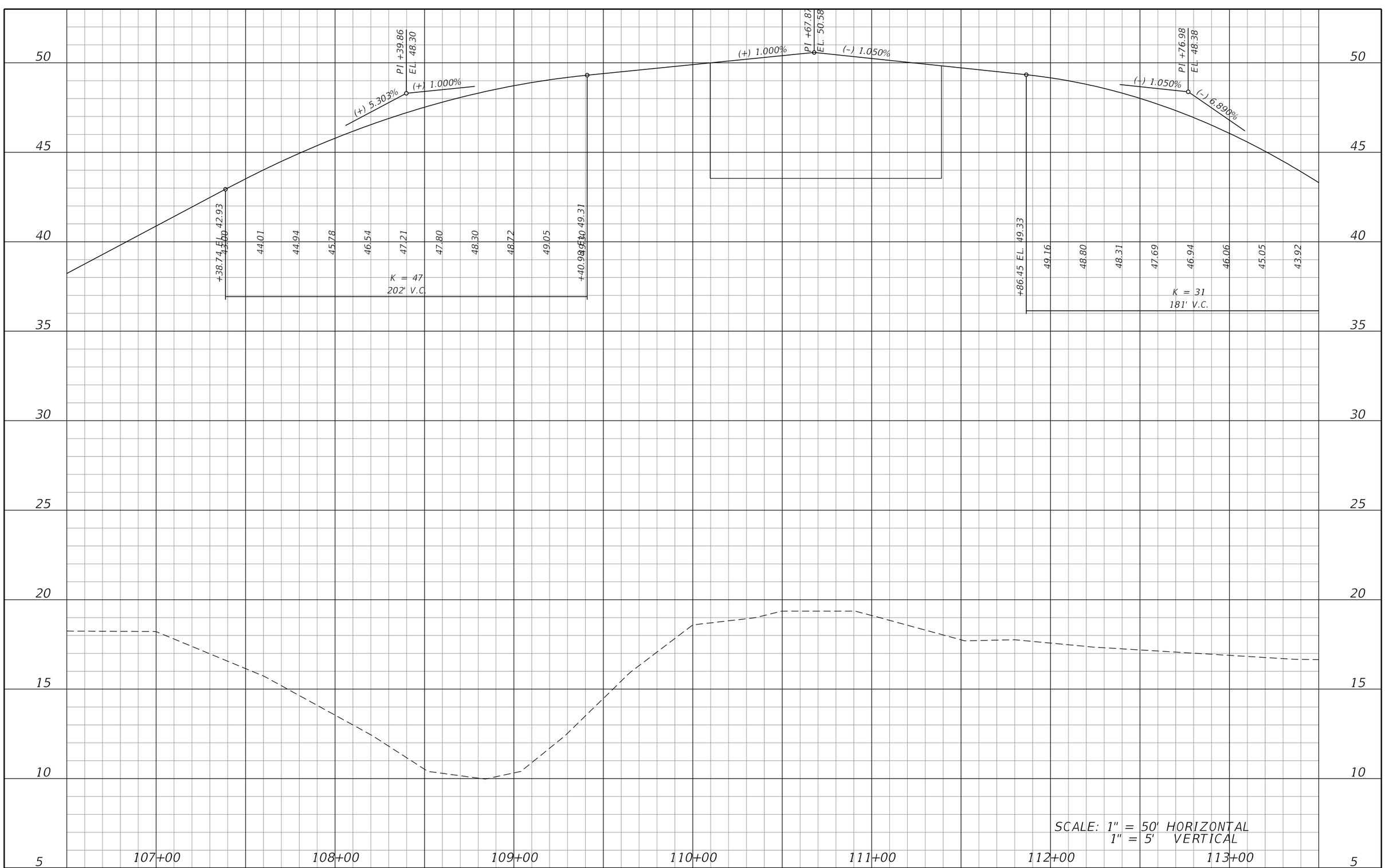

REVISIONS				ENGINEER OF RECORD
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUBER: 55463 EGIS USA, INC. 8750 NW 36TH STREET, SUITE 360 MIAMI, FL 33178

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

SR 714 / MONTEREY RD @ FEC RR
PREFERRED PROFILE
GRUMMAN BLVD OVER FEC

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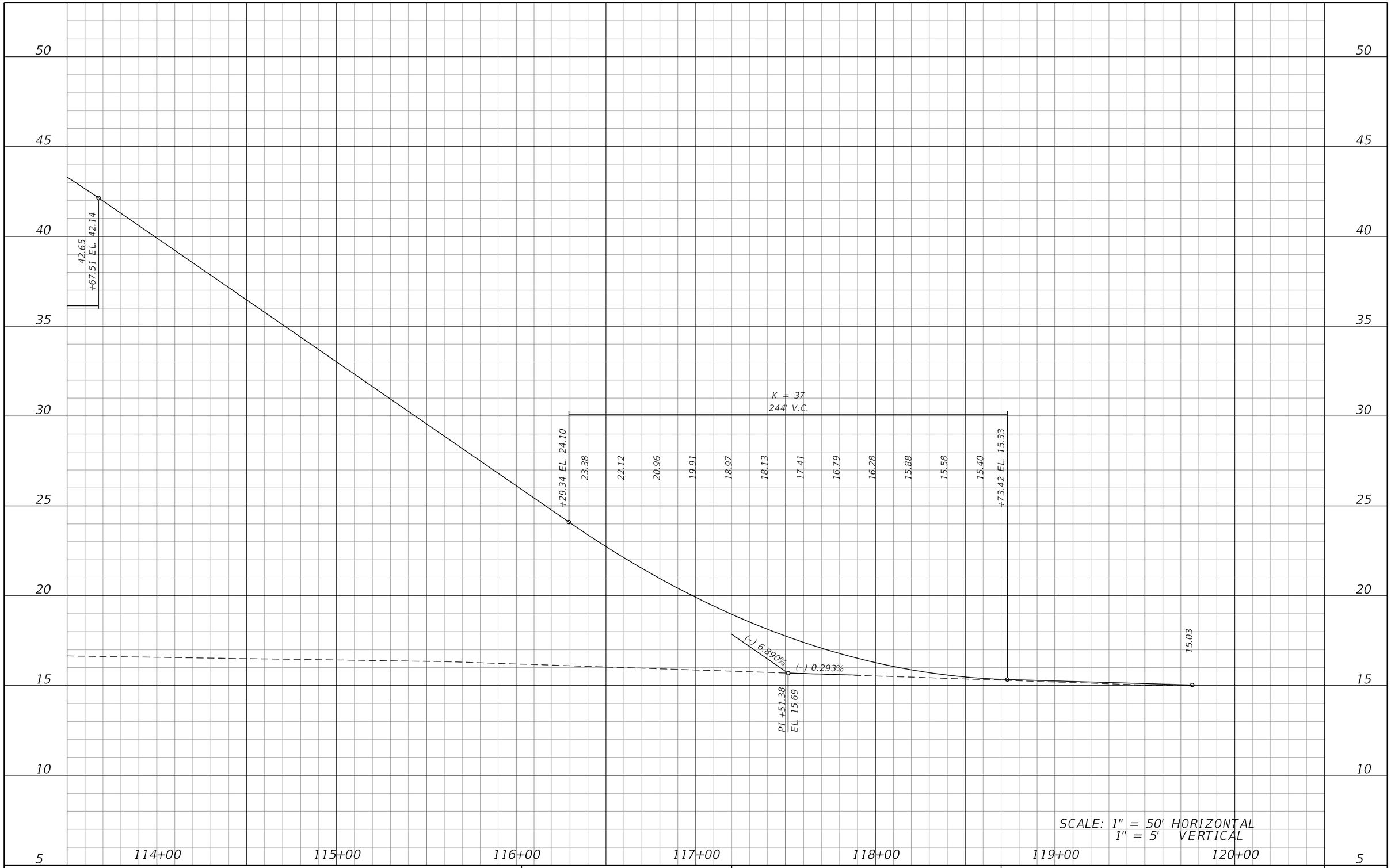

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUBER: 55463
EGIS USA, INC.
8750 NW 36TH STREET, SUITE 360
MIAMI, FL 33178

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

SR 714 / MONTEREY RD @ FEC RR
PREFERRED PROFILE
GRUMMAN BLVD OVER FEC

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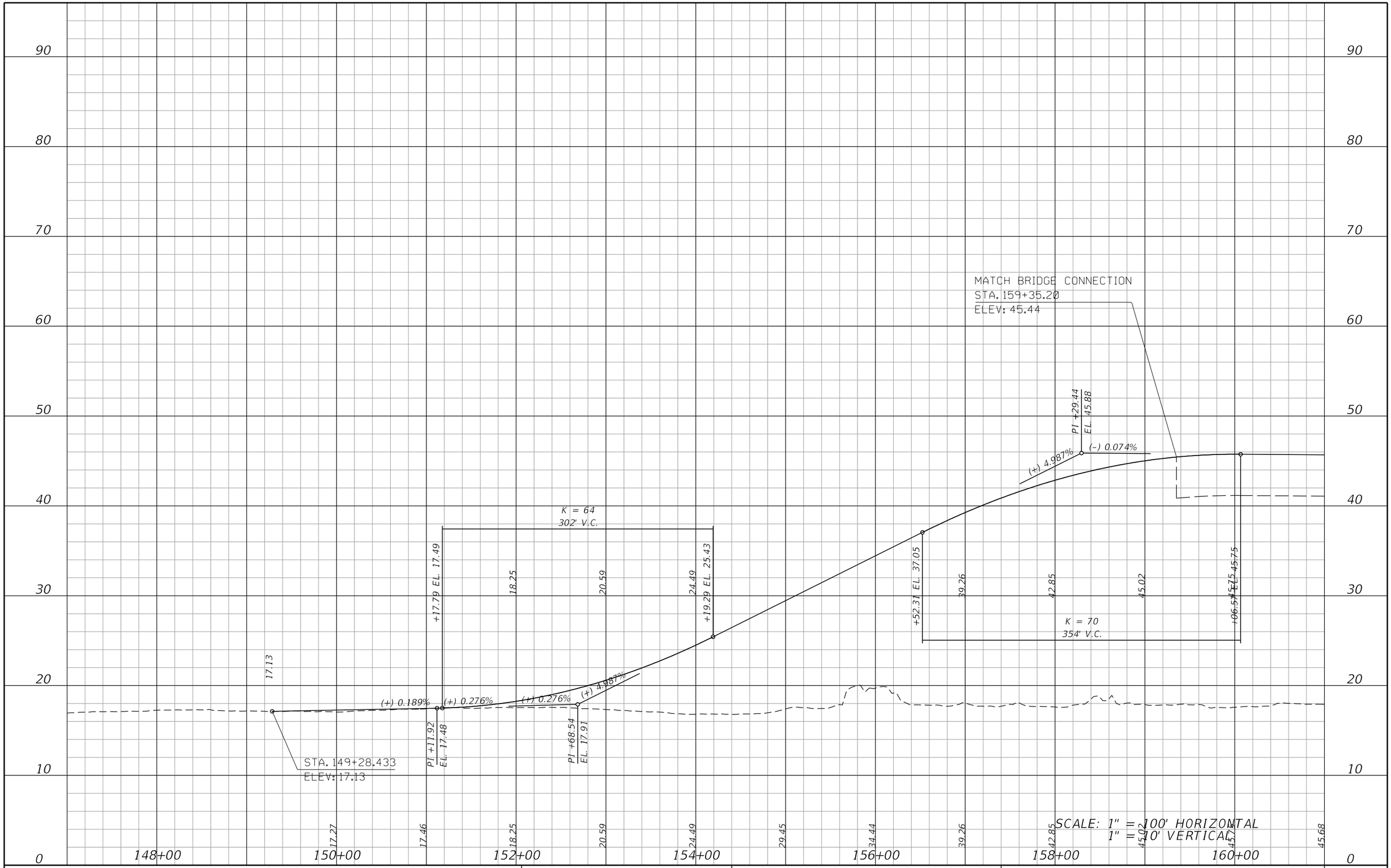

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 714 / MONTEREY RD @ FEC RR PREFERRED PROFILE CR A1A OVER FEC SPUR	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUBER: 55463 EGIS USA, INC. 8750 NW 36TH STREET, SUITE 360 MIAMI, FL 33178	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		1
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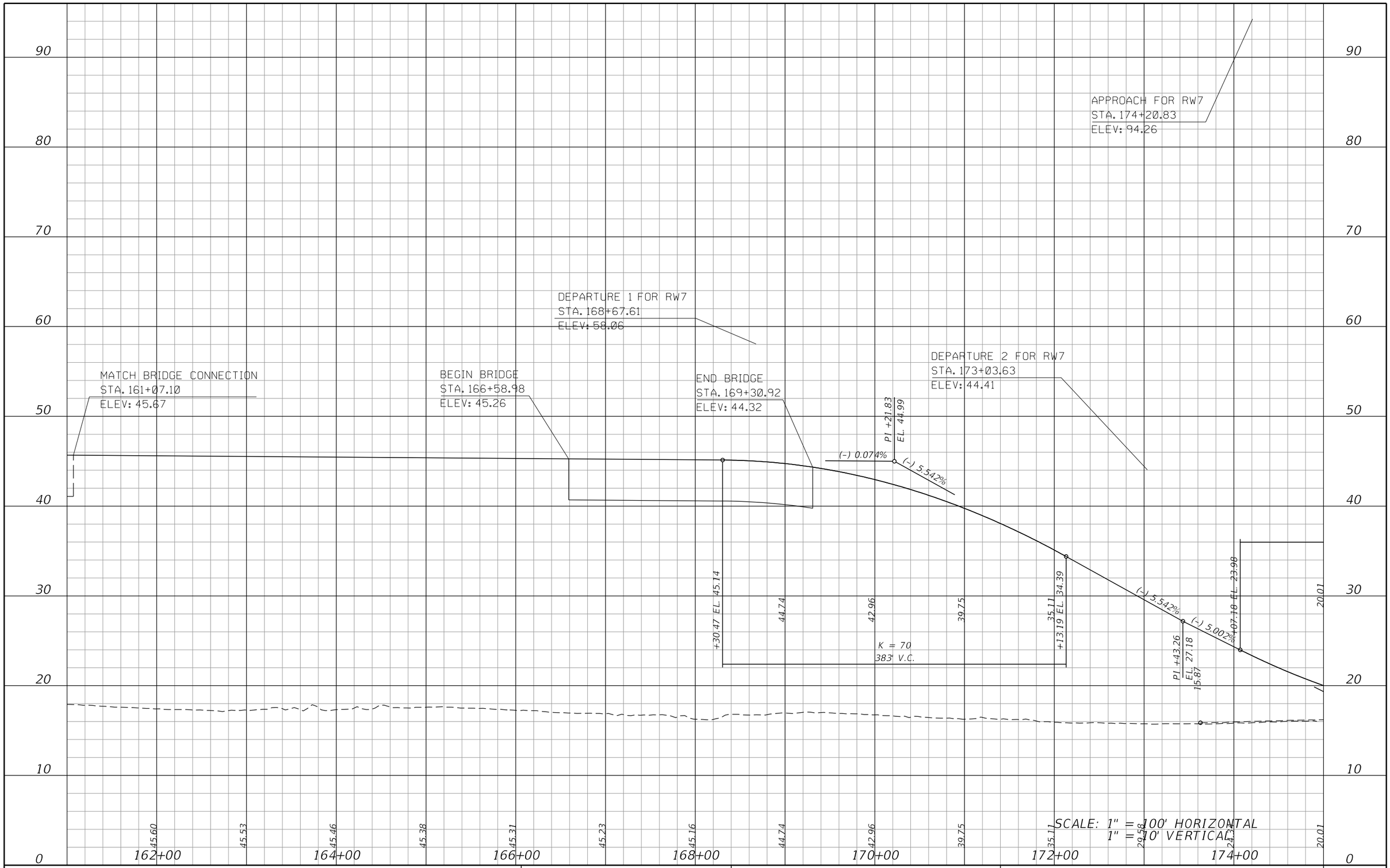

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1" = 10' VERTICAL

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STATE OF FLORIDA
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SR 714	MARTIN	441636-2-22-01

SR 714 / MONTEREY RD @ FEC RR
PREFERRED PROFILE
CR A1A OVER FEC SPUR

SHEET NO. 2

90
80
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20
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K = 64
302' V.C.

17.24
+09.42 16.04 EL. 16.00

(-) 5.002%
(-) 0.279%
P1 +58.30
EL. 16.43

(-) 0.279%
(+) 0.291%
P1 +88.26
EL. 14.67

STA. 186+74.79
ELEV: 16.08
16.08

17.24 16.04 15.75 15.47 15.19 14.91 14.70 14.99 15.28 15.57 15.86

176+00 178+00 180+00 182+00 184+00 186+00 188+00

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

SR 714 / MONTEREY RD @ FEC RR
PREFERRED PROFILE
CR A1A OVER FEC SPUR

SHEET NO. 3

APPENDIX C

Efficient Transportation Decision Making (ETDM)

Florida Department of Transportation

RON DESANTIS
GOVERNOR

3400 West Commercial Boulevard
Fort Lauderdale, Florida 33309

JARED W. PERDUE, P.E.
SECRETARY

ETDM Summary Report

Project 14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

Preliminary Programming Screen - Published on 07/10/2026

Generated by Ali Westbrook (on behalf of FDOT District 4)

Printed on: 7/10/2026

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

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Overview

Introduction to Programming Screen Summary Report

The Programming Screen Summary Report shown below is a read-only version of information contained in theProgramming Screen Summary Report generated by the ETDM Coordinator for the selected project aftercompletion of the ETAT Programming Screen review. The purpose of the Programming Screen Summary Report isto summarize the results of the ETAT Programming Screen review of the project; provide details concerningagency comments about potential effects to natural, cultural, and community resources; and provide additionaldocumentation of activities related to the Programming Phase for the project. Available information for aProgramming 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)
- Specific information regarding the potential transportation improvement such as alternatives or road segments that were reviewed; an overview of ETAT Programming Screen reviews; 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 recommendations 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.

The Florida Department of Transportation may adopt this planning product into the environmental review process, pursuant to Title 23 U.S.C. § 168(d) or the state project development process.

#14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

Planning Organization: FDOT District 4
Phase: Programming Screen
District: District 4
County: Martin
From: SR 714/Monterey Road
To: at FEC Railroad Crossing
Plan ID:
Financial Management No.: 441636-2
Federal Involvement: Other Federal Funding, FHWA Funding, Other Federal Permit

Contact Information: Ali Westbrook (954) 777-4327 x4327 ali.westbrook@dot.state.fl.us
Snapshot Data From: Programming Screen Summary Report Published on 07/10/2026 by Westbrook, Ali

Screening Summary Chart

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

	Social and Economic							Cultural and Tribal			Natural					Physical					
	Social	Economic	Land Use Changes	Mobility	Aesthetic Effects	Relocation Potential	Farmlands	Section 4(f) Potential	Historic and Archaeological Sites	Recreational and Protected Lands	Wetlands and Surface Waters	Water Resources	Floodplains	Protected Species and Habitat	Coastal and Marine	Noise	Air Quality	Contamination	Infrastructure	Navigation	Special Designations
North 1 *Published: 07/10/2026 Reviewed from 02/19/2026 to 04/05/2026)*	3	2	3	1	3	4	2	N/A	3	N/A	2	3	2	3	0	3	2	3	3	N/A	N/A
South 1 *Published: 07/10/2026 Reviewed from 02/19/2026 to 04/05/2026)*	2	3	3	1	3	4	2	N/A	3	N/A	2	3	2	3	0	3	2	3	3	N/A	N/A
North 2 *Published: 07/10/2026 Reviewed from 02/19/2026 to 04/05/2026)*	3	2	3	1	3	4	2	N/A	3	N/A	2	3	2	3	0	3	2	3	3	N/A	N/A

Degree of Effect Legend

N/A N/A / No Involvement
0 None
1 Enhanced
2 Minimal
3 Moderate
4 Substantial
5 Issue Resolution

Project Details

Goal of the Screening Event

The goal is to prepare a Florida Department of Transportation (FDOT) Efficient Transportation Decision Making (ETDM) process Programming Screen which is required for all qualifying projects that will be included or are already included in the Five Year Work Program but have not started the Project Development and Environment (PD&E) Study.

Project Description

This project is a re-screening of the previous screening conducted in 2023. The re-screening includes a revised, larger study area including three Alternatives, which are discussed in detail further below. The project limits extend along State Road (S.R.) 714/Monterey Road approximately 0.60 miles east and 0.25 miles west of the S.R. 714/Monterey Road and the Florida East Coast (FEC) Railroad crossing intersection. This segment is located within unincorporated Martin County, Florida. S.R. 714/Monterey Road runs in a primarily east-west direction and is a state-maintained roadway. Within the project limits, S.R. 714/Monterey Road is an urban typical 4-lane roadway. West of County Road (C.R.) A1A/Southeast (SE) Dixie Highway, S.R. 714 is a four-lane facility with a two-way left turn lane, while east of C.R. A1A/SE Dixie highway, it is a four-lane divided facility. Signalized intersections within the project limits are located at Monterey Road/Dixie Highway. Existing drainage conditions along S.R. 714/Monterey Road are curb and gutter with a closed drainage system using curb inlets as collection points for storm water runoff. C.R. A1A/SE Dixie Highway runs parallel to S.R. 5 within the study area and is not part of the State Highway System within project limits. The FEC Railroad runs along the west side of C.R. A1A/SE Dixie Highway. Pedestrian facilities include a 5-foot-wide sidewalk on both sides of S.R. 714/Monterey Road. There are no bicycle lanes within the project limits.
This study will evaluate several Alternatives (North 1 Alternative, North 2 Alternative, and South 1 Alternative) for the proposed improvements, including a No Build Alternative. A grade-separated crossing/bridge for Monterey Road over the FEC railroad will be considered for all Alternatives. North 1 Alternative will include connecting Monterey Road to SE Palm Beach Road east of the existing intersection of Monterey Road and SE Dixie Highway. North 2 Alternative includes a similar layout to North 1 Alternative with a slight modification for where Monterey Road connects with SE Palm Beach Road. South 1 Alternative does not include any proposed connections between Monterey Road and SE Palm Beach Road. South 1 Alternative includes widening SE Dixie Highway further to the south compared to North 1 and 2 Alternatives, and widening SE Grumman Blvd. Additionally, South 1 Alternative includes Mohawk Lane to the north to connect to an existing shopping plaza. All Alternatives will include considerations for pedestrian and bicycle facilities with the proposed typical sections. Additionally, Witham Field Airport is located within the project limits for all Alternatives. Because the proposed improvements may include a grade-separated crossing and are located within the runway protection zone of the airport, coordination with Witham Field and the Federal Aviation Administration (FAA) will be required.
For a majority of categories listed in the Preliminary Environmental Discussion (PED), the impacts would likely be the same across all Alternatives, due to the same project limits. Where differences would occur (i.e. Aesthetic Effects, Infrastructure, and Sole Source Aquifers) the variances in impacts were described for each Alternative within that category discussion. All Alternatives will require right-of-way (ROW) acquisition for the proposed improvements.

Purpose and Need

Purpose

The primary purpose of the S.R. 714/Monterey Road at FEC Railroad crossing project is to improve traffic operations, support transportation demand, supply more efficient system linkage, and provide enhanced emergency evacuation. By enhancing multimodal connectivity along Monterey Road, the project will support social and transportation related demands.

Need

Project Status

Within the project limits, S.R. 714/Monterey Road is located within the Martin County Metropolitan Planning Organization (MPO). This Project Development and Environment Study (PD&E) is identified as a Priority Project #4 within the Martin County MPO Transportation Improvement Program (TIP) for the Fiscal Year (FY) 2026-2030. This project is noted in the TIP to be in the following phase: P.E., ROW, and Construction. The project is also currently funded for the PD&E Study for FY 2025 and 2026, and the PD&E Study is currently on-going. As listed in the Statewide Transportation Improvement Program (STIP), the estimated total project cost for the PD&E Study is $2,527,476. Preliminary engineering is currently funded, and the estimated total cost is $15,593,143. Construction is currently funded, and the estimated total project cost is $48,924,182.

System Linkage

Monterey Road is an urban typical four-lane roadway. This road runs northeast, connecting Federal Highway to Dixie Highway, along with other areas within unincorporated Martin County. Although Monterey Road is not a designated road in the State's Strategic Intermodal System (SIS), the FEC Railroad is designated as an FDOT SIS railroad. The SIS includes Florida's important transportation facilities that support the state's economy and mobility. According to the *S.R. 714/Monterey Road at FEC PD&E Traffic Forecasting Memorandum (April 2023),* the Monterey Road at Florida East Coast (FEC) Railroad crossing currently accommodates approximately 25 train movements per day, consisting of 21 through freight trains and four switching trains. Traffic operations at this location are further constrained by congestion and queueing along nearby major roadways, including US 1 and Dixie Highway. The Monterey Road/FEC Railroad crossing is closely spaced between adjacent intersections, with the Monterey Road/Dixie Highway

intersection located approximately 118 feet from the rail crossing and the Monterey Road/US 1 intersection located approximately 0.22 miles away. These short distances limit vehicle storage capacity and contribute to traffic backups during peak periods and train operations.

Transportation Demand

Monterey Road is currently operating at an overall Level of Service (LOS) D and is projected to operate at LOS E under future conditions, which is considered unsatisfactory. A contributing factor to the existing operational constraints is the maximum control delay threshold of 55 seconds at the signalized intersection of Monterey Road and County Road (C.R.) A1A, which is frequently exceeded during peak travel periods. Traffic volumes within the project limits are expected to increase over the planning horizon. The Average Annual Daily Traffic (AADT) on Monterey Road east of US 1 is approximately 27,000 vehicles per day under existing conditions and is projected to increase to approximately 32,500 vehicles per day by the 2045 design year, based on the *S.R. 714/Monterey Road at FEC PD&E Traffic Forecasting Memorandum (April 2023)*.

In addition to existing freight operations, future rail activity is expected to increase. The Traffic Forecasting Memorandum indicates that the introduction of Brightline passenger rail service is anticipated to add approximately 15 additional trains per day. Given the frequency of train movements and the constrained roadway geometry, rail operations are a primary contributor to congestion at the Monterey Road/FEC Railroad crossing.

Modal Interrelationships

Monterey Road accommodates a sidewalk along both the north and south sides west of C.R. A1A. East of C.R. A1A, Monterey Road only provides a sidewalk along the north side of the roadway. Designated bicycle lanes are not provided along Monterey Road within the project limits. A bicycle lane is provided along Monterey Road approximately 500 feet east of the C.R. A1A intersection. The study area is served by two bus transit routes, provided by Martin County Public Transit. Additionally, there are at least 10 school buses per school day that traverse the crossing. According to the Martin County Bicycle and Pedestrian Safety Action Plan (2016), Monterey Road at US 1 is a bicycle and pedestrian crash hot spot and Monterey Road within the project limits is a high bicycle/pedestrian crash corridor.

Safety

According to the *FEC Railroad Grade Separation Feasibility Study*, 88 crashes in the vicinity of Monterey Road and the FEC railroad crossing have occurred in the last 5 years. However, none of the crashes included a train.

The Martin County Bicycle and Pedestrian Safety Action Plan includes countermeasures for reducing conflicts with bicycles, pedestrians, and vehicles, which will be considered for the project improvements. The goal of the FEC is to reduce conflicts and provide safe crossings for pedestrians. According to the Federal Rail Safety Improvements (Public Law 11-432-October. 16, 2008) *SEC. 201 Pedestrian Crossing Safety*, it is required by law for railroads to provide audible and visual devices to warn pedestrians of approaching trains. Additionally, at railroad crossings, a pathway dedicated explicitly to the use of non-vehicular traffic such as pedestrians, bicyclists, and others is required.

Emergency Evacuation

Based on Martin County's Evacuation Routes Map, Monterey Road is classified as an evacuation route within the entire project limits. Additionally, Monterey Road is also within a designated hurricane evacuation zone, and this road serves as a route connecting high-risk flood zone neighborhoods and communities of Stuart and Hutchinson Island to more inland communities and evacuation shelters. Therefore, there is need to improve traffic flow and reliability at the intersection of Monterey Road and the FEC Railroad to support efficient evacuation movements during emergency events for the communities of Stuart and Hutchinson Island. There is also a need to reduce delays associated with railroad operations in order to improve emergency response times along this corridor. City of Stuart Fire Rescue Station #2 is located directly south of the project limits on Monterey Road, and reliable access along this roadway is necessary to allow the fire rescue vehicles to efficiently access the surrounding roadway network during an emergency.

Summary of Public Comments

Summary of Public Comments is not available at this time.

Planning Consistency Status

Are the limits consistent with the plans?: Yes

Currently Adopted CFP-LRTP?: Yes

Original PD&E FAP#: Unknown

MPOs: Martin MPO

Attachments:

No attachments found.

Phase	Currently Approved TIP	Currently Approved STIP	TIP / STIP $	TIP / STIP Fiscal Year	Comments
PE (Final Design)	Yes	Yes	$10,051,699	2026	None Provided
ROW	Yes	Yes	$15,593,143	2028	None Provided
Construction	Yes	Yes	$48,924,182	2029	Construction is funded for FY >2029.

Federal Consistency Determination

Date of Determination: 04/20/2026 by Lindsay Weaver

FDEP Clearinghouse Determination: CONSISTENT with Coastal Zone Management Program.

USCG Navigational Determination

- The USCG District Bridge Office has not yet reviewed water crossings for this project.
- The project area impacts **2** identified water crossings.

Lead Agency

FDOT Office of Environmental Management

Exempted Agencies

Agency Name	Justification	Date
US Forest Service	There are no State Forests within the project limits.	02/09/2026
US Coast Guard	US Coast Guard has requested to be exempt from reviewing any projects that do not impact navigable waterways.	02/09/2026
Federal Transit Administration	FTA has requested to be exempt from reviewing any non-transit projects.	03/21/2023
National Park Service	There are no National Parks within the project limits.	03/20/2023

Project Documents

Date	Type	Size	Document
05/16/2023	Form SF-424: Application for Federal Assistance	511 KB	Form SF-424: Application for Federal Assistance http://etdmpub.fla-etat.org/est/servlet/blobViewer?blobID=39459
02/19/2026	Advance Notification Package	13.94 MB	Advance Notification Package
05/16/2023	Advance Notification Package	2.46 MB	Advance Notification Package

Sociocultural Data Reports

Census Places Within 500 Feet

No milestone analysis area Sociocultural Data Reports available

User Defined Communities Within 500 Feet

No milestone analysis area Sociocultural Data Reports available

Analysis Areas SDRs

No milestone analysis area Sociocultural Data Reports available

Cultural Resources Reports

- North 1 - CRDR not available.
- South 1 - CRDR not available.
- North 2 - CRDR not available.

Agency Comments - Purpose and Need

Purpose and Need Reviews With No Additional Comments

Agency	Acknowledgment	Date Reviewed	Reviewer
SHPO	Understood	03/26/2026	Alyssa McManus (Alyssa.mcmanus@dos.fl.gov)
USEPA	Understood	03/31/2026	Amanetta Somerville (somerville.amanetta@epa.gov)
STOF	Understood	02/19/2026	Victoria Menchaca (victoriamenchaca@semtribe.com)
FDOT-OEM	Accepted	03/27/2026	Jonathan Turner (Jonathan.Turner@dot.state.fl.us)
FDACS	Understood	03/26/2026	Mark Kiser (Mark.Kiser@fdacs.gov)
SFWMD	Understood	04/03/2026	Jessica Huffman-Mainelli (jhuffman@sfwmd.gov)
NMFS	Understood	03/26/2026	Kurtis Gregg (kurtis.gregg@noaa.gov)
FWC	Understood	04/10/2026	Laura DiGruttolo (laura.digruttolo@myfwc.com)
USFWS	Understood	03/13/2026	Amber Rhodes (amber_rhodes@fws.gov)
USACE	Understood	04/03/2026	Heather Mason (Heather.m.mason@usace.army.mil)
NPS	Understood	02/19/2026	PJ Walker (pj_walker@nps.gov)
FDEP	Understood	04/03/2026	Lindsay Weaver (Lindsay.Weaver@FloridaDEP.gov)

Purpose and Need Reviews With Additional Comments

No purpose and need reviews were found.

Organizations Not Submitting a Review

The following organizations were notified but did not submit a review of the purpose and need:

- FL Department of Economic Opportunity
- Natural Resources Conservation Service

Analysis Areas

North 1

Name	From	To	Type	Status	Total Length	Cost	Modes	SIS
North 1			Widening	ETAT Review Complete			Roadway; Bicycle; Pedestrian	No

Polygon Details

Location and Length

Polygon No.	Name	Beginning Location	Ending Location	Length (mi.)	Roadway Id	BMP	EMP
A-001							

Jurisdiction and Class

Polygon No.	Jurisdiction	Urban Service Area	Functional Class
A-001			

Base Conditions

Polygon No.	Year	AADT	Lanes	Config
A-001				

Interim Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Needs Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Cost Feasible Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Funding Sources

No funding sources found.

Project Effects Overview for North 1

Topic	Degree of Effect		Organization	Date Reviewed
Social and Economic				
Social	3	Moderate	US Environmental Protection Agency	04/02/2026
Cultural and Tribal				
Historic and Archaeological Sites	3	Moderate	FL Department of State	03/26/2026
Historic and Archaeological Sites	3	Moderate	Seminole Tribe of Florida	02/19/2026
Recreational and Protected Lands	2	Minimal	South Florida Water Management District	04/03/2026
Recreational and Protected Lands	N/A	N/A / No Involvement	FL Department of Environmental Protection	04/03/2026
Recreational and Protected Lands	N/A	N/A / No Involvement	National Park Service	02/19/2026
Natural				
Wetlands and Surface Waters	2	Minimal	South Florida Water Management District	04/03/2026
Wetlands and Surface Waters	2	Minimal	US Army Corps of Engineers	04/03/2026
Wetlands and Surface Waters	2	Minimal	US Environmental Protection Agency	04/03/2026
Wetlands and Surface Waters	0	None	National Marine Fisheries Service	03/26/2026
Wetlands and Surface Waters	2	Minimal	US Fish and Wildlife Service	03/13/2026

Water Resources	2	Minimal	South Florida Water Management District	04/03/2026
Water Resources	2	Minimal	FL Department of Environmental Protection	04/03/2026
Water Resources	3	Moderate	US Environmental Protection Agency	04/03/2026
Floodplains	2	Minimal	South Florida Water Management District	04/03/2026
Protected Species and Habitat	3	Moderate	FL Fish and Wildlife Conservation Commission	04/10/2026
Protected Species and Habitat	3	Moderate	FL Department of Agriculture and Consumer Services	03/26/2026
Protected Species and Habitat	3	Moderate	US Fish and Wildlife Service	03/13/2026
Coastal and Marine	2	Minimal	South Florida Water Management District	04/03/2026
Coastal and Marine	0	None	National Marine Fisheries Service	03/26/2026
Physical				
Air Quality	2	Minimal	US Environmental Protection Agency	03/31/2026
Contamination	2	Minimal	South Florida Water Management District	04/03/2026
Contamination	3	Moderate	FL Department of Environmental Protection	04/03/2026
Contamination	3	Moderate	US Environmental Protection Agency	04/03/2026
Navigation	N/A	N/A / No Involvement	US Army Corps of Engineers	04/03/2026
Special Designations				
Special Designations	2	Minimal	South Florida Water Management District	04/03/2026
Special Designations	N/A	N/A / No Involvement	US Environmental Protection Agency	03/31/2026

Project Effects Details for North 1

Social and Economic - Social

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Social topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- The EPA recommends the FDOT provide opportunities for public involvement, as appropriate based on the applicable level of NEPA review. [USEPA]

Summary:
The proposed improvements are not expected to disproportionately affect minority, low-income, or disadvantaged populations, but an analysis of the effects on these populations will be considered during the PD&E Study. The North 1 Alternative and North 2 Alternative are anticipated to result in a greater Degree of Effect on the social environment compared to the South 1 Alternative. These Alternatives would have greater proximity to, and potential impacts on, the established residential neighborhood located north of Monterey Road and east of SE Dixie Highway, including potential effects related to access, noise, visual changes, and temporary construction-related disruptions. The South 1 Alternative is anticipated to have a lower Degree of Effect on residential communities but may result in comparatively greater impacts to nearby commercial properties and businesses.

Overall impacts on the social environment and community cohesion are anticipated to be **Moderate** for North 1 Alternative and North 2 Alternative. While the degree of effect for the South 1 Alternative would be **Minimal.** This is due to the North 1 Alternative and North 2 Alternative traversing through residential neighborhoods, while the South 1 Alternative avoids impacts to residential neighborhoods.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026, therefore input from the public is still being gathered. A project website has been created which includes all the project information. Social effects of the project will be fully analyzed within the Sociocultural Effects Memorandum, which is currently in progress.

3 **US Environmental Protection Agency (04/02/2026 11:16:10 AM)**

Social Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the Environmental Screening Tool (EST), the FDOT highlighted that additional right-of-way, including relocations, will be needed to accommodate the proposed project. Additionally, the FDOT notes that access to proximate residences and businesses may be temporarily affected and/or modified as a result of the project.
The NEPA statute requires public engagement in the federal decision-making process for actions that could significantly impact the environment. *See* NEPA 102(2)(c), 107(c). In addition, FHWA mandates public involvement at various levels of the NEPA review process. *See, e.g.*, 23 U.S.C. 139 (f)(1), (f)(4)(A)(i), (g)(4).
Per the April 2023 FDOT and EPA IA, the EPA has assigned a moderate degree of effect on social impacts.

Comments on Effects to Resources

The NEPA statute requires public engagement in the federal decision-making process for actions that could significantly impact the environment. *See* NEPA 102(2)(c), 107(c). In addition, FHWA mandates public involvement at various levels of the NEPA review process. *See, e.g.*, 23 U.S.C. 139 (f)(1), (f)(4)(A)(i), (g)(4). The EPA recommends the FDOT provide opportunities for public input, as appropriate based on the applicable level of NEPA review.

Recommended Avoidance, Minimization, and Mitigation Opportunities

NA

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Social and Economic - Economic

Coordinator Summary Degree of Effect:	2	**Minimal**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
All Alternatives are expected to provide long-term economic benefits through enhanced mobility, improved traffic operations, and increased accessibility, which may positively influence local economic activity. A Sociocultural Effects Evaluation will be included in the PD&E Study. During the Project Development phase, FDOT District Four will encourage the public and the communities to engage in public meetings. The meetings will present a clear and transparent detailed analysis for the corridor and study areas for the improvements, impacts, and alternative solutions for the construction of this project.

It is anticipated that the effect to Economic will be **Moderate** for the South 1 Alternative, but **Minimal** for the North 1 Alternative and North 2 Alternative. The South 1 Alternative has slightly higher percentages of households living below the poverty level than households within the North 1 Alternative and North 2 Alternative study areas. Additionally, the South 1 Alternative may have higher impacts on adjacent businesses, further proving the need for the South 1 Alternative to have a **Moderate** degree of effect for Economic.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026. A project website has been created which includes all the project information. Economic effects of the project will be fully analyzed within the Sociocultural Effects Memorandum, which is currently in progress.

No ETAT Reviews were submitted for the Economic Topic.

The following organization(s) were expected to but did not submit comments for **North 1** about potential direct effects in the Economic category: FL Department of Economic Opportunity

Social and Economic - Land Use Changes

Coordinator Summary Degree of Effect:	3	Moderate

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
The proposed improvements are consistent with the Martin County 2045 Long Range Transportation Plan and 2045 Cost Feasible Plan (CFP). Overall, the proposed project is expected to have some land use impacts along the project limits due to improving the FEC Railroad crossing. All three Alternatives are likely to include land use impacts. Although, due to the study area already largely developed, there should be no impacts to the future land use of the surrounding area.

It is anticipated that the effect on Land Use will be **Moderate** for all Alternatives.

Next Steps:
Land Use impacts for each alternative will be documented within the Sociocultural Effects, which is currently in progress.

No ETAT Reviews were submitted for the Land Use Changes Topic.

The following organization(s) were expected to but did not submit comments for **North 1** about potential direct effects in the Land Use Changes category: FL Department of Economic Opportunity

Social and Economic - Mobility

Coordinator Summary Degree of Effect:	1	Enhanced

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
Currently, there is one bus route (Route 2- Stuart Route) that utilizes Monterey Road. Additionally, 10 school buses per school day utilize the Monterey Road/FEC Railroad crossing. There are several community facilities within the 1/4-mile buffer study area surrounding all three Alternatives: YMCA of the Treasure Coast, Stuart Rehabilitation and Healthcare, Stuart Senior Living, City of Stuart Fire Station No. 2, and the Martin County District Office. Lastly, there are no existing trails within the study area, however, the East Coast Greenway has been partially funded and may traverse through the study area at some point in the future. Multi-modal transportation will be considered on Monterey Road to serve and connect the transit-supportive land uses. Sidewalks currently exist on part of the roadway and will remain or be improved as part of the intersection improvements. Bike lanes may also be considered for this project.
It is anticipated that the effect on Mobility will be **Enhanced** by any of the Alternatives.

Next Steps:
Impacts on Mobility for each alternative will be documented within the Sociocultural Effects, which is currently in progress.

No ETAT Reviews were submitted for the Mobility Topic.

Social and Economic - Aesthetic Effects

Coordinator Summary Degree of Effect:	3	Moderate

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:

While the proposed Alternatives are located primarily along existing transportation corridors, all Alternatives include a new potential elevated bridge/intersection configuration and new roadway segments adjacent to residential areas. These features would introduce new vertical elements, roadway structures, and changes in roadway alignment that could alter the existing visual environment, particularly for nearby residences. As a result, the project has the potential to create noticeable changes to the existing viewshed in localized areas.

It is anticipated that the Aesthetic Effects will be **Moderate** for all Alternatives.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026. A project website has been created which includes all the project information. Input regarding Aesthetics is still being obtained from the public and will continue to be obtained throughout the duration of the PD&E Study.

No ETAT Reviews were submitted for the Aesthetic Effects Topic.

Social and Economic - Relocation Potential

Coordinator Summary Degree of Effect: 4 **Substantial**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
North 1 Alternative
According to the WMD Residential Areas (FLUCCS Level 3) data, residential areas cover approximately 60.41 acres within the 500-foot project buffer. Additionally, the YMCA of the Treasure Coast is located within the 500-foot buffer and may be impacted. As indicated above, the North 1 Alternative may require 18 residential relocations and 1 business relocation, along with impacting 43 total parcels.

Some ROW may be required for the proposed project. During the PD&E Study, a Conceptual Stage Relocation Plan will be prepared for any relocations required.

It is anticipated that the effect on Relocation Potential will be **Substantial** for all three Alternatives.

Next Steps:
ROW and relocation information will be determined for each alternative. Additionally, a Conceptual Stage Relocation Plan will be developed.

No ETAT Reviews were submitted for the Relocation Potential Topic.

Social and Economic - Farmlands

Coordinator Summary Degree of Effect: 2 **Minimal**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:

North 1 Alternative
A review of the GIS Analysis on ETDM identified 183.34 acres of Prime Farmland with a classification of Farmland of Unique Importance within the 500-foot buffer for the North 1 Alternative.

There are no Generalized Agricultural land uses within the 500-foot buffer though. Additionally, based on an aerial view of the study area, a majority of the study area is developed and therefore is not currently utilized for farming or other agricultural purposes.

Due to the developed nature of the study area, it is anticipated that the effect on Farmlands will be **Minimal** for all Alternatives.

Next Steps:
During the PD&E Study, the proposed project impacts on farmlands will be evaluated further. Coordination with the Natural Resources Conservation Service (NRCS), including preparation of a Farmland Conversion Impact Rating Form, will occur, if necessary.

No ETAT Reviews were submitted for the Farmlands Topic.

The following organization(s) were expected to but did not submit comments for **North 1** about potential direct effects in the Farmlands category: Natural Resources Conservation Service

Cultural and Tribal - Section 4(f) Potential

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
All alternatives are not located within 500 feet of a Section 4(f) resource.

It is anticipated that the effect on Section 4(f) Potential will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

No ETAT Reviews were submitted for the Section 4(f) Potential Topic.

Cultural and Tribal - Historic and Archaeological Sites

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Historic and Archaeological topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- The FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. Please provide a copy of the CRAS report. Once a preferred alternative is selected, effects to eligible resources will be considered. [Florida Department of State]
- Effects to resources are Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800). [Seminole Tribe of Florida (STOF)]

Summary:
There are three previously recorded historic resource groups within 500 feet of the North 1 Alternative, North 2 Alternative, and South 1 Alternative: FEC Railroad, Site ID: MT01450; Dixie Highway, Site ID: MT01621; and Witham Field Airport, Site ID: MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. The project corridor is within the boundaries of five SHPO surveys.

A Cultural Resources Assessment Survey has been prepared as part of the PD&E Study to evaluate potential impacts on the historic standing structures and the resource groups, along with any impacts on unidentified historic resources/structures. Results of the CRAS have been forwarded to the SHPO. Currently a Case Study is being prepared for the project. Results of the Case Study will be coordinated with the SHPO.

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for all Alternatives.

Next Steps:
Once the Case Study is completed, it will be coordinated with the SHPO and next steps will be determined at that time.

3 **FL Department of State (03/26/2026 10:20:38 AM)**

Historic and Archaeological Sites Degree of Effect:

Moderate

Reviewed By:

Alyssa McManus

Coordination Document:

Technical Studies

Cultural Resource Assessment Survey
Comments:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

This office did not receive FMSF forms for MT0319,MT329, MT330, which were recorded as part of MS#2761. The FEC Railroad, MT01450; Dixie Highway, MT01621; and Witham Field Airport, MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP.

We look forward to reviewing a CRAS for the project once a preferred alternative is chosen.

Comments on Effects to Resources

Once a preferred alternative is selected, effects to eligible resources will be considered.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 **Seminole Tribe of Florida (02/19/2026 03:36:02 PM)**

Historic and Archaeological Sites Degree of Effect:

Moderate

Reviewed By:

Victoria Menchaca

Coordination Document:

Technical Studies

Cultural Resource Assessment Survey
Comments:
Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Comments on Effects to Resources

Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Cultural and Tribal - Recreational and Protected Lands

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Recreational and Protected Lands topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Recreation areas are N/A = Not applicable or no involvement within the project area. [SFWMD]
- The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria: whether the activity will adversely affect the public health, safety or welfare or property of others; whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats; whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling; whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity; whether the activity will be of temporary or permanent nature; whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity. [SFWMD]

Summary:
This project is not located within 500 feet of a Recreation Area.

It is anticipated that the effect on Recreation Areas will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Recreational and Protected Lands Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination

- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
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Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

N/A **FL Department of Environmental Protection (04/03/2026 11:19:29 AM)**

Recreational and Protected Lands Degree of Effect:

N/A / No Involvement

Reviewed By:

Lindsay Weaver

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

N/A **National Park Service (02/19/2026 02:52:41 PM)**

Recreational and Protected Lands Degree of Effect:

N/A / No Involvement

Reviewed By:

PJ Walker

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Wetlands and Surface Waters

Coordinator Summary Degree of Effect: 2 **Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Wetlands and Surface Waters topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Wetlands impacts were reviewed to be minimum/little adverse effect on resources. [SFWMD]
- There are potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts. At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation. [SFWMD]
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2. [SFWMD]
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters. [SFWMD]
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required minimum in accordance with AH I, 10.2.1. [SFWMD]
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8. [SFWMD]
- Identified resources with direct effects include roadside ditches, and canals, and possibly minimal wetland habitat. [USACE]
- Impacts to aquatic resources would require a permit under Section 404 of the Clean Water Act. [USACE]
- Please design the project to avoid and minimize impacts to wetlands as much as is practicable. Please be aware, if the project requires an individual permit, an alternatives analysis done in accordance with both NEPA and the Clean Water Act 404(b)(1) Guidelines will be required. If an individual permit is needed, FDOT will need to demonstrate the proposed alignment is the least environmentally damaging practicable alternative (LEDPA). If there are unavoidable impacts to wetlands, please propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy. [USACE]
- Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified approximately 0.2 acres of palustrine and 2.78 acres of riverine wetlands within the 500-foot project buffer. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. 230.10(d), the EPA assigns a Minimal Degree of Effect to Wetlands and Surface Waters for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. [USEPA]
- 40 C.F.R. 230.10(d) requires appropriate and practicable steps to minimize potential adverse impacts of the discharge on the aquatic ecosystem. Potential actions to minimize adverse effects are set forth in 40 C.F.R. Part 230, subpart H. Compensatory mitigation is required to offset aquatic impacts resulting from any unavoidable impacts consistent with 40 C.F.R. Part 230, Subpart J, including 40 C.F.R. 230.91(c), 40 C.F.R. 230.93(a), and 40 C.F.R. 230.93(b)(1). [USEPA]
- Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH. [NMFS]
- Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of the NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in the project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation. [NMFS]

- Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act. [NMFS]
- Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources. [USFWS]
- Dependent upon the alternative(s) selected, the proposed project is expected to result in moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process. [USFWS]

Summary:
All Alternatives are located within the St. Lucie River Watershed and the boundary of the South Florida Water Management District (SFWMD). Wetland and surface water resources associated each Alternative are described below.

North 1 Alternative
There are wetlands identified within the North 1 Alternative project limits. The National Wetlands Inventory (NWI) ETDM GIS indicates that approximately 2.98 acres of wetlands occur within the 500-foot buffer. Of this total, approximately 2.78 acres are classified as riverine habitat, with the remainder consisting of palustrine wetland features. However, based on aerial and field reviews, it appears this habitat no longer exists.

It is expected that impacts on wetland and surface water habitats will be minimal. However, avoidance and minimization along with mitigation strategies will be evaluated through the PD&E process.

It is anticipated that the effect on Wetlands will be **Minimal** for all Alternatives.

Next Steps:
A Draft NRE has been prepared, as part of the PD&E Study. FDOT will continue to coordinate with the agencies including SFWMD, USACE, USEPA, NMFS, and USFWS throughout the PD&E Study, as applicable, for the wetland evaluation and anticipated permitting needs.

2 South Florida Water Management District (04/03/2026 01:38:12 PM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
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Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

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Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
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whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
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Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

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Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

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Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
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Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

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Recreation areas
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whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

2 US Army Corps of Engineers (04/03/2026 12:03:12 PM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Heather M Mason

Coordination Document:

Permits

Federal 404 permit
Comments:
Impacts to aquatic resources would require a permit under Section 404 of the Clean Water Act.

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

The resources include roadside ditches, and canals, and possibly minimal wetland habitat.

Comments on Effects to Resources

Impact to roadside ditches and canals is typically offset by relocation of the ditches and canals. Impacts to wetlands, if they exist within the project area, are expected to be minimal. The area is heavily urban and built-up. Effects could include loss of urban wildlife habitat and other wetland functions.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Please design the project to avoid and minimize impacts to wetlands as much as is practicable. Please be aware, if the project requires an individual permit, an alternatives analysis done in accordance with both NEPA and the Clean Water Act 404(b)(1) Guidelines will be required. If an individual permit is needed, FDOT will need to demonstrate the the proposed alignment is the least environmentally damaging practicable alternative (LEDPA). If there are unavoidable impacts to wetlands, please propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

The resources include roadside ditches, and canals, and possibly minimal wetland habitat.

Comments on Effects to Resources

Indirect effects may include temporary turbidity within the adjacent waterbodies during construction. If there are impacts to wetlands, there may be secondary impacts to adjacent wetland areas.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Please design the project to avoid and minimize impacts to wetlands as much as practicable. If wetlands are impacted, please evaluate secondary impacts to adjacent remaining wetlands and propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy.

2 US Environmental Protection Agency (04/03/2026 09:37:18 AM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified approximately 0.2 acres of palustrine and 2.78 acres of riverine wetlands within the 500-foot project buffer. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. 230.10(d), the EPA assigns a Minimal Degree of Effect to Wetlands and Surface Waters for the North 1 Alternative.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

40 C.F.R. 230.10(d) requires appropriate and practicable steps to minimize potential adverse impacts of the discharge on the aquatic ecosystem. Potential actions to minimize adverse effects are set forth in 40 C.F.R. Part 230, subpart H. Compensatory mitigation is required to offset aquatic impacts resulting from any unavoidable impacts consistent with 40 C.F.R. Part 230, Subpart J, including 40 C.F.R. 230.91(c), 40 C.F.R. 230.93(a), and 40 C.F.R. 230.93(b)(1).

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

0 National Marine Fisheries Service (03/26/2026 10:51:50 AM)

Wetlands and Surface Waters Degree of Effect:

None

Reviewed By:

Kurtis Gregg

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under

the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

2 US Fish and Wildlife Service (03/13/2026 11:49:19 AM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Amber Rhodes

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources.
Dependent upon the alternative(s) selected, the proposed project is expected to result in minimal to moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process.

Comments on Effects to Resources

Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources.
Dependent upon the alternative(s) selected, the proposed project is expected to result in minimal to moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Water Resources

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Water Resources topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Water quality and quantity impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- Potential adverse impacts to quality and quantity of surface waters. [SFWMD]
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity. A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity. [SFWMD]
- The project is within the St. Lucie River and Estuary BMAP. Stormwater runoff from the road surface may alter adjacent wetlands and surface waters through increased pollutant loading. Increased runoff carrying oils, greases, metals, sediment, and other pollutants from the increased impervious surface will be of concern. Natural resource impacts within and adjacent to the proposed road right-of-way will likely include alteration of the existing surface water hydrology and natural drainage patterns, and reduction in flood attenuation capacity of area creeks, ditches, and sloughs as a result of increased impervious surface within the watershed. [FDEP]
- Every effort should be made to maximize the treatment of stormwater runoff from the proposed road project to prevent ground and surface water contamination. 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. [FDEP]
- Based on the information provided in the FDOT GIS-generated analysis for Water Resources, the St. Lucie River (South Fork) (WBID: 3210) and
- Willoughby Creek (WBID: 3208B) do not attain standards within the 500-foot project buffer. Additionally, the South Fork of the St. Lucie River is impaired by nutrients and Willoughby Creek is impaired for mercury. In the FDOT Environmental Screening Tool (EST), the FDOT acknowledges that the proposed project area is within the 500-foot buffer for the buffer for the Loxahatchee Basin Management Plan. Additionally, the FDOT GIS generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, 40 CFR 122.26, and the areas susceptibility to contamination, the EPA assigns a Moderate Degree of Effect to Water Resources for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. [USEPA]
- A Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit is required for stormwater discharges from any construction activity disturbing one acre or more of land, or less than one acre of land, but that is part of a common plan of development or sale that will ultimately disturb one or more acres of land (40 CFR 122.26). The USACE should contact the Florida Department of Environmental Protection for applicable NPDES permit(s). [USEPA]
- Erosion control and sediment control measures should be implemented in accordance with the State's NPDES construction permit requirements and construction and development effluent limitations at 40 CFR 450.21. [USEPA]

Summary:
The study area is located within the St. Lucie River Watershed. None of the Alternatives are located within the boundaries of a sole source aquifer or an Outstanding Florida Waters (OFW). However, the study area does fall within one Principal Aquifer System of the State of Florida (surficial aquifer system). Further analysis will be required during the PD&E Study to determine if any of the Alternatives would have any negative impact on the aquifer. Additionally, the St. Lucie River is ultimately the receiver of all drainage waters from the project corridors.

There are two master National Pollutant Discharge Elimination System (NPDES) stormwater permits within the 500-foot project buffer: Martin County and the City of Stuart. According to the Florida Department of Health Likely On-Site Septic System GIS data, there are no known or likely septic systems within the 500-foot project buffer. There are two FDEP Waters Not Attaining Standards (WNAS) within the 500-foot project buffer: Willoughby Creek (WBID: 3208B) and St. Lucie River (South fork) (WBID: 3210). Lastly, there is one surface water Basin Management Action Plan (BMAP) within the 500-foot project buffer: St. Lucie - Loxahatchee.

More detailed stormwater treatment and attenuation facilities will be evaluated in the PD&E phase to minimize adverse effects on nearby waterbodies. A Water Quality Impact Evaluation (WQIE) is currently in progress and will comply with the goals of the Clean Water Act (CWA). In addition, a Pond Siting Report is currently being prepared to identify alternatives for stormwater management and treatment. The effects on water quality and means to avoid, minimize and mitigate impacts will be evaluated during the study based on the project specific effects from the Alternatives developed during the study.

It is anticipated that the effect on Water Quality and Quantity will be **Moderate** for all Alternatives.

Next Steps:
A Water Quality Impact Evaluation and Pond Siting Report are currently being prepared as part of the PD&E Study.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Water Resources Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

2 FL Department of Environmental Protection (04/03/2026 11:27:20 AM)

Water Resources Degree of Effect:

Minimal

Reviewed By:

Lindsay Weaver

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

The project is within the St. Lucie River and Estuary BMAP. Stormwater runoff from the road surface may alter adjacent wetlands and surface waters through increased pollutant loading. Increased runoff carrying oils, greases, metals, sediment, and other pollutants from the increased impervious surface will be of concern. Natural resource impacts within and adjacent to the proposed road right-of-way will likely include alteration of the existing surface water hydrology and natural drainage patterns, and reduction in flood attenuation capacity of area creeks, ditches, and sloughs as a result of increased impervious surface within the watershed.

Comments on Effects to Resources

Every effort should be made to maximize the treatment of stormwater runoff from the proposed road project to prevent ground and surface water contamination. 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.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Basin Management Action Plan has been created for the St. Lucie River and Estuary BMAP. Please see https://floridadep.gov/dear/water-quality-restoration/content/basin-management-action-plans-bmaps for additional information.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 US Environmental Protection Agency (04/03/2026 10:52:07 AM)

Water Resources Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT GIS-generated analysis for Water Resources, the St. Lucie River (South Fork) (WBID: 3210) and Willoughby Creek (WBID: 3208B) do not attain standards within the 500-foot project buffer. Additionally, the South Fork of the St. Lucie River is impaired by nutrients and Willoughby Creek is impaired for mercury. In the FDOT Environmental Screening Tool (EST), the FDOT acknowledges that the proposed project area is within the 500-foot buffer for the buffer for the Loxahatchee Basin Management Plan. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, 40 CFR 122.26, and the areas susceptibility to contamination, the EPA assigns a Moderate Degree of Effect to Water Resources for the North 1 Alternative.

Comments on Effects to Resources

A Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit is required for stormwater discharges from any construction activity disturbing one acre or more of land, or less than one acre of land, but that is part of a common plan of development or sale that will ultimately disturb one or more acres of land (40 CFR 122.26). The USACE should contact the Florida Department of Environmental Protection for applicable NPDES permit(s).

Recommended Avoidance, Minimization, and Mitigation Opportunities

Erosion control and sediment control measures should be implemented in accordance with the State's NPDES construction permit requirements and construction and development effluent limitations at 40 CFR 450.21.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Floodplains

Coordinator Summary Degree of Effect: 2 **Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Floodplains topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Floodplains impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- There are potential impacts to existing floodplains. [SFWMD]
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation. A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain. [SFWMD]

Summary:
All three of the build Alternatives are located outside of the 100-year floodplain. However, any potential impacts on the floodplain will be considered and evaluated during the PD&E Study and documented within the Location Hydraulic Report.

It is anticipated that the effect on Floodplains will be **Minimal** for all Alternatives.

Next Steps:
A Location Hydraulics Report in accordance with the FDOT PD&E Manual will be prepared during the PD&E Study. As FDOT is committed to meeting the conditions for issuance of all required state and federal environmental permits, adverse impacts to floodplains will not occur.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Floodplains Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands

- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee

Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.

- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Natural - Protected Species and Habitat

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Protected Species and Habitat topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Primary wildlife issues include potential loss of wildlife habitat from the project construction, and potential water quality degradation because of stormwater runoff from the impervious surface. [FWC]
- The South 1 Alternative has the least potential to impact gopher tortoise habitat and would be preferred. Direct and indirect effects of this project could be moderate, if roadway construction uses Best Management Practices (BMPs), permit special conditions are followed, avoidance and minimization measures are used to decrease impacts to wildlife and habitat along the roadway, and in-water construction protection measures are followed. [FWC]
- FWC recommends the PD&E Study address natural resources by: 1. The NRE should include plant community mapping and wildlife surveys for the occurrence of wildlife species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened should be performed, both along the ROW and within sites proposed for drainage retention areas (DRAs); 2. Based on the survey results, a plan should be developed to address direct, indirect, and cumulative effects of the project on wildlife and habitat resources, including listed species. Avoidance, minimization, and mitigation measures should also be formulated and implemented. DRAs and equipment staging areas should be in previously disturbed sites to avoid habitat destruction or degradation. The plan should address specific habitat needs which are biologically compatible with the recovery of the target species; 3. For impacts to other state-listed species, refer to the permitting guidelines in

the FWC's Species Conservation Measures and Permitting Guidelines. Specifically, the permitting guidelines include methods for avoidance as well as options and state requirements for minimizing and mitigating potential impacts. [FWC]
- Resources within the 500-foot project buffer area that may be impacted by project activities include 277 acres of Priority 1 - 4 aquifer recharge area; 63 acres of P3 natural communities; 67 acres of P4 - P6 Significant Surface Waters; and 67 acres of P4 Surface Water Resource Priorities. Also present within the 500-foot project buffer area are USFWS Consultation Areas for Atlantic Coast plants (74 acres); Piping Plover (193 acres); Crested Caracara (277 acres); Red-cockaded Woodpecker (277 acres); Florida Scrub-Jay (277 acres); Snail Kite (277 acres); Florida Bonneted Bat (277 acres); and West Indian Manatee (193 acres); plus a Wood Stork Core Foraging Area (277 acres). Additional listed plants that could potentially occur within the project footprint are tropical ironwood and Johnson's seagrass. Regarding the Florida black bear's range, occurrences are considered rare within the 100- to 500-foot project buffer. [FDACS]
- There may be habitat fragmentation effects for animals with large home ranges, including Florida black bear. Project activities may result in soil disturbance, which favors the introduction and spread of invasive plant species. [FDACS]
- Use best management practices, including containment booms and silt fencing, to protect significant surface waters from contaminants, erosion, and other construction impacts. Surveys for rare and listed plants should be conducted, and if present, should be protected to the degree possible, or translocated to a suitable alternative site by an organization such as the Florida Native Plant Society. Caution should be exercised around invasive plants so as not to cause further spread; decontaminating equipment and machinery to prevent the spread of invasive, non-native plants is recommended. Revegetating disturbed soil with plants native to the area is advised where feasible. [FDACS]
- Species of concern that have the potential to occur in this area is Florida panther, southeastern beach mouse, Florida bonneted bat, Audubon's crested caracara, eastern black rail, Everglade snail kite, Florida scrub jay, eastern indigo snake, American crocodile, American alligator, monarch butterfly, Beach jacquemontia, four-petal pawpaw, Tiny Polygala (Polygala smallii), and the Florida perforate cladonia. [USFWS]
- Coordination with the Office of Migratory birds will be needed for all projects involving migratory birds and eagles, please contact Ulgonda Kilpatrick in our Migratory Birds Permit Office. [USFWS]
- Florida has 229 species of plants found nowhere else in the world, and most of them are rare and declining. Diverse plant communities are essential for maintaining a healthy environment for fish, wildlife, and people, and improved land conservation and land management can help restore these rare plants. To this end, the Service worked with the Florida Department of Agriculture and Consumer Services, and many universities and non-profits, to establish the Florida Rare Plant Conservation Endowment. The Endowment funds projects that are critical to preventing the extinction of Florida's rare plants. To ensure the survival of Florida's unique and rare plants the Service encourages the applicant to make a voluntary contribution of $5,000 to the Endowment. All contributions are voluntary and tax deductible. [USFWS]

Summary:
For all three build Alternatives, the 500-foot project buffer contains the following US Fish and Wildlife Service Consultation Areas for federally listed species: West Indian manatee, piping clover, red-cockaded woodpecker, Florida scrub-jay, Everglade snail kite, crested caracara, and Florida bonneted bat. However, based on a review of the study area, there does not appear to be suitable habitat for any of these species except the Florida bonneted bat. In addition to the consultation areas, the project lies within a wood stork Core Foraging Area, however, the project does not appear to contain any suitable foraging habitat for the wood stork. According to the Florida Fish and Wildlife Conservation Commission (FWC) GIS data, the study area is within the watershed (South Fork of the St. Lucie River) that contains rare and imperiled fish (mountain mullet). There have been no FWC observations of any listed species within the 500-foot buffer.

It is anticipated that the effect on wildlife and habitat will be **Moderate** for all Alternatives.

Next Steps:
A Draft NRE has been prepared as part of the PD&E Study. As this document is only in draft stage, it has not yet been forwarded to USFWS or FWC for review and concurrence. To date, commitments related to listed species have not yet been established.

3 FL Fish and Wildlife Conservation Commission (04/10/2026 02:45:39 PM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Laura DiGruttolo

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

No additional fish and wildlife resource issues of concern were identified by FWC staff,

Comments on Effects to Resources

Primary wildlife issues associated with this project include potential loss of wildlife habitat from the project construction, and potential water quality degradation because of stormwater runoff from the impervious surface.

Based on the project information provided, FWC staff believe that the South 1 alternative has the least potential to impact gopher tortoise habitat and would be preferred. Direct and indirect effects of this project could be moderate, if roadway construction uses Best Management Practices (BMPs), permit special conditions are followed, avoidance and minimization measures are used to decrease impacts to wildlife and habitat along the roadway, and in-water construction protection measures are followed.

Recommended Avoidance, Minimization, and Mitigation Opportunities

We recommend that the PD&E Study address natural resources by including the following measures for conserving fish and wildlife and habitat resources that may occur within and adjacent to the project area.

1. The Preliminary Environmental Discussion Report referenced FDOT's commitment to prepare a Natural Resources Evaluation. This should include plant community mapping and wildlife surveys for the occurrence of wildlife species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened should be performed, both along the ROW and within sites proposed for drainage retention areas (DRAs). Basic guidance for conducting wildlife surveys may be found in the Florida Wildlife Conservation Guide at http://myfwc.com/conservation/value/fwcg/.

2. Based on the survey results, a plan should be developed to address direct, indirect, and cumulative effects of the project on wildlife and habitat resources, including listed species. Avoidance, minimization, and mitigation measures should also be formulated and implemented. DRAs and equipment staging areas should be in previously disturbed sites to avoid habitat destruction or degradation. The plan should address specific habitat needs which are biologically compatible with the recovery of the target species. For guidance in this effort, please review the Species Conservation Measures and Permitting Guidelines (https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/) if they are available, or the Species Action Plans

(http://myfwc.com/wildlifehabitats/imperiled/species-action-plans/.

3. For impacts to other state-listed species, refer to the permitting guidelines in the FWC's Species Conservation Measures and Permitting Guidelines at https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/. Specifically, the permitting guidelines include methods for avoidance as well as options and state requirements for minimizing and mitigating potential impacts.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 FL Department of Agriculture and Consumer Services (03/26/2026 11:19:35 AM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Mark Kiser

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Resources within the 500-foot project buffer area that may be impacted by project activities include 277 acres of Priority 1 - 4 aquifer recharge area; 63 acres of P3 natural communities; 67 acres of P4 - P6 Significant Surface Waters; and 67 acres of P4 Surface Water Resource Priorities. Also present within the 500-foot project buffer area are USFWS Consultation Areas for Atlantic Coast plants (74 acres); Piping Plover (193 acres); Crested Caracara (277 acres); Red-cockaded Woodpecker (277 acres); Florida Scrub-Jay (277 acres); Snail Kite (277 acres); Florida Bonneted Bat (277 acres); and West Indian Manatee (193 acres); plus a Wood Stork Core Foraging Area (277 acres). Additional listed plants that could potentially occur within the project footprint are tropical ironwood and Johnson's seagrass. Regarding the Florida black bear's range, occurrences are considered rare within the 100- to 500-foot project buffer.

Comments on Effects to Resources

There may be habitat fragmentation effects for animals with large home ranges, including Florida black bear. Project activities may result in soil disturbance, which favors the introduction and spread of invasive plant species.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Use best management practices, including containment booms and silt fencing, to protect significant surface waters from contaminants, erosion, and other construction impacts. Surveys for rare and listed plants should be conducted, and if present, should be protected to the degree possible, or translocated to a suitable alternative site by an organization such as the Florida Native Plant Society. Caution should be exercised around invasive plants so as not to cause further spread; decontaminating equipment and machinery to prevent the spread of invasive, non-native plants is recommended. Revegetating disturbed soil with plants native to the area is advised where feasible.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Habitat for flora and fauna; natural communities/ecosystems; water bodies/water quality

Comments on Effects to Resources

Indirect effects include reduced habitat quality in surrounding private lands from a combination of conversion to other land uses with a higher population density and increased difficulty for remaining private landowners to manage their property as silvicultural, agricultural, or for conservation purposes. This land use conversion could also have negative implications for surface and groundwater quality thus affecting water resources and wetland habitat farther away from the project site. Increased traffic may result in increased mortality for wildlife. Increased traffic noise may have negative impacts for wildlife as well, making it more difficult to find food or reproduce.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Use BMPs to protect water quality, habitat, and wildlife. Properly sited vegetation can help with noise control. The best sound buffers consist of dense, native vegetation that extends down to the ground. A combination of evergreen trees and shrubs can provide year-round soundproofing. The need for structural noise barriers should also be examined.

3 US Fish and Wildlife Service (03/13/2026 11:46:33 AM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Amber Rhodes

Coordination Document:

Technical Studies

Endangered Species Biological Assessment

Comments:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

The Service has reviewed our Geographic Information System (GIS) database for recorded locations of federally 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 federal listed species may occur in or near the project area. Florida panther, southeastern beach mouse, Florida bonneted bat, Audubon's crested caracara, eastern black rail, Everglade snail kite, Florida scrub jay, eastern indigo snake, American crocodile, American alligator, monarch butterfly, Beach jacquemontia, four-petal pawpaw, Tiny Polygala (*Polygala smallii*), and the Florida perforate cladonia.

Comments on Effects to Resources

- Florida panther (*Puma concolor coryi*)- Telemetry and mortality data does not show occurrences of this species within the Action Area.
- Southeastern beach mouse (*Peromyscus polionotus niveiventris*)- The Southeastern beach mouse is the largest beach mouse; it averages 139 millimeters in total length and 52 millimeters in tail length. Historically, the SEBM was found along approximately 360 kilometers (km) of coastline from Volusia County south to Broward County, Florida (Humphrey et al. 1987). By the time the subspecies was listed in 1989, SEBM were only known to occur in the coastal dune habitats of Volusia County south to Indian River County, twenty percent of the historic range. The range is now appears to be restricted to the northern 80 km of coastline in Volusia and Brevard counties within the coastal dune and strand habitats between Ponce Inlet and Canaveral Entrance Channel, twenty-two percent of the historic range. The Action Area does not contain suitable habitat for this species.
- Florida bonneted bat (*Eumposaracara floridanus* (FBB)): This project is located in the geographic range of the endangered Florida bonneted bat. For guidance on FBB surveys, effect determinations, and consultations with the Service, we recommend that the Florida Department of Transportation (FDOT) consult the Service's 2024 FBB Consultation Key.
- Audubon's crested caracara (*Caracara plancusaudubonii*)- This species is known to occur within the Action Area, but is not known to nest within the Action Area. If evidence of nesting is discovered (i.e. observed nest, courtship behavior, carrying nest material or food, etc.) in or within 300 meters of the work area, the Applicant will suspend work and reinitiate consultation with the Service.
- Eastern black rail *(Laterallus jamaicensis ssp. Jamaicensis)*- Black rails require dense vegetative cover that allows movement underneath the canopy. This species can be found in a variety of salt, brackish, and freshwater marsh habitats that can be tidally or non-tidally influenced, and plant structure is considered more important than plant species composition in predicting habitat suitability. Soils are moist to saturated, occasionally dry, and interspersed with, or adjacent to, very shallow water of 1 to 6 centimeters. Suitable habitat for this species does not occur within the project area.
- Everglade snail kite (*Rostrhamus sociabilis plumbeus*)- This project occurs within the known range of the Everglades snail kite. This species is not known to nest within the Action Area, but may occur within the project area. This species would most likely avoid the project area for the duration of construction activities.
- Wood Stork (*Mycteria americana*)- The final rule to delist this species goes into effect March 12, 2026. Consultation for this species is not longer required under section 7 of the Endangered species Act, however, consultation may still be required for this species under the Migratory Bird Treat Act. See the Migratory Birds and Bald Eagle section below.
- Florida Scrub Jay (*Aphelocoma coerulescens*)-This species is known to occur within the Action Area, but is not known to nest within the Action Area.
- Eastern Indigo Snake (*Drymarchon couperi*)- The eastern indigo snake is a large, non-venomous snake with populations occurring in portions of Florida and southeastern Georgia. Historically, the eastern indigo snake occurred throughout Florida and in the coastal plain of Georgia, Alabama and Mississippi. The species prefers upland habitat types (e.g. longleaf pine sandhills, scrub, pine flatwoods, tropical hardwood hammocks, and coastal dunes), but also uses a variety of lowland and human-altered habitats. They may move seasonally between upland and lowland habitats, especially in northern portions of their range. Throughout their range, eastern indigo snakes use below-ground shelter sites for refuge, breeding, feeding and nesting. They depend on gopher tortoise burrows in xeric sandhill habitats throughout the northern portion of the species' range for overwintering shelter sites. Recommend that 2024 standard protection measures for the eastern indigo snake be implemented for this project.
- American Crocodile/Alligator: American crocodile (*Crocodylus acutus*): This project occurs within the range of the crocodile, but outside the range of nesting areas. Historic data shows that crocodiles are unlikely to occur within the Action Area and, as crocodiles are wary, would most likely avoid the project area for the duration of the project.
- Federally Listed Plants/lichen- This project is within the range of federally listed plant species, the Service recommends that a survey be conducted during the appropriate time of year by species and in accordance with the Service's survey guidelines for plants. Survey Calendar for Listed Plant Species. Beach jacquemontia (*Jacquemontia reclinata*), four-petal pawpaw (*Asimina tetramera*), Tiny Polygala (*Polygala smallii*), and a lichen the Florida perforate cladonia (*Cladonia perforata*).
- Monarch Butterflies (*Danaus plexippus*)- The Service proposed to list the monarch butterfly as a threatened species and designate critical habitat under the Endangered Species Act of 1973, as amended (Act) on December 12, 2024 (F.R. Vol. 89, No. 239). Consultation on this species at this time is at the discretion of your agency. If this species is listed prior to the completion of this project, consultation with the Service may need to be reinitiated.

Migratory Birds and Bald Eagle

Coordination with the Office of Migratory birds will be needed for all projects involving migratory birds and eagles, please contact Ulgonda Kilpatrick in our Migratory Birds Permit Office at:
Migratory Birds Permit Office
1875 Century Boulevard, NE
Atlanta, Georgia 30345
352-406-6780 cell (MAIN)

Florida has 229 species of plants found nowhere else in the world, and most of them are rare and declining. Diverse plant communities are essential for maintaining a healthy environment for fish, wildlife, and people, and improved land conservation and land management can help restore these rare plants. To this end, the Service worked with the Florida Department of Agriculture and Consumer Services, and many universities and non-profits, to establish the Florida Rare Plant Conservation Endowment. The Endowment funds projects that are critical to preventing the extinction of Florida's rare plants. To ensure the survival of Florida's unique and rare plants the Service encourages the applicant to make a voluntary contribution of $5,000 to the Endowment. All contributions are voluntary and tax deductible.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities
None Found.

Natural - Coastal and Marine

Coordinator Summary Degree of Effect: 0 **None**

Response By
FDOT District 4 07/08/2026

Comments
The following ETAT member comments were provided for the Coastal and Marine topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Coastal and marine impacts were reviewed as N/A = Not applicable or no involvement. [SFWMD]
- Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH. [NMFS]
- Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of the NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in the project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation. [NMFS]
- Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act. [NMFS]

Summary:
None of the build Alternatives are within a Coastal Barrier Resource Area (CBRA) and no Essential Fish Habitat (EFH) is present within the project corridors.
It is anticipated that the effect on Coastal and Marine will be **None** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Coastal and Marine Degree of Effect:
Minimal

Reviewed By:
Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments
Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat

- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.

- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

0 National Marine Fisheries Service (03/26/2026 10:51:49 AM)

Coastal and Marine Degree of Effect:

None

Reviewed By:

Kurtis Gregg

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Noise

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
Two residential areas are located within the study area for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. A review of the GIS Analysis indicates these consist of some fixed single-family units (2-5 dwelling units per acre) and multiple dwelling units, low rise (two stories or less). There are currently no noise barriers along the project corridor.

North 1 Alternative
There is one homeowner and condominium association (Circle Bay Yacht Club I) within the 500-foot buffer. There is one recreational facility (YMCA of the Treasure Coast) and one assisted living facility (Stuart Senior Living) within the 500-foot buffer. Residential land use within the buffer consists of fixed single-family units, which account for 19.45 percent of the residential area, and multiple dwelling units (low-rise), which account for 2.32 percent.

A Noise Study Report (NSR) is currently being prepared during the PD&E Study to identify unavoidable noise impacts, and an evaluation of abatement measures will occur where appropriate.

It is anticipated that the effect of Noise will be **Moderate** for all Alternatives.

Next Steps:
A Noise Study Report is currently being prepared as part of the PD&E Study.

No ETAT Reviews were submitted for the Noise Topic.

Physical - Air Quality

Coordinator Summary Degree of Effect:	2	Minimal

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Air Quality topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Per section 109 of the Clean Air Act (42 U.S.C. 1857), the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) 40 C.F.R. 50 to protect public health and welfare and to maintain primary and secondary ambient air quality standards for prescribed air pollutants. The proposed project is in Martin County, Florida, an attainment area for all six criteria pollutants (ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, and small particulate matter). Per the April 2023 FDOT and EPA IA, the NAAQS (40 C.F.R. 50) status of attainment for the project area, and the information provided by the FDOT, the EPA assigns a Minimal degree of effect on air quality. [USEPA]
- In attainment areas where air quality meets the NAAQS (42 U.S.C. 1857), roadway expansion projects must ensure that they do not degrade the existing air quality or hinder efforts to maintain these standards. [USEPA]

Summary:
The study area is located within a US Environmental Protection Agency (USEPA) designated Air Quality Attainment Area for all the National Ambient Air Quality Standards under the criteria provided in the Clean Air Act. Therefore, the Clean Air Act conformity requirements do not apply to this project currently.

It is anticipated that the effect on Air Quality will be **Minimal** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **US Environmental Protection Agency (03/31/2026 04:37:17 PM)**

Air Quality Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Per section 109 of the Clean Air Act (42 U.S.C. 1857), the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) 40 C.F.R. 50 to protect public health and welfare and to maintain primary and secondary ambient air quality standards for prescribed air pollutants. The proposed project is in Martin County, Florida, an attainment area for all six criteria pollutants (ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, and small particulate matter). Per the April 2023 FDOT and EPA IA, the NAAQS (40 C.F.R. 50) status of attainment for the project area, and the information provided by the FDOT, the EPA assigns a Minimal degree of effect on air quality.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

In attainment areas where air quality meets the NAAQS (42 U.S.C. 1857), roadway expansion projects must ensure that they do not degrade the existing air quality or hinder efforts to maintain these standards.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Contamination

Coordinator Summary Degree of Effect:	3	Moderate

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Contamination topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Contamination impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- Contamination consists of turbidity in surface waters. [SFWMD]
- The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts. Dewatering permit shall be obtained, if dewatering is required. Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete. [SFWMD]
- GIS data indicates that there are multiple contamination facilities within the 500-ft. project buffer zone. These include eight hazardous waste facilities and eight FDEP storage tank contamination monitoring sites within the 500-ft project buffer. [FDEP]
- Any land clearing or construction debris must be characterized for proper disposal. Potentially hazardous materials must be properly managed in accordance with Chapter 62-730, F.A.C. In addition, any solid wastes or other non-hazardous debris must be managed in accordance with Chapter 62 -701, F.A.C. Petroleum cleanups must be managed in accordance with Chapter 62-770, F.A.C. [FDEP]
- Please be advised that a new rule, 62-780, F.A.C., became effective on April 17, 2005. In addition, Chapters 62-770, 62-777, 62-782 and 62-785, F.A.C., were amended on April 17, 2005, to incorporate recent statutory changes. Depending on the findings of the environmental assessments, there are "off-property" notification responsibilities potentially associated with this project. These rules may be found at the following website: http://www.dep.state.fl.us/waste/ [FDEP]
- Based on our experience, the accurate identification, characterization and cleanup of sites requires experienced consulting personnel and laboratory support, management commitment of the project developers and their representatives, and will likely be very time-consuming. Early planning to address these issues is essential to meet construction and cleanup (if required) timeframes. Innovative technologies, such as special storm water management systems, engineering controls and institutional controls, such as conditions on water production wells and dewatering restrictions, may be required, depending on the results of environmental assessments. [FDEP]
- Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified potential sources of sub-surface contamination within the 500-foot project buffer: 8 hazardous waste facilities, 5 petroleum contamination monitoring sites, 8 storage tank contamination monitoring sites, 4 State Underground Petroleum Environmental Response (SUPER) Act Risk Sites, 23 SUPER Act Wells, and 9 FDEP Environmental Restoration Integrated Cleanup (ERIC) sites. Additionally, The FDOT generated GIS analysis for contamination states that the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. Part 280, Subpart F, the EPA assigns a Moderate degree of effect to contamination due to the area's overall sensitivity and susceptibility to contamination. [USEPA]
- Releases from underground storage tanks (UST) must be remediated pursuant to RCRA Subtitle I, 40 C.F.R. Part 280, Subpart F - Release Response and Corrective Action for UST Systems Containing Petroleum or Hazardous Substances 280.60 General. Mentioned above is the federal regulation but the State of Florida is directly responsible for implementation of the UST program. [USEPA]
- RCRA facilities that treat, store, or dispose of hazardous waste are required to clean-up releases of hazardous constituents to the environment under one of the following statutory authorities: RCRA 3004(u), 3004(v), 3008(a), 3008(h), 3013, or 7003. According to 40 CFR 264.101, facilities must conduct corrective actions for all releases of hazardous constituents from any solid waste management unit or hazardous waste management unit and must implement corrective actions beyond the facility boundary. [USEPA]
- Prior to acquiring ownership or control of a potentially contaminated property, all parties, are encouraged to perform an environmental site assessment, i.e., conduct "all appropriate inquiries" (AAI) under, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601(35)(B)(i)), 40 C.F.R. Part 312, to ensure they make informed decisions regarding the property's environmental conditions. This information can help ensure a new owner's activities do not disturb or exacerbate site contamination. [USEPA]

Summary:
According to the ETDM Contamination GIS layer, there are no solid waste facilities within the 500-foot buffer for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additional contamination resources, including hazardous waste facilities, storage tank contamination monitoring sites, biomedical waste facilities, and brownfield areas associated each Alternative are described below.

North 1 Alternative
There are eight (8) FDEP hazardous waste facilities (EPA ID: FLD056933906, FLD982082216, FLD982143802, FLD982174963, FLR000120675, FLR000154369, FLR000190082, and FLR000234807) and eight (8) FDEP storage tank contamination monitoring sites (Facility ID: 8520085, 8520105, 8626173, 8629919, 8630058, 9602023, 9811879, and 9817168) within the 500-foot buffer. Additionally, there are six (6) FDOH biomedical waste facilities (Permit Number: 43-64-00091, 43-64-00684, 43-64-00995, 43-64-00244, 43-64-1426512, and 43-64-1696459) within the 500-foot buffer. There are no FDEP brownfield areas within the 500-foot buffer.

A Contamination Screening Evaluation Report (CSER) is currently being prepared as part of the PD&E Study to document and update any potential contamination sources within the project vicinity. Avoidance, minimization, and mitigation strategies as well as any necessary special construction provisions will be developed based on this documentation, to avoid impacts, and to ensure human health and safety if avoidance is not possible.

It is anticipated that the effect of Contamination will be **Moderate** for all Alternatives.

Next Steps:
A CSER is currently being prepared as part of the PD&E Study. Regulated facilities identified within search criteria established in the FDOT PD&E Manual will be assessed to determine the need for avoidance, minimization, or remediation prior to construction or during construction.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Contamination Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains

- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete
Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

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whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
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Historic and archaeological sites

- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

3 FL Department of Environmental Protection (04/03/2026 11:19:06 AM)

Contamination Degree of Effect:

Moderate

Reviewed By:

Lindsay Weaver

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

GIS data indicates that there are multiple contamination facilities within the 500-ft. project buffer zone.
These include eight hazardous waste facilities and eight FDEP stogage tank contamination monitoring sites within the 500-ft project buffer.

Comments on Effects to Resources

Any land clearing or construction debris must be characterized for proper disposal. Potentially hazardous materials must be properly managed in accordance with Chapter 62-730, F.A.C. In addition, any solid wastes or other non-hazardous debris must be managed in accordance with Chapter 62-701, F.A.C. Petroleum cleanups must be managed in accordance with Chapter 62-770, F.A.C.

Please be advised that a new rule, 62-780, F.A.C., became effective on April 17, 2005. In addition, Chapters 62-770, 62-777, 62-782 and 62-785, F.A.C., were amended on April 17, 2005, to incorporate recent statutory changes. Depending on the findings of the environmental assessments, there are "off-property" notification responsibilities potentially associated with this project. These rules may be found at the following website: http://www.dep.state.fl.us/waste/

Based on our experience, the accurate identification, characterization and cleanup of sites requires experienced consulting personnel and laboratory support, management commitment of the project developers and their representatives, and will likely be very time-consuming. Early planning to address these issues is essential to meet construction and cleanup (if required) timeframes. Innovative technologies, such as special storm water management systems, engineering controls and institutional controls, such as conditions on water production wells and dewatering restrictions, may be required, depending on the results of environmental assessments.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

No additional comments

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 US Environmental Protection Agency (04/03/2026 10:52:42 AM)

Contamination Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified potential sources of sub-surface contamination within the 500-foot project buffer: 8 hazardous waste facilities, 5 petroleum contamination monitoring sites, 8 storage tank contamination monitoring sites, 4 State Underground Petroleum Environmental Response (SUPER) Act Risk Sites, 23 SUPER Act Wells, and 9 FDEP Environmental Restoration Integrated Cleanup (ERIC) sites. Additionally, The FDOT generated GIS analysis for contamination states that the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. Part 280, Subpart F, the EPA assigns a Moderate degree of effect to contamination due to the area's overall sensitivity and susceptibility to contamination.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

Releases from underground storage tanks (UST) must be remediated pursuant to RCRA Subtitle I, 40 C.F.R. Part 280, Subpart F - Release Response and Corrective Action for UST Systems Containing Petroleum or Hazardous Substances 280.60 General. Mentioned above is the federal

regulation but the State of Florida is directly responsible for implementation of the UST program.
RCRA facilities that treat, store, or dispose of hazardous waste are required to clean-up releases of hazardous constituents to the environment under one of the following statutory authorities: RCRA 3004(u), 3004(v), 3008(a), 3008(h), 3013, or 7003. According to 40 CFR 264.101, facilities must conduct corrective actions for all releases of hazardous constituents from any solid waste management unit or hazardous waste management unit and must implement corrective actions beyond the facility boundary.
Prior to acquiring ownership or control of a potentially contaminated property, all parties, are encouraged to perform an environmental site assessment, i.e., conduct "all appropriate inquiries" (AAI) under, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601(35)(B)(i)), 40 C.F.R. Part 312, to ensure they make informed decisions regarding the property's environmental conditions. This information can help ensure a new owner's activities do not disturb or exacerbate site contamination.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Infrastructure

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
There are several major utilities identified on the ETDM Infrastructure Report within a 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative, as noted below. There are three (3) FDOT railroad crossings (FDOT Crossing Inventory Number: 272353M, 272929N, and 272942C) within the 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additionally, there is one (1) airport runway (Witham Field Runway) located within the 500-foot buffer of all Alternatives. All Alternatives will require coordination with the airport due to the project being located within the runway protection zone of the airport.

There are no USEIA natural gas pipelines or ORNL electric power transmission lines within the 500-foot buffer of all Alternatives.

North 1 Alternative
There are four (4) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313908, 1314516, and 1325501) within the 500-foot buffer.

Further review of utility impacts and any impacts to the airport will be conducted during the PD&E phase of the project. A Utility Assessment Package will be prepared during the PD&E Study.

It is anticipated that the effect on Infrastructure will be **Moderate** for all Alternatives.

Next Steps:
A Utility Assessment Package will be prepared during the PD&E Study. Direct effects to adjacent infrastructure resources and ROW will be minimized to the greatest extent practicable.

No ETAT Reviews were submitted for the Infrastructure Topic.

Physical - Navigation

Coordinator Summary Degree of Effect:	N/A	**N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
There are no navigable waterways in the project area.
It is anticipated that the effect on Navigation will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

N/A **US Army Corps of Engineers (04/03/2026 12:03:43 PM)**

Navigation Degree of Effect:
N/A / No Involvement
Reviewed By:
Heather M Mason
Coordination Document:
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance
None Found.
Comments on Effects to Resources
None Found.
Recommended Avoidance, Minimization, and Mitigation Opportunities
None Found.
Additional Comments (optional)
None Found.

Indirect Effects

Identified Resources and Level of Importance
None Found.
Comments on Effects to Resources
None Found.
Recommended Avoidance, Minimization, and Mitigation Opportunities
None Found.

Special Designations - Special Designations

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By
FDOT District 4 07/08/2026
Comments
The following ETAT member comments were provided for the Special Designations topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Special designations impacts were reviewed as N/A = Not applicable or no involvement. [SFWMD]

Summary:
Outstanding Florida Waters
This project is not located within an Outstanding Florida Water.
It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for all Alternatives.

Aquatic Preserves
This project is not located within an aquatic preserve.
It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for all Alternatives.

Wild and Scenic Rivers
No FDEP wild and scenic rivers are located within the 500-foot buffer of all three Alternatives (North 1 Alternative, North 2 Alternative, and South 1 Alternative). Therefore, there will be no impact on wild and scenic rivers.
It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for all Alternatives.

Sole Source Aquifers
This study area is not located within a Sole Source Aquifer.
It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Special Designations Degree of Effect:
Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Permits

SFWMD Right-of-Way Occupancy Permit
Comments:
ROW likely required.

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.

- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
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whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
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Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

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- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
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Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
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whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
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- Wildlife surveys should be completed.
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Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

N/A **US Environmental Protection Agency (03/31/2026 01:47:48 PM)**

Special Designations Degree of Effect:

N/A / No Involvement

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

The GIS analysis for Special Designations did not identify a Sole Source Aquifer. Therefore, the EPA assigns No Involvement to Special Designations.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

NA

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Cumulative Effects Considerations

Topic	Organization	Review Date
Natural - Protected Species and Habitat	US Fish and Wildlife Service	03/13/2026

Natural - Protected Species and Habitat

No Summary of Cumulative Effects Evaluation Considerations is available for this topic

US Fish and Wildlife Service 03/13/2026

Reviewed By:
Rhodes, Amber (03/13/2026)

No comments recorded

South 1

Name	From	To	Type	Status	Total Length	Cost	Modes	SIS
South 1			Widening	ETAT Review Complete			Roadway	No

Polygon Details

Location and Length

Polygon No.	Name	Beginning Location	Ending Location	Length (mi.)	Roadway Id	BMP	EMP
A-001							

Jurisdiction and Class

Polygon No.	Jurisdiction	Urban Service Area	Functional Class
A-001			

Base Conditions

Polygon No.	Year	AADT	Lanes	Config
A-001				

Interim Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Needs Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Cost Feasible Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Funding Sources

No funding sources found.

Project Effects Overview for South 1

Topic	Degree of Effect		Organization	Date Reviewed
Social and Economic				
Social	2	Minimal	US Environmental Protection Agency	04/03/2026
Cultural and Tribal				
Historic and Archaeological Sites	3	Moderate	FL Department of State	03/26/2026
Historic and Archaeological Sites	3	Moderate	Seminole Tribe of Florida	02/19/2026
Recreational and Protected Lands	2	Minimal	South Florida Water Management District	04/03/2026
Recreational and Protected Lands	N/A	N/A / No Involvement	FL Department of Environmental Protection	04/03/2026
Recreational and Protected Lands	N/A	N/A / No Involvement	National Park Service	02/19/2026
Natural				
Wetlands and Surface Waters	2	Minimal	South Florida Water Management District	04/03/2026
Wetlands and Surface Waters	2	Minimal	US Army Corps of Engineers	04/03/2026
Wetlands and Surface Waters	2	Minimal	US Environmental Protection Agency	04/03/2026
Wetlands and Surface Waters	0	None	National Marine Fisheries Service	03/26/2026
Wetlands and Surface Waters	2	Minimal	US Fish and Wildlife Service	03/13/2026
Water Resources	2	Minimal	South Florida Water Management District	04/03/2026
Water Resources	2	Minimal	FL Department of Environmental Protection	04/03/2026
Water Resources	3	Moderate	US Environmental Protection Agency	04/03/2026

Floodplains	2	Minimal	South Florida Water Management District	04/03/2026
Protected Species and Habitat	3	Moderate	FL Fish and Wildlife Conservation Commission	04/10/2026
Protected Species and Habitat	3	Moderate	FL Department of Agriculture and Consumer Services	03/26/2026
Protected Species and Habitat	3	Moderate	US Fish and Wildlife Service	03/13/2026
Coastal and Marine	2	Minimal	South Florida Water Management District	04/03/2026
Coastal and Marine	0	None	National Marine Fisheries Service	03/26/2026
Physical				
Air Quality	2	Minimal	US Environmental Protection Agency	03/31/2026
Contamination	2	Minimal	South Florida Water Management District	04/03/2026
Contamination	3	Moderate	FL Department of Environmental Protection	04/03/2026
Contamination	3	Moderate	US Environmental Protection Agency	04/03/2026
Navigation	N/A	N/A / No Involvement	US Army Corps of Engineers	04/03/2026
Special Designations				
Special Designations	2	Minimal	South Florida Water Management District	04/03/2026
Special Designations	N/A	N/A / No Involvement	US Environmental Protection Agency	03/31/2026

Project Effects Details for South 1

Social and Economic - Social

Coordinator Summary Degree of Effect: 2 **Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Social topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- The EPA recommends the FDOT provide opportunities for public involvement, as appropriate based on the applicable level of NEPA review. [USEPA]

Summary:
The proposed improvements are not expected to disproportionately affect minority, low-income, or disadvantaged populations, but an analysis of the effects on these populations will be considered during the PD&E Study. The North 1 Alternative and North 2 Alternative are anticipated to result in a greater Degree of Effect on the social environment compared to the South 1 Alternative. These Alternatives would have greater proximity to, and potential impacts on, the established residential neighborhood located north of Monterey Road and east of SE Dixie Highway, including potential effects related to access, noise, visual changes, and temporary construction-related disruptions. The South 1 Alternative is anticipated to have a lower Degree of Effect on residential communities but may result in comparatively greater impacts to nearby commercial properties and businesses.

Overall impacts on the social environment and community cohesion are anticipated to be **Moderate** for North 1 Alternative and North 2 Alternative. While the degree of effect for the South 1 Alternative would be **Minimal.** This is due to the North 1 Alternative and North 2 Alternative traversing through residential neighborhoods, while the South 1 Alternative avoids impacts to residential neighborhoods.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026, therefore input from the public is still being gathered. A project website has been created which includes all the project information. Social effects of the project will be fully analyzed within the Sociocultural Effects Memorandum, which is currently in progress.

2 **US Environmental Protection Agency (04/03/2026 10:54:19 AM)**

Social Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the Environmental Screening Tool (EST), the FDOT highlighted that additional right-of-way, including minimal business relocations, will be needed to accommodate the proposed project. Additionally, the FDOT notes that access to proximate residences and

businesses may be temporarily affected and/or modified as a result of the project.

The NEPA statute requires public engagement in the federal decision-making process for actions that could significantly impact the environment. *See* NEPA 102(2)(c), 107(c). In addition, FHWA mandates public involvement at various levels of the NEPA review process. *See, e.g.*, 23 U.S.C. 139 (f)(1), (f)(4)(A)(i), (g)(4).
Per the April 2023 FDOT and EPA IA, the EPA has assigned a minimal degree of effect on social impacts.

Comments on Effects to Resources

The NEPA statute requires public engagement in the federal decision-making process for actions that could significantly impact the environment. *See* NEPA 102(2)(c), 107(c). In addition, FHWA mandates public involvement at various levels of the NEPA review process. *See, e.g.*, 23 U.S.C. 139 (f)(1), (f)(4)(A)(i), (g)(4). The EPA recommends the FDOT provide opportunities for public input, as appropriate based on the applicable level of NEPA review.

Recommended Avoidance, Minimization, and Mitigation Opportunities

NA

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Social and Economic - Economic

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
All Alternatives are expected to provide long-term economic benefits through enhanced mobility, improved traffic operations, and increased accessibility, which may positively influence local economic activity. A Sociocultural Effects Evaluation will be included in the PD&E Study. During the Project Development phase, FDOT District Four will encourage the public and the communities to engage in public meetings. The meetings will present a clear and transparent detailed analysis for the corridor and study areas for the improvements, impacts, and alternative solutions for the construction of this project.

It is anticipated that the effect to Economic will be **Moderate** for the South 1 Alternative, but **Minimal** for the North 1 Alternative and North 2 Alternative. The South 1 Alternative has slightly higher percentages of households living below the poverty level than households within the North 1 Alternative and North 2 Alternative study areas. Additionally, the South 1 Alternative may have higher impacts on adjacent businesses, further proving the need for the South 1 Alternative to have a **Moderate** degree of effect for Economic.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026. A project website has been created which includes all the project information. Economic effects of the project will be fully analyzed within the Sociocultural Effects Memorandum, which is currently in progress.

No ETAT Reviews were submitted for the Economic Topic.

The following organization(s) were expected to but did not submit comments for **South 1** about potential direct effects in the Economic category:
FL Department of Economic Opportunity

Social and Economic - Land Use Changes

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
The proposed improvements are consistent with the Martin County 2045 Long Range Transportation Plan and 2045 Cost Feasible Plan (CFP). Overall, the proposed project is expected to have some land use impacts along the project limits due to improving the FEC Railroad crossing. All three Alternatives are likely to include land use impacts. Although, due to the study area already largely developed, there should be no impacts to the future land use of the surrounding area.

It is anticipated that the effect on Land Use will be **Moderate** for all Alternatives.

Next Steps:
Land Use impacts for each alternative will be documented within the Sociocultural Effects, which is currently in progress.

No ETAT Reviews were submitted for the Land Use Changes Topic.

The following organization(s) were expected to but did not submit comments for **South 1** about potential direct effects in the Land Use Changes category: FL Department of Economic Opportunity

Social and Economic - Mobility

Coordinator Summary Degree of Effect:	1	**Enhanced**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
Currently, there is one bus route (Route 2- Stuart Route) that utilizes Monterey Road. Additionally, 10 school buses per school day utilize the Monterey Road/FEC Railroad crossing. There are several community facilities within the 1/4-mile buffer study area surrounding all three Alternatives: YMCA of the Treasure Coast, Stuart Rehabilitation and Healthcare, Stuart Senior Living, City of Stuart Fire Station No. 2, and the Martin County District Office. Lastly, there are no existing trails within the study area, however, the East Coast Greenway has been partially funded and may traverse through the study area at some point in the future. Multi-modal transportation will be considered on Monterey Road to serve and connect the transit-supportive land uses. Sidewalks currently exist on part of the roadway and will remain or be improved as part of the intersection improvements. Bike lanes may also be considered for this project.
It is anticipated that the effect on Mobility will be **Enhanced** by any of the Alternatives.

Next Steps:
Impacts on Mobility for each alternative will be documented within the Sociocultural Effects, which is currently in progress.

No ETAT Reviews were submitted for the Mobility Topic.

Social and Economic - Aesthetic Effects

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
While the proposed Alternatives are located primarily along existing transportation corridors, all Alternatives include a new potential elevated bridge/intersection configuration and new roadway segments adjacent to residential areas. These features would introduce new vertical elements, roadway structures, and changes in roadway alignment that could alter the existing visual environment, particularly for nearby residences. As a result, the project has the potential to create noticeable changes to the existing viewshed in localized areas.
It is anticipated that the Aesthetic Effects will be **Moderate** for all Alternatives.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026. A project website has been created which includes all the project information. Input regarding Aesthetics is still being obtained from the public and will continue to be obtained throughout the duration of the PD&E Study.

No ETAT Reviews were submitted for the Aesthetic Effects Topic.

Social and Economic - Relocation Potential

Coordinator Summary Degree of Effect:	4	Substantial

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:

South 1 Alternative
According to the WMD Residential Areas (FLUCCS Level 3) data, residential areas cover approximately 10.35 acres within the 500-foot project buffer. Residential and business relocations are likely with this Alternative. As indicated above, the South 1 Alternative may require 0 residential relocations and 2 business relocations, along with impacting 16 total parcels.

Some ROW may be required for the proposed project. During the PD&E Study, a Conceptual Stage Relocation Plan will be prepared for any relocations required.

It is anticipated that the effect on Relocation Potential will be **Substantial** for all three Alternatives.

Next Steps:
ROW and relocation information will be determined for each alternative. Additionally, a Conceptual Stage Relocation Plan will be developed.

No ETAT Reviews were submitted for the Relocation Potential Topic.

Social and Economic - Farmlands

Coordinator Summary Degree of Effect:	2	Minimal

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:

South 1 Alternative
A review of the GIS Analysis on ETDM identified 156.20 acres of Prime Farmland with a classification of Farmland of Unique Importance within the 500-foot buffer for the South 1 Alternative.

There are no Generalized Agricultural land uses within the 500-foot buffer though. Additionally, based on an aerial view of the study area, a majority of the study area is developed and therefore is not currently utilized for farming or other agricultural purposes.

Due to the developed nature of the study area, it is anticipated that the effect on Farmlands will be **Minimal** for all Alternatives.

Next Steps:
During the PD&E Study, the proposed project impacts on farmlands will be evaluated further. Coordination with the Natural Resources Conservation Service (NRCS), including preparation of a Farmland Conversion Impact Rating Form, will occur, if necessary.

No ETAT Reviews were submitted for the Farmlands Topic.

The following organization(s) were expected to but did not submit comments for **South 1** about potential direct effects in the Farmlands category:
Natural Resources Conservation Service

Cultural and Tribal - Section 4(f) Potential

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
All alternatives are not located within 500 feet of a Section 4(f) resource.

It is anticipated that the effect on Section 4(f) Potential will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

No ETAT Reviews were submitted for the Section 4(f) Potential Topic.

Cultural and Tribal - Historic and Archaeological Sites

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Historic and Archaeological topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- The FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. Please provide a copy of the CRAS report. Once a preferred alternative is selected, effects to eligible resources will be considered. [Florida Department of State]
- Effects to resources are Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800). [Seminole Tribe of Florida (STOF)]

Summary:
There are three previously recorded historic resource groups within 500 feet of the North 1 Alternative, North 2 Alternative, and South 1 Alternative: FEC Railroad, Site ID: MT01450; Dixie Highway, Site ID: MT01621; and Witham Field Airport, Site ID: MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. The project corridor is within the boundaries of five SHPO surveys.

A Cultural Resources Assessment Survey has been prepared as part of the PD&E Study to evaluate potential impacts on the historic standing structures and the resource groups, along with any impacts on unidentified historic resources/structures. Results of the CRAS have been forwarded to the SHPO. Currently a Case Study is being prepared for the project. Results of the Case Study will be coordinated with the SHPO.

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for all Alternatives.

Next Steps:
Once the Case Study is completed, it will be coordinated with the SHPO and next steps will be determined at that time.

3 **FL Department of State (03/26/2026 10:22:30 AM)**

Historic and Archaeological Sites Degree of Effect:

Moderate

Reviewed By:

Alyssa McManus

Coordination Document:

Technical Studies

Cultural Resource Assessment Survey
Comments:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

This office did not receive FMSF forms for MT0319,MT329, MT330, which were recorded as part of MS#2761. The FEC Railroad, MT01450; Dixie Highway, MT01621; and Witham Field Airport, MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP.

We look forward to reviewing a CRAS for the project once a preferred alternative is chosen.

Comments on Effects to Resources

Once resources are identified, effects can be discussed.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 **Seminole Tribe of Florida (02/19/2026 03:37:01 PM)**

Historic and Archaeological Sites Degree of Effect:

Moderate

Reviewed By:

Victoria Menchaca

Coordination Document:

Technical Studies

Cultural Resource Assessment Survey
Comments:
Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Comments on Effects to Resources

Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Cultural and Tribal - Recreational and Protected Lands

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Recreational and Protected Lands topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Recreation areas are N/A = Not applicable or no involvement within the project area. [SFWMD]
- The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria: whether the activity will adversely affect the public health, safety or welfare or property of others; whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats; whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling; whether the activity will adversely

affect the fishing or recreational values or marine productivity in the vicinity of the activity; whether the activity will be of temporary or permanent nature; whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity. [SFWMD]

Summary:
This project is not located within 500 feet of a Recreation Area.

It is anticipated that the effect on Recreation Areas will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Recreational and Protected Lands Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in

accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

N/A **FL Department of Environmental Protection (04/03/2026 11:33:34 AM)**

Recreational and Protected Lands Degree of Effect:
N/A / No Involvement
Reviewed By:
Lindsay Weaver
Coordination Document:
No Involvement

Direct Effects
Identified Resources and Level of Importance
None Found.
Comments on Effects to Resources
None Found.
Recommended Avoidance, Minimization, and Mitigation Opportunities
None Found.
Additional Comments (optional)
None Found.

Indirect Effects
Identified Resources and Level of Importance
None Found.
Comments on Effects to Resources
None Found.
Recommended Avoidance, Minimization, and Mitigation Opportunities
None Found.

N/A **National Park Service (02/19/2026 02:52:42 PM)**

Recreational and Protected Lands Degree of Effect:
N/A / No Involvement
Reviewed By:
PJ Walker
Coordination Document:
No Involvement

Direct Effects
Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Wetlands and Surface Waters

Coordinator Summary Degree of Effect:	2	**Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Wetlands and Surface Waters topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Wetlands impacts were reviewed to be minimum/little adverse effect on resources. [SFWMD]
- There are potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts. At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation. [SFWMD]
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2. [SFWMD]
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters. [SFWMD]
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required minimum in accordance with AH I, 10.2.1. [SFWMD]
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8. [SFWMD]
- Identified resources with direct effects include roadside ditches, and canals, and possibly minimal wetland habitat. [USACE]
- Impacts to aquatic resources would require a permit under Section 404 of the Clean Water Act. [USACE]
- Please design the project to avoid and minimize impacts to wetlands as much as is practicable. Please be aware, if the project requires an individual permit, an alternatives analysis done in accordance with both NEPA and the Clean Water Act 404(b)(1) Guidelines will be required. If an individual permit is needed, FDOT will need to demonstrate the proposed alignment is the least environmentally damaging practicable alternative (LEDPA). If there are unavoidable impacts to wetlands, please propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy. [USACE]
- Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified approximately 0.2 acres of palustrine and 2.78 acres of riverine wetlands within the 500-foot project buffer. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. 230.10(d), the EPA assigns a Minimal Degree of Effect to Wetlands and Surface Waters for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. [USEPA]
- 40 C.F.R. 230.10(d) requires appropriate and practicable steps to minimize potential adverse impacts of the discharge on the aquatic ecosystem. Potential actions to minimize adverse effects are set forth in 40 C.F.R. Part 230, subpart H. Compensatory mitigation is required to offset aquatic
- impacts resulting from any unavoidable impacts consistent with 40 C.F.R. Part 230, Subpart J, including 40 C.F.R. 230.91(c), 40 C.F.R. 230.93(a), and 40 C.F.R. 230.93(b)(1). [USEPA]
- Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH. [NMFS]
- Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of the NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in the project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation. [NMFS]
- Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act. [NMFS]
- Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources. [USFWS]
- Dependent upon the alternative(s) selected, the proposed project is expected to result in moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process. [USFWS]

Summary:
All Alternatives are located within the St. Lucie River Watershed and the boundary of the South Florida Water Management District (SFWMD). Wetland and surface water resources associated each Alternative are described below.

South 1 Alternative
There are wetlands identified within the South 1 Alternative project limits. The National Wetlands Inventory (NWI) ETDM GIS indicates that approximately 3.76 acres of wetlands occur within the 500-foot buffer. Of this total, approximately 2.63 acres are classified as riverine habitat, with the remaining wetlands consisting of palustrine systems, including freshwater ponds. However, based on aerial and field reviews, it appears this habitat no longer exists.

It is expected that impacts on wetland and surface water habitats will be minimal. However, avoidance and minimization along with mitigation strategies will be evaluated through the PD&E process.

It is anticipated that the effect on Wetlands will be **Minimal** for all Alternatives.

Next Steps:
A Draft NRE has been prepared, as part of the PD&E Study. FDOT will continue to coordinate with the agencies including SFWMD, USACE, USEPA, NMFS, and USFWS throughout the PD&E Study, as applicable, for the wetland evaluation and anticipated permitting needs.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to

the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

2 US Army Corps of Engineers (04/03/2026 12:05:48 PM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Heather M Mason

Coordination Document:

Permits

Federal 404 permit
Comments:
Impacts to aquatic resources would require a permit under Section 404 of the Clean Water Act.

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

The resources include roadside ditches, and canals, and possibly minimal wetland habitat.

Comments on Effects to Resources

Impact to roadside ditches and canals is typically offset by relocation of the ditches and canals. Impacts to wetlands, if they exist within the project area, are expected to be minimal. The area is heavily urban and built-up. Effects could include loss of urban wildlife habitat and other wetland functions.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Please design the project to avoid and minimize impacts to wetlands as much as is practicable. Please be aware, if the project requires an individual permit, an alternatives analysis done in accordance with both NEPA and the Clean Water Act 404(b)(1) Guidelines will be required. If an individual permit is needed, FDOT will need to demonstrate the the proposed alignment is the least environmentally damaging practicable alternative (LEDPA). If there are unavoidable impacts to wetlands, please propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

The resources include roadside ditches, and canals, and possibly minimal wetland habitat.

Comments on Effects to Resources

Indirect effects may include temporary turbidity within the adjacent waterbodies during construction. If there are impacts to wetlands, there may be secondary impacts to adjacent wetland areas.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Please design the project to avoid and minimize impacts to wetlands as much as practicable. If wetlands are impacted, please evaluate secondary impacts to adjacent remaining wetlands and propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy.

2 US Environmental Protection Agency (04/03/2026 10:22:08 AM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified approximately 1.13 acres of palustrine and 2.63 acres of riverine wetlands within the 500-foot project buffer. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 266.87 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. 230.10(d), the EPA assigns a Minimal Degree of Effect to Wetlands and Surface Waters for the South 1 Alternative.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

40 C.F.R. 230.10(d) requires appropriate and practicable steps to minimize potential adverse impacts of the discharge on the aquatic ecosystem. Potential actions to minimize adverse effects are set forth in 40 C.F.R. Part 230, subpart H. Compensatory mitigation is required to offset aquatic impacts resulting from any unavoidable impacts consistent with 40 C.F.R. Part 230, Subpart J, including 40 C.F.R. 230.91(c), 40 C.F.R. 230.93(a), and 40 C.F.R. 230.93(b)(1).

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

0 National Marine Fisheries Service (03/26/2026 10:51:50 AM)

Wetlands and Surface Waters Degree of Effect:

None

Reviewed By:

Kurtis Gregg

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

2 **US Fish and Wildlife Service (03/13/2026 11:49:37 AM)**

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Amber Rhodes

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources.
Dependent upon the alternative(s) selected, the proposed project is expected to result in minimal to moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process.

Comments on Effects to Resources

Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources.
Dependent upon the alternative(s) selected, the proposed project is expected to result in minimal to moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Water Resources

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Water Resources topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Water quality and quantity impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- Potential adverse impacts to quality and quantity of surface waters. [SFWMD]
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity. A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity. [SFWMD]
- The project is within the St. Lucie River and Estuary BMAP. Stormwater runoff from the road surface may alter adjacent wetlands and surface waters through increased pollutant loading. Increased runoff carrying oils, greases, metals, sediment, and other pollutants from the increased impervious surface will be of concern. Natural resource impacts within and adjacent to the proposed road right-of-way will likely include alteration of the existing surface water hydrology and natural drainage patterns, and reduction in flood attenuation capacity of area creeks, ditches, and sloughs as a result of increased impervious surface within the watershed. [FDEP]
- Every effort should be made to maximize the treatment of stormwater runoff from the proposed road project to prevent ground and surface water contamination. 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. [FDEP]
- Based on the information provided in the FDOT GIS-generated analysis for Water Resources, the St. Lucie River (South Fork) (WBID: 3210) and
- Willoughby Creek (WBID: 3208B) do not attain standards within the 500-foot project buffer. Additionally, the South Fork of the St. Lucie River is impaired by nutrients and Willoughby Creek is impaired for mercury. In the FDOT Environmental Screening Tool (EST), the FDOT acknowledges that the proposed project area is within the 500-foot buffer for the buffer for the Loxahatchee Basin Management Plan. Additionally, the FDOT GIS generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, 40 CFR 122.26, and the areas susceptibility to contamination, the EPA assigns a Moderate Degree of Effect to Water Resources for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. [USEPA]
- A Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit is required for stormwater discharges from any construction activity disturbing one acre or more of land, or less than one acre of land, but that is part of a common plan of development or sale that will ultimately disturb one or more acres of land (40 CFR 122.26). The USACE should contact the Florida Department of Environmental Protection for applicable NPDES permit(s). [USEPA]
- Erosion control and sediment control measures should be implemented in accordance with the State's NPDES construction permit requirements and construction and development effluent limitations at 40 CFR 450.21. [USEPA]

Summary:
The study area is located within the St. Lucie River Watershed. None of the Alternatives are located within the boundaries of a sole source aquifer or an Outstanding Florida Waters (OFW). However, the study area does fall within one Principal Aquifer System of the State of Florida (surficial aquifer system). Further analysis will be required during the PD&E Study to determine if any of the Alternatives would have any negative impact on the aquifer. Additionally, the St. Lucie River is ultimately the receiver of all drainage waters from the project corridors.

There are two master National Pollutant Discharge Elimination System (NPDES) stormwater permits within the 500-foot project buffer: Martin County and the City of Stuart. According to the Florida Department of Health Likely On-Site Septic System GIS data, there are no known or likely septic systems within the 500-foot project buffer. There are two FDEP Waters Not Attaining Standards (WNAS) within the 500-foot project buffer: Willoughby Creek (WBID: 3208B) and St. Lucie River (South fork) (WBID: 3210). Lastly, there is one surface water Basin Management Action Plan (BMAP) within the 500-foot project buffer: St. Lucie - Loxahatchee.

More detailed stormwater treatment and attenuation facilities will be evaluated in the PD&E phase to minimize adverse effects on nearby waterbodies. A Water Quality Impact Evaluation (WQIE) is currently in progress and will comply with the goals of the Clean Water Act (CWA). In addition, a Pond Siting Report is currently being prepared to identify alternatives for stormwater management and treatment. The effects on water quality and means to avoid, minimize and mitigate impacts will be evaluated during the study based on the project specific effects from the Alternatives developed during the study.

It is anticipated that the effect on Water Quality and Quantity will be **Moderate** for all Alternatives.

Next Steps:
A Water Quality Impact Evaluation and Pond Siting Report are currently being prepared as part of the PD&E Study.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Water Resources Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas

The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and
the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

2 **FL Department of Environmental Protection (04/03/2026 11:34:35 AM)**

Water Resources Degree of Effect:

Minimal

Reviewed By:

Lindsay Weaver

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

The project is within the St. Lucie River and Estuary BMAP. Stormwater runoff from the road surface may alter adjacent wetlands and surface waters through increased pollutant loading. Increased runoff carrying oils, greases, metals, sediment, and other pollutants from the increased impervious surface will be of concern. Natural resource impacts within and adjacent to the proposed road right-of-way will likely include alteration of the existing surface water hydrology and natural drainage patterns, and reduction in flood attenuation capacity of area creeks, ditches, and sloughs as a result of increased impervious surface within the watershed.

Comments on Effects to Resources

Every effort should be made to maximize the treatment of stormwater runoff from the proposed road project to prevent ground and surface water contamination. 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.

Basin Management Action Plan has been created for the St. Lucie River and Estuary BMAP. Please see https://floridadep.gov/dear/water-quality-restoration/content/basin-management-action-plans-bmaps for additional information.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 US Environmental Protection Agency (04/03/2026 10:21:07 AM)

Water Resources Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT GIS-generated analysis for Water Resources, the St. Lucie River (South Fork) (WBID: 3210) and Willoughby Creek (WBID: 3208B) do not attain standards within the 500-foot project buffer. Additionally, the South Fork of the St. Lucie River is impaired by nutrients and Willoughby Creek is impaired for mercury. In the FDOT Environmental Screening Tool (EST), the FDOT acknowledges that the proposed project area is within the 500-foot buffer for the buffer for the Loxahatchee Basin Management Plan. Additionally, the FDOT GIS-generated analysis identified that the 500-foot project buffer is the has a vulnerable rating from the Floridian Aquifer Contamination Potential (FAVA) for 266.87 acres (100% of the project area).
Per the April 2023 FDOT and EPA IA, 40 CFR 122.26, and the areas susceptibility to contamination, the EPA assigns a Moderate Degree of Effect to Water Resources for the South 1 Alternative.

Comments on Effects to Resources

A Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit is required for stormwater discharges from any construction activity disturbing one acre or more of land, or less than one acre of land, but that is part of a common plan of development or sale that will ultimately disturb one or more acres of land (40 CFR 122.26). The USACE should contact the Florida Department of Environmental Protection for applicable NPDES permit(s).

Recommended Avoidance, Minimization, and Mitigation Opportunities

Erosion control and sediment control measures should be implemented in accordance with the State's NPDES construction permit requirements and construction and development effluent limitations at 40 CFR 450.21.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Floodplains

Coordinator Summary Degree of Effect: 2 **Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Floodplains topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Floodplains impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- There are potential impacts to existing floodplains. [SFWMD]
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation. A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain. [SFWMD]

Summary:
All three of the build Alternatives are located outside of the 100-year floodplain. However, any potential impacts on the floodplain will be considered and evaluated during the PD&E Study and documented within the Location Hydraulic Report.

It is anticipated that the effect on Floodplains will be **Minimal** for all Alternatives.

Next Steps:
A Location Hydraulics Report in accordance with the FDOT PD&E Manual will be prepared during the PD&E Study. As FDOT is committed to meeting the conditions for issuance of all required state and federal environmental permits, adverse impacts to floodplains will not occur.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Floodplains Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
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Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
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Historic and archaeological sites

- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.

- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Natural - Protected Species and Habitat

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Protected Species and Habitat topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Primary wildlife issues include potential loss of wildlife habitat from the project construction, and potential water quality degradation because of stormwater runoff from the impervious surface. [FWC]
- The South 1 Alternative has the least potential to impact gopher tortoise habitat and would be preferred. Direct and indirect effects of this project could be moderate, if roadway construction uses Best Management Practices (BMPs), permit special conditions are followed, avoidance and minimization measures are used to decrease impacts to wildlife and habitat along the roadway, and in-water construction protection measures are followed. [FWC]
- FWC recommends the PD&E Study address natural resources by: 1. The NRE should include plant community mapping and wildlife surveys for the occurrence of wildlife species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened should be performed, both along the ROW and within sites proposed for drainage retention areas (DRAs); 2. Based on the survey results, a plan should be developed to address direct, indirect, and cumulative effects of the project on wildlife and habitat resources, including listed species. Avoidance, minimization, and mitigation measures should also be formulated and implemented. DRAs and equipment staging areas should be in previously disturbed sites to avoid habitat destruction or degradation. The plan should address specific habitat needs which are biologically compatible with the recovery of the target species; 3. For impacts to other state-listed species, refer to the permitting guidelines in the FWC's Species Conservation Measures and Permitting Guidelines. Specifically, the permitting guidelines include methods for avoidance as well as options and state requirements for minimizing and mitigating potential impacts. [FWC]
- Resources within the 500-foot project buffer area that may be impacted by project activities include 277 acres of Priority 1 - 4 aquifer recharge area; 63 acres of P3 natural communities; 67 acres of P4 - P6 Significant Surface Waters; and 67 acres of P4 Surface Water Resource Priorities. Also present within the 500-foot project buffer area are USFWS Consultation Areas for Atlantic Coast plants (74 acres); Piping Plover (193 acres); Crested Caracara (277 acres); Red-cockaded Woodpecker (277 acres); Florida Scrub-Jay (277 acres); Snail Kite (277 acres); Florida Bonneted Bat (277 acres); and West Indian Manatee (193 acres); plus a Wood Stork Core Foraging Area (277 acres). Additional listed plants that could potentially occur within the project footprint are tropical ironwood and Johnson's seagrass. Regarding the Florida black bear's range, occurrences are considered rare within the 100- to 500-foot project buffer. [FDACS]

- There may be habitat fragmentation effects for animals with large home ranges, including Florida black bear. Project activities may result in soil disturbance, which favors the introduction and spread of invasive plant species. [FDACS]
- Use best management practices, including containment booms and silt fencing, to protect significant surface waters from contaminants, erosion, and other construction impacts. Surveys for rare and listed plants should be conducted, and if present, should be protected to the degree possible, or translocated to a suitable alternative site by an organization such as the Florida Native Plant Society. Caution should be exercised around invasive plants so as not to cause further spread; decontaminating equipment and machinery to prevent the spread of invasive, non-native plants is recommended. Revegetating disturbed soil with plants native to the area is advised where feasible. [FDACS]
- Species of concern that have the potential to occur in this area is Florida panther, southeastern beach mouse, Florida bonneted bat, Audubon's crested caracara, eastern black rail, Everglade snail kite, Florida scrub jay, eastern indigo snake, American crocodile, American alligator, monarch butterfly, Beach jacquemontia, four-petal pawpaw, Tiny Polygala (Polygala smallii), and the Florida perforate cladonia. [USFWS]
- Coordination with the Office of Migratory birds will be needed for all projects involving migratory birds and eagles, please contact Ulgonda Kilpatrick in our Migratory Birds Permit Office. [USFWS]
- Florida has 229 species of plants found nowhere else in the world, and most of them are rare and declining. Diverse plant communities are essential for maintaining a healthy environment for fish, wildlife, and people, and improved land conservation and land management can help restore these rare plants. To this end, the Service worked with the Florida Department of Agriculture and Consumer Services, and many universities and non-profits, to establish the Florida Rare Plant Conservation Endowment. The Endowment funds projects that are critical to preventing the extinction of Florida's rare plants. To ensure the survival of Florida's unique and rare plants the Service encourages the applicant to make a voluntary contribution of $5,000 to the Endowment. All contributions are voluntary and tax deductible. [USFWS]

Summary:
For all three build Alternatives, the 500-foot project buffer contains the following US Fish and Wildlife Service Consultation Areas for federally listed species: West Indian manatee, piping clover, red-cockaded woodpecker, Florida scrub-jay, Everglade snail kite, crested caracara, and Florida bonneted bat. However, based on a review of the study area, there does not appear to be suitable habitat for any of these species except the Florida bonneted bat. In addition to the consultation areas, the project lies within a wood stork Core Foraging Area, however, the project does not appear to contain any suitable foraging habitat for the wood stork. According to the Florida Fish and Wildlife Conservation Commission (FWC) GIS data, the study area is within the watershed (South Fork of the St. Lucie River) that contains rare and imperiled fish (mountain mullet). There have been no FWC observations of any listed species within the 500-foot buffer.

It is anticipated that the effect on wildlife and habitat will be **Moderate** for all Alternatives.

Next Steps:
A Draft NRE has been prepared as part of the PD&E Study. As this document is only in draft stage, it has not yet been forwarded to USFWS or FWC for review and concurrence. To date, commitments related to listed species have not yet been established.

3 FL Fish and Wildlife Conservation Commission (04/10/2026 02:55:43 PM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Laura DiGruttolo

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

No additional fish and wildlife resource issues of concern were identified by FWC staff.

Comments on Effects to Resources

Primary wildlife issues associated with this project include potential loss of wildlife habitat from the project construction, and potential water quality degradation because of stormwater runoff from the impervious surface.
Based on the project information provided, FWC staff believe that the South 1 alternative has the least potential to impact gopher tortoise habitat and would be preferred. Direct and indirect effects of this project could be moderate, if roadway construction uses Best Management Practices (BMPs), permit special conditions are followed, avoidance and minimization measures are used to decrease impacts to wildlife and habitat along the roadway, and in-water construction protection measures are followed.

Recommended Avoidance, Minimization, and Mitigation Opportunities

We recommend that the PD&E Study address natural resources by including the following measures for conserving fish and wildlife and habitat resources that may occur within and adjacent to the project area.
1. The Preliminary Environmental Discussion Report referenced FDOT's commitment to prepare a Natural Resources Evaluation (NRE). This should include plant community mapping and wildlife surveys for the occurrence of wildlife species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened should be performed, both along the ROW and within sites proposed for drainage retention areas (DRAs). Basic guidance for conducting wildlife surveys may be found in the Florida Wildlife Conservation Guide at http://myfwc.com/conservation/value/fwcg/.
2. Based on the survey results, a plan should be developed to address direct, indirect, and cumulative effects of the project on wildlife and habitat resources, including listed species. Avoidance, minimization, and mitigation measures should also be formulated and implemented. DRAs and equipment staging areas should be in previously disturbed sites to avoid habitat destruction or degradation. The plan should address specific habitat needs which are biologically compatible with the recovery of the target species. For guidance in this effort, please review the Species Conservation Measures and Permitting Guidelines (https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/) if they are available, or the Species Action Plans (http://myfwc.com/wildlifehabitats/imperiled/species-action-plans/.
3. For impacts to other state-listed species, refer to the permitting guidelines in the FWC's Species Conservation Measures and Permitting Guidelines at https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/
Specifically, the permitting guidelines include methods for avoidance as well as options and state requirements for minimizing and mitigating potential impacts.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 FL Department of Agriculture and Consumer Services (03/26/2026 11:27:50 AM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Mark Kiser

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Resources within the 500-foot project buffer area that may be impacted by project activities include 265 acres of Priority 1 - 4 aquifer recharge area; 25 acres of P3 natural communities; 31 acres of P4 - P6 Significant Surface Waters; and 31 acres of P4 - P5 Surface Water Resource Priorities. Also present within the 500-foot project buffer area are USFWS Consultation Areas for Atlantic Coast plants (13 acres); Piping Plover (138 acres); Crested Caracara (265 acres); Red-cockaded Woodpecker (266 acres); Florida Grasshopper Sparrow (30 acres); Florida Scrub-Jay (266 acres); Snail Kite (266 acres); Florida Bonneted Bat (266 acres); and West Indian Manatee (118 acres); plus a Wood Stork Core Foraging Area (266 acres). Additional listed plants that could potentially occur within the project footprint are tropical ironwood and Johnson's seagrass. Regarding the Florida black bear's range, occurrences are considered rare within the 100- to 500-foot project buffer.

Comments on Effects to Resources

There may be habitat fragmentation effects for animals with large home ranges, including Florida black bear. Project activities may result in soil disturbance, which favors the introduction and spread of invasive plant species.

The South 1 alternative appears to have fewer impacts to protected species and habitats, so is the preferred alternative amongst the 3 choices. North 1 would be the 2nd preferred alternative, and North 2 the least preferred.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Use best management practices, including containment booms and silt fencing, to protect significant surface waters from contaminants, erosion, and other construction impacts. Surveys for rare and listed plants should be conducted, and if present, should be protected to the degree possible, or translocated to a suitable alternative site by an organization such as the Florida Native Plant Society. Caution should be exercised around invasive plants so as not to cause further spread; decontaminating equipment and machinery to prevent the spread of invasive, non-native plants is recommended. Revegetating disturbed soil with plants native to the area is advised where feasible.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Habitat for flora and fauna; natural communities/ecosystems; water bodies/water quality

Comments on Effects to Resources

Indirect effects include reduced habitat quality in surrounding private lands from a combination of conversion to other land uses with a higher population density and increased difficulty for remaining private landowners to manage their property as silvicultural, agricultural, or for conservation purposes. This land use conversion could also have negative implications for surface and groundwater quality thus affecting water resources and wetland habitat farther away from the project site. Increased traffic may result in increased mortality for wildlife. Increased traffic noise may have negative impacts for wildlife as well, making it more difficult to find food or reproduce.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Use BMPs to protect water quality, habitat, and wildlife. Properly sited vegetation can help with noise control. The best sound buffers consist of dense, native vegetation that extends down to the ground. A combination of evergreen trees and shrubs can provide year-round soundproofing. The need for structural noise barriers should also be examined.

3 US Fish and Wildlife Service (03/13/2026 11:47:31 AM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Amber Rhodes

Coordination Document:

Technical Studies

Protected Species and Habitat Analysis (contained in Natural Resources Evaluation)
Comments:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

The Service has reviewed our Geographic Information System (GIS) database for recorded locations of federally 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 federal listed species may occur in or near the project area. Florida panther, southeastern beach mouse, Florida bonneted bat, Audubon's crested caracara, eastern black rail, Everglade snail kite, Florida scrub jay, eastern indigo snake, American crocodile, American alligator, monarch butterfly, Beach jacquemontia, four-petal pawpaw, Tiny Polygala (*Polygala smallii*), and the Florida perforate cladonia.

Comments on Effects to Resources

- Florida panther (*Puma concolor coryi*)- Telemetry and mortality data does not show occurrences of this species within the Action Area.
- Southeastern beach mouse (*Peromyscus polionotus niveiventris*)- The Southeastern beach mouse is the largest beach mouse; it averages 139 millimeters in total length and 52 millimeters in tail length. Historically, the SEBM was found along approximately 360 kilometers (km) of coastline from Volusia County south to Broward County, Florida (Humphrey et al. 1987). By the time the subspecies was listed in 1989, SEBM were only known to occur in the coastal dune habitats of Volusia County south to Indian River County, twenty percent of the historic range. The range is now appears to be restricted to the northern 80 km of coastline in Volusia and Brevard counties within the coastal dune and strand habitats between Ponce Inlet and Canaveral Entrance Channel, twenty-two percent of the historic range. The Action Area does not contain suitable habitat for this species.
- Florida bonneted bat (*Eumposaracara floridanus* (FBB)): This project is located in the geographic range of the endangered Florida bonneted bat. For guidance on FBB surveys, effect determinations, and consultations with the Service, we recommend that the Florida Department of Transportation (FDOT) consult the Service's 2024 FBB Consultation Key.
- Audubon's crested caracara (*Caracara plancusaudubonii*)- This species is known to occur within the Action Area, but is not known to nest within the Action Area. If evidence of nesting is discovered (i.e. observed nest, courtship behavior, carrying nest material or food, etc.) in or within 300 meters of the work area, the Applicant will suspend work and reinitiate consultation with the Service.
- Eastern black rail *(Laterallus jamaicensis ssp. Jamaicensis)*- Black rails require dense vegetative cover that allows movement underneath the canopy. This species can be found in a variety of salt, brackish, and freshwater marsh habitats that can be tidally or non-tidally influenced, and plant structure is considered more important than plant species composition in predicting habitat suitability. Soils are moist to saturated, occasionally dry, and interspersed with, or adjacent to, very shallow water of 1 to 6 centimeters. Suitable habitat for this species does not occur within the project area.
- Everglade snail kite (*Rostrhamus sociabilis plumbeus*)- This project occurs within the known range of the Everglades snail kite. This species is not known to nest within the Action Area, but may occur within the project area. This species would most likely avoid the project area for the duration of construction activities.
- Wood Stork (*Mycteria americana*)- The final rule to delist this species goes into effect March 12, 2026. Consultation for this species is not longer required under section 7 of the Endangered species Act, however, consultation may still be required for this species under the Migratory Bird Treat Act. See the Migratory Birds and Bald Eagle section below.
- Florida Scrub Jay (*Aphelocoma coerulescens*)-This species is known to occur within the Action Area, but is not known to nest within the Action Area.
- Eastern Indigo Snake (*Drymarchon couperi*)- The eastern indigo snake is a large, non-venomous snake with populations occurring in portions of Florida and southeastern Georgia. Historically, the eastern indigo snake occurred throughout Florida and in the coastal plain of Georgia, Alabama and Mississippi. The species prefers upland habitat types (e.g. longleaf pine sandhills, scrub, pine flatwoods, tropical hardwood hammocks, and coastal dunes), but also uses a variety of lowland and human-altered habitats. They may move seasonally between upland and lowland habitats, especially in northern portions of their range. Throughout their range, eastern indigo snakes use below-ground shelter sites for refuge, breeding, feeding and nesting. They depend on gopher tortoise burrows in xeric sandhill habitats throughout the northern portion of the species' range for overwintering shelter sites. Recommend that 2024 standard protection measures for the eastern indigo snake be implemented for this project.
- American Crocodile/Alligator: American crocodile (*Crocodylus acutus*): This project occurs within the range of the crocodile, but outside the range of nesting areas. Historic data shows that crocodiles are unlikely to occur within the Action Area and, as crocodiles are wary, would most likely avoid the project area for the duration of the project.
- Federally Listed Plants/lichen- This project is within the range of federally listed plant species, the Service recommends that a survey be conducted during the appropriate time of year by species and in accordance with the Service's survey guidelines for plants. Survey Calendar for Listed Plant Species. Beach jacquemontia (*Jacquemontia reclinata*), four-petal pawpaw (*Asimina tetramera*), Tiny Polygala (*Polygala smallii*), and a lichen the Florida perforate cladonia (*Cladonia perforata*).
- Monarch Butterflies (*Danaus plexippus*)- The Service proposed to list the monarch butterfly as a threatened species and designate critical habitat under the Endangered Species Act of 1973, as amended (Act) on December 12, 2024 (F.R. Vol. 89, No. 239). Consultation on this species at this time is at the discretion of your agency. If this species is listed prior to the completion of this project, consultation with the Service may need to be reinitiated.

Migratory Birds and Bald Eagle

Coordination with the Office of Migratory birds will be needed for all projects involving migratory birds and eagles, please contact Ulgonda Kilpatrick in our Migratory Birds Permit Office at:
Migratory Birds Permit Office
1875 Century Boulevard, NE
Atlanta, Georgia 30345
352-406-6780 cell (MAIN)

Florida has 229 species of plants found nowhere else in the world, and most of them are rare and declining. Diverse plant communities are essential for maintaining a healthy environment for fish, wildlife, and people, and improved land conservation and land management can help restore these rare plants. To this end, the Service worked with the Florida Department of Agriculture and Consumer Services, and many universities and non-profits, to establish the Florida Rare Plant Conservation Endowment. The Endowment funds projects that are critical to preventing the extinction of Florida's rare plants. To ensure the survival of Florida's unique and rare plants the Service encourages the applicant to make a voluntary contribution of $5,000 to the Endowment. All contributions are voluntary and tax deductible.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Coastal and Marine

Coordinator Summary Degree of Effect:	0	**None**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Coastal and Marine topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Coastal and marine impacts were reviewed as N/A = Not applicable or no involvement. [SFWMD]
- Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH. [NMFS]
- Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of the NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in the project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation. [NMFS]
- Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act. [NMFS]

Summary:
None of the build Alternatives are within a Coastal Barrier Resource Area (CBRA) and no Essential Fish Habitat (EFH) is present within the project corridors.

It is anticipated that the effect on Coastal and Marine will be **None** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Coastal and Marine Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites

- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.

- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

0 **National Marine Fisheries Service (03/26/2026 10:51:50 AM)**

Coastal and Marine Degree of Effect:

None

Reviewed By:

Kurtis Gregg

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Noise

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
Two residential areas are located within the study area for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. A review of the GIS Analysis indicates these consist of some fixed single-family units (2-5 dwelling units per acre) and multiple dwelling units, low rise (two stories or less). There are currently no noise barriers along the project corridor.

South 1 Alternative
There are two homeowner and condominium associations (Circle Bay Yacht Club I and Sierra Condo Apts) within the 500-foot buffer. There are no assisted living facilities, local parks, or recreational facilities within the 500-foot buffer. Residential land use within the buffer consists of fixed single-family units, which account for 2.25 percent of the residential area, and multiple dwelling units (low-rise), which account for 1.65 percent.

A Noise Study Report (NSR) is currently being prepared during the PD&E Study to identify unavoidable noise impacts, and an evaluation of abatement measures will occur where appropriate.

It is anticipated that the effect of Noise will be **Moderate** for all Alternatives.

Next Steps:
A Noise Study Report is currently being prepared as part of the PD&E Study.

No ETAT Reviews were submitted for the Noise Topic.

Physical - Air Quality

Coordinator Summary Degree of Effect:	2	**Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Air Quality topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Per section 109 of the Clean Air Act (42 U.S.C. 1857), the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) 40 C.F.R. 50 to protect public health and welfare and to maintain primary and secondary ambient air quality standards for prescribed air pollutants. The proposed project is in Martin County, Florida, an attainment area for all six criteria pollutants (ozone, carbon

monoxide, sulfur dioxide, nitrogen dioxide, lead, and small particulate matter). Per the April 2023 FDOT and EPA IA, the NAAQS (40 C.F.R. 50) status of attainment for the project area, and the information provided by the FDOT, the EPA assigns a Minimal degree of effect on air quality. [USEPA]
- In attainment areas where air quality meets the NAAQS (42 U.S.C. 1857), roadway expansion projects must ensure that they do not degrade the existing air quality or hinder efforts to maintain these standards. [USEPA]

Summary:
The study area is located within a US Environmental Protection Agency (USEPA) designated Air Quality Attainment Area for all the National Ambient Air Quality Standards under the criteria provided in the Clean Air Act. Therefore, the Clean Air Act conformity requirements do not apply to this project currently.

It is anticipated that the effect on Air Quality will be **Minimal** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **US Environmental Protection Agency (03/31/2026 04:37:17 PM)**

Air Quality Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Per section 109 of the Clean Air Act (42 U.S.C. 1857), the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) 40 C.F.R. 50 to protect public health and welfare and to maintain primary and secondary ambient air quality standards for prescribed air pollutants. The proposed project is in Martin County, Florida, an attainment area for all six criteria pollutants (ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, and small particulate matter). Per the April 2023 FDOT and EPA IA, the NAAQS (40 C.F.R. 50) status of attainment for the project area, and the information provided by the FDOT, the EPA assigns a Minimal degree of effect on air quality.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

In attainment areas where air quality meets the NAAQS (42 U.S.C. 1857), roadway expansion projects must ensure that they do not degrade the existing air quality or hinder efforts to maintain these standards.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Contamination

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Contamination topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Contamination impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- Contamination consists of turbidity in surface waters. [SFWMD]
- The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts. Dewatering permit shall be obtained, if dewatering is required. Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a

Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete. [SFWMD]

- GIS data indicates that there are multiple contamination facilities within the 500-ft. project buffer zone. These include eight hazardous waste facilities and eight FDEP storage tank contamination monitoring sites within the 500-ft project buffer. [FDEP]
- Any land clearing or construction debris must be characterized for proper disposal. Potentially hazardous materials must be properly managed in accordance with Chapter 62-730, F.A.C. In addition, any solid wastes or other non-hazardous debris must be managed in accordance with Chapter 62 -701, F.A.C. Petroleum cleanups must be managed in accordance with Chapter 62-770, F.A.C. [FDEP]
- Please be advised that a new rule, 62-780, F.A.C., became effective on April 17, 2005. In addition, Chapters 62-770, 62-777, 62-782 and 62-785, F.A.C., were amended on April 17, 2005, to incorporate recent statutory changes. Depending on the findings of the environmental assessments, there are "off-property" notification responsibilities potentially associated with this project. These rules may be found at the following website: http://www.dep.state.fl.us/waste/ [FDEP]
- Based on our experience, the accurate identification, characterization and cleanup of sites requires experienced consulting personnel and laboratory support, management commitment of the project developers and their representatives, and will likely be very time-consuming. Early planning to address these issues is essential to meet construction and cleanup (if required) timeframes. Innovative technologies, such as special storm water management systems, engineering controls and institutional controls, such as conditions on water production wells and dewatering restrictions, may be required, depending on the results of environmental assessments. [FDEP]
- Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified potential sources of sub-surface contamination within the 500-foot project buffer: 8 hazardous waste facilities, 5 petroleum contamination monitoring sites, 8 storage tank contamination monitoring sites, 4 State Underground Petroleum Environmental Response (SUPER) Act Risk Sites, 23 SUPER Act Wells, and 9 FDEP Environmental Restoration Integrated Cleanup (ERIC) sites. Additionally, The FDOT generated GIS analysis for contamination states that the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. Part 280, Subpart F, the EPA assigns a Moderate degree of effect to contamination due to the area's overall sensitivity and susceptibility to contamination. [USEPA]
- Releases from underground storage tanks (UST) must be remediated pursuant to RCRA Subtitle I, 40 C.F.R. Part 280, Subpart F - Release Response and Corrective Action for UST Systems Containing Petroleum or Hazardous Substances 280.60 General. Mentioned above is the federal regulation but the State of Florida is directly responsible for implementation of the UST program. [USEPA]
- RCRA facilities that treat, store, or dispose of hazardous waste are required to clean-up releases of hazardous constituents to the environment under one of the following statutory authorities: RCRA 3004(u), 3004(v), 3008(a), 3008(h), 3013, or 7003. According to 40 CFR 264.101, facilities must conduct corrective actions for all releases of hazardous constituents from any solid waste management unit or hazardous waste management unit and must implement corrective actions beyond the facility boundary. [USEPA]
- Prior to acquiring ownership or control of a potentially contaminated property, all parties, are encouraged to perform an environmental site assessment, i.e., conduct "all appropriate inquiries" (AAI) under, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601(35)(B)(i)), 40 C.F.R. Part 312, to ensure they make informed decisions regarding the property's environmental conditions. This information can help ensure a new owner's activities do not disturb or exacerbate site contamination. [USEPA]

Summary:
According to the ETDM Contamination GIS layer, there are no solid waste facilities within the 500-foot buffer for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additional contamination resources, including hazardous waste facilities, storage tank contamination monitoring sites, biomedical waste facilities, and brownfield areas associated each Alternative are described below.

South 1 Alternative
There are twenty-three (23) FDEP hazardous waste facilities (EPA ID: FL0000997122, FL0000997130, FL0000997148, FLD032748675, FLD052658317, FLD982082216, FLD982091076, FLD982121709, FLD982143802, FLD982174963, FLD984209189, FLR000051631, FLR000086496, FLR000120675, FLR000120683, FLR000120741, FLR000154369, FLR000190082, FLR000208678, FLR000208686, FLR000234807, FLR000239673, and FLR000268417) and eleven (11) FDEP storage tank contamination monitoring sites (Facility ID: 8520085, 8626173, 8629919, 8734079, 8840895, 9102662, 9500289, 9500749, 9602023, 9700694, and 9815471) within the 500-foot buffer. Additionally, there are sixteen (16) FDOH biomedical waste facilities (Permit Number: 43-64-00884, 43-64-00886, 43-64-00936, 43-64-00995, 43-64-00292, 43-64-00434, 43-64-1275905, 43-64-1400256, 43-64-1426512, 43-64-1436764, 43-64-1602018, 43-64-1643665, 43-64-1713914, 43-64-1411178, 43-64-1627698, and 43-64-1696459) within the 500-foot buffer. There is one (1) FDEP brownfield area (Landfill Green Reuse Area) within the 500-foot buffer.

A Contamination Screening Evaluation Report (CSER) is currently being prepared as part of the PD&E Study to document and update any potential contamination sources within the project vicinity. Avoidance, minimization, and mitigation strategies as well as any necessary special construction provisions will be developed based on this documentation, to avoid impacts, and to ensure human health and safety if avoidance is not possible.

It is anticipated that the effect of Contamination will be **Moderate** for all Alternatives.

Next Steps:
A CSER is currently being prepared as part of the PD&E Study. Regulated facilities identified within search criteria established in the FDOT PD&E Manual will be assessed to determine the need for avoidance, minimization, or remediation prior to construction or during construction.

2 South Florida Water Management District (04/03/2026 01:38:12 PM)

Contamination Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a

Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

3 **FL Department of Environmental Protection (04/03/2026 11:33:09 AM)**

Contamination Degree of Effect:

Moderate

Reviewed By:

Lindsay Weaver

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

GIS data indicates that there are multiple contamination facilities within the 500-ft. project buffer zone.
These include 23 hazardous waste facilities and 11 FDEP stogage tank contamination monitoring sites, and a portion of the Landfill Green Reuse Area brownfield area are within the within the 500-ft project buffer.

Comments on Effects to Resources

Any land clearing or construction debris must be characterized for proper disposal. Potentially hazardous materials must be properly managed in accordance with Chapter 62-730, F.A.C. In addition, any solid wastes or other non-hazardous debris must be managed in accordance with Chapter 62-701, F.A.C. Petroleum cleanups must be managed in accordance with Chapter 62-770, F.A.C.

Please be advised that a new rule, 62-780, F.A.C., became effective on April 17, 2005. In addition, Chapters 62-770, 62-777, 62-782 and 62-785, F.A.C., were amended on April 17, 2005, to incorporate recent statutory changes. Depending on the findings of the environmental assessments, there are "off-property" notification responsibilities potentially associated with this project. These rules may be found at the following website: http://www.dep.state.fl.us/waste/

Based on our experience, the accurate identification, characterization and cleanup of sites requires experienced consulting personnel and laboratory support, management commitment of the project developers and their representatives, and will likely be very time-consuming. Early planning to address these issues is essential to meet construction and cleanup (if required) timeframes. Innovative technologies, such as special storm water management systems, engineering controls and institutional controls, such as conditions on water production wells and dewatering restrictions, may be required, depending on the results of environmental assessments.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 US Environmental Protection Agency (04/03/2026 10:51:33 AM)

Contamination Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified potential sources of sub-surface contamination within the 500-foot project buffer: 1 FDEP brownfield area, 23 hazardous waste facilities, 7 petroleum contamination monitoring sites, 11 storage tank contamination monitoring sites, 8 State Underground Petroleum Environmental Response (SUPER) Act Risk Sites, 19 SUPER Act Wells, and 13 FDEP Environmental Restoration Integrated Cleanup (ERIC) sites. Additionally, The FDOT generated GIS analysis for contamination states that the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 266.87 acres (100% of the project area).
Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. Part 280, Subpart F, the EPA assigns a Moderate degree of effect to contamination due to the area's overall sensitivity and susceptibility to contamination.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

Releases from underground storage tanks (UST) must be remediated pursuant to RCRA Subtitle I, 40 C.F.R. Part 280, Subpart F - Release Response and Corrective Action for UST Systems Containing Petroleum or Hazardous Substances 280.60 General. Mentioned above is the federal regulation but the State of Florida is directly responsible for implementation of the UST program.
RCRA facilities that treat, store, or dispose of hazardous waste are required to clean-up releases of hazardous constituents to the environment under one of the following statutory authorities: RCRA 3004(u), 3004(v), 3008(a), 3008(h), 3013, or 7003. According to 40 CFR 264.101, facilities must conduct corrective actions for all releases of hazardous constituents from any solid waste management unit or hazardous waste management unit and must implement corrective actions beyond the facility boundary.
Prior to acquiring ownership or control of a potentially contaminated property, all parties, are encouraged to perform an environmental site assessment, i.e., conduct "all appropriate inquiries" (AAI) under, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601(35)(B)(i)), 40 C.F.R. Part 312, to ensure they make informed decisions regarding the property's environmental conditions. This information can help ensure a new owner's activities do not disturb or exacerbate site contamination

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Infrastructure

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
There are several major utilities identified on the ETDM Infrastructure Report within a 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative, as noted below. There are three (3) FDOT railroad crossings (FDOT Crossing Inventory Number: 272353M, 272929N, and 272942C) within the 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additionally, there is one (1) airport runway (Witham Field Runway) located within the 500-foot buffer of all Alternatives. All Alternatives will require coordination with the airport due to the project being located within the runway protection zone of the airport.

There are no USEIA natural gas pipelines or ORNL electric power transmission lines within the 500-foot buffer of all Alternatives.

South 1 Alternative
There are three (3) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313487, and 1325501) within the 500-foot buffer.

Further review of utility impacts and any impacts to the airport will be conducted during the PD&E phase of the project. A Utility Assessment Package will be prepared during the PD&E Study.

It is anticipated that the effect on Infrastructure will be **Moderate** for all Alternatives.

Next Steps:
A Utility Assessment Package will be prepared during the PD&E Study. Direct effects to adjacent infrastructure resources and ROW will be minimized to the greatest extent practicable.

No ETAT Reviews were submitted for the Infrastructure Topic.

Physical - Navigation

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
There are no navigable waterways in the project area.

It is anticipated that the effect on Navigation will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

N/A **US Army Corps of Engineers (04/03/2026 12:06:18 PM)**

Navigation Degree of Effect:

N/A / No Involvement

Reviewed By:

Heather M Mason

Coordination Document:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Special Designations - Special Designations

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Special Designations topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Special designations impacts were reviewed as N/A = Not applicable or no involvement. [SFWMD]

Summary:

Outstanding Florida Waters
This project is not located within an Outstanding Florida Water.
It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for all Alternatives.

Aquatic Preserves
This project is not located within an aquatic preserve.
It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for all Alternatives.

Wild and Scenic Rivers
No FDEP wild and scenic rivers are located within the 500-foot buffer of all three Alternatives (North 1 Alternative, North 2 Alternative, and South 1 Alternative). Therefore, there will be no impact on wild and scenic rivers.
It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for all Alternatives.

Sole Source Aquifers
This study area is not located within a Sole Source Aquifer.
It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Special Designations Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and
the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity

- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

N/A **US Environmental Protection Agency (03/31/2026 01:47:48 PM)**

Special Designations Degree of Effect:

N/A / No Involvement

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

The GIS analysis for Special Designations did not identify a Sole Source Aquifer. Therefore, the EPA assigns No Involvement to Special Designations.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

NA

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Cumulative Effects Considerations

Topic	Organization	Review Date

Natural - Protected Species and Habitat

No Summary of Cumulative Effects Evaluation Considerations is available for this topic

US Fish and Wildlife Service 03/13/2026

Reviewed By:
Rhodes, Amber (03/13/2026)

No comments recorded

North 2

Name	From	To	Type	Status	Total Length	Cost	Modes	SIS
North 2			Widening	ETAT Review Complete			Roadway; Bicycle; Pedestrian	No

Polygon Details

Location and Length

Polygon No.	Name	Beginning Location	Ending Location	Length (mi.)	Roadway Id	BMP	EMP
A-001							

Jurisdiction and Class

Polygon No.	Jurisdiction	Urban Service Area	Functional Class
A-001			

Base Conditions

Polygon No.	Year	AADT	Lanes	Config
A-001				

Interim Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Needs Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Cost Feasible Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Funding Sources

No funding sources found.

Project Effects Overview for North 2

Topic	Degree of Effect		Organization	Date Reviewed
Social and Economic				
Social	3	Moderate	US Environmental Protection Agency	04/03/2026
Cultural and Tribal				
Historic and Archaeological Sites	3	Moderate	FL Department of State	03/26/2026
Historic and Archaeological Sites	3	Moderate	Seminole Tribe of Florida	02/19/2026
Recreational and Protected Lands	2	Minimal	South Florida Water Management District	04/03/2026
Recreational and Protected Lands	N/A	N/A / No Involvement	FL Department of Environmental Protection	04/03/2026
Recreational and Protected Lands	N/A	N/A / No Involvement	National Park Service	02/19/2026
Natural				
Wetlands and Surface Waters	2	Minimal	South Florida Water Management District	04/03/2026
Wetlands and Surface Waters	2	Minimal	US Army Corps of Engineers	04/03/2026
Wetlands and Surface Waters	2	Minimal	US Environmental Protection Agency	04/03/2026
Wetlands and Surface Waters	0	None	National Marine Fisheries Service	03/26/2026
Wetlands and Surface Waters	2	Minimal	US Fish and Wildlife Service	03/13/2026
Water Resources	2	Minimal	South Florida Water Management District	04/03/2026
Water Resources	2	Minimal	FL Department of Environmental Protection	04/03/2026
Water Resources	3	Moderate	US Environmental Protection Agency	04/03/2026
Floodplains	2	Minimal	South Florida Water Management District	04/03/2026
Protected Species and Habitat	3	Moderate	FL Fish and Wildlife Conservation Commission	04/10/2026
Protected Species and Habitat	3	Moderate	FL Department of Agriculture and Consumer Services	03/26/2026
Protected Species and Habitat	3	Moderate	US Fish and Wildlife Service	03/13/2026
Coastal and Marine	2	Minimal	South Florida Water Management District	04/03/2026

Coastal and Marine	0	None	National Marine Fisheries Service	03/26/2026
Physical				
Air Quality	2	Minimal	US Environmental Protection Agency	03/31/2026
Contamination	2	Minimal	South Florida Water Management District	04/03/2026
Contamination	3	Moderate	FL Department of Environmental Protection	04/03/2026
Contamination	3	Moderate	US Environmental Protection Agency	04/03/2026
Navigation	N/A	N/A / No Involvement	US Army Corps of Engineers	04/03/2026
Special Designations				
Special Designations	2	Minimal	South Florida Water Management District	04/03/2026
Special Designations	N/A	N/A / No Involvement	US Environmental Protection Agency	03/31/2026

Project Effects Details for North 2

Social and Economic - Social

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Social topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- The EPA recommends the FDOT provide opportunities for public involvement, as appropriate based on the applicable level of NEPA review. [USEPA]

Summary:
The proposed improvements are not expected to disproportionately affect minority, low-income, or disadvantaged populations, but an analysis of the effects on these populations will be considered during the PD&E Study. The North 1 Alternative and North 2 Alternative are anticipated to result in a greater Degree of Effect on the social environment compared to the South 1 Alternative. These Alternatives would have greater proximity to, and potential impacts on, the established residential neighborhood located north of Monterey Road and east of SE Dixie Highway, including potential effects related to access, noise, visual changes, and temporary construction-related disruptions. The South 1 Alternative is anticipated to have a lower Degree of Effect on residential communities but may result in comparatively greater impacts to nearby commercial properties and businesses.

Overall impacts on the social environment and community cohesion are anticipated to be **Moderate** for North 1 Alternative and North 2 Alternative. While the degree of effect for the South 1 Alternative would be **Minimal.** This is due to the North 1 Alternative and North 2 Alternative traversing through residential neighborhoods, while the South 1 Alternative avoids impacts to residential neighborhoods.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026, therefore input from the public is still being gathered. A project website has been created which includes all the project information. Social effects of the project will be fully analyzed within the Sociocultural Effects Memorandum, which is currently in progress.

3 **US Environmental Protection Agency (04/03/2026 08:46:26 AM)**

Social Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the Environmental Screening Tool (EST), the FDOT highlighted that additional right-of-way, including relocations, will be needed to accommodate the proposed project. Additionally, the FDOT notes that access to proximate residences and businesses may be temporarily affected and/or modified as a result of the project.
The NEPA statute requires public engagement in the federal decision-making process for actions that could significantly impact the environment. *See* NEPA 102(2)(c), 107(c). In addition, FHWA mandates public involvement at various levels of the NEPA review process. *See, e.g.*, 23 U.S.C. 139 (f)(1), (f)(4)(A)(i), (g)(4).
Per the April 2023 FDOT and EPA IA, the EPA has assigned a moderate degree of effect on social impacts.

Comments on Effects to Resources

The NEPA statute requires public engagement in the federal decision-making process for actions that could significantly impact the environment. *See* NEPA 102(2)(c), 107(c). In addition, FHWA mandates public involvement at various levels of the NEPA review process. *See, e.g.*, 23 U.S.C. 139 (f)(1), (f)(4)(A)(i), (g)(4). The EPA recommends the FDOT provide opportunities for public input, as appropriate based on the applicable level of NEPA

review.

Recommended Avoidance, Minimization, and Mitigation Opportunities

NA

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Social and Economic - Economic

Coordinator Summary Degree of Effect:	2	**Minimal**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
All Alternatives are expected to provide long-term economic benefits through enhanced mobility, improved traffic operations, and increased accessibility, which may positively influence local economic activity. A Sociocultural Effects Evaluation will be included in the PD&E Study. During the Project Development phase, FDOT District Four will encourage the public and the communities to engage in public meetings. The meetings will present a clear and transparent detailed analysis for the corridor and study areas for the improvements, impacts, and alternative solutions for the construction of this project.

It is anticipated that the effect to Economic will be **Moderate** for the South 1 Alternative, but **Minimal** for the North 1 Alternative and North 2 Alternative. The South 1 Alternative has slightly higher percentages of households living below the poverty level than households within the North 1 Alternative and North 2 Alternative study areas. Additionally, the South 1 Alternative may have higher impacts on adjacent businesses, further proving the need for the South 1 Alternative to have a **Moderate** degree of effect for Economic.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026. A project website has been created which includes all the project information. Economic effects of the project will be fully analyzed within the Sociocultural Effects Memorandum, which is currently in progress.

No ETAT Reviews were submitted for the Economic Topic.

The following organization(s) were expected to but did not submit comments for **North 2** about potential direct effects in the Economic category: FL Department of Economic Opportunity

Social and Economic - Land Use Changes

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
The proposed improvements are consistent with the Martin County 2045 Long Range Transportation Plan and 2045 Cost Feasible Plan (CFP). Overall, the proposed project is expected to have some land use impacts along the project limits due to improving the FEC Railroad crossing. All three Alternatives are likely to include land use impacts. Although, due to the study area already largely developed, there should be no impacts to the future land use of the surrounding area.

It is anticipated that the effect on Land Use will be **Moderate** for all Alternatives.

Next Steps:

Land Use impacts for each alternative will be documented within the Sociocultural Effects, which is currently in progress.

No ETAT Reviews were submitted for the Land Use Changes Topic.

The following organization(s) were expected to but did not submit comments for **North 2** about potential direct effects in the Land Use Changes category: FL Department of Economic Opportunity

Social and Economic - Mobility

Coordinator Summary Degree of Effect: 1 **Enhanced**

Response By

FDOT District 4 07/08/2026

Comments

There No ETAT reviews were submitted for this issue.

Summary:
Currently, there is one bus route (Route 2- Stuart Route) that utilizes Monterey Road. Additionally, 10 school buses per school day utilize the Monterey Road/FEC Railroad crossing. There are several community facilities within the 1/4-mile buffer study area surrounding all three Alternatives: YMCA of the Treasure Coast, Stuart Rehabilitation and Healthcare, Stuart Senior Living, City of Stuart Fire Station No. 2, and the Martin County District Office. Lastly, there are no existing trails within the study area, however, the East Coast Greenway has been partially funded and may traverse through the study area at some point in the future. Multi-modal transportation will be considered on Monterey Road to serve and connect the transit-supportive land uses. Sidewalks currently exist on part of the roadway and will remain or be improved as part of the intersection improvements. Bike lanes may also be considered for this project.
It is anticipated that the effect on Mobility will be **Enhanced** by any of the Alternatives.

Next Steps:
Impacts on Mobility for each alternative will be documented within the Sociocultural Effects, which is currently in progress.

No ETAT Reviews were submitted for the Mobility Topic.

Social and Economic - Aesthetic Effects

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
While the proposed Alternatives are located primarily along existing transportation corridors, all Alternatives include a new potential elevated bridge/intersection configuration and new roadway segments adjacent to residential areas. These features would introduce new vertical elements, roadway structures, and changes in roadway alignment that could alter the existing visual environment, particularly for nearby residences. As a result, the project has the potential to create noticeable changes to the existing viewshed in localized areas.
It is anticipated that the Aesthetic Effects will be **Moderate** for all Alternatives.

Next Steps:
A Public Kickoff Meeting and an Alternatives Meeting have already been conducted. A Public Hearing is tentatively scheduled for October 2026. A project website has been created which includes all the project information. Input regarding Aesthetics is still being obtained from the public and will continue to be obtained throughout the duration of the PD&E Study.

No ETAT Reviews were submitted for the Aesthetic Effects Topic.

Social and Economic - Relocation Potential

Coordinator Summary Degree of Effect:	4	Substantial

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:

North 2 Alternative
According to the WMD Residential Areas (FLUCCS Level 3) data, residential areas cover approximately 71.23 acres within the 500-foot project buffer. Additionally, the YMCA of the Treasure Coast is located within the 500-foot buffer and may be impacted. As indicated above, the North 2 Alternative may require 4 residential relocations and 2 business relocations, along with impacting 22 total parcels.

Some ROW may be required for the proposed project. During the PD&E Study, a Conceptual Stage Relocation Plan will be prepared for any relocations required.

It is anticipated that the effect on Relocation Potential will be **Substantial** for all three Alternatives.

Next Steps:
ROW and relocation information will be determined for each alternative. Additionally, a Conceptual Stage Relocation Plan will be developed.

No ETAT Reviews were submitted for the Relocation Potential Topic.

Social and Economic - Farmlands

Coordinator Summary Degree of Effect:	2	Minimal

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:

North 2 Alternative
A review of the GIS Analysis on ETDM identified 199.52 acres of Prime Farmland with a classification of Farmland of Unique Importance within the 500-foot buffer for the North 2 Alternative.

There are no Generalized Agricultural land uses within the 500-foot buffer though. Additionally, based on an aerial view of the study area, a majority of the study area is developed and therefore is not currently utilized for farming or other agricultural purposes.

Due to the developed nature of the study area, it is anticipated that the effect on Farmlands will be **Minimal** for all Alternatives.

Next Steps:
During the PD&E Study, the proposed project impacts on farmlands will be evaluated further. Coordination with the Natural Resources Conservation Service (NRCS), including preparation of a Farmland Conversion Impact Rating Form, will occur, if necessary.

No ETAT Reviews were submitted for the Farmlands Topic.

The following organization(s) were expected to but did not submit comments for **North 2** about potential direct effects in the Farmlands category:
Natural Resources Conservation Service

Cultural and Tribal - Section 4(f) Potential

Coordinator Summary Degree of Effect:	N/A	N/A / No Involvement

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
All alternatives are not located within 500 feet of a Section 4(f) resource.

It is anticipated that the effect on Section 4(f) Potential will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

No ETAT Reviews were submitted for the Section 4(f) Potential Topic.

Cultural and Tribal - Historic and Archaeological Sites

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Historic and Archaeological topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- The FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. Please provide a copy of the CRAS report. Once a preferred alternative is selected, effects to eligible resources will be considered. [Florida Department of State]
- Effects to resources are Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800). [Seminole Tribe of Florida (STOF)]

Summary:
There are three previously recorded historic resource groups within 500 feet of the North 1 Alternative, North 2 Alternative, and South 1 Alternative: FEC Railroad, Site ID: MT01450; Dixie Highway, Site ID: MT01621; and Witham Field Airport, Site ID: MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. The project corridor is within the boundaries of five SHPO surveys.

A Cultural Resources Assessment Survey has been prepared as part of the PD&E Study to evaluate potential impacts on the historic standing structures and the resource groups, along with any impacts on unidentified historic resources/structures. Results of the CRAS have been forwarded to the SHPO. Currently a Case Study is being prepared for the project. Results of the Case Study will be coordinated with the SHPO.

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for all Alternatives.

Next Steps:
Once the Case Study is completed, it will be coordinated with the SHPO and next steps will be determined at that time.

3 **FL Department of State (03/26/2026 10:43:19 AM)**

Historic and Archaeological Sites Degree of Effect:

Moderate

Reviewed By:

Alyssa McManus

Coordination Document:

Technical Studies

Cultural Resource Assessment Survey
Comments:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

This office did not receive FMSF forms for MT0319,MT329, MT330, which were recorded as part of MS#2761. The FEC Railroad, MT01450; Dixie Highway, MT01621; and Witham Field Airport, MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP.

We look forward to reviewing a CRAS for the project once a preferred alternative is chosen.

Comments on Effects to Resources

Once resources are identified, effects will be determined.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 **Seminole Tribe of Florida (02/19/2026 03:38:37 PM)**

Historic and Archaeological Sites Degree of Effect:

Moderate

Reviewed By:

Victoria Menchaca

Coordination Document:

Technical Studies

Cultural Resource Assessment Survey
Comments:
Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Comments on Effects to Resources

Unknown. Please provide a copy of the CRAS report when it is completed for our review pursuant to Section 106 of the National Historic Preservation Act (16 USC 470) as amended and its implementing regulations (36 CFR 800).

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Cultural and Tribal - Recreational and Protected Lands

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Recreational and Protected Lands topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Recreation areas are N/A = Not applicable or no involvement within the project area. [SFWMD]
- The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria: whether the activity will adversely affect the public health, safety or welfare or property of others; whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats; whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling; whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity; whether the activity will be of temporary or permanent nature; whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity. [SFWMD]

Summary:
This project is not located within 500 feet of a Recreation Area.

It is anticipated that the effect on Recreation Areas will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Recreational and Protected Lands Degree of Effect:
Minimal
Reviewed By:
Jessica Huffman-Mainelli
Coordination Document:
Coordination Document Comments
Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters

must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;

whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and
the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

N/A **FL Department of Environmental Protection (04/03/2026 11:36:48 AM)**

Recreational and Protected Lands Degree of Effect:

N/A / No Involvement

Reviewed By:

Lindsay Weaver

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

N/A **National Park Service (02/19/2026 02:52:42 PM)**

Recreational and Protected Lands Degree of Effect:

N/A / No Involvement

Reviewed By:

PJ Walker

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Wetlands and Surface Waters

Coordinator Summary Degree of Effect:	2	**Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Wetlands and Surface Waters topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Wetlands impacts were reviewed to be minimum/little adverse effect on resources. [SFWMD]
- There are potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts. At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation. [SFWMD]
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2. [SFWMD]
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters. [SFWMD]
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required minimum in accordance with AH I, 10.2.1. [SFWMD]
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8. [SFWMD]
- Identified resources with direct effects include roadside ditches, and canals, and possibly minimal wetland habitat. [USACE]
- Impacts to aquatic resources would require a permit under Section 404 of the Clean Water Act. [USACE]
- Please design the project to avoid and minimize impacts to wetlands as much as is practicable. Please be aware, if the project requires an individual permit, an alternatives analysis done in accordance with both NEPA and the Clean Water Act 404(b)(1) Guidelines will be required. If an individual permit is needed, FDOT will need to demonstrate the proposed alignment is the least environmentally damaging practicable alternative (LEDPA). If there are unavoidable impacts to wetlands, please propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy. [USACE]
- Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified approximately 0.2 acres of palustrine and 2.78 acres of riverine wetlands within the 500-foot project buffer. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. 230.10(d), the EPA assigns a Minimal Degree of Effect to Wetlands and Surface Waters for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. [USEPA]
- 40 C.F.R. 230.10(d) requires appropriate and practicable steps to minimize potential adverse impacts of the discharge on the aquatic ecosystem. Potential actions to minimize adverse effects are set forth in 40 C.F.R. Part 230, subpart H. Compensatory mitigation is required to offset aquatic
- impacts resulting from any unavoidable impacts consistent with 40 C.F.R. Part 230, Subpart J, including 40 C.F.R. 230.91(c), 40 C.F.R. 230.93(a), and 40 C.F.R. 230.93(b)(1). [USEPA]
- Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH. [NMFS]
- Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of the NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in the project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation. [NMFS]
- Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act. [NMFS]
- Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources. [USFWS]
- Dependent upon the alternative(s) selected, the proposed project is expected to result in moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process. [USFWS]

Summary:
All Alternatives are located within the St. Lucie River Watershed and the boundary of the South Florida Water Management District (SFWMD). Wetland and surface water resources associated each Alternative are described below.

North 2 Alternative
There are wetlands identified within the North 2 Alternative project limits. The National Wetlands Inventory (NWI) ETDM GIS indicates that approximately 2.98 acres of wetlands occur within the 500-foot buffer. The mapped wetlands are primarily classified as riverine habitat. However, based on aerial and field reviews, it appears this habitat no longer exists.

It is expected that impacts on wetland and surface water habitats will be minimal. However, avoidance and minimization along with mitigation strategies will be evaluated through the PD&E process.

It is anticipated that the effect on Wetlands will be **Minimal** for all Alternatives.

Next Steps:
A Draft NRE has been prepared, as part of the PD&E Study. FDOT will continue to coordinate with the agencies including SFWMD, USACE, USEPA, NMFS, and USFWS throughout the PD&E Study, as applicable, for the wetland evaluation and anticipated permitting needs.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites

- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas

The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

2 US Army Corps of Engineers (04/03/2026 12:08:03 PM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Heather M Mason

Coordination Document:

Permits

Federal 404 permit
Comments:
Impacts to aquatic resources would require a permit under Section 404 of the Clean Water Act.

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

The resources include roadside ditches, and canals, and possibly minimal wetland habitat.

Comments on Effects to Resources

Impact to roadside ditches and canals is typically offset by relocation of the ditches and canals. Impacts to wetlands, if they exist within the project area, are expected to be minimal. The area is heavily urban and built-up. Effects could include loss of urban wildlife habitat and other wetland functions.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Please design the project to avoid and minimize impacts to wetlands as much as is practicable. Please be aware, if the project requires an individual permit, an alternatives analysis done in accordance with both NEPA and the Clean Water Act 404(b)(1) Guidelines will be required. If an individual permit is needed, FDOT will need to demonstrate the the proposed alignment is the least environmentally damaging practicable alternative (LEDPA). If there are unavoidable impacts to wetlands, please propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

The resources include roadside ditches, and canals, and possibly minimal wetland habitat.

Comments on Effects to Resources

Indirect effects may include temporary turbidity within the adjacent waterbodies during construction. If there are impacts to wetlands, there may be secondary impacts to adjacent wetland areas.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Please design the project to avoid and minimize impacts to wetlands as much as practicable. If wetlands are impacted, please evaluate secondary impacts to adjacent remaining wetlands and propose compensatory mitigation that complies with the 2008 mitigation rule, including the mitigation hierarchy.

2 US Environmental Protection Agency (04/03/2026 09:34:28 AM)

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified approximately 0.2 acres of palustrine and 2.78 acres of riverine wetlands within the 500-foot project buffer. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 304.9 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. 230.10(d), the EPA assigns a Minimal Degree of Effect to Wetlands and Surface Waters for the North 2 Alternative.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

40 C.F.R. 230.10(d) requires appropriate and practicable steps to minimize potential adverse impacts of the discharge on the aquatic ecosystem. Potential actions to minimize adverse effects are set forth in 40 C.F.R. Part 230, subpart H. Compensatory mitigation is required to offset aquatic impacts resulting from any unavoidable impacts consistent with 40 C.F.R. Part 230, Subpart J, including 40 C.F.R. 230.91(c), 40 C.F.R. 230.93(a), and 40 C.F.R. 230.93(b)(1).

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

0 National Marine Fisheries Service (03/26/2026 10:51:50 AM)

Wetlands and Surface Waters Degree of Effect:

None

Reviewed By:

Kurtis Gregg

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

2 **US Fish and Wildlife Service (03/13/2026 11:49:03 AM)**

Wetlands and Surface Waters Degree of Effect:

Minimal

Reviewed By:

Amber Rhodes

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources.
Dependent upon the alternative(s) selected, the proposed project is expected to result in minimal to moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process.

Comments on Effects to Resources

Wetlands provide important habitat for fish and wildlife. Best Management Practices (BMPs) should be used to prevent degradation of wetland and other aquatic resources from erosion, siltation, and nutrient discharges associated with the project site. We recommend that the project be designed to avoid these valuable resources to the greatest extent practicable. If impacts to wetlands are unavoidable, we recommend that the FDOT provides mitigation that fully compensates for the loss of wetland resources.
Dependent upon the alternative(s) selected, the proposed project is expected to result in minimal to moderate involvement with wildlife and habitat resources. If it is determined the project will affect and federally listed species and/or their habitat, the Department will initiate consultation with FWS during the Project Development process.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Water Resources

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Water Resources topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Water quality and quantity impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- Potential adverse impacts to quality and quantity of surface waters. [SFWMD]
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity. A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements

on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity. [SFWMD]
- The project is within the St. Lucie River and Estuary BMAP. Stormwater runoff from the road surface may alter adjacent wetlands and surface waters through increased pollutant loading. Increased runoff carrying oils, greases, metals, sediment, and other pollutants from the increased impervious surface will be of concern. Natural resource impacts within and adjacent to the proposed road right-of-way will likely include alteration of the existing surface water hydrology and natural drainage patterns, and reduction in flood attenuation capacity of area creeks, ditches, and sloughs as a result of increased impervious surface within the watershed. [FDEP]
- Every effort should be made to maximize the treatment of stormwater runoff from the proposed road project to prevent ground and surface water contamination. 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. [FDEP]
- Based on the information provided in the FDOT GIS-generated analysis for Water Resources, the St. Lucie River (South Fork) (WBID: 3210) and
- Willoughby Creek (WBID: 3208B) do not attain standards within the 500-foot project buffer. Additionally, the South Fork of the St. Lucie River is impaired by nutrients and Willoughby Creek is impaired for mercury. In the FDOT Environmental Screening Tool (EST), the FDOT acknowledges that the proposed project area is within the 500-foot buffer for the buffer for the Loxahatchee Basin Management Plan. Additionally, the FDOT GIS generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, 40 CFR 122.26, and the areas susceptibility to contamination, the EPA assigns a Moderate Degree of Effect to Water Resources for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. [USEPA]
- A Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit is required for stormwater discharges from any construction activity disturbing one acre or more of land, or less than one acre of land, but that is part of a common plan of development or sale that will ultimately disturb one or more acres of land (40 CFR 122.26). The USACE should contact the Florida Department of Environmental Protection for applicable NPDES permit(s). [USEPA]
- Erosion control and sediment control measures should be implemented in accordance with the State's NPDES construction permit requirements and construction and development effluent limitations at 40 CFR 450.21. [USEPA]

Summary:
The study area is located within the St. Lucie River Watershed. None of the Alternatives are located within the boundaries of a sole source aquifer or an Outstanding Florida Waters (OFW). However, the study area does fall within one Principal Aquifer System of the State of Florida (surficial aquifer system). Further analysis will be required during the PD&E Study to determine if any of the Alternatives would have any negative impact on the aquifer. Additionally, the St. Lucie River is ultimately the receiver of all drainage waters from the project corridors.

There are two master National Pollutant Discharge Elimination System (NPDES) stormwater permits within the 500-foot project buffer: Martin County and the City of Stuart. According to the Florida Department of Health Likely On-Site Septic System GIS data, there are no known or likely septic systems within the 500-foot project buffer. There are two FDEP Waters Not Attaining Standards (WNAS) within the 500-foot project buffer: Willoughby Creek (WBID: 3208B) and St. Lucie River (South fork) (WBID: 3210). Lastly, there is one surface water Basin Management Action Plan (BMAP) within the 500-foot project buffer: St. Lucie - Loxahatchee.

More detailed stormwater treatment and attenuation facilities will be evaluated in the PD&E phase to minimize adverse effects on nearby waterbodies. A Water Quality Impact Evaluation (WQIE) is currently in progress and will comply with the goals of the Clean Water Act (CWA). In addition, a Pond Siting Report is currently being prepared to identify alternatives for stormwater management and treatment. The effects on water quality and means to avoid, minimize and mitigate impacts will be evaluated during the study based on the project specific effects from the Alternatives developed during the study.

It is anticipated that the effect on Water Quality and Quantity will be **Moderate** for all Alternatives.

Next Steps:
A Water Quality Impact Evaluation and Pond Siting Report are currently being prepared as part of the PD&E Study.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Water Resources Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands

- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity

- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains

- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination

The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas

The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat

- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites

- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

2 **FL Department of Environmental Protection (04/03/2026 11:36:32 AM)**

Water Resources Degree of Effect:

Minimal

Reviewed By:

Lindsay Weaver

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

The project is within the St. Lucie River and Estuary BMAP. Stormwater runoff from the road surface may alter adjacent wetlands and surface waters through increased pollutant loading. Increased runoff carrying oils, greases, metals, sediment, and other pollutants from the increased impervious

surface will be of concern. Natural resource impacts within and adjacent to the proposed road right-of-way will likely include alteration of the existing surface water hydrology and natural drainage patterns, and reduction in flood attenuation capacity of area creeks, ditches, and sloughs as a result of increased impervious surface within the watershed.

Comments on Effects to Resources

Every effort should be made to maximize the treatment of stormwater runoff from the proposed road project to prevent ground and surface water contamination. 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.

Basin Management Action Plan has been created for the St. Lucie River and Estuary BMAP. Please see https://floridadep.gov/dear/water-quality-restoration/content/basin-management-action-plans-bmaps for additional information.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 **US Environmental Protection Agency (04/03/2026 10:53:27 AM)**

Water Resources Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT GIS-generated analysis for Water Resources, the St. Lucie River (South Fork) (WBID: 3210) and Willoughby Creek (WBID: 3208B) do not attain standards within the 500-foot project buffer. Additionally, the South Fork of the St. Lucie River is impaired by nutrients and Willoughby Creek is impaired for mercury. In the FDOT Environmental Screening Tool (EST), the FDOT acknowledges that the proposed project area is within the 500-foot buffer for the buffer for the Loxahatchee Basin Management Plan. Additionally, the FDOT GIS-generated analysis identified the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 304.9 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, 40 CFR 122.26, and the areas susceptibility to contamination, the EPA assigns a Moderate Degree of Effect to Water Resources for the North 2 Alternative.

Comments on Effects to Resources

A Clean Water Act National Pollutant Discharge Elimination System (NPDES) permit is required for stormwater discharges from any construction activity disturbing one acre or more of land, or less than one acre of land, but that is part of a common plan of development or sale that will ultimately disturb one or more acres of land (40 CFR 122.26). The USACE should contact the Florida Department of Environmental Protection for applicable NPDES permit(s).

Recommended Avoidance, Minimization, and Mitigation Opportunities

Erosion control and sediment control measures should be implemented in accordance with the State's NPDES construction permit requirements and construction and development effluent limitations at 40 CFR 450.21.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Floodplains

Coordinator Summary Degree of Effect: 2 **Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Floodplains topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Floodplains impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- There are potential impacts to existing floodplains. [SFWMD]
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation. A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain. [SFWMD]

Summary:
All three of the build Alternatives are located outside of the 100-year floodplain. However, any potential impacts on the floodplain will be considered and evaluated during the PD&E Study and documented within the Location Hydraulic Report.

It is anticipated that the effect on Floodplains will be **Minimal** for all Alternatives.

Next Steps:
A Location Hydraulics Report in accordance with the FDOT PD&E Manual will be prepared during the PD&E Study. As FDOT is committed to meeting the conditions for issuance of all required state and federal environmental permits, adverse impacts to floodplains will not occur.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Floodplains Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains

- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete
Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Natural - Protected Species and Habitat

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Protected Species and Habitat topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Primary wildlife issues include potential loss of wildlife habitat from the project construction, and potential water quality degradation because of stormwater runoff from the impervious surface. [FWC]
- The South 1 Alternative has the least potential to impact gopher tortoise habitat and would be preferred. Direct and indirect effects of this project could be moderate, if roadway construction uses Best Management Practices (BMPs), permit special conditions are followed, avoidance and minimization measures are used to decrease impacts to wildlife and habitat along the roadway, and in-water construction protection measures are followed. [FWC]
- FWC recommends the PD&E Study address natural resources by: 1. The NRE should include plant community mapping and wildlife surveys for the occurrence of wildlife species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened should be performed, both along the ROW and within sites proposed for drainage retention areas (DRAs); 2. Based on the survey results, a plan should be developed to address direct, indirect, and cumulative effects of the project on wildlife and habitat resources, including listed species. Avoidance, minimization, and mitigation measures should also be formulated and implemented. DRAs and equipment staging areas should be in previously disturbed sites to avoid habitat destruction or degradation. The plan should address specific habitat needs which are biologically compatible with the recovery of the target species; 3. For impacts to other state-listed species, refer to the permitting guidelines in the FWC's Species Conservation Measures and Permitting Guidelines. Specifically, the permitting guidelines include methods for avoidance as well as options and state requirements for minimizing and mitigating potential impacts. [FWC]
- Resources within the 500-foot project buffer area that may be impacted by project activities include 277 acres of Priority 1 - 4 aquifer recharge area; 63 acres of P3 natural communities; 67 acres of P4 - P6 Significant Surface Waters; and 67 acres of P4 Surface Water Resource Priorities. Also present within the 500-foot project buffer area are USFWS Consultation Areas for Atlantic Coast plants (74 acres); Piping Plover (193 acres); Crested Caracara (277 acres); Red-cockaded Woodpecker (277 acres); Florida Scrub-Jay (277 acres); Snail Kite (277 acres); Florida Bonneted Bat (277 acres); and West Indian Manatee (193 acres); plus a Wood Stork Core Foraging Area (277 acres). Additional listed plants that could potentially occur within the project footprint are tropical ironwood and Johnson's seagrass. Regarding the Florida black bear's range, occurrences are considered rare within the 100- to 500-foot project buffer. [FDACS]
- There may be habitat fragmentation effects for animals with large home ranges, including Florida black bear. Project activities may result in soil disturbance, which favors the introduction and spread of invasive plant species. [FDACS]
- Use best management practices, including containment booms and silt fencing, to protect significant surface waters from contaminants, erosion, and other construction impacts. Surveys for rare and listed plants should be conducted, and if present, should be protected to the degree possible, or translocated to a suitable alternative site by an organization such as the Florida Native Plant Society. Caution should be exercised

around invasive plants so as not to cause further spread; decontaminating equipment and machinery to prevent the spread of invasive, non-native plants is recommended. Revegetating disturbed soil with plants native to the area is advised where feasible. [FDACS]
- Species of concern that have the potential to occur in this area is Florida panther, southeastern beach mouse, Florida bonneted bat, Audubon's crested caracara, eastern black rail, Everglade snail kite, Florida scrub jay, eastern indigo snake, American crocodile, American alligator, monarch butterfly, Beach jacquemontia, four-petal pawpaw, Tiny Polygala (Polygala smallii), and the Florida perforate cladonia. [USFWS]
- Coordination with the Office of Migratory birds will be needed for all projects involving migratory birds and eagles, please contact Ulgonda Kilpatrick in our Migratory Birds Permit Office. [USFWS]
- Florida has 229 species of plants found nowhere else in the world, and most of them are rare and declining. Diverse plant communities are essential for maintaining a healthy environment for fish, wildlife, and people, and improved land conservation and land management can help restore these rare plants. To this end, the Service worked with the Florida Department of Agriculture and Consumer Services, and many universities and non-profits, to establish the Florida Rare Plant Conservation Endowment. The Endowment funds projects that are critical to preventing the extinction of Florida's rare plants. To ensure the survival of Florida's unique and rare plants the Service encourages the applicant to make a voluntary contribution of $5,000 to the Endowment. All contributions are voluntary and tax deductible. [USFWS]

Summary:
For all three build Alternatives, the 500-foot project buffer contains the following US Fish and Wildlife Service Consultation Areas for federally listed species: West Indian manatee, piping clover, red-cockaded woodpecker, Florida scrub-jay, Everglade snail kite, crested caracara, and Florida bonneted bat. However, based on a review of the study area, there does not appear to be suitable habitat for any of these species except the Florida bonneted bat. In addition to the consultation areas, the project lies within a wood stork Core Foraging Area, however, the project does not appear to contain any suitable foraging habitat for the wood stork. According to the Florida Fish and Wildlife Conservation Commission (FWC) GIS data, the study area is within the watershed (South Fork of the St. Lucie River) that contains rare and imperiled fish (mountain mullet). There have been no FWC observations of any listed species within the 500-foot buffer.

It is anticipated that the effect on wildlife and habitat will be **Moderate** for all Alternatives.

Next Steps:
A Draft NRE has been prepared as part of the PD&E Study. As this document is only in draft stage, it has not yet been forwarded to USFWS or FWC for review and concurrence. To date, commitments related to listed species have not yet been established.

3 FL Fish and Wildlife Conservation Commission (04/10/2026 02:52:06 PM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Laura DiGruttolo

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

No additional fish and wildlife resource issues of concern were identified by FWC staff.

Comments on Effects to Resources

Primary wildlife issues associated with this project include potential loss of wildlife habitat from the project construction, and potential water quality degradation because of stormwater runoff from the impervious surface.
Based on the project information provided, FWC staff believe that the South 1 alternative has the least potential to impact gopher tortoise habitat and would be preferred. Direct and indirect effects of this project could be moderate, if roadway construction uses Best Management Practices (BMPs), permit special conditions are followed, avoidance and minimization measures are used to decrease impacts to wildlife and habitat along the roadway, and in-water construction protection measures are followed.

Recommended Avoidance, Minimization, and Mitigation Opportunities

We recommend that the PD&E Study address natural resources by including the following measures for conserving fish and wildlife and habitat resources that may occur within and adjacent to the project area.
1. The Preliminary Environmental Discussion Report referenced FDOT's commitment to prepare a Natural Resources Evaluation (NRE). This should include plant community mapping and wildlife surveys for the occurrence of wildlife species listed by the Federal Endangered Species Act as Endangered or Threatened, or by the State of Florida as Threatened should be performed, both along the ROW and within sites proposed for drainage retention areas (DRAs). Basic guidance for conducting wildlife surveys may be found in the Florida Wildlife Conservation Guide at http://myfwc.com/conservation/value/fwcg/.
2. Based on the survey results, a plan should be developed to address direct, indirect, and cumulative effects of the project on wildlife and habitat resources, including listed species. Avoidance, minimization, and mitigation measures should also be formulated and implemented. DRAs and equipment staging areas should be in previously disturbed sites to avoid habitat destruction or degradation. The plan should address specific habitat needs which are biologically compatible with the recovery of the target species. For guidance in this effort, please review the Species Conservation Measures and Permitting Guidelines (https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/) if they are available, or the Species Action Plans (http://myfwc.com/wildlifehabitats/imperiled/species-action-plans/.
3. For impacts to other state-listed species, refer to the permitting guidelines in the FWC's Species Conservation Measures and Permitting Guidelines at https://myfwc.com/wildlifehabitats/wildlife/species-guidelines/
Specifically, the permitting guidelines include methods for avoidance as well as options and state requirements for minimizing and mitigating potential impacts.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 FL Department of Agriculture and Consumer Services (03/26/2026 11:37:07 AM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Mark Kiser

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Resources within the 500-foot project buffer area that may be impacted by project activities include 307 acres of Priority 1 - 4 aquifer recharge area; 63 acres of P3 natural communities; 70 acres of P4 - P6 Significant Surface Waters; and 70 acres of P4 - P5 Surface Water Resource Priorities. Also present within the 500-foot project buffer area are USFWS Consultation Areas for Atlantic Coast plants (94 acres); Piping Plover (192 acres); Crested Caracara (307 acres); Red-cockaded Woodpecker (307 acres); Florida Grasshopper Sparrow (0.7 acres); Florida Scrub-Jay (307 acres); Snail Kite (307 acres); Florida Bonneted Bat (307 acres); and West Indian Manatee (223 acres); plus a Wood Stork Core Foraging Area (307 acres). Additional listed plants that could potentially occur within the project footprint are tropical ironwood and Johnson's seagrass. Regarding the Florida black bear's range, occurrences are considered rare within the 100- to 500-foot project buffer.

Comments on Effects to Resources

There may be habitat fragmentation effects for animals with large home ranges, including Florida black bear. Project activities may result in soil disturbance, which favors the introduction and spread of invasive plant species.

The North 2 alternative appears to have most impacts to protected species and habitats, so is the least preferred alternative amongst the 3 choices. North 1 would be the 2nd preferred alternative, and South 1 the most preferred.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Use best management practices, including containment booms and silt fencing, to protect significant surface waters from contaminants, erosion, and other construction impacts. Surveys for rare and listed plants should be conducted, and if present, should be protected to the degree possible, or translocated to a suitable alternative site by an organization such as the Florida Native Plant Society. Caution should be exercised around invasive plants so as not to cause further spread; decontaminating equipment and machinery to prevent the spread of invasive, non-native plants is recommended. Revegetating disturbed soil with plants native to the area is advised where feasible.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Habitat for flora and fauna; natural communities/ecosystems; water bodies/water quality

Comments on Effects to Resources

Indirect effects include reduced habitat quality in surrounding private lands from a combination of conversion to other land uses with a higher population density and increased difficulty for remaining private landowners to manage their property as silvicultural, agricultural, or for conservation purposes. This land use conversion could also have negative implications for surface and groundwater quality thus affecting water resources and wetland habitat farther away from the project site. Increased traffic may result in increased mortality for wildlife. Increased traffic noise may have negative impacts for wildlife as well, making it more difficult to find food or reproduce.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Use BMPs to protect water quality, habitat, and wildlife. Properly sited vegetation can help with noise control. The best sound buffers consist of dense, native vegetation that extends down to the ground. A combination of evergreen trees and shrubs can provide year-round soundproofing. The need for structural noise barriers should also be examined.

3 US Fish and Wildlife Service (03/13/2026 11:48:24 AM)

Protected Species and Habitat Degree of Effect:

Moderate

Reviewed By:

Amber Rhodes

Coordination Document:

Technical Studies

Protected Species and Habitat Analysis (contained in Natural Resources Evaluation)
Comments:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

The Service has reviewed our Geographic Information System (GIS) database for recorded locations of federally 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 federal listed species may occur in or near the project area. Florida panther, southeastern beach mouse, Florida bonneted bat, Audubon's crested caracara, eastern black rail, Everglade snail kite, Florida scrub jay, eastern indigo snake, American crocodile, American alligator, monarch butterfly, Beach jacquemontia, four-petal pawpaw, Tiny Polygala (*Polygala smallii*), and the Florida perforate cladonia.

Comments on Effects to Resources

- Florida panther (*Puma concolor coryi*)- Telemetry and mortality data does not show occurrences of this species within the Action Area.
- Southeastern beach mouse (*Peromyscus polionotus niveiventris*)- The Southeastern beach mouse is the largest beach mouse; it averages 139 millimeters in total length and 52 millimeters in tail length. Historically, the SEBM was found along approximately 360 kilometers (km) of coastline from Volusia County south to Broward County, Florida (Humphrey et al. 1987). By the time the subspecies was listed in 1989, SEBM were only

known to occur in the coastal dune habitats of Volusia County south to Indian River County, twenty percent of the historic range. The range is now appears to be restricted to the northern 80 km of coastline in Volusia and Brevard counties within the coastal dune and strand habitats between Ponce Inlet and Canaveral Entrance Channel, twenty-two percent of the historic range. The Action Area does not contain suitable habitat for this species.

- Florida bonneted bat (*Eumposaracara floridanus* (FBB)): This project is located in the geographic range of the endangered Florida bonneted bat. For guidance on FBB surveys, effect determinations, and consultations with the Service, we recommend that the Florida Department of Transportation (FDOT) consult the Service's 2024 FBB Consultation Key.
- Audubon's crested caracara (*Caracara plancusaudubonii*)- This species is known to occur within the Action Area, but is not known to nest within the Action Area. If evidence of nesting is discovered (i.e. observed nest, courtship behavior, carrying nest material or food, etc.) in or within 300 meters of the work area, the Applicant will suspend work and reinitiate consultation with the Service.
- Eastern black rail *(Laterallus jamaicensis ssp. Jamaicensis)*- Black rails require dense vegetative cover that allows movement underneath the canopy. This species can be found in a variety of salt, brackish, and freshwater marsh habitats that can be tidally or non-tidally influenced, and plant structure is considered more important than plant species composition in predicting habitat suitability. Soils are moist to saturated, occasionally dry, and interspersed with, or adjacent to, very shallow water of 1 to 6 centimeters. Suitable habitat for this species does not occur within the project area.
- Everglade snail kite (*Rostrhamus sociabilis plumbeus*)- This project occurs within the known range of the Everglades snail kite. This species is not known to nest within the Action Area, but may occur within the project area. This species would most likely avoid the project area for the duration of construction activities.
- Wood Stork (*Mycteria americana*)- The final rule to delist this species goes into effect March 12, 2026. Consultation for this species is not longer required under section 7 of the Endangered species Act, however, consultation may still be required for this species under the Migratory Bird Treat Act. See the Migratory Birds and Bald Eagle section below.
- Florida Scrub Jay (*Aphelocoma coerulescens*)-This species is known to occur within the Action Area, but is not known to nest within the Action Area.
- Eastern Indigo Snake (*Drymarchon couperi*)- The eastern indigo snake is a large, non-venomous snake with populations occurring in portions of Florida and southeastern Georgia. Historically, the eastern indigo snake occurred throughout Florida and in the coastal plain of Georgia, Alabama and Mississippi. The species prefers upland habitat types (e.g. longleaf pine sandhills, scrub, pine flatwoods, tropical hardwood hammocks, and coastal dunes), but also uses a variety of lowland and human-altered habitats. They may move seasonally between upland and lowland habitats, especially in northern portions of their range. Throughout their range, eastern indigo snakes use below-ground shelter sites for refuge, breeding, feeding and nesting. They depend on gopher tortoise burrows in xeric sandhill habitats throughout the northern portion of the species' range for overwintering shelter sites. Recommend that 2024 standard protection measures for the eastern indigo snake be implemented for this project.
- American Crocodile/Alligator: American crocodile (*Crocodylus acutus*): This project occurs within the range of the crocodile, but outside the range of nesting areas. Historic data shows that crocodiles are unlikely to occur within the Action Area and, as crocodiles are wary, would most likely avoid the project area for the duration of the project.
- Federally Listed Plants/lichen- This project is within the range of federally listed plant species, the Service recommends that a survey be conducted during the appropriate time of year by species and in accordance with the Service's survey guidelines for plants. Survey Calendar for Listed Plant Species. Beach jacquemontia (*Jacquemontia reclinata*), four-petal pawpaw (*Asimina tetramera*), Tiny Polygala (*Polygala smallii*), and a lichen the Florida perforate cladonia (*Cladonia perforata*).
- Monarch Butterflies (*Danaus plexippus*)- The Service proposed to list the monarch butterfly as a threatened species and designate critical habitat under the Endangered Species Act of 1973, as amended (Act) on December 12, 2024 (F.R. Vol. 89, No. 239). Consultation on this species at this time is at the discretion of your agency. If this species is listed prior to the completion of this project, consultation with the Service may need to be reinitiated.

Migratory Birds and Bald Eagle

Coordination with the Office of Migratory birds will be needed for all projects involving migratory birds and eagles, please contact Ulgonda Kilpatrick in our Migratory Birds Permit Office at:
Migratory Birds Permit Office
1875 Century Boulevard, NE
Atlanta, Georgia 30345
352-406-6780 cell (MAIN)

Florida has 229 species of plants found nowhere else in the world, and most of them are rare and declining. Diverse plant communities are essential for maintaining a healthy environment for fish, wildlife, and people, and improved land conservation and land management can help restore these rare plants. To this end, the Service worked with the Florida Department of Agriculture and Consumer Services, and many universities and non-profits, to establish the Florida Rare Plant Conservation Endowment. The Endowment funds projects that are critical to preventing the extinction of Florida's rare plants. To ensure the survival of Florida's unique and rare plants the Service encourages the applicant to make a voluntary contribution of $5,000 to the Endowment. All contributions are voluntary and tax deductible.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Natural - Coastal and Marine

Coordinator Summary Degree of Effect:	0	**None**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Coastal and Marine topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Coastal and marine impacts were reviewed as N/A = Not applicable or no involvement. [SFWMD]

- Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH. [NMFS]
- Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of the NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in the project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation. [NMFS]
- Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act. [NMFS]

Summary:
None of the build Alternatives are within a Coastal Barrier Resource Area (CBRA) and no Essential Fish Habitat (EFH) is present within the project corridors.

It is anticipated that the effect on Coastal and Marine will be **None** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Coastal and Marine Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains

- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete
Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

0 **National Marine Fisheries Service (03/26/2026 10:51:50 AM)**

Coastal and Marine Degree of Effect:

None

Reviewed By:

Kurtis Gregg

Coordination Document:

No Involvement

Direct Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

Essential Fish Habitats, Endangered Species Act listed species under NMFS' purview, wetlands and other surface waters.

Comments on Effects to Resources

Magnuson-Stevens Act: Based on the project location, information provided in the ETDM website, and GIS-based analysis of impacts, NOAA's National Marine Fisheries Service (NMFS) concludes the proposed work would not directly or indirectly impact areas that support essential fish habitat (EFH) or NOAA trust fishery resources. NMFS has no comments or recommendations to provide pursuant to the EFH requirements of the Magnuson-Stevens Fishery Conservation and Management Act (P.L. 104-297); and this project will not require an EFH Assessment. Further consultation on this matter is not necessary unless future modifications are proposed and you believe that the proposed action may result in adverse impacts to EFH.

Endangered Species Act: We are not aware of any threatened or endangered species or critical habitat under the purview of NMFS that occur within the project area. However, it should be noted that a "no effect" determination must be made by the action agency and the reasoning underlying the determination should be documented in a project file. Please coordinate closely with the U.S. Fish and Wildlife Service for other species listed under the Endangered Species Act that may require consultation.

Fish and Wildlife Coordination Act: Based on the project location, information provided in the ETDM portal, and GIS based analysis of impacts, NMFS concludes the proposed work would not impact tidal freshwater wetland areas that provide support and are connected to NOAA trust fishery resources in St. Lucie River. Therefore, we do not have recommendations for the project under the Fish and Wildlife Coordination Act.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Noise

Coordinator Summary Degree of Effect:	3	**Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
Two residential areas are located within the study area for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. A review of the GIS Analysis indicates these consist of some fixed single-family units (2-5 dwelling units per acre) and multiple dwelling units, low rise (two stories or less). There are currently no noise barriers along the project corridor.

North 2 Alternative
There is one homeowner and condominium association (Circle Bay Yacht Club I) within the 500-foot buffer. There is one recreational facility (YMCA of the Treasure Coast) and one assisted living facility (Stuart Senior Living) within the 500-foot buffer. Residential land use within the buffer consists of fixed single-family units, which account for 21.36 percent of the residential area, and multiple dwelling units (low-rise), which account for 1.83 percent.

A Noise Study Report (NSR) is currently being prepared during the PD&E Study to identify unavoidable noise impacts, and an evaluation of abatement measures will occur where appropriate.

It is anticipated that the effect of Noise will be **Moderate** for all Alternatives.

Next Steps:
A Noise Study Report is currently being prepared as part of the PD&E Study.

No ETAT Reviews were submitted for the Noise Topic.

Physical - Air Quality

Coordinator Summary Degree of Effect:	2	**Minimal**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Air Quality topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Per section 109 of the Clean Air Act (42 U.S.C. 1857), the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) 40 C.F.R. 50 to protect public health and welfare and to maintain primary and secondary ambient air quality standards for prescribed air pollutants. The proposed project is in Martin County, Florida, an attainment area for all six criteria pollutants (ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, and small particulate matter). Per the April 2023 FDOT and EPA IA, the NAAQS (40 C.F.R. 50) status of attainment for the project area, and the information provided by the FDOT, the EPA assigns a Minimal degree of effect on air quality. [USEPA]
- In attainment areas where air quality meets the NAAQS (42 U.S.C. 1857), roadway expansion projects must ensure that they do not degrade the existing air quality or hinder efforts to maintain these standards. [USEPA]

Summary:
The study area is located within a US Environmental Protection Agency (USEPA) designated Air Quality Attainment Area for all the National Ambient Air Quality Standards under the criteria provided in the Clean Air Act. Therefore, the Clean Air Act conformity requirements do not apply to this project currently.

It is anticipated that the effect on Air Quality will be **Minimal** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **US Environmental Protection Agency (03/31/2026 04:37:17 PM)**

Air Quality Degree of Effect:

Minimal

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Per section 109 of the Clean Air Act (42 U.S.C. 1857), the Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS) 40 C.F.R. 50 to protect public health and welfare and to maintain primary and secondary ambient air quality standards for prescribed air pollutants. The proposed project is in Martin County, Florida, an attainment area for all six criteria pollutants (ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, and small particulate matter). Per the April 2023 FDOT and EPA IA, the NAAQS (40 C.F.R. 50) status of attainment for the project area, and the information provided by the FDOT, the EPA assigns a Minimal degree of effect on air quality.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

In attainment areas where air quality meets the NAAQS (42 U.S.C. 1857), roadway expansion projects must ensure that they do not degrade the existing air quality or hinder efforts to maintain these standards.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Contamination

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Contamination topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Contamination impacts were reviewed as minimum/little adverse effect on resources. [SFWMD]
- Contamination consists of turbidity in surface waters. [SFWMD]
- The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts. Dewatering permit shall be obtained, if dewatering is required. Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete. [SFWMD]
- GIS data indicates that there are multiple contamination facilities within the 500-ft. project buffer zone. These include eight hazardous waste facilities and eight FDEP storage tank contamination monitoring sites within the 500-ft project buffer. [FDEP]

- Any land clearing or construction debris must be characterized for proper disposal. Potentially hazardous materials must be properly managed in accordance with Chapter 62-730, F.A.C. In addition, any solid wastes or other non-hazardous debris must be managed in accordance with Chapter 62 -701, F.A.C. Petroleum cleanups must be managed in accordance with Chapter 62-770, F.A.C. [FDEP]
- Please be advised that a new rule, 62-780, F.A.C., became effective on April 17, 2005. In addition, Chapters 62-770, 62-777, 62-782 and 62-785, F.A.C., were amended on April 17, 2005, to incorporate recent statutory changes. Depending on the findings of the environmental assessments, there are "off-property" notification responsibilities potentially associated with this project. These rules may be found at the following website: http://www.dep.state.fl.us/waste/ [FDEP]
- Based on our experience, the accurate identification, characterization and cleanup of sites requires experienced consulting personnel and laboratory support, management commitment of the project developers and their representatives, and will likely be very time-consuming. Early planning to address these issues is essential to meet construction and cleanup (if required) timeframes. Innovative technologies, such as special storm water management systems, engineering controls and institutional controls, such as conditions on water production wells and dewatering restrictions, may be required, depending on the results of environmental assessments. [FDEP]
- Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified potential sources of sub-surface contamination within the 500-foot project buffer: 8 hazardous waste facilities, 5 petroleum contamination monitoring sites, 8 storage tank contamination monitoring sites, 4 State Underground Petroleum Environmental Response (SUPER) Act Risk Sites, 23 SUPER Act Wells, and 9 FDEP Environmental Restoration Integrated Cleanup (ERIC) sites. Additionally, The FDOT generated GIS analysis for contamination states that the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 276.88 acres (100% of the project area). Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. Part 280, Subpart F, the EPA assigns a Moderate degree of effect to contamination due to the area's overall sensitivity and susceptibility to contamination. [USEPA]
- Releases from underground storage tanks (UST) must be remediated pursuant to RCRA Subtitle I, 40 C.F.R. Part 280, Subpart F - Release Response and Corrective Action for UST Systems Containing Petroleum or Hazardous Substances 280.60 General. Mentioned above is the federal regulation but the State of Florida is directly responsible for implementation of the UST program. [USEPA]
- RCRA facilities that treat, store, or dispose of hazardous waste are required to clean-up releases of hazardous constituents to the environment under one of the following statutory authorities: RCRA 3004(u), 3004(v), 3008(a), 3008(h), 3013, or 7003. According to 40 CFR 264.101, facilities must conduct corrective actions for all releases of hazardous constituents from any solid waste management unit or hazardous waste management unit and must implement corrective actions beyond the facility boundary. [USEPA]
- Prior to acquiring ownership or control of a potentially contaminated property, all parties, are encouraged to perform an environmental site assessment, i.e., conduct "all appropriate inquiries" (AAI) under, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601(35)(B)(i)), 40 C.F.R. Part 312, to ensure they make informed decisions regarding the property's environmental conditions. This information can help ensure a new owner's activities do not disturb or exacerbate site contamination. [USEPA]

Summary:
According to the ETDM Contamination GIS layer, there are no solid waste facilities within the 500-foot buffer for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additional contamination resources, including hazardous waste facilities, storage tank contamination monitoring sites, biomedical waste facilities, and brownfield areas associated each Alternative are described below.

North 2 Alternative
There are nine (9) FDEP hazardous waste facilities (EPA ID: FLD056933906, FLD982082216, FLD982143802, FLD982174963, FLR000097279, FLR000120675, FLR000154369, FLR000190082, and FLR000234807) and nine (9) FDEP storage tank contamination monitoring sites (Facility ID: 8520085, 8520105, 8626173, 8629919, 8630058, 8736869, 9602023, 9811879, and 9817168) within the 500-foot buffer. Additionally, there are six (6) FDOH biomedical waste facilities (Permit Number: 43-64-00091, 43-64-00684, 43-64-00995, 43-64-00244, 43-64-1426512, and 43-64-1696459) within the 500-foot buffer. There are no FDEP brownfield areas within the 500-foot buffer.

A Contamination Screening Evaluation Report (CSER) is currently being prepared as part of the PD&E Study to document and update any potential contamination sources within the project vicinity. Avoidance, minimization, and mitigation strategies as well as any necessary special construction provisions will be developed based on this documentation, to avoid impacts, and to ensure human health and safety if avoidance is not possible.

It is anticipated that the effect of Contamination will be **Moderate** for all Alternatives.

Next Steps:
A CSER is currently being prepared as part of the PD&E Study. Regulated facilities identified within search criteria established in the FDOT PD&E Manual will be assessed to determine the need for avoidance, minimization, or remediation prior to construction or during construction.

2 South Florida Water Management District (04/03/2026 01:38:12 PM)

Contamination Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;

whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

3 FL Department of Environmental Protection (04/03/2026 11:38:21 AM)

Contamination Degree of Effect:

Moderate

Reviewed By:

Lindsay Weaver

Coordination Document:

PD&E Support Document As Per PD&E Manual

Direct Effects

Identified Resources and Level of Importance

GIS data indicates that there are multiple contamination facilities within the 500-ft. project buffer zone.
These include nine hazardous waste facilities and nine FDEP storage tank contamination monitoring sites within the within the 500-ft project buffer.

Comments on Effects to Resources

Any land clearing or construction debris must be characterized for proper disposal. Potentially hazardous materials must be properly managed in accordance with Chapter 62-730, F.A.C. In addition, any solid wastes or other non-hazardous debris must be managed in accordance with Chapter 62-701, F.A.C. Petroleum cleanups must be managed in accordance with Chapter 62-770, F.A.C.

Please be advised that a new rule, 62-780, F.A.C., became effective on April 17, 2005. In addition, Chapters 62-770, 62-777, 62-782 and 62-785, F.A.C., were amended on April 17, 2005, to incorporate recent statutory changes. Depending on the findings of the environmental assessments, there are "off-property" notification responsibilities potentially associated with this project. These rules may be found at the following website: http://www.dep.state.fl.us/waste/

Based on our experience, the accurate identification, characterization and cleanup of sites requires experienced consulting personnel and laboratory support, management commitment of the project developers and their representatives, and will likely be very time-consuming. Early planning to address these issues is essential to meet construction and cleanup (if required) timeframes. Innovative technologies, such as special storm water management systems, engineering controls and institutional controls, such as conditions on water production wells and dewatering restrictions, may be required, depending on the results of environmental assessments.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

3 US Environmental Protection Agency (04/03/2026 10:53:05 AM)

Contamination Degree of Effect:

Moderate

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

Based on the information provided in the FDOT Environmental Screening Tool, the FDOT identified potential sources of sub-surface contamination within the 500-foot project buffer: 9 hazardous waste facilities, 5 petroleum contamination monitoring sites, 8 storage tank contamination monitoring sites, 4 State Underground Petroleum Environmental Response (SUPER) Act Risk Sites, 23 SUPER Act Wells, and 11 FDEP Environmental Restoration Integrated Cleanup (ERIC) sites. Additionally, The FDOT generated GIS analysis for contamination states that the 500-foot project buffer has a vulnerable rating from the Floridian Aquifer System Contamination Potential (FAVA) for 304.9 acres (100% of the project area).

Per the April 2023 FDOT and EPA IA, the information provided by the FDOT, and 40 C.F.R. Part 280, Subpart F, the EPA assigns a Moderate degree of effect to contamination due to the area's overall sensitivity and susceptibility to contamination.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

Releases from underground storage tanks (UST) must be remediated pursuant to RCRA Subtitle I, 40 C.F.R. Part 280, Subpart F - Release Response and Corrective Action for UST Systems Containing Petroleum or Hazardous Substances 280.60 General. Mentioned above is the federal regulation but the State of Florida is directly responsible for implementation of the UST program.

RCRA facilities that treat, store, or dispose of hazardous waste are required to clean-up releases of hazardous constituents to the environment under one of the following statutory authorities: RCRA 3004(u), 3004(v), 3008(a), 3008(h), 3013, or 7003. According to 40 CFR 264.101, facilities must conduct corrective actions for all releases of hazardous constituents from any solid waste management unit or hazardous waste management unit and must implement corrective actions beyond the facility boundary.

Prior to acquiring ownership or control of a potentially contaminated property, all parties, are encouraged to perform an environmental site assessment, i.e., conduct "all appropriate inquiries" (AAI) under, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. 9601(35)(B)(i)), 40 C.F.R. Part 312, to ensure they make informed decisions regarding the property's environmental conditions. This information can help ensure a new owner's activities do not disturb or exacerbate site contamination.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Physical - Infrastructure

Coordinator Summary Degree of Effect: 3 **Moderate**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
There are several major utilities identified on the ETDM Infrastructure Report within a 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative, as noted below. There are three (3) FDOT railroad crossings (FDOT Crossing Inventory Number: 272353M, 272929N, and 272942C) within the 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additionally, there is one (1) airport runway (Witham Field Runway) located within the 500-foot buffer of all Alternatives. All Alternatives will require coordination with the airport due to the project being located within the runway protection zone of the airport.

There are no USEIA natural gas pipelines or ORNL electric power transmission lines within the 500-foot buffer of all Alternatives.

North 2 Alternative
There are four (4) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313908, 1314516, and 1325501) within the 500-foot buffer.

Further review of utility impacts and any impacts to the airport will be conducted during the PD&E phase of the project. A Utility Assessment Package will be prepared during the PD&E Study.

It is anticipated that the effect on Infrastructure will be **Moderate** for all Alternatives.

Next Steps:
A Utility Assessment Package will be prepared during the PD&E Study. Direct effects to adjacent infrastructure resources and ROW will be minimized to the greatest extent practicable.

No ETAT Reviews were submitted for the Infrastructure Topic.

Physical - Navigation

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

No ETAT reviews were submitted for this issue.

Summary:
There are no navigable waterways in the project area.

It is anticipated that the effect on Navigation will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

N/A **US Army Corps of Engineers (04/03/2026 12:08:32 PM)**

Navigation Degree of Effect:

N/A / No Involvement

Reviewed By:

Heather M Mason

Coordination Document:

Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Special Designations - Special Designations

Coordinator Summary Degree of Effect: N/A **N/A / No Involvement**

Response By

FDOT District 4 07/08/2026

Comments

The following ETAT member comments were provided for the Special Designations topic for the **North 1 Alternative, North 2 Alternative,** and **South 1 Alternative**:

- Special designations impacts were reviewed as N/A = Not applicable or no involvement. [SFWMD]

Summary:

Outstanding Florida Waters
This project is not located within an Outstanding Florida Water.
It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for all Alternatives.

Aquatic Preserves
This project is not located within an aquatic preserve.
It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for all Alternatives.

Wild and Scenic Rivers
No FDEP wild and scenic rivers are located within the 500-foot buffer of all three Alternatives (North 1 Alternative, North 2 Alternative, and South 1 Alternative). Therefore, there will be no impact on wild and scenic rivers.
It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for all Alternatives.

Sole Source Aquifers
This study area is not located within a Sole Source Aquifer.
It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for all Alternatives.

Next Steps:
There are no Next Steps.

2 **South Florida Water Management District (04/03/2026 01:38:12 PM)**

Special Designations Degree of Effect:

Minimal

Reviewed By:

Jessica Huffman-Mainelli

Coordination Document:

Coordination Document Comments

Pre-Application Meeting Suggested with SFWMD.
Permit or Technical Study Required

Direct Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains - Minimum = Little adverse effect on resources

Contamination - Minimum = Little adverse effect on resources

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat - Minimum = Little adverse effect on resources

Historic and archaeological sites - Minimum = Little adverse effect on resources

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

Additional Comments (optional)

Pre-Application Meeting Suggested with SFWMD.

Indirect Effects

Identified Resources and Level of Importance

Wetlands - Minimum = Little adverse effect on resources

Coastal and marine - N/A = Not applicable or no involvement

Water quality and quantity - Minimum = Little adverse effect on resources

Floodplains

Contamination

Recreation areas - N/A

Special designations - N/A

Navigation - N/A

Wildlife and habitat

Historic and archaeological sites

Comments on Effects to Resources

Wetlands
- Potential adverse impacts to wetlands, including direct, indirect, temporary, and secondary impacts.

Coastal and marine - N/A

Water quality and quantity
- Potential adverse impacts to quality and quantity of surface waters.

Floodplains
- Potential impacts to existing floodplains.

Contamination
- Contamination, turbidity in surface waters

Recreation areas - N/A = Not applicable or no involvement

Special designations - N/A = Not applicable or no involvement

Navigation - N/A = Not applicable or no involvement

Wildlife and habitat
- Potential adverse impacts to wetland dependent wildlife species, including listed species.

Historic and archaeological sites
- Potential adverse impacts to historic or archeological resources.

Recommended Avoidance, Minimization, and Mitigation Opportunities

Wetlands
- At the time of application for an ERP, wetland and other surface water impacts will be evaluated. Impacts to wetlands and other surface waters must meet the criteria in Section 10 of the Applicant's Handbook, Vol. I, including Elimination and Reduction, as well as mitigation.
- A detailed environmental evaluation which identifies the locations and describes the wetland and surface water resource types (FLUCCS) and quality will be required. Further, the evaluation will need to quantify and qualify the proposed direct and secondary impacts to these resources, in accordance with AH I, 10.2.
- Avoidance and minimize: If wetland, surface water, and/or submerged aquatic resource impacts are proposed, a pre-application meeting is recommended to discuss elimination and reduction and potential mitigation plans, as well as the requirements for impacts to wetlands and surface waters.
- Practicable design modifications to reduce and eliminate direct and secondary impacts would be required min accordance with AH I, 10.2.1.
- A mitigation plan to offset any proposed direct, secondary, or unacceptable cumulative impacts to wetlands and surface waters would be required, in accordance with AH !, 10.2.8.

Coastal and marine - N/A

Water quality and quantity
- The project will be required to meet the criteria of ERP Applicant's Handbook, Vol II with respect to water quality and quantity.
- A determination of the effect of the project on water quality and quantity will be made at that time that an ERP application is submitted. Meeting ERP requirements on accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface waters resources in regard to water quality and quantity.

Floodplains
- Compensating storage will be required for any additional encroachment within a floodplain under the 100-year evaluation.
- A determination of the effect of the project on the floodplain will be made at that time that an ERP application is submitted. Meeting ERP requirements in accordance with the ERP Applicant's Handbook, Volumes I and II will presume no effect on surface water resources in regard to the floodplain.

Contamination
The project shall be designed to meet state water quality and quantity requirements, and best management practices, including turbidity curtains, will be utilized during project activities to prevent impacts.Dewatering permit shall be obtained, if dewatering is required.Based on the submitted information, it appears that dewatering operations may be performed as part of this project. Chapter 373, Florida Statutes (F.S.) indicates that a Water Use Permit may be required for dewatering activities. Because of the inseparable nature of water use and surface water management, and in accordance with Subsection 2.3(b), Environmental Resource Permit Applicant's Handbook Volume II, District staff will review the water use and ERP applications concurrently and final agency action will be taken once both applications are deemed complete

Recreation areas
The applicant must demonstrate that the project (is not contrary to/is clearly in) the public interest pursuant to Rule 62-330.302(1), F.A.C. and Section 373.414(1), F.S., using the following criteria:
whether the activity will adversely affect the public health, safety or welfare or property of others;
whether the activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species or their habitats;
whether the activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
whether the activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
whether the activity will be of temporary or permanent nature;
whether the activity will adversely affect or will enhance significant historical and archeological resources under the provision of Sec. 267.061; and the current condition and relative value of the functions being performed by areas affected by the proposed activity.

Special designations - N/A

Navigation - N/A

Wildlife and habitat
- Provide an Environmental Assessment with the ERP Application.
- Wildlife surveys should be completed.
- Coordinate with FFWCC prior to ERP Application submittal.
- If applicable, to protect manatees during in-water work, please submit a manatee management plan that includes the 2011 Standard Manatee Protection Conditions for In-Water Work. Any outfall structures greater than 8" in diameter and that will be partially or fully submerged at any tide stage will include a grate and a detail will be provided on the construction plans showing this.
- If applicable, the lighting design of the project should be designed with fixtures approved by the Florida Fish and Wildlife Conservation Commission (FWCC) to prevent impacts to sea turtles nesting and hatching on the beach. Please update the lighting plans to ensure proposed lighting fixtures and lamps are consistent with FWC Sea Turtle Lighting Guidelines and to demonstrate that this project will not adversely impact listed species or their habitats in accordance with Section 10.2.2 and 10.2.7, Volume I.

Historic and archaeological sites
- Coordinate with the Division of Historical Resources prior to ERP Application submittal. If DHR required a CRAS survey, this will need to be completed and concurrence from DHR shall be obtained prior to ERP issuance.

N/A **US Environmental Protection Agency (03/31/2026 01:47:48 PM)**

Special Designations Degree of Effect:

N/A / No Involvement

Reviewed By:

Amanetta Somerville

Coordination Document:

To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance

The GIS analysis for Special Designations did not identify a Sole Source Aquifer. Therefore, the EPA assigns No Involvement to Special Designations.

Comments on Effects to Resources

NA

Recommended Avoidance, Minimization, and Mitigation Opportunities

NA

Additional Comments (optional)

None Found.

Indirect Effects

Identified Resources and Level of Importance

None Found.

Comments on Effects to Resources

None Found.

Recommended Avoidance, Minimization, and Mitigation Opportunities

None Found.

Cumulative Effects Considerations

Topic	Organization	Review Date

Natural - Protected Species and Habitat

No Summary of Cumulative Effects Evaluation Considerations is available for this topic

US Fish and Wildlife Service 03/13/2026

Reviewed By:
Rhodes, Amber (03/13/2026)

No comments recorded

Eliminated Alternatives

There are no eliminated alternatives for this project.

Project Scope

General Project Commitments

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

Anticipated Permits

Permit	Type	Recommending Agency	Comments
National Pollutant Discharge Eliminated System	FDEP	FDEP	
Environmental Resource Permit	WMD	SFWMD	

Anticipated Technical Studies

Technical Study	Type	Recommending Agency	Comments
Location Hydraulics Report	Engineering	FDEP, USEPA, USACE, SRWMD, SJRWMD, SFWMD, SWFWMD, NWFWMD, FDEP-404	Due to a potential above-grade crossing, a Location Hydraulics Report will be included.
Geotechnical Report	Engineering	FDOT	
Public Involvement Plan	Environmental	FDOT	
Noise Study Report	Environmental	FDOT	
Contamination Screening Evaluation Report	Environmental	USEPA	
Conceptual Stage Relocation Plan	Environmental	FDOT	
Endangered Species Biological Assessment	Environmental	FWC, NMFS, USFWS	A Protected Species and Habitat Assessment will be included within the Natural Resources Evaluation.
Cultural Resource Assessment Survey Report	Other	SHPO	
Water Quality Impact Evaluation	Other	FDEP-404	
Type 2 CE	Environmental	FDOT	
Sociocultural Effects Evaluation	Other	FDOT	
Preliminary Engineering Report	Engineering	FDOT	
Air Quality Technical Memorandum	Environmental	FDOT	
Pond Siting Report	Engineering	FDOT	
Natural Resources Evaluation (NRE)	Environmental	FDOT	

Potential for Significant Impacts? *

Issues/Resources	Sig	Sig?	NoSig	NoInv	NoIm	Comments
A. Social and Economic						
1. Social			X			The proposed improvements are not expected to disproportionately affect minority, low income, or disadvantaged populations, and a detailed analysis will be included in the PD&E Study. North 1 and North 2 are anticipated to have greater social effects due to their proximity to established neighborhoods north of Monterey Road and east of SE Dixie Highway, with potential impacts on access, noise, visual character, and temporary construction disruptions. South 1 Alternative is expected to have a lower degree of effect on residential areas, though it may have comparatively greater impacts on nearby commercial properties. Overall, the degree of effect is Minimal for South 1 and Moderate for North 1 and North 2.
2. Economic			X			All alternatives are expected to deliver long term economic benefits through improved mobility, operations, and accessibility. A Sociocultural Effects Evaluation will be included in the PD&E Study, and FDOT District Four will hold public meetings with transparent analyses of corridor improvements, impacts, and alternatives. The preferred alternative is the South 1 Alternative (Preferred Alternative), which is anticipated to have a Moderate economic effect due to slightly higher poverty rates in its study area and greater potential impacts on adjacent businesses. The North 1

Issues/Resources	Sig	Sig?	NoSig	NoInv	NoIm	Comments
						and North 2 Alternatives are expected to have Minimal economic effects.
3. Land Use Changes			X			The proposed improvements are consistent with the Martin County 2045 Long Range Transportation Plan and Cost Feasible Plan. All three alternatives are expected to have Moderate land use effects along the project limits, primarily near the FEC Railroad crossing. Because the study area is already largely developed, no changes to future land use are anticipated.
4. Mobility					X	One bus route, Route 2 (Stuart Route), uses Monterey Road, and 10 school buses cross the Monterey Road FEC Railroad each school day. Within a quarter mile of all alternatives are the YMCA of the Treasure Coast, Stuart Rehabilitation and Healthcare, Stuart Senior Living, City of Stuart Fire Station 2, and the Martin County District Office. There are no trails in the study area, though the East Coast Greenway has partial funding and may traverse the corridor in the future; multimodal features on Monterey Road will be considered, with existing sidewalks retained or improved and potential bike lanes. The effect on Mobility is anticipated to be Enhanced for all alternatives.
5. Aesthetic Effects			X			While the proposed Alternatives primarily follow existing transportation corridors, they include a potential elevated bridge and intersection configuration and new roadway segments near residential areas. These features would introduce new vertical structures and alignment changes that could alter the visual environment for nearby residences, creating noticeable localized changes to the viewshed. Overall, Aesthetic Effects are anticipated to be Moderate for all Alternatives.
6. Relocation Potential		X				North 1 Alternative: About 60.41 acres of residential area lie within the 500 foot buffer; the YMCA of the Treasure Coast is within this buffer and may be affected. Estimated relocations: 18 residential and 1 business, with about 43 parcels impacted.North 2 Alternative: About 71.23 acres of residential area lie within the 500 foot buffer; the YMCA of the Treasure Coast is within this buffer and may be affected. Estimated relocations: 4 residential and 2 businesses, with about 22 parcels impacted.South 1 Alternative (Preferred Alternative): About 10.35 acres of residential area lie within the 500 foot buffer. Estimated relocations: 0 residential and 2 businesses, with about 16 parcels impacted.Some ROW may be required, and a Conceptual Stage Relocation Plan will be prepared during the PD&E Study. The effect on Relocation Potential is anticipated to be Substantial for all three alternatives.
7. Farmland Resources			X			North 1 Alternative: ETDM GIS analysis identifies 183.34 acres of Prime Farmland classified as Farmland of Unique Importance within the 500 foot buffer.North 2 Alternative: ETDM GIS analysis identifies 199.52 acres of Prime Farmland classified as Farmland of Unique Importance within the 500 foot buffer.South 1 Alternative: ETDM GIS analysis identifies 156.20 acres of Prime Farmland classified as Farmland of Unique Importance within the 500 foot buffer.There are no Generalized Agricultural land uses within the 500 foot buffer, and the study area is largely developed and not currently used for farming. The effect on Farmlands is anticipated to be Minimal for all alternatives.
B. Cultural and Tribal						
1. Section 4(f)				X		All alternatives are not located within 500 feet of a Section 4(f) resource. It is anticipated that the effect on Section 4(f) Potential will be N/A - No Involvement for all Alternatives.
2. Historic Sites/Districts			X			Within 500 feet of the North 1, North 2, and South 1 alternatives, three recorded historic resource groups are present: FEC Railroad (MT01450), Dixie Highway (MT01621), and Witham Field Airport (MT01573). The SHPO has determined the FEC Railroad and Dixie Highway eligible for listing in the NRHP, and the project corridor lies within five SHPO survey boundaries. The effect on historic sites and districts is anticipated to be Moderate for all alternatives.
3. Archaeological Sites			X			A Cultural Resources Assessment Survey has been prepared as part of the PD&E Study to evaluate potential impacts on archaeological resources, including unidentified sites along the corridor. Results have been forwarded to the SHPO, and a case study is in progress with coordination to follow. The effect on archaeological resources is anticipated to be Moderate for all alternatives.
4. Recreational Areas and Protected Lands					X	This project is not located within 500 feet of a Recreation Area. It is anticipated that the effect on Recreation Areas will be N/A - No Involvement for all Alternatives.
C. Natural						
1. Wetlands and Other Surface Waters			X			North 1 Alternative: NWI ETDM GIS maps about 2.98 acres of wetlands within the 500 foot buffer, mostly riverine; aerial and field reviews indicate this habitat no longer exists.North 2 Alternative: NWI ETDM GIS maps about 2.98 acres of wetlands within the 500 foot buffer, primarily riverine; aerial and field reviews indicate this habitat no longer exists.South 1 Alternative (Preferred): NWI ETDM GIS maps about 3.76 acres of wetlands within the 500 foot buffer, mostly riverine with some palustrine features, but aerial and field reviews indicate this habitat no longer exists.Overall, wetland and surface water impacts are expected to be minimal. Avoidance, minimization, and mitigation will be evaluated during the PD&E process, and the effect on Wetlands is anticipated to be Minimal for all alternatives.
2. Aquatic Preserves and Outstanding FL Waters				X		There are no Aquatic Preserves or Outstanding Florida Waters within 500 foot of the project area; no direct effects on these resources are

Issues/Resources	Sig	Sig?	NoSig	NoInv	NoIm	Comments
						anticipated.
3. Water Resources			X			The study area lies within the St. Lucie River Watershed and the surficial aquifer system; none of the alternatives are within a sole source aquifer or Outstanding Florida Waters, and the St. Lucie River receives corridor drainage. Within 500 foot, two master NPDES stormwater permits apply (Martin County and City of Stuart), and there are no known or likely septic systems. Two FDEP Waters Not Attaining Standards are present (Willoughby Creek, WBID 3208B, and St. Lucie River South Fork, WBID 3210), and one Basin Management Action Plan applies (St. Lucie - Loxahatchee). Stormwater treatment and mitigation will be refined during the PD&E phase with a WQIE and Pond Siting Report in progress, and the effect on Water Quality and Quantity is anticipated to be Moderate for all alternatives.
4. Wild and Scenic Rivers				X		There is no involvement with the National Wild and Scenic Rivers System because no designated Wild and Scenic Rivers occur within the vicinity of the project area.
5. Floodplains			X			All three build alternatives are outside the 100 year floodplain. Potential floodplain impacts will be evaluated during the PD&E Study and documented in the Location Hydraulic Report, and the effect on Floodplains is anticipated to be Minimal for all alternatives.
6. Coastal Zone Consist.					X	The state has no objections to allocating federal funds, and the project is consistent with the Florida Coastal Management Program based on the Advance Notification and agency comments.
7. Coastal Barrier Resources				X		None of the build Alternatives are within a Coastal Barrier Resource Area (CBRA) and no Essential Fish Habitat (EFH) is present within the project corridors. It is anticipated that the effect on Coastal and Marine will be None for all Alternatives.
8. Protected Species and Habitat			X			Within the 500 foot buffer for all three build alternatives, US Fish and Wildlife Service consultation areas include West Indian manatee, piping clover, red cockaded woodpecker, Florida scrub jay, Everglade snail kite, crested caracara, and Florida bonneted bat. The study area lacks suitable habitat for these species except the Florida bonneted bat and, although it lies within a wood stork Core Foraging Area, suitable foraging habitat is not present. FWC data place the area in the South Fork St. Lucie River watershed with rare and imperiled fish such as mountain mullet, and no listed species observations occur within the 500 foot buffer. The effect on wildlife and habitat is anticipated to be Moderate for all alternatives.
9. Essential Fish Habitat				X		Essential Fish Habitat is not mapped within 500 foot of the project corridors; the nearest EFH occurs in the St Lucie River and associated estuarine waters downstream. Because the project is land based with no in water work, no direct effects on EFH are expected, and stormwater controls will be designed to avoid indirect impacts. EFH considerations will be confirmed during the PD&E Study, with coordination from NOAA Fisheries if any design change introduces in water activities. The effect on Essential Fish Habitat is anticipated to be Minimal for all alternatives.
D. Physical						
1. Highway Traffic Noise			X			The corridor currently has no noise barriers. Within 500 foot of South Alternative 1 are two homeowner and condominium associations (Circle Bay Yacht Club I and Sierra Condo Apts), with no assisted living facilities, parks, or recreational sites. Residential land use in the buffer is limited (2.25 percent single family and 1.65 percent low rise multifamily). A Noise Study Report is in progress during the PD&E Study to identify impacts and evaluate abatement, and Noise effects are anticipated to be Moderate for all alternatives.
2. Air Quality			X			The study area is in a USEPA Air Quality Attainment Area for all National Ambient Air Quality Standards, so Clean Air Act conformity does not apply at this time. The effect on Air Quality is anticipated to be Minimal for all alternatives.
3. Contamination			X			Within 500 foot of the South 1 corridor, there are 23 FDEP hazardous waste facilities, 11 storage tank contamination monitoring sites, 16 FDOH biomedical waste facilities, and 1 FDEP brownfield area (Landfill Green Reuse Area); no solid waste facilities are present. A Contamination Screening Evaluation Report is being prepared during the PD&E Study to confirm and update sources. Avoidance, minimization, mitigation, and any special construction provisions will be developed to protect health and safety. The effect of Contamination is anticipated to be Moderate for all alternatives.
4. Utilities and Railroads			X			Within 500 foot, there are three FDOT railroad crossings (272353M, 272929N, 272942C) and the Witham Field runway; coordination with the airport is required because the project lies in the runway protection zone. No USEIA natural gas pipelines or ORNL electric transmission lines occur in the buffer.Preferred Alternative South 1: Three FCC wireless antenna structures are within 500 foot (1227058, 1313487, 1325501). Utility impacts and airport coordination will be refined during the PD&E phase with a Utility Assessment Package. The effect on Infrastructure is anticipated to be Moderate for all alternatives.
5. Navigation				X		There are no navigable waterways in the project area. It is anticipated that the effect on Navigation will be N/A - No Involvement for all Alternatives.

* Potential Impact Determination:Sig = Significant Impact; Sig? = Question of Significance; NoSig = No Significant Impact; NoInv = No Involvement, Resource is absent; NoIm = No Impact.

Recommended Class of Action

Class of Action	Other Actions	Lead Agency	Cooperating	Participating Agencies
Type 2 Categorical Exclusion	None	FDOT Office of Environmental Management	No Cooperating Agencies have been identified.	South Florida Water Management District US Army Corps of Engineers

Issue Resolution Log

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

Appendices

Preliminary Environmental Discussion Report

Social and Economic

Social

Project Level

A 1/4 mile buffer was used to evaluate social effects. The three Alternatives are described in further detail below and were compared to Martin County for potential social impacts.

Martin County

The demographic characteristics of the project corridor are comparable to the characteristics of Martin County. According to the 2019-2023 American Community Survey (ACS) data, the population of Martin County is 160,464 and includes the following breakdown:
White Alone: 129,803 (80.89%)
Black or African American Alone: 8,071 (5.03%)
Hispanic or Latino of Any Race: 24,690 (15.39%)
American Indian, Eskimo, or Aleut: 773 (0.48%)
Asian Alone: 2,271 (1.42%)
Native Hawaiian and Other Pacific Islander: 51 (0.03%)
Approximately 24.48% of the residents in Martin County comprise the minority population and the median age is 53.2 years old.

This Social data was retrieved from the ETDM Sociocultural Data Report. The proposed project is not expected to disproportionately affect minority, disadvantaged, or low-income populations (low-income populations are discussed in the Economic section below), but an analysis of the effects on these populations will be considered during the PD&E Study. The North 1 Alternative and North 2 Alternative are anticipated to result in a greater Degree of Effect on the social environment compared to the South 1 Alternative. These Alternatives would have greater proximity to, and potential impacts on, the established residential neighborhood located north of Monterey Road and east of SE Dixie Highway, including potential effects related to access, noise, visual changes, and temporary construction-related disruptions. The South 1 Alternative is anticipated to have a lower Degree of Effect on residential communities but may result in comparatively greater impacts to nearby commercial properties and businesses.

As the population of the county increases, so will development and traffic volume. Additionally, the Monterey Road and FEC Railroad crossing intersection is visited by 10 school buses per school day. This project is anticipated to support the growing residential areas within the County and mobility enhancements, thus encouraging social interaction/activity and improving conditions within the community. Some residential and commercial land could be affected given their proximity to the railroad crossing intersection. However, overall impacts on the Social Environment and Community Cohesion are anticipated to be Moderate.

Overall impacts on the social environment and community cohesion are anticipated to be **Moderate** for North 1 Alternative and North 2 Alternative. While the degree of effect for the South 1 Alternative would be **Minimal.** This is due to the North 1 Alternative and North 2 Alternative traversing through residential neighborhoods, while the South 1 Alternative avoids impacts to residential neighborhoods.

A Sociocultural Effects Evaluation will be conducted during the PD&E phase to determine potential impacts on adjoining communities and businesses. Additionally, an extensive Public Involvement Program will be conducted during the PD&E phase to solicit input from the local community.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

Within the 1/4-mile buffer for the North 1 Alternative, the total population is 2,076. Of this population, 1,285 individuals (61.90%) identify as White Alone. Minority populations comprise 41.81 percent of the population within the buffer. Hispanic or Latino residents account for 578 individuals (27.84%), and Black or African American residents account for 268 individuals (12.91%). The median age within the buffer area is 45 years old.

Overall impacts on the social environment and community cohesion are anticipated to be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Minimal

Within the 1/4-mile buffer for the South 1 Alternative, the total population is 1,923. Of this population, 1,365 individuals (70.98%) identify as White Alone. Minority populations comprise 30.99 percent of the population within the buffer. Hispanic or Latino residents account for 408 individuals (21.22%), and Black or African American residents account for 135 individuals (7.02%). The median age within the buffer area is 42 years old.

Overall impacts on the social environment and community cohesion are anticipated to be **Minimal** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

Within the 1/4-mile buffer for the North 2 Alternative, the total population is 2,292. Of this population, 1,396 individuals (60.91%) identify as White Alone. Minority populations comprise 43.67 percent of the population within the buffer. Hispanic or Latino residents account for 626 individuals (27.31%), and Black or African American residents account for 351 individuals (15.31%). The median age within the buffer area is 45 years old.

Overall impacts on the social environment and community cohesion are anticipated to be **Moderate** for North 2 Alternative.

Economic

Project Level

The median household income for Martin County is $80,701, while the median household income within the 1/4-mile project buffer is $52,308 (ACS 2019-2023), indicating that households within the screening area have lower income levels than the countywide average.

The higher percentage of households below the poverty level within the South 1 Alternative buffer indicates a potentially greater sensitivity to economic disruptions. Additionally, the South 1 Alternative may result in greater impacts to adjacent businesses which could in turn change the economic data within the surrounding community (due to potential loss of tax base). Alternatives will be evaluated to minimize impacts to adjacent businesses.

All Alternatives are expected to provide long-term economic benefits through enhanced mobility, improved traffic operations, and increased accessibility, which may positively influence local economic activity.

It is anticipated that the effect to Economic will be **Moderate** for the South 1 Alternative, but **Minimal** for the North 1 Alternative and North 2 Alternative. The South 1 Alternative has slightly higher percentages of households living below the poverty level than households within the North 1 Alternative and North 2 Alternative study areas. Additionally, the South 1 Alternative may have higher impacts on adjacent businesses, further proving the need for the South 1 Alternative to have a **Moderate** degree of effect for Economic.

Analysis Area

Areas: North 1

Degree of Effect: Minimal

According to the ETDM Sociocultural Data Report, the total percentage of households below the poverty level within the 1/4-mile buffer for the North 1 Alternative is 18.02%

It is anticipated that the effect to Economic will be **Minimal** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

According to the ETDM Sociocultural Data Report, the total percentage of households below the poverty level within the 1/4-mile buffer for the South 1 Alternative is 19.29%.

It is anticipated that the effect to Economic will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Minimal

According to the ETDM Sociocultural Data Report, the total percentage of households below the poverty level within the 1/4-mile buffer for the North 2 Alternative is 18.85%.

It is anticipated that the effect to Economic will be **Minimal** for North 2 Alternative.

Land Use Changes

Project Level

The land use along Monterey Road is primarily composed of commercial properties west of Dixie Highway. East of Dixie Highway, north of Monterey Road, there is a residential community, some undeveloped lots/natural areas, and the YMCA of the Treasure Coast. South of Monterey Road is the Witham Field General Airport/Stuart Jet Center. East of Dixie Highway, south of Monterey Road, there is an industrial area. The project area is located largely within unincorporated Martin County; however northern portions of the study area are located with the City of Stuart.

The proposed improvements are consistent with the Martin County 2045 Long Range Transportation Plan and 2045 Cost Feasible Plan (CFP). Overall, the proposed project is expected to have some land use impacts along the project limits due to improving the FEC Railroad crossing. All three Alternatives are likely to include land use impacts. Although, due to the study area already largely developed, there should be no impacts to the future land use of the surrounding area.

It is anticipated that the effect on Land Use will be **Moderate** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

At the 500-foot buffer distance for the North 1 Alternative, generalized land use is predominantly Public/Semi-Public (47.89%), followed by Parcels with No Values (16.76%), Retail/Office (13.23%), and Residential (10.74%) uses. Lesser land uses within the buffer include Centrally Assessed (4.04%), Industrial (3.20%), Institutional (2.46%), Vacant Nonresidential (1.52%), Right-of-Way (1.04%), and Vacant Residential (0.05%), with no agricultural, recreational, or water land uses present.

It is anticipated that the effect on Land Use will be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

At the 500-foot buffer distance for the South 1 Alternative, generalized land use is predominantly Public/Semi-Public (39.15%), followed by Retail/Office (32.55%), Parcels with No Values (15.43%), and Residential (3.13%) uses. Lesser land uses within the buffer include Centrally Assessed (4.41%), Industrial (2.91%), Right-of-Way (3.73%), Vacant Nonresidential (1.79%), Recreation (1.54%), and Institutional (0.27%), with no agricultural, water, or vacant residential land uses present.

It is anticipated that the effect on Land Use will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

At the 500-foot buffer distance for the North 2 Alternative, generalized land use is predominantly Public/Semi-Public (44.27%), followed by Parcels with No Values (18.57%), Residential (12.15%), and Retail/Office (12.51%) uses. Lesser land uses within the buffer include Industrial (5.59%), Centrally Assessed (4.59%), Right-of-Way (2.68%), Institutional (2.17%), Vacant Nonresidential (1.61%), and Vacant Residential (0.04%), with no agricultural, recreational, or water land uses present.

It is anticipated that the effect on Land Use will be **Moderate** for North 2 Alternative.

Mobility

Project Level

Currently, there is one bus route (Route 2- Stuart Route) that utilizes Monterey Road. Additionally, 10 school buses per school day utilize the Monterey Road/FEC Railroad crossing. There are several community facilities within the 1/4-mile buffer study area surrounding all three Alternatives: YMCA of the Treasure Coast, Stuart Rehabilitation and Healthcare, Stuart Senior Living, City of Stuart Fire Station No. 2, and the Martin County District Office. Lastly, there are no existing trails within the study area, however, the East Coast Greenway has been partially funded and may traverse through the study area at some point in the future. Multi-modal transportation will be considered on Monterey Road to serve and connect the transit-supportive land uses. Sidewalks currently exist on part of the roadway and will remain or be improved as part of the intersection improvements. Bike lanes may also be considered for this project.
It is anticipated that the effect on Mobility will be **Enhanced** by any of the Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Enhanced

It is anticipated that the effect on Mobility will be **Enhanced** for North 1 Alternative.

Areas: South 1

Degree of Effect: Enhanced

It is anticipated that the effect on Mobility will be **Enhanced** by any of the alternatives.

Areas: North 2

Degree of Effect: Enhanced

It is anticipated that the effect on Mobility will be **Enhanced** by any of the alternatives.

Aesthetic Effects

Project Level

The overall character of Monterey Road, Dixie Highway, and surrounding roadways is urban. There is one residential neighborhood, several businesses, community facilities, and an airport (Witham Field) within the study area. The western portion of the project limits, approaching US 1 becomes even more heavily urbanized with higher densities of businesses. The compatibility of enhancing/widening the existing roadways within the study area fits with the Martin County 2045 Long Range Transportation Plan (LRTP) and future land use along Monterey Road encouraging higher densities and mixed-use development.

While the proposed Alternatives are located primarily along existing transportation corridors, all Alternatives include a new potential elevated bridge/intersection configuration and new roadway segments adjacent to residential areas. These features would introduce new vertical elements, roadway structures, and changes in roadway alignment that could alter the existing visual environment, particularly for nearby residences. As a result, the project has the potential to create noticeable changes to the existing viewshed in localized areas.

It is anticipated that the Aesthetic Effects will be **Moderate** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

It is anticipated that the Aesthetic Effects will be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

It is anticipated that the Aesthetic Effects will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

It is anticipated that the Aesthetic Effects will be **Moderate** for North 2 Alternative.

Relocation Potential

Project Level

Monterey Road primarily includes a mix of residential, commercial, and some undeveloped land. Monterey Road has some available ROW for the proposed improvements. However, commercial and residential land impacts may occur due to their proximity to the roadway. Below includes information regarding potential ROW involvement by Alternative.

Potential ROW Involvement	North 1 Alternative1	North 2 Alternative	South 1 Alternative
Number of Parcels Impacted	43	22	16
ROW Impact Areas (Acres)	6.4	6.1	2.2
Number of Residential Relocations	18	4	0
Number of Business Relocations	1	2	2

During the PD&E Study, a Conceptual Stage Relocation Plan will be prepared for any potential relocations required.

Relocation Potential is expected to be **Substantial** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Substantial

According to the WMD Residential Areas (FLUCCS Level 3) data, residential areas cover approximately 60.41 acres within the 500-foot project buffer. Additionally, the YMCA of the Treasure Coast is located within the 500-foot buffer and may be impacted. As indicated above, the North 1 Alternative may require 18 residential relocations and 1 business relocation, along with impacting 43 total parcels.

Relocation Potential is expected to be **Substantial** for North 1 Alternative.

Areas: South 1
Degree of Effect: Substantial

According to the WMD Residential Areas (FLUCCS Level 3) data, residential areas cover approximately 10.35 acres within the 500-foot project buffer. Residential and business relocations are likely with this Alternative. As indicated above, the South 1 Alternative may require 0 residential relocations and 2 business relocations, along with impacting 16 total parcels.

Relocation Potential is expected to be **Substantial** for South 1 Alternative.

Areas: North 2
Degree of Effect: Substantial

According to the WMD Residential Areas (FLUCCS Level 3) data, residential areas cover approximately 71.23 acres within the 500-foot project buffer. Additionally, the YMCA of the Treasure Coast is located within the 500-foot buffer and may be impacted. As indicated above, the North 2 Alternative may require 4 residential relocations and 2 business relocations, along with impacting 22 total parcels.

Relocation Potential is expected to be **Substantial** for North 2 Alternative.

Farmlands

Project Level

There are no Generalized Agricultural land uses within the 500-foot buffer though. Additionally, based on an aerial view of the study area, a majority of the study area is developed and therefore is not currently utilized for farming or other agricultural purposes. During the PD&E Study, the proposed project impacts on farmlands will be evaluated further. Coordination with the Natural Resources Conservation Service (NRCS), including preparation of a Farmland Conversion Impact Rating Form, will occur, if necessary.

Due to the developed nature of the study area, it is anticipated that the effect on Farmlands will be **Minimal** for all Alternatives.

Analysis Area

Areas: North 1
Degree of Effect: Minimal

A review of the GIS Analysis on ETDM identified 183.34 acres of Prime Farmland with a classification of Farmland of Unique Importance within the 500-foot buffer for the North 1 Alternative.

Due to the developed nature of the project study area, it is anticipated that the effect on Farmlands will be **Minimal** for North 1 Alternative.

Areas: South 1
Degree of Effect: Minimal

A review of the GIS Analysis on ETDM identified 156.20 acres of Prime Farmland with a classification of Farmland of Unique Importance within the 500-foot buffer for the South 1 Alternative.

Due to the developed nature of the project study area, it is anticipated that the effect on Farmlands will be **Minimal** for South 1 Alternative.

Areas: North 2
Degree of Effect: Minimal

A review of the GIS Analysis on ETDM identified 199.52 acres of Prime Farmland with a classification of Farmland of Unique Importance within the 500-foot buffer for the North 2 Alternative.

Due to the developed nature of the project study area, it is anticipated that the effect on Farmlands will be **Minimal.**

Wetlands and Surface Waters

Project Level

All Alternatives are located within the St. Lucie River Watershed and the boundary of the South Florida Water Management District (SFWMD). Wetland and surface water resources associated each Alternative are described below.

It is expected that impacts on wetland and surface water habitats will be minimal. However, avoidance and minimization along with mitigation strategies will be evaluated through the PD&E process.
It is anticipated that the effect on Wetlands will be **Minimal** for all Alternatives.

During the PD&E Study, a wetland delineation will take place and any impacts to wetlands and/or surface waters will be documented and evaluated within the Wetlands and Other Surface Waters section of the Natural Resources Evaluation (NRE).

Analysis Area

Areas: North 1

Degree of Effect: Minimal

There are wetlands identified within the North 1 Alternative project limits. The National Wetlands Inventory (NWI) ETDM GIS indicates that approximately 2.98 acres of wetlands occur within the 500-foot buffer. Of this total, approximately 2.78 acres are classified as riverine habitat, with the remainder consisting of palustrine wetland features. However, based on aerial and field reviews, it appears this habitat no longer exists.

It is anticipated that the effect on Wetlands will be **Minimal** for North 1 Alternative.

Areas: South 1

Degree of Effect: Minimal

There are wetlands identified within the South 1 Alternative project limits. The National Wetlands Inventory (NWI) ETDM GIS indicates that approximately 3.76 acres of wetlands occur within the 500-foot buffer. Of this total, approximately 2.63 acres are classified as riverine habitat, with the remaining wetlands consisting of palustrine systems, including freshwater ponds. However, based on aerial and field reviews, it appears this habitat no longer exists.

It is anticipated that the effect on Wetlands will be **Minimal** for South 1 Alternative.

Areas: North 2

Degree of Effect: Minimal

There are wetlands identified within the North 2 Alternative project limits. The National Wetlands Inventory (NWI) ETDM GIS indicates that approximately 2.98 acres of wetlands occur within the 500-foot buffer. The mapped wetlands are primarily classified as riverine habitat. However, based on aerial and field reviews, it appears this habitat no longer exists.

It is anticipated that the effect on Wetlands will be **Minimal** for North 2 Alternative.

Water Resources

Project Level

For all three Alternatives, the potential impacts to Water Resources will be the same. The resources found within the study area are the same for all Alternatives.

The study area is located within the St. Lucie River Watershed. None of the Alternatives are located within the boundaries of a sole source aquifer or an Outstanding Florida Waters (OFW). However, the study area does fall within one Principal Aquifer System of the State of Florida (surficial aquifer system). Further analysis will be required during the PD&E Study to determine if any of the Alternatives would have any negative impact on the aquifer. Additionally, the St. Lucie River is ultimately the receiver of all drainage waters from the project corridors.

There are two master National Pollutant Discharge Elimination System (NPDES) stormwater permits within the 500-foot project buffer: Martin County and the City of Stuart. According to the Florida Department of Health Likely On-Site Septic System GIS data, there are no known or likely septic systems within the 500-foot project buffer. There are two FDEP Waters Not Attaining Standards (WNAS) within the 500-foot project buffer: Willoughby Creek (WBID: 3208B) and St. Lucie River (South fork) (WBID: 3210). Lastly, there is one surface water Basin Management Action Plan (BMAP) within the 500-foot project buffer: St. Lucie - Loxahatchee.

More detailed stormwater treatment and attenuation facilities will be evaluated in the PD&E phase to minimize adverse effects on nearby waterbodies. A Water Quality Impact Evaluation (WQIE) will be completed and will comply with the goals of the Clean Water Act (CWA). In addition, a Pond Siting Report will be prepared to identify alternatives for stormwater management and treatment. The effects on water quality and means to avoid, minimize

and mitigate impacts will be evaluated during the study based on the project specific effects from the Alternatives developed during the study.

It is anticipated that the effect on Water Quality and Quantity will be **Minimal** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Minimal

It is anticipated that the effect on Water Quality and Quantity will be **Minimal** for North 1 Alternative.

Areas: South 1

Degree of Effect: Minimal

It is anticipated that the effect on Water Quality and Quantity will be **Minimal** for South 1 Alternative.

Areas: North 2

Degree of Effect: Minimal

It is anticipated that the effect on Water Quality and Quantity will be **Minimal** for North 2 Alternative.

Floodplains

Project Level

All three of the build alternatives are located outside of the 100-year floodplain. However, any potential impacts on the floodplain will be considered and evaluated during the PD&E Study and documented within the Location Hydraulic Report.

It is anticipated that the effect on Floodplains will be **Minimal** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Minimal

It is anticipated that the effect on Floodplains will be **Minimal** for North 1 Alternative.

Areas: South 1

Degree of Effect: Minimal

It is anticipated that the effect on Floodplains will be **Minimal** for South 1 Alternative.

Areas: North 2

Degree of Effect: Minimal

It is anticipated that the effect on Floodplains will be **Minimal** for North 2 Alternative.

Protected Species and Habitat

For the official list of fish and wildlife designated by the state of Florida as Endangered, Threatened or Species of Special Concern, please refer to sections 68A-27.003, .0031 and 005 in *Rules Relating to Endangered or Threatened Species*, Chapter 68A-27, Florida Administrative Code, https://www.flrules.org/gateway/ChapterHome.asp?Chapter=68A-27.
For general information on Florida imperiled species and species conservation programs, go to https://myfwc.com/wildlifehabitats/wildlife/

Project Level

For all three build Alternatives, the 500-foot project buffer contains the following US Fish and Wildlife Service Consultation Areas for federally listed species: West Indian manatee, piping clover, red-cockaded woodpecker, Florida scrub-jay, Everglade snail kite, crested caracara, and Florida bonneted bat. However, based on a review of the study area, there does not appear to be suitable habitat for any of these species except the Florida bonneted bat. In addition to the consultation areas, the project lies within a wood stork Core Foraging Area, however, the project does not appear to contain any suitable foraging habitat for the wood stork. According to the Florida Fish and Wildlife Conservation Commission (FWC) GIS data, the study area is within the watershed (South Fork of the St. Lucie River) that contains rare and imperiled fish (mountain mullet). There have been no FWC observations of any listed species within the 500-foot buffer.

It is anticipated that the effect on wildlife and habitat will be **Moderate** for all Alternatives.

During the PD&E Study, documentation and consultation regarding listed species and potential project effects will be documented within the Protected Species and Habitat Assessment section of the NRE. A roost survey for the Florida bonneted bat will be conducted during the PD&E Study and results coordinated with the Florida Fish and Wildlife Conservation Commission and the US Fish and Wildlife Service.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

It is anticipated that the effect to wildlife and habitat will be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

It is anticipated that the effect on wildlife and habitat will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

It is anticipated that the effect on wildlife and habitat will be **Moderate** for North 2 Alternative.

Coastal and Marine

Project Level

None of the build Alternatives are within a Coastal Barrier Resource Area (CBRA) and no Essential Fish Habitat (EFH) is present within the project corridors.

It is anticipated that the effect on Coastal and Marine will be **None** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: None

It is anticipated that the effect to Coastal and Marine will be **None** for North 1 Alternative.

Areas: South 1

Degree of Effect: None

It is anticipated that the effect on Coastal and Marine will be **None** for South 1 Alternative.

Areas: North 2

Degree of Effect: None

It is anticipated that the effect on Coastal and Marine will be **None** for North 2 Alternative.

Cultural and Tribal

Section 4(f) Potential

Project Level

This project is not located within 500 feet of a Section 4(f) resource.

It is anticipated that the effect on Section 4(f) Potential will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect to Section 4(f) Potential will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1

Degree of Effect: N/A / No Involvement

The effect on Section 4(f) Potential will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2
Degree of Effect: N/A / No Involvement

For the North 2 alternative, it is anticipated that the effect on Section 4(f) Potential will be **N/A - No Involvement.**

Historic and Archaeological Sites

Project Level

There are three previously recorded historic resource groups within 500 feet of the North 1 Alternative, North 2 Alternative, and South 1 Alternative: FEC Railroad, Site ID: MT01450; Dixie Highway, Site ID: MT01621; and Witham Field Airport, Site ID: MT01573. Of these resources, only the FEC Railroad and Dixie Highway have been evaluated by the SHPO and determined eligible for listing in the NRHP. The project corridor is within the boundaries of five SHPO surveys.

A Cultural Resources Assessment Survey will be prepared as part of the PD&E Study to evaluate potential impacts on the historic standing structures and the resource groups, along with any impacts on unidentified historic resources/structures. Results will be coordinated with the SHPO.

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for all Alternatives.

Analysis Area

Areas: North 1
Degree of Effect: Moderate

There are four (4) historic standing structures within 500 feet of the North 1 Alternative: MT00319, MT00329, MT00330, and MT00331, however these resources have not yet been evaluated by the State Historic Preservation Officer (SHPO).

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for North 1 Alternative.

Areas: South 1
Degree of Effect: Moderate

There is one (1) historic standing structure within 500 feet of the South 1 Alternative: MT01403, however this resource is ineligible for listing with the National Register of Historic Places (NRHP).

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for South 1 Alternative.

Areas: North 2
Degree of Effect: Moderate

There are eleven (11) historic standing structures within 500 feet of the North 2 Alternative: MT00319, MT00320, MT00321, MT00322, MT00323, MT00325, MT00328, MT00329, MT00330, MT00331, and MT00332, however these resources have not yet been evaluated by the SHPO.

It is anticipated that the effect on Historic and Archaeological resources will be **Moderate** for North 2 Alternative.

Recreational and Protected Lands

Project Level

This project is not located within 500 feet of a Recreation Area.

It is anticipated that the effect on Recreation Areas will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Recreational and Protected Lands will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Recreation Areas will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Recreation Areas will be **Substantial** for North 2 for North 2 Alternative.

Physical

Noise

Project Level

Two residential areas are located within the study area for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. A review of the GIS Analysis indicates these consist of some fixed single-family units (2-5 dwelling units per acre) and multiple dwelling units, low rise (two stories or less). There are currently no noise barriers along the project corridor.

A Noise Study Report (NSR) will be prepared during the PD&E Study to identify unavoidable noise impacts, and an evaluation of abatement measures will occur where appropriate.

It is anticipated that the effect of Noise will be **Moderate** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

There is one homeowner and condominium association (Circle Bay Yacht Club I) within the 500-foot buffer. There is one recreational facility (YMCA of the Treasure Coast) and one assisted living facility (Stuart Senior Living) within the 500-foot buffer. Residential land use within the buffer consists of fixed single-family units, which account for 19.45 percent of the residential area, and multiple dwelling units (low-rise), which account for 2.32 percent.

It is anticipated that the effect of Noise will be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

There are two homeowner and condominium associations (Circle Bay Yacht Club I and Sierra Condo Apts) within the 500-foot buffer. There are no assisted living facilities, local parks, or recreational facilities within the 500-foot buffer. Residential land use within the buffer consists of fixed single-family units, which account for 2.25 percent of the residential area, and multiple dwelling units (low-rise), which account for 1.65 percent.

It is anticipated that the effect of Noise will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

There is one homeowner and condominium association (Circle Bay Yacht Club I) within the 500-foot buffer. There is one recreational facility (YMCA of the Treasure Coast) and one assisted living facility (Stuart Senior Living) within the 500-foot buffer. Residential land use within the buffer consists of fixed single-family units, which account for 21.36 percent of the residential area, and multiple dwelling units (low-rise), which account for 1.83 percent.

It is anticipated that the effect of Noise will be **Moderate** for North 2 Alternative.

Air Quality

Project Level

The study area is located within a US Environmental Protection Agency (USEPA) designated Air Quality Attainment Area for all the National Ambient Air Quality Standards under the criteria provided in the Clean Air Act. Therefore, the Clean Air Act conformity requirements do not apply to this project currently. However, an Air Quality Technical Memorandum will be prepared as a support document for the PD&E Study.

It is anticipated that the effect on Air Quality will be **Minimal** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Minimal

It is anticipated that the effect to Air Quality will be **Minimal** for North 1 Alternative.

Areas: South 1

Degree of Effect: Minimal

It is anticipated that the effect on Air Quality will be **Minimal** for South 1 Alternative.

Areas: North 2

Degree of Effect: Minimal

It is anticipated that the effect on Air Quality will be **Minimal** for North 2 Alternative.

Contamination

Project Level

According to the ETDM Contamination GIS layer, there are no solid waste facilities within the 500-foot buffer for the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additional contamination resources, including hazardous waste facilities, storage tank contamination monitoring sites, biomedical waste facilities, and brownfield areas associated each Alternative are described below.

A Contamination Screening Evaluation Report (CSER) will be prepared during the PD&E Study to document and update any potential contamination sources within the project vicinity. Avoidance, minimization, and mitigation strategies as well as any necessary special construction provisions will be developed based on this documentation, to avoid impacts, and to ensure human health and safety if avoidance is not possible.

It is anticipated that the effect of Contamination will be **Moderate** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

There are eight (8) FDEP hazardous waste facilities (EPA ID: FLD056933906, FLD982082216, FLD982143802, FLD982174963, FLR000120675, FLR000154369, FLR000190082, and FLR000234807) and eight (8) FDEP storage tank contamination monitoring sites (Facility ID: 8520085, 8520105, 8626173, 8629919, 8630058, 9602023, 9811879, and 9817168) within the 500-foot buffer. Additionally, there are six (6) FDOH biomedical waste facilities (Permit Number: 43-64-00091, 43-64-00684, 43-64-00995, 43-64-00244, 43-64-1426512, and 43-64-1696459) within the 500-foot buffer. There are no FDEP brownfield areas within the 500-foot buffer.

It is anticipated that the effect of Contamination will be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

There are twenty-three (23) FDEP hazardous waste facilities (EPA ID: FL0000997122, FL0000997130, FL0000997148, FLD032748675, FLD052658317, FLD982082216, FLD982091076, FLD982121709, FLD982143802, FLD982174963, FLD984209189, FLR000051631, FLR000086496, FLR000120675, FLR000120683, FLR000120741, FLR000154369, FLR000190082, FLR000208678, FLR000208686, FLR000234807, FLR000239673, and FLR000268417) and eleven (11) FDEP storage tank contamination monitoring sites (Facility ID: 8520085, 8626173, 8629919, 8734079, 8840895, 9102662, 9500289, 9500749, 9602023, 9700694, and 9815471) within the 500-foot buffer. Additionally, there are sixteen (16) FDOH biomedical waste facilities (Permit Number: 43-64-00884, 43-64-00886, 43-64-00936, 43-64-00995, 43-64-00292, 43-64-00434, 43-64-1275905, 43-64-1400256, 43-64-1426512, 43-64-1436764, 43-64-1602018, 43-64-1643665, 43-64-1713914, 43-64-1411178, 43-64-1627698, and 43-64-1696459) within the 500-foot buffer. There is one (1) FDEP brownfield area (Landfill Green Reuse Area) within the 500-foot buffer.

It is anticipated that the effect of Contamination will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

There are nine (9) FDEP hazardous waste facilities (EPA ID: FLD056933906, FLD982082216, FLD982143802, FLD982174963, FLR000097279, FLR000120675, FLR000154369, FLR000190082, and FLR000234807) and nine (9) FDEP storage tank contamination monitoring sites (Facility ID: 8520085, 8520105, 8626173, 8629919, 8630058, 8736869, 9602023, 9811879, and 9817168) within the 500-foot buffer. Additionally, there are six (6) FDOH biomedical waste facilities (Permit Number: 43-64-00091, 43-64-00684, 43-64-00995, 43-64-00244, 43-64-1426512, and 43-64-1696459) within the 500-foot buffer. There are no FDEP brownfield areas within the 500-foot buffer.

It is anticipated that the effect of Contamination will be **Moderate** for North 2 Alternative.

Infrastructure

Project Level

There are several major utilities identified on the ETDM Infrastructure Report within a 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative, as noted below. There are three (3) FDOT railroad crossings (FDOT Crossing Inventory Number: 272353M, 272929N, and 272942C) within the 500-foot buffer of the North 1 Alternative, North 2 Alternative, and South 1 Alternative. Additionally, there is one (1) airport runway (Witham Field Runway) located within the 500-foot buffer of all Alternatives. All Alternatives will require coordination with the airport due to the project being located within the runway protection zone of the airport.

There are no USEIA natural gas pipelines or ORNL electric power transmission lines within the 500-foot buffer of all Alternatives.

Further review of utility impacts and any impacts to the airport will be conducted during the PD&E phase of the project. A Utility Assessment Package will be prepared during the PD&E Study.

It is anticipated that the effect on Infrastructure will be **Moderate** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: Moderate

There are four (4) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313908, 1314516, and 1325501) within the 500-foot buffer.

It is anticipated that the effect on Infrastructure will be **Moderate** for North 1 Alternative.

Areas: South 1

Degree of Effect: Moderate

There are three (3) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313487, and 1325501) within the 500-foot buffer.

It is anticipated that the effect on Infrastructure will be **Moderate** for South 1 Alternative.

Areas: North 2

Degree of Effect: Moderate

There are four (4) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313908, 1314516, and 1325501) within the 500-foot buffer.There are four (4) FCC wireless antenna structure locations (FCC Registration Number: 1227058, 1313908, 1314516, and 1325501) within the 500-foot buffer.

It is anticipated that the effect on Infrastructure will be **Moderate** for North 2 Alternative.

Navigation

Project Level

There are no navigable waterways in the project area.

It is anticipated that the effect on Navigation will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Navigation will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Navigation will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Navigation will be **N/A - No Involvement** for North 2 Alternative.

Special Designations

Special Designations: Outstanding Florida Waters

Project Level

This project is not located within an Outstanding Florida Water.

It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Outstanding Florida Waters will be **N/A - No Involvement** for North 2 Alternative.

Special Designations: Aquatic Preserves

Project Level

This project is not located within an aquatic preserve.

It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Aquatic Preserves will be **N/A - No Involvement** for North 2 Alternative.

Special Designations: Wild and Scenic Rivers

Project Level

No FDEP wild and scenic rivers are located within the 500-foot buffer of all three Alternatives (North 1 Alternative, North 2 Alternative, and South 1 Alternative). Therefore, there will be no impact on wild and scenic rivers.

It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1

Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Wild and Scenic Rivers will be **N/A - No Involvement** for North 2 Alternative.

Special Designations: Sole Source Aquifers

Project Level

This study area is not located within a Sole Source Aquifer.

It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for all Alternatives.

Analysis Area

Areas: North 1
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for North 1 Alternative.

Areas: South 1
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for South 1 Alternative.

Areas: North 2
Degree of Effect: N/A / No Involvement

It is anticipated that the effect on Sole Source Aquifers will be **N/A - No Involvement** for North 2 Alternative.

Advance Notification Package Comments

FL Fish and Wildlife Conservation Commission

Reviewed by: Laura DiGruttolo, 4/10/2026
No additional comments to offer.

South Florida Water Management District

Reviewed by: Jessica Huffman-Mainelli, 4/3/2026
Other than the comments outlined in the Project Effects sections, the District has no further comments regarding this ETDM Package. The project shall be designed to meet state water quality and quantity requirements, and best management practices shall be utilized during project activities to prevent impacts to wetlands and other surface waters. An Environmental Resource Permit would be required for the proposed work. A pre-application meeting is recommended.

US Fish and Wildlife Service

Reviewed by: Amber Rhodes, 3/13/2026
No additional comments

GIS Analyses

Since there are so many GIS Analyses available for Project 14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study, 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:
Public Site: http://etdmpub.fla-etat.org/est/index.jsp?tpID=14527&startPageName=GIS%20Analysis%20Results
Special Note: Please be sure that when the GIS Analysis Results page loads, the **Programming Screen Summary Report Published** is selected. GIS Analyses snapshots have been taken for Project #14527 at various points throughout the project's life-cycle, so it is important that you view the correct

snapshot.

Degree of Effect Legend

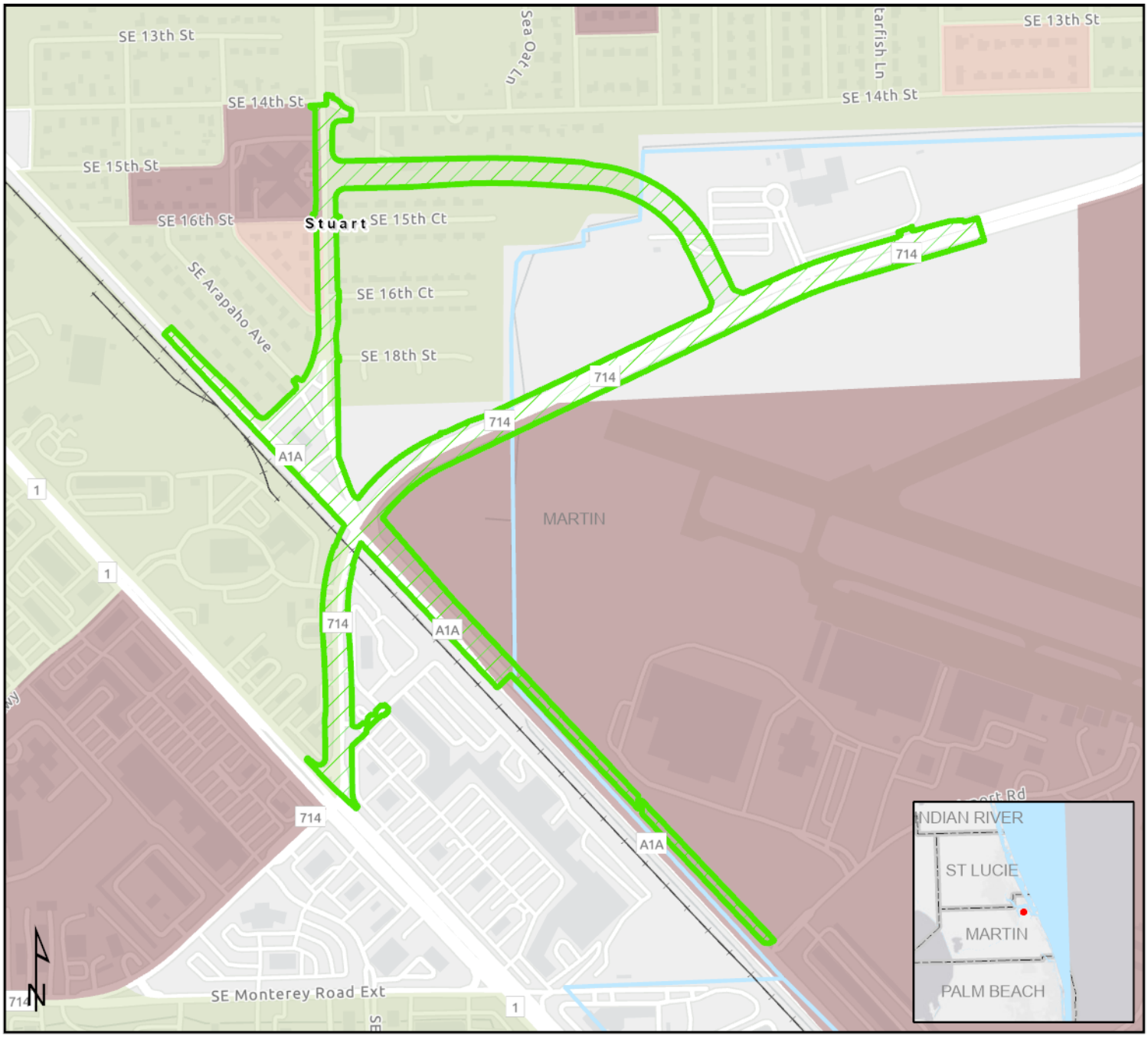
Color Code	Meaning	ETAT	Public Involvement
N/A	N/A / No Involvement	There is no presence of the topic in relationship to the project, or the topic is irrelevant in relationship to the proposed transportation action.	
0	None (after 12/05/2005)	The topic is present, but the project will have no impact on the topic; project has no adverse effect on ETAT resources; permit issuance or consultation involves routine interaction with the agency. The *None* degree of effect is new as of 12/05/2005.	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 (before 12/05/2005)	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 Issue (Planning)	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	Issue Resolution (Programming)	Project does not conform to agency statutory requirements and will not be permitted. Issue 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.
NC	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.	
NR	No ETAT Reviews	No ETAT members have reviewed the corresponding topic for this project, and the ETDM coordinator has not assigned a summary degree of effect.	

Hardcopy Maps

14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 1

Not Specified TO Not Specified



Age Distribution

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Median Age (2020)

- 18 - 30
- 30 - 65
- > 65

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Creation Date: 12/17/2025 1:21 PM

North 1

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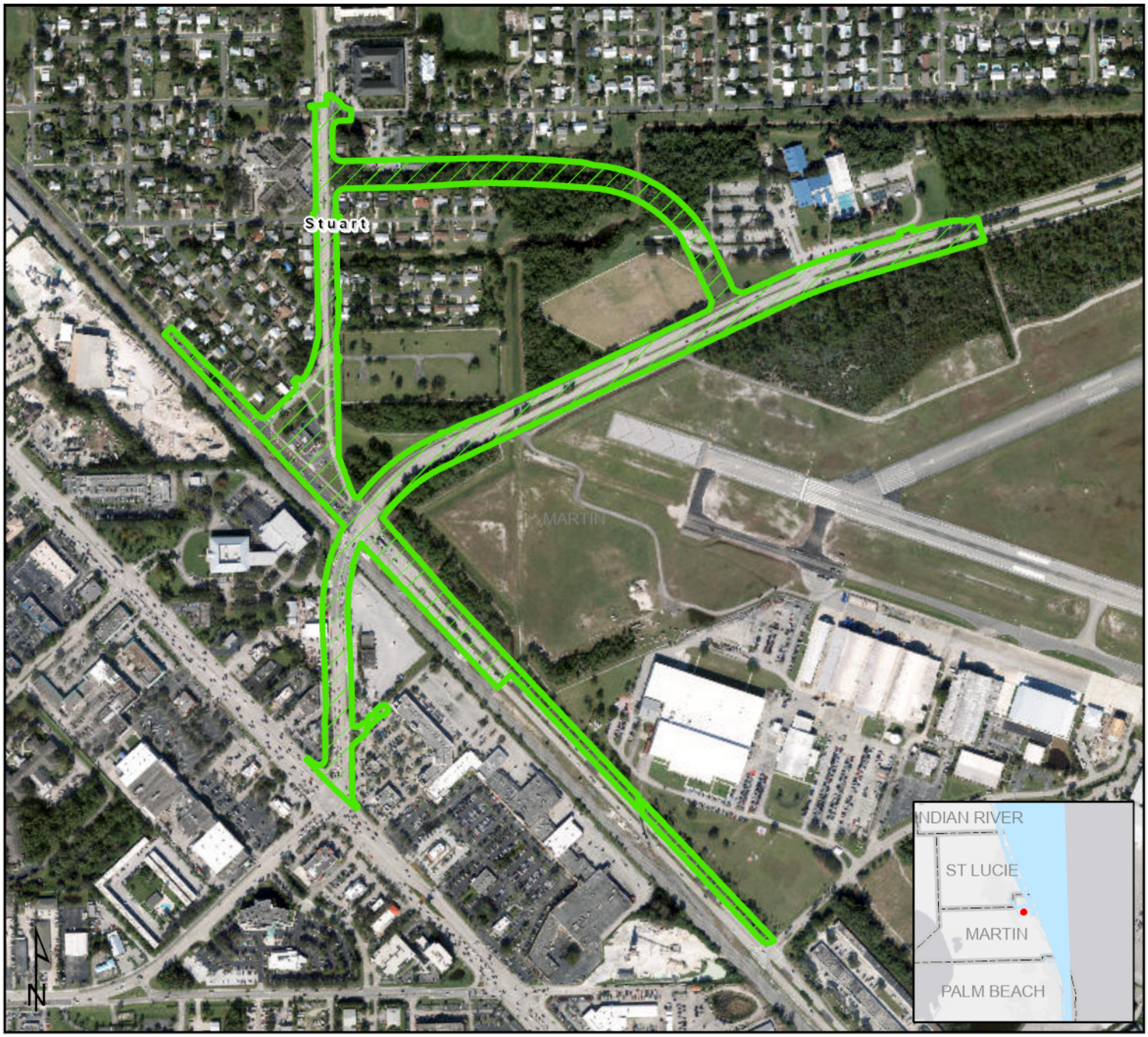

Analysis Area Aerial

ETDM Alternative Poly

County Boundaries

0 500 1,000 US Feet

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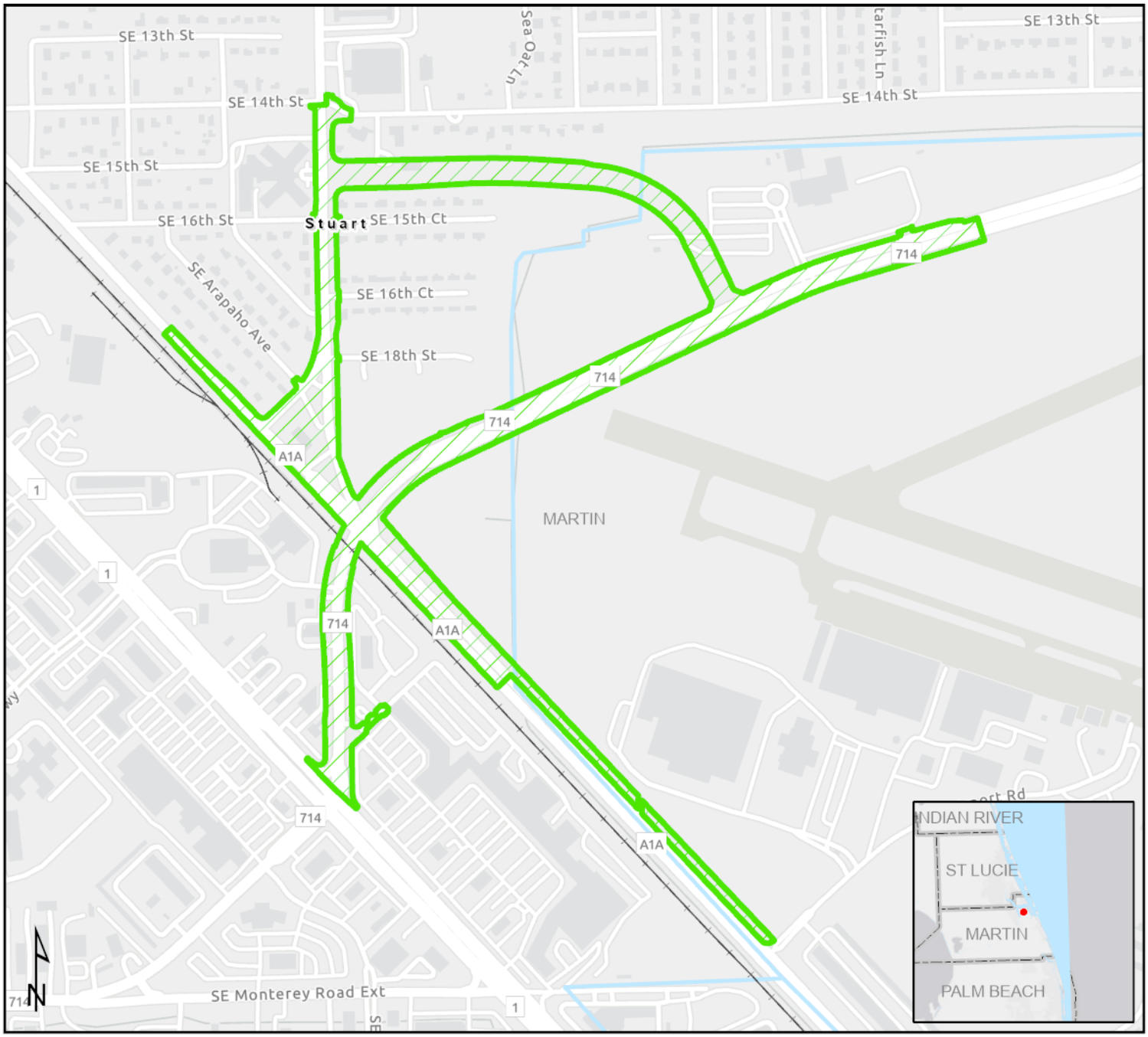

Analysis Area Base

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

0 500 1,000 US Feet

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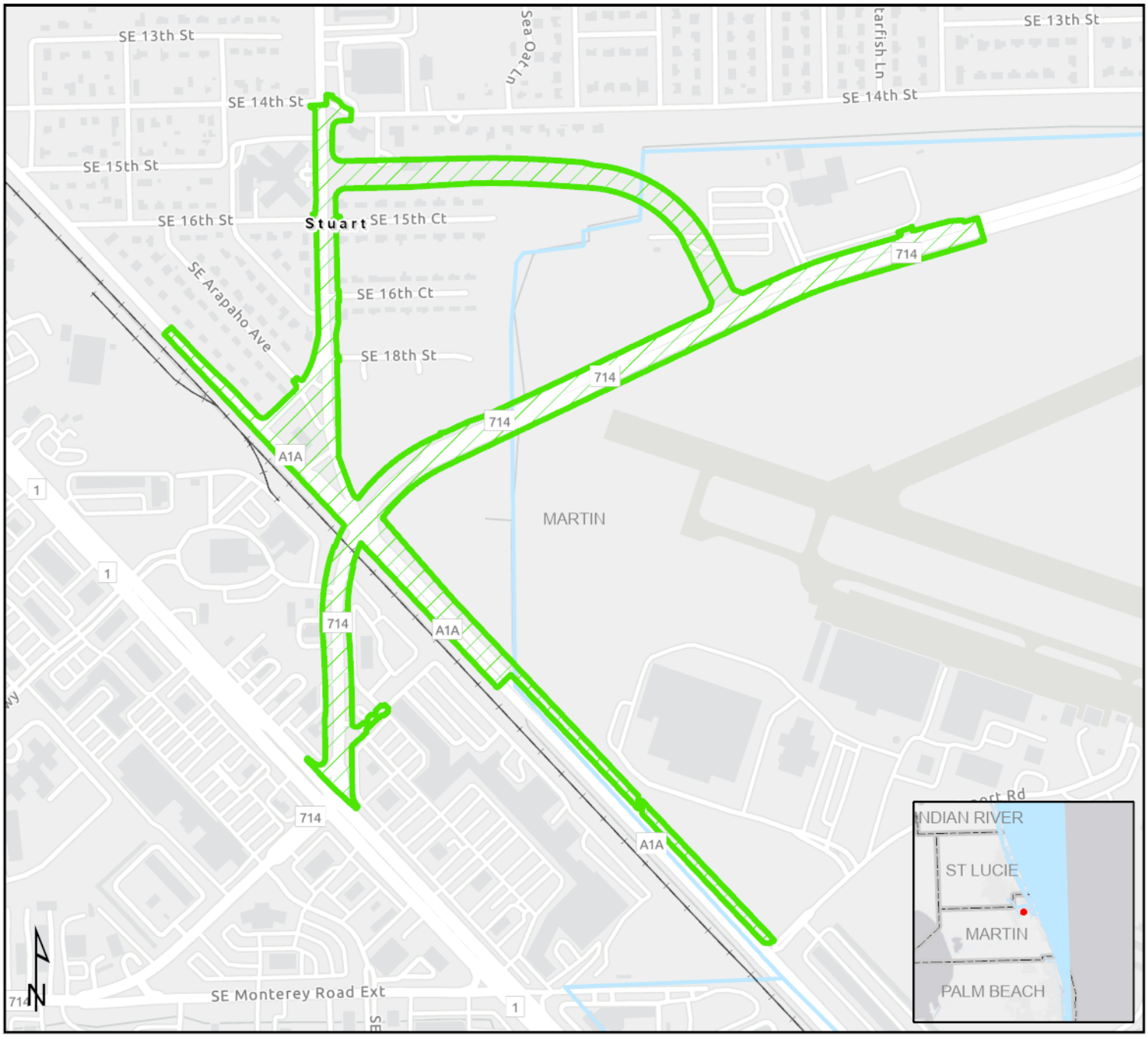

Coastal and Marine

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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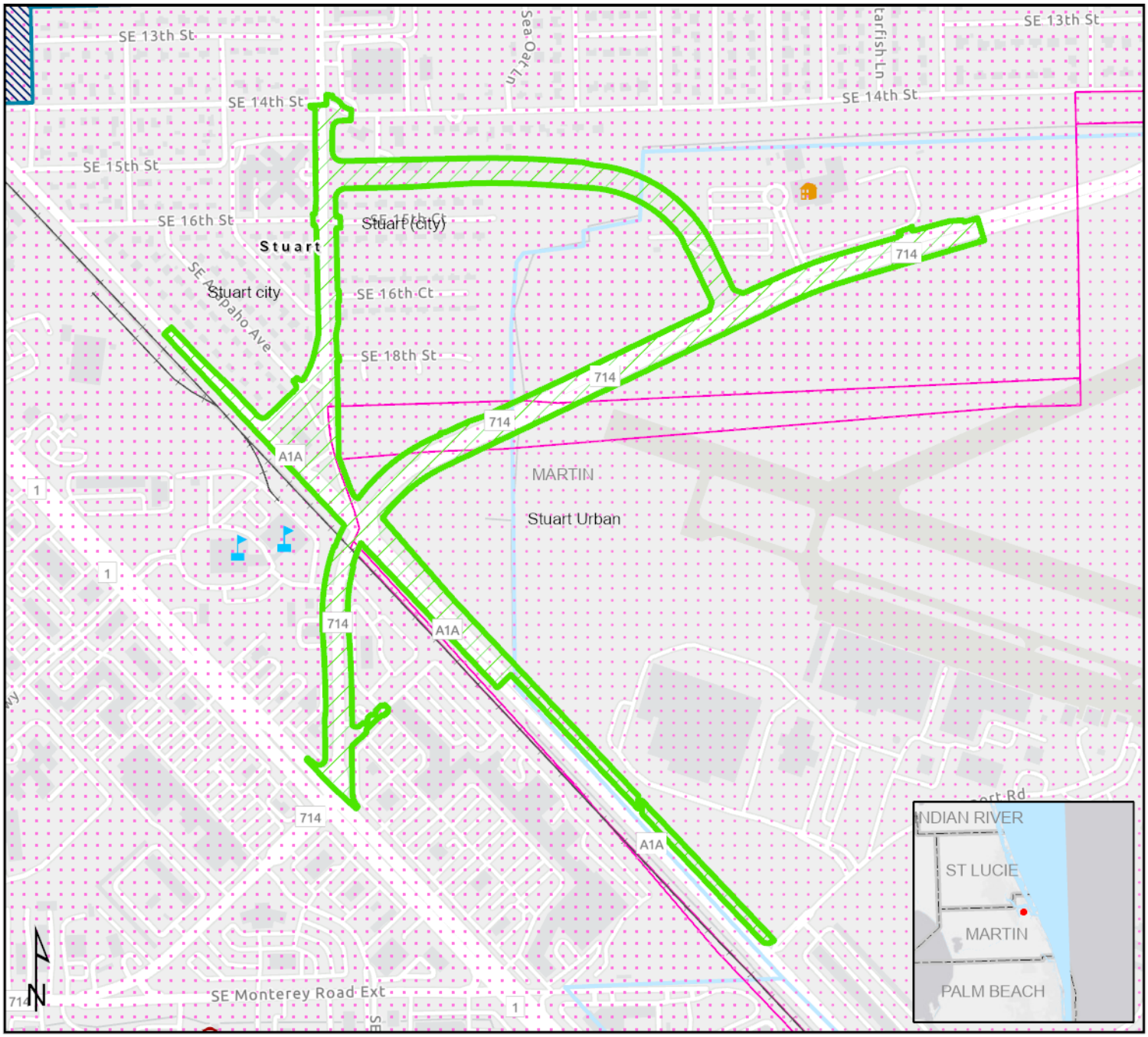

Community Services

- ETDM Alternative Poly
- Railroad
- County Boundaries
- Community Center
- Fire Station
- School
- Park Boundary
- Community Boundary
- River, Stream or Canal

0 500 1,000 US Feet

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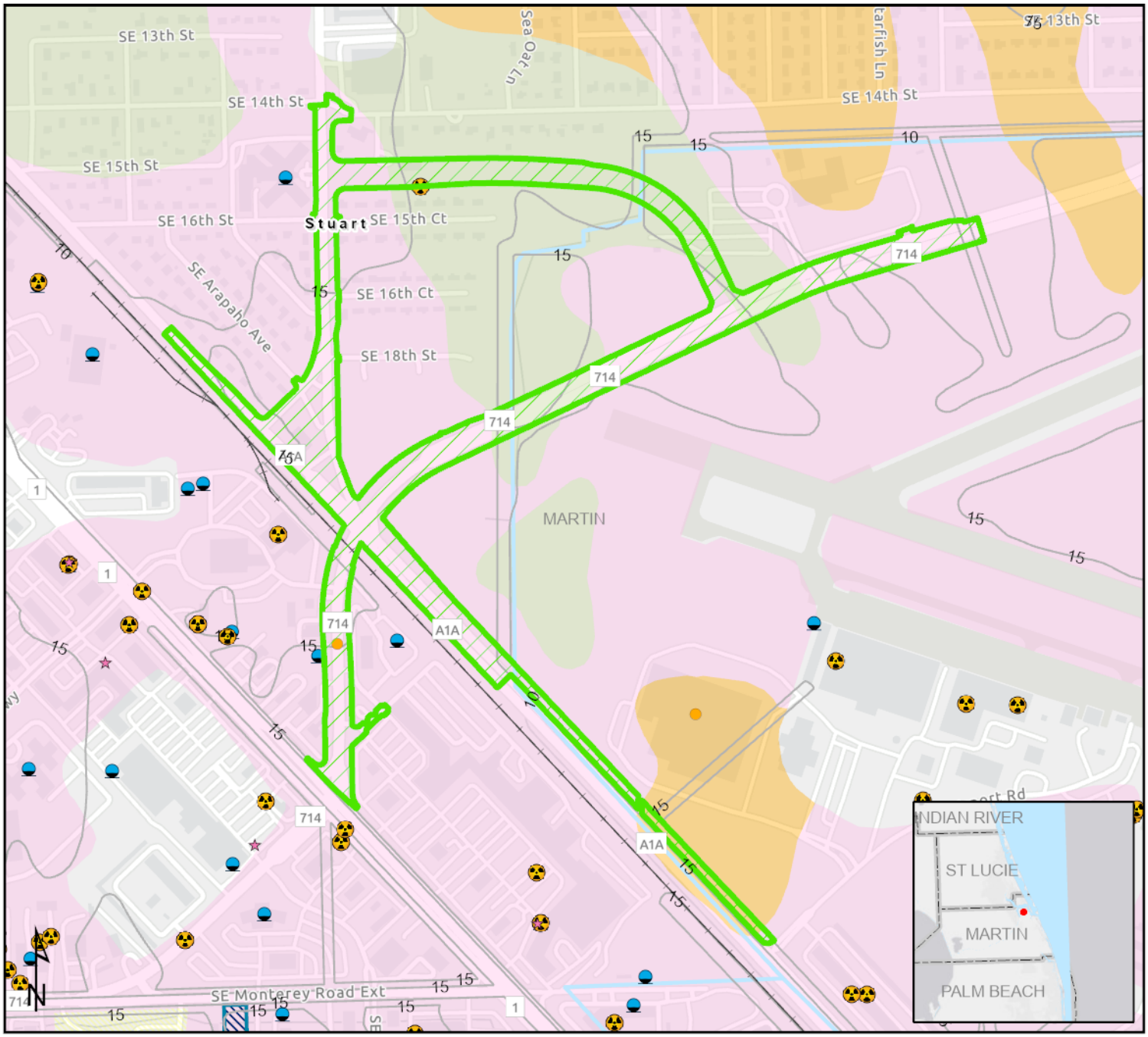

Contamination

- ETDM Alternative Poly
- Toxic Release Inventory
- Dry Cleaning Facility
- Hazardous Material Site
- FDEP Tanks
- Railroad
- 5 FT Contour
- County Boundaries
- Brownfield Area
- River, Stream or Canal

Soil Drainage

- Well Drained
- Moderately Well Drained
- Somewhat Poorly Drained
- Poorly Drained

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:22 PM

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North 1

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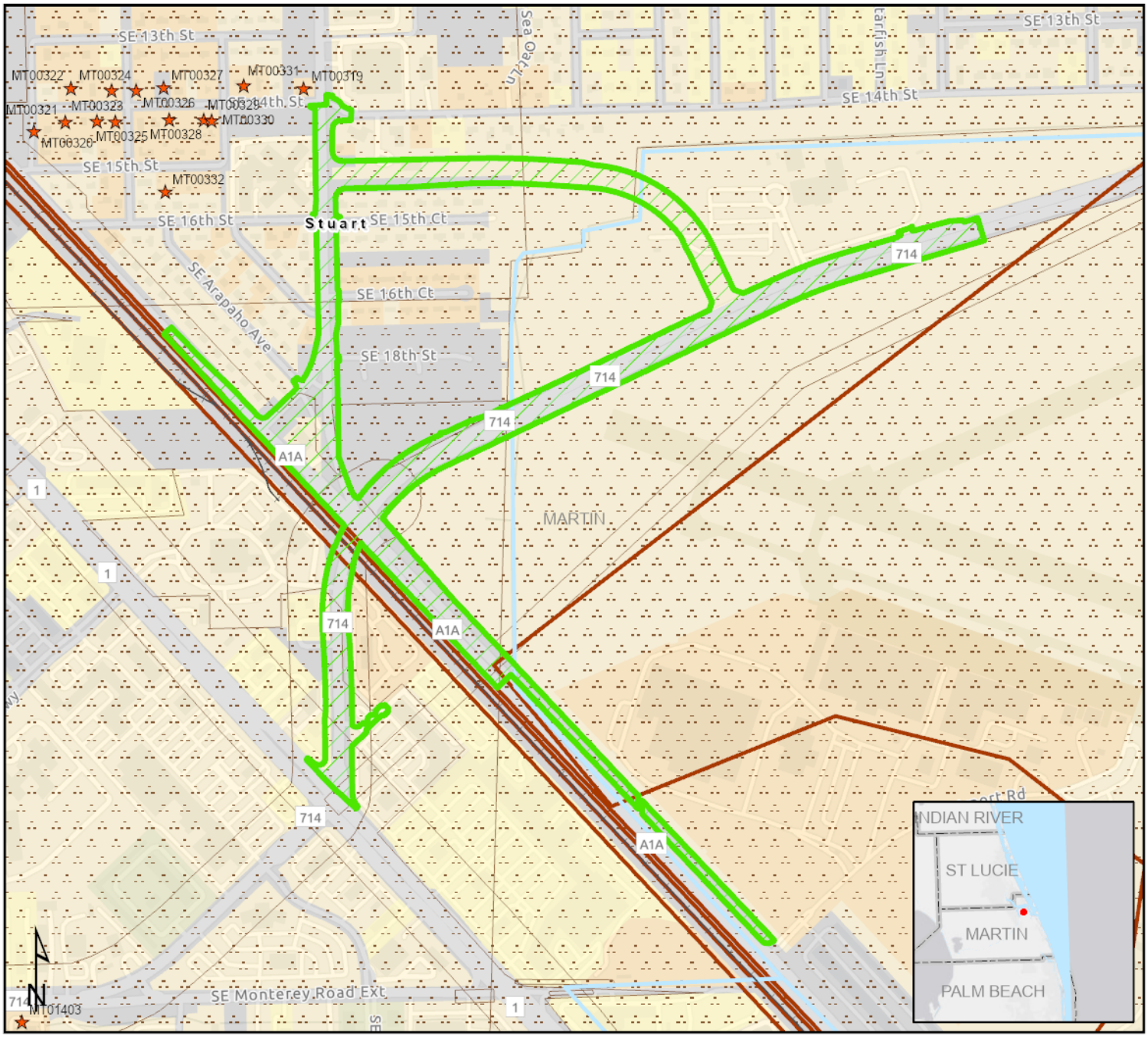

Cultural Resource

- ETDM Alternative Poly
- Historic Structure
- Railroad
- County Boundaries
- River, Stream or Canal
- Historic Resource Group
- Cultural Resource Field Survey Area
- Parcels (Forty to Forty-nine years old)

Pre & Post 1970

- Pre 1970
- Post 1970
- Parcels with no values

0 500 1,000 US Feet

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Creation Date: 2/19/2026 3:01 PM

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North 1

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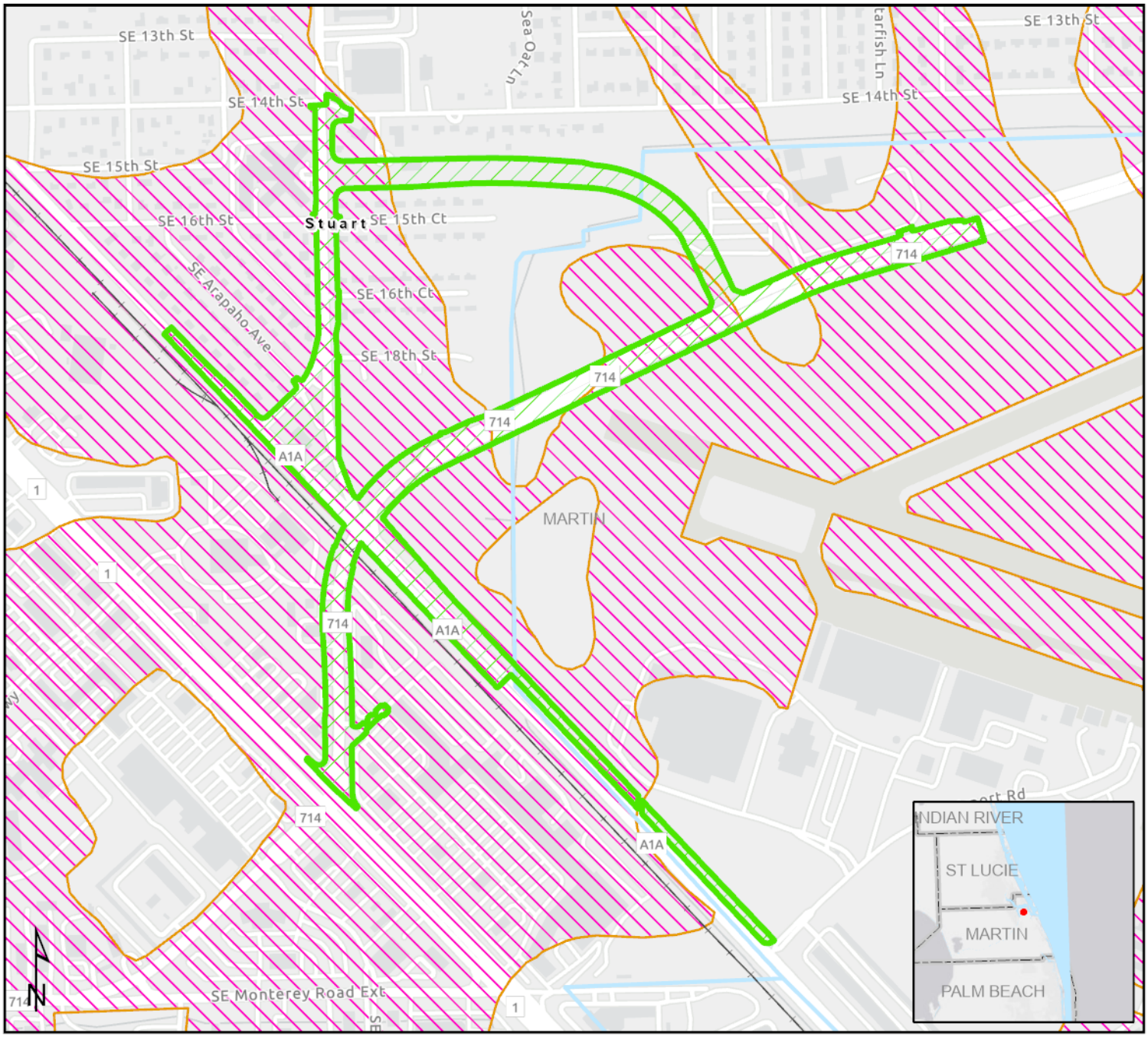

Farmlands

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Prime Farmland Soils

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:22 PM

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North 1

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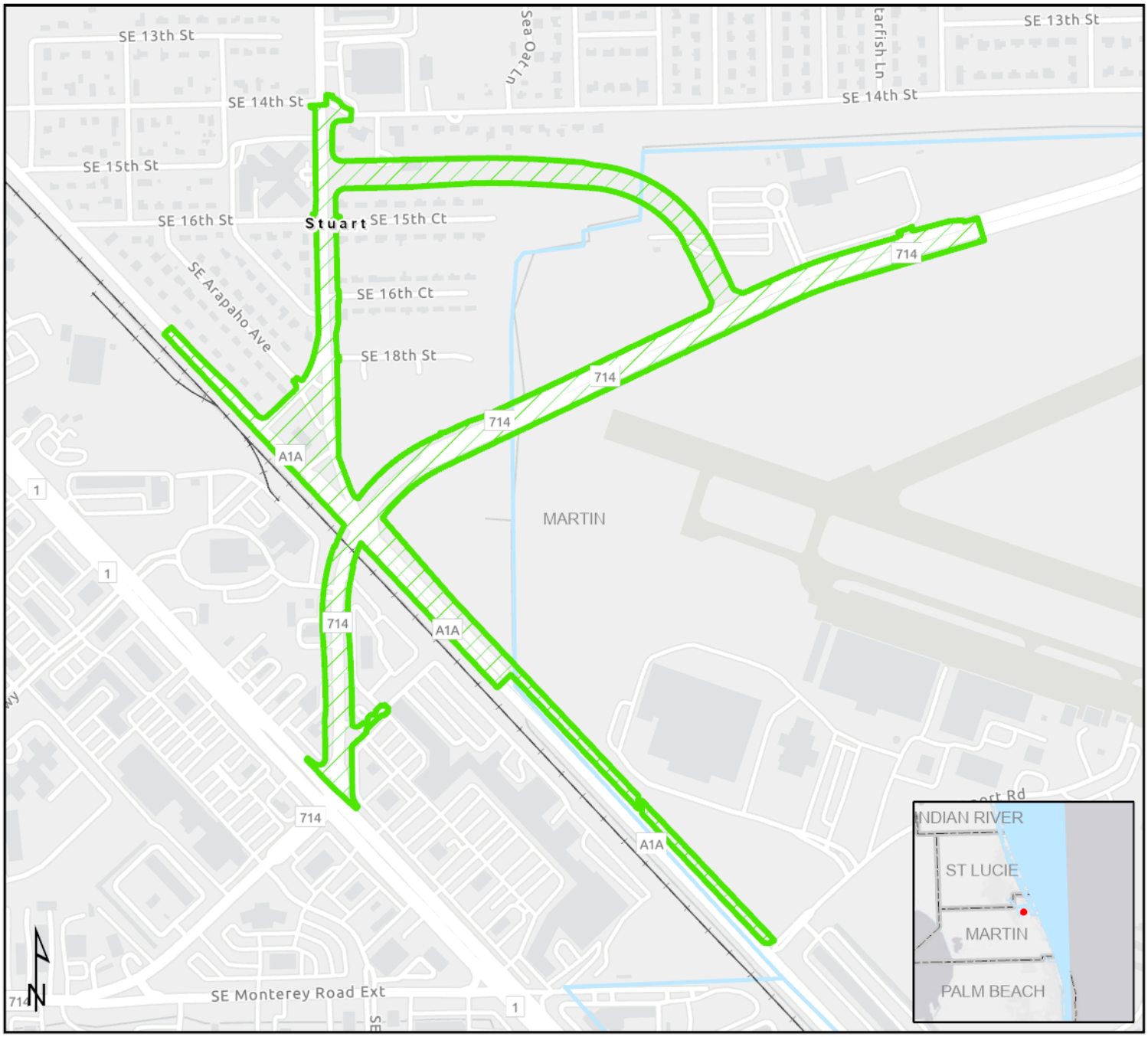

Floodplains

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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Creation Date: 12/17/2025 1:22 PM

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North 1

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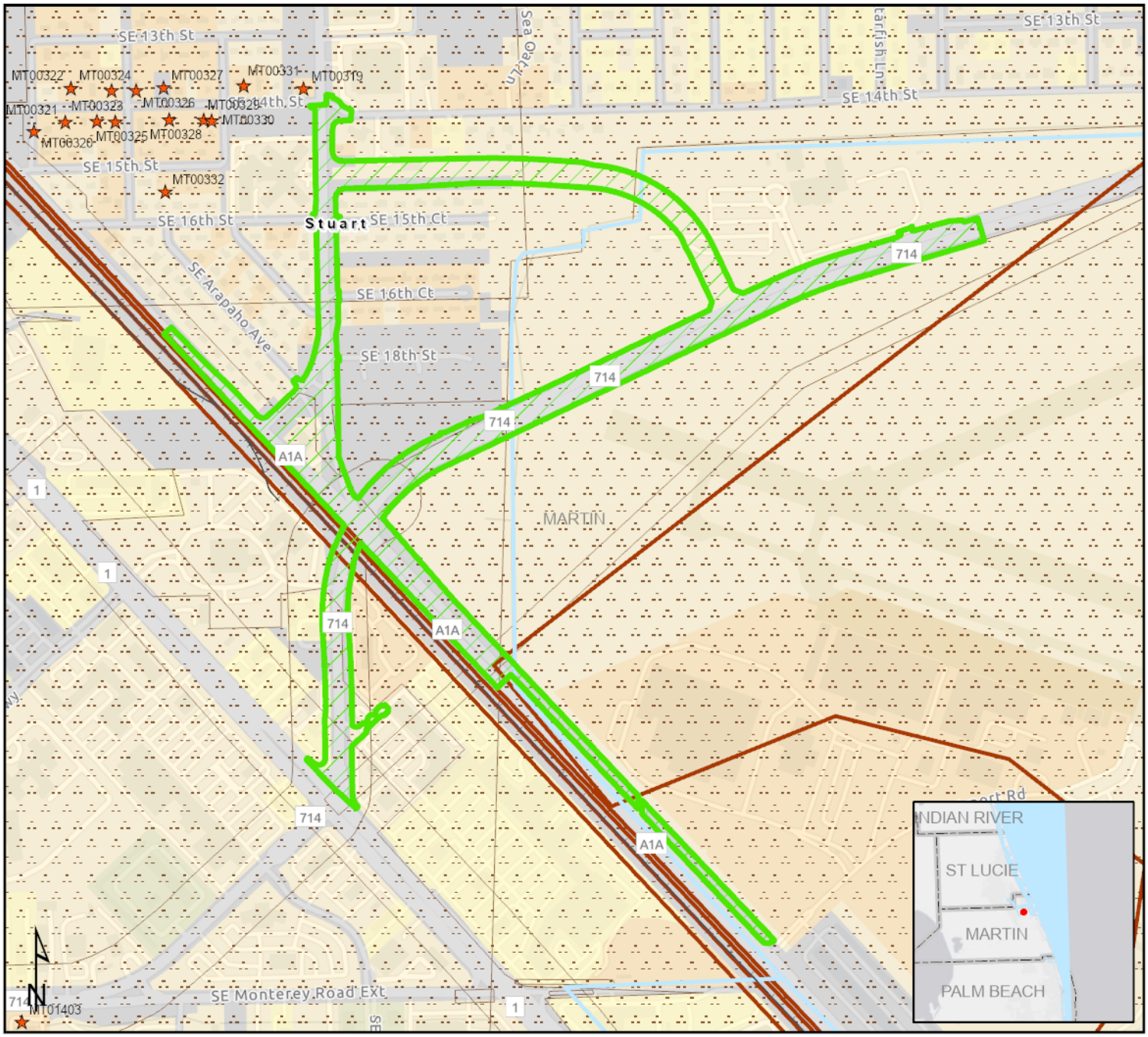

Historic Resource

- ETDM Alternative Poly
- Historic Structure
- Railroad
- County Boundaries
- River, Stream or Canal
- Historic Resource Group
- Cultural Resource Field Survey Area
- Parcels (Forty to Forty-nine years old)

Pre & Post 1970

- Pre 1970
- Post 1970
- Parcels with no values

0 500 1,000 US Feet

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Creation Date: 2/2/2026 3:42 PM

North 1

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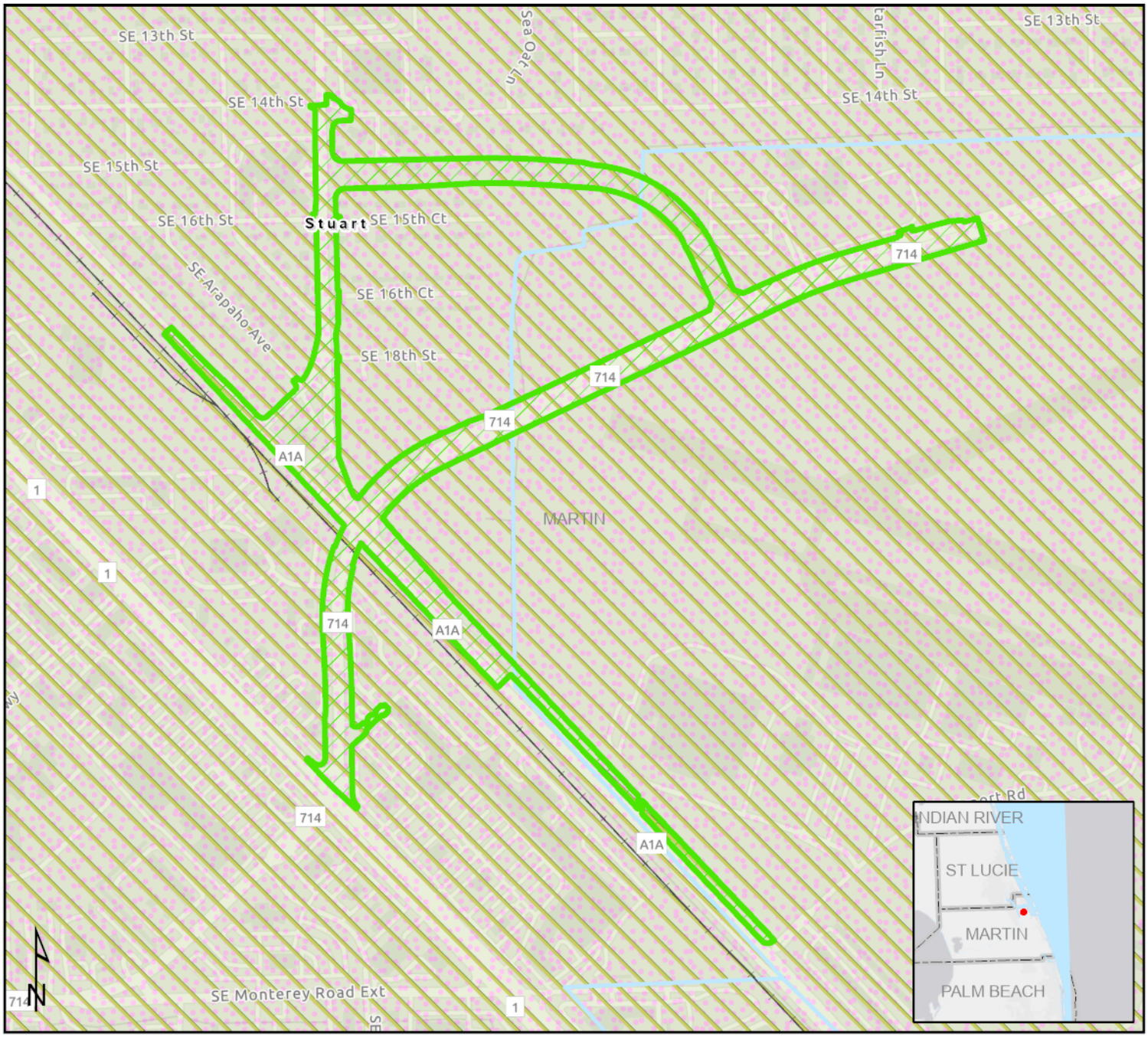

Hydrogeology

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Recharge Areas of the Floridan Aquifer

- Disharge < 1

USGS Geological Units (Epoch)

- Pleistocene/Holocene

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:22 PM

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North 1

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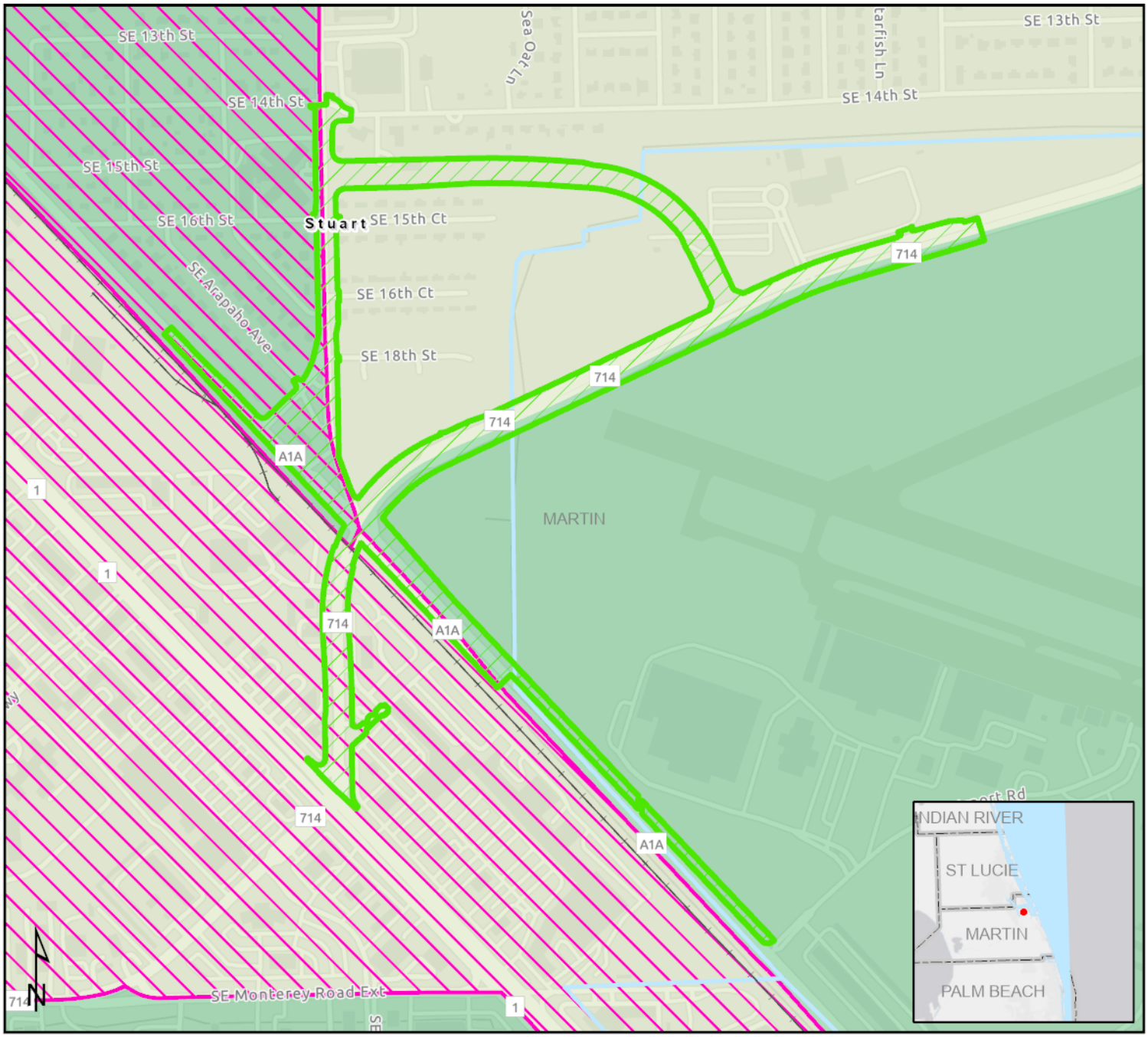

Income

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Below Poverty (>20%)

Median Household Income

- 30,000 - 49,999
- 50,000 - 79,999

0 500 1,000 US Feet

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North 1

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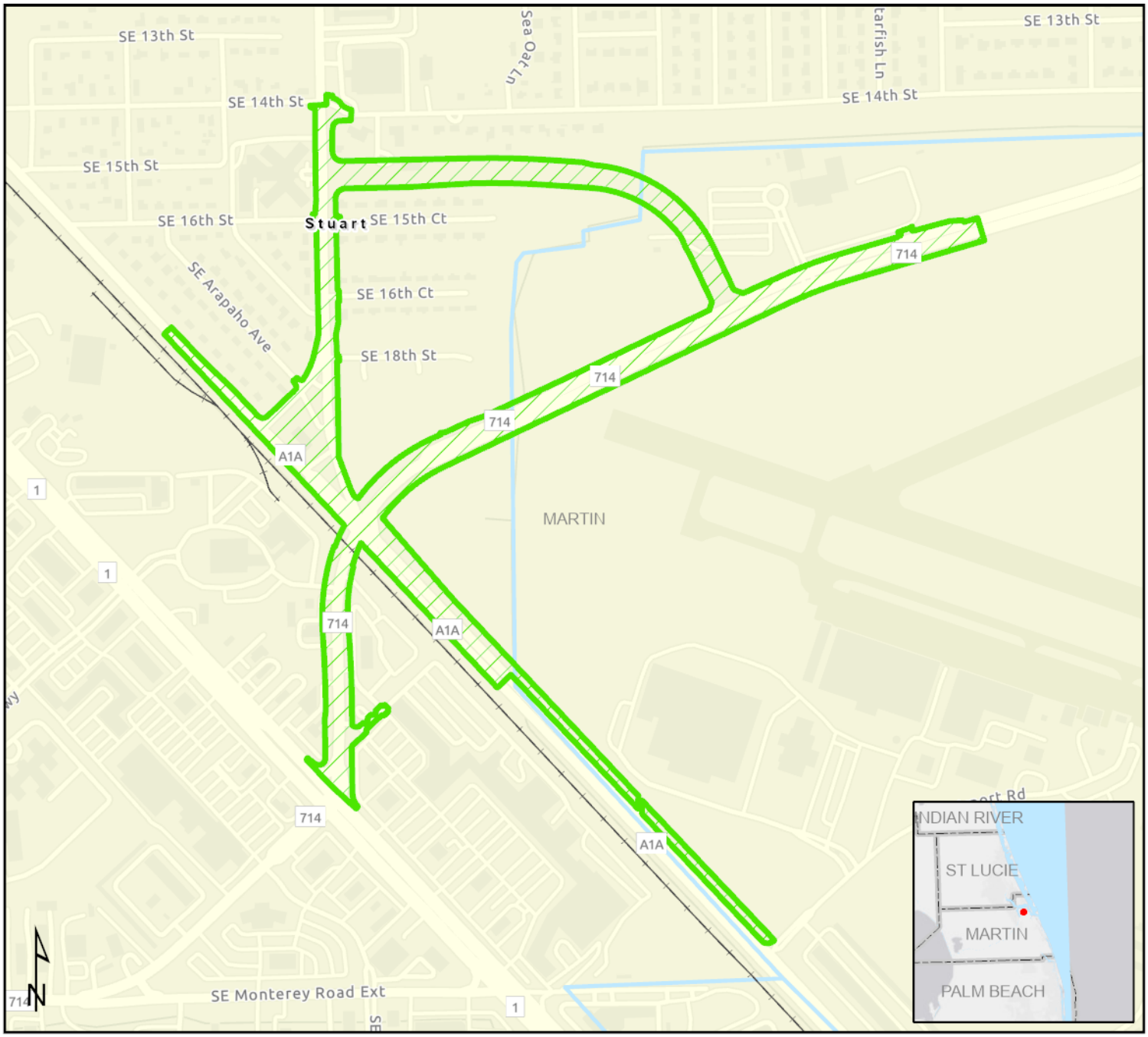

Integrated Wildlife Model

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

IWHRS_2009

- Low Habitat Quality

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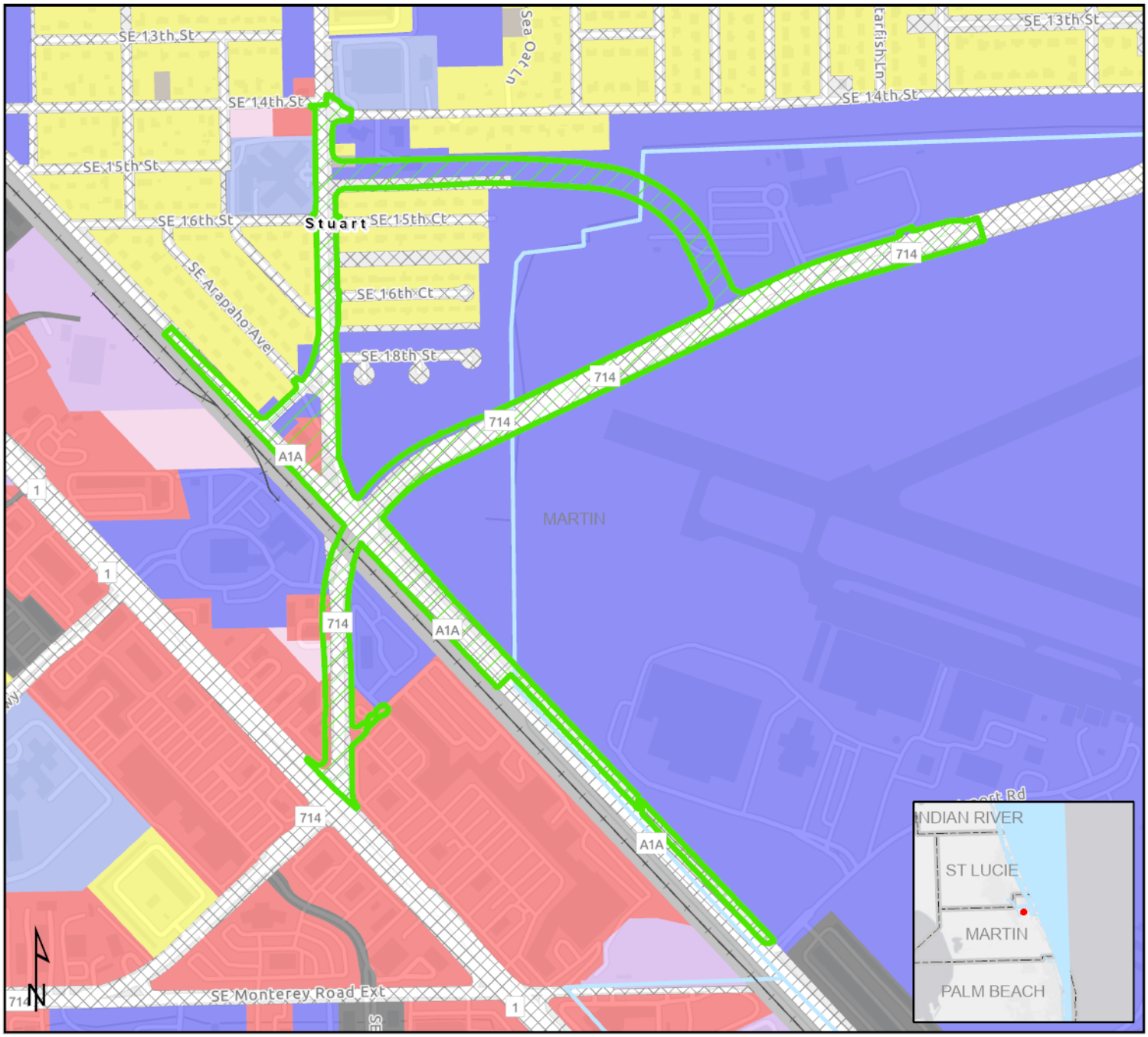

Land Use

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Generalized Land Use (Parcels Derived)

- Centrally Assessed
- Industrial
- Institutional
- Parcels With No Values
- Public/Semi-Public
- Recreation
- Residential
- Retail/Office
- Right-of-Way
- Vacant Nonresidential
- Vacant Residential

0 500 1,000 US Feet

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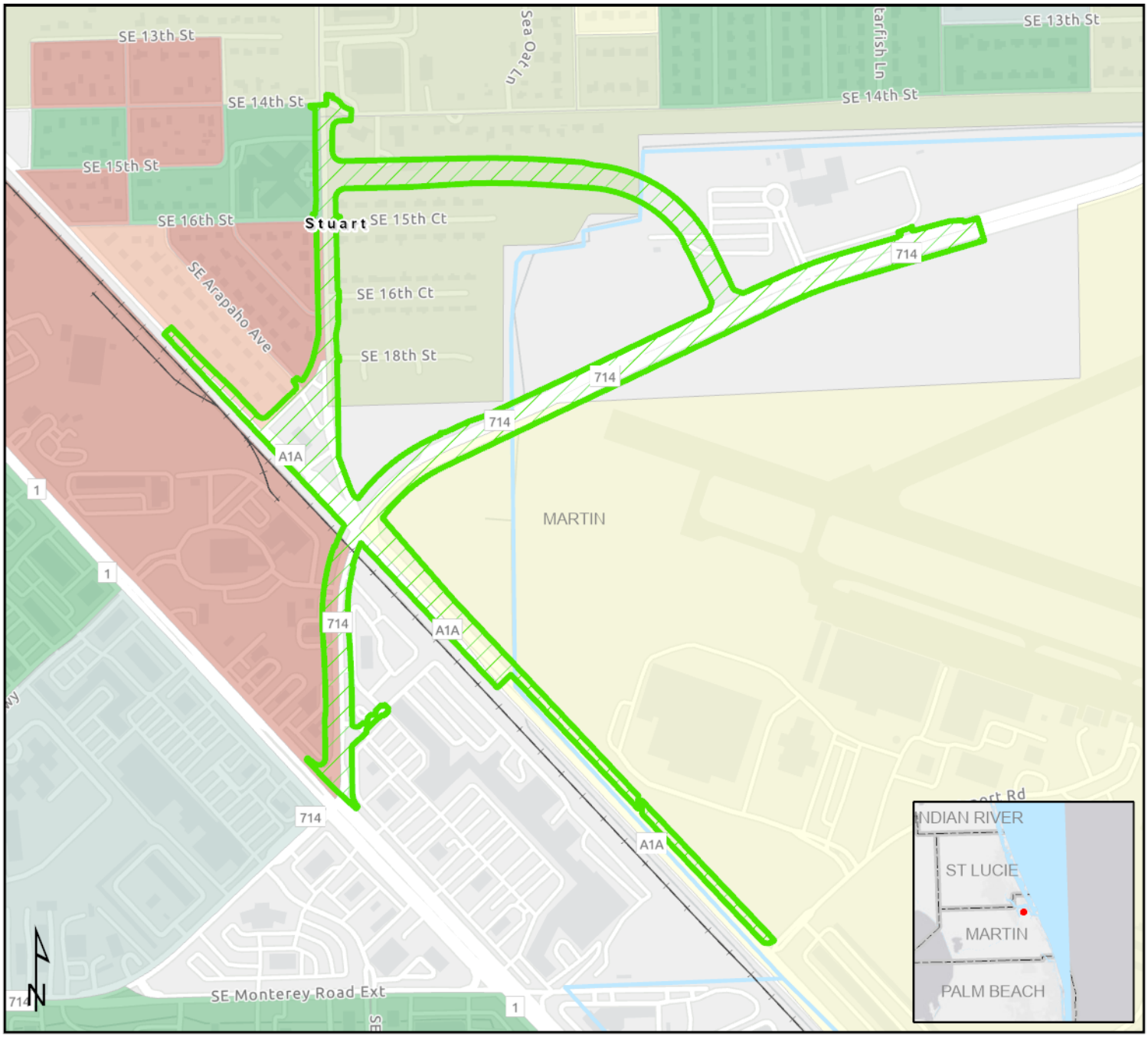

Minority Population

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Percent Minority Population (2020)

- 0 - 6
- 7 - 20
- 21 - 40
- 41 - 60
- 61 - 85
- 86 - 100

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:23 PM

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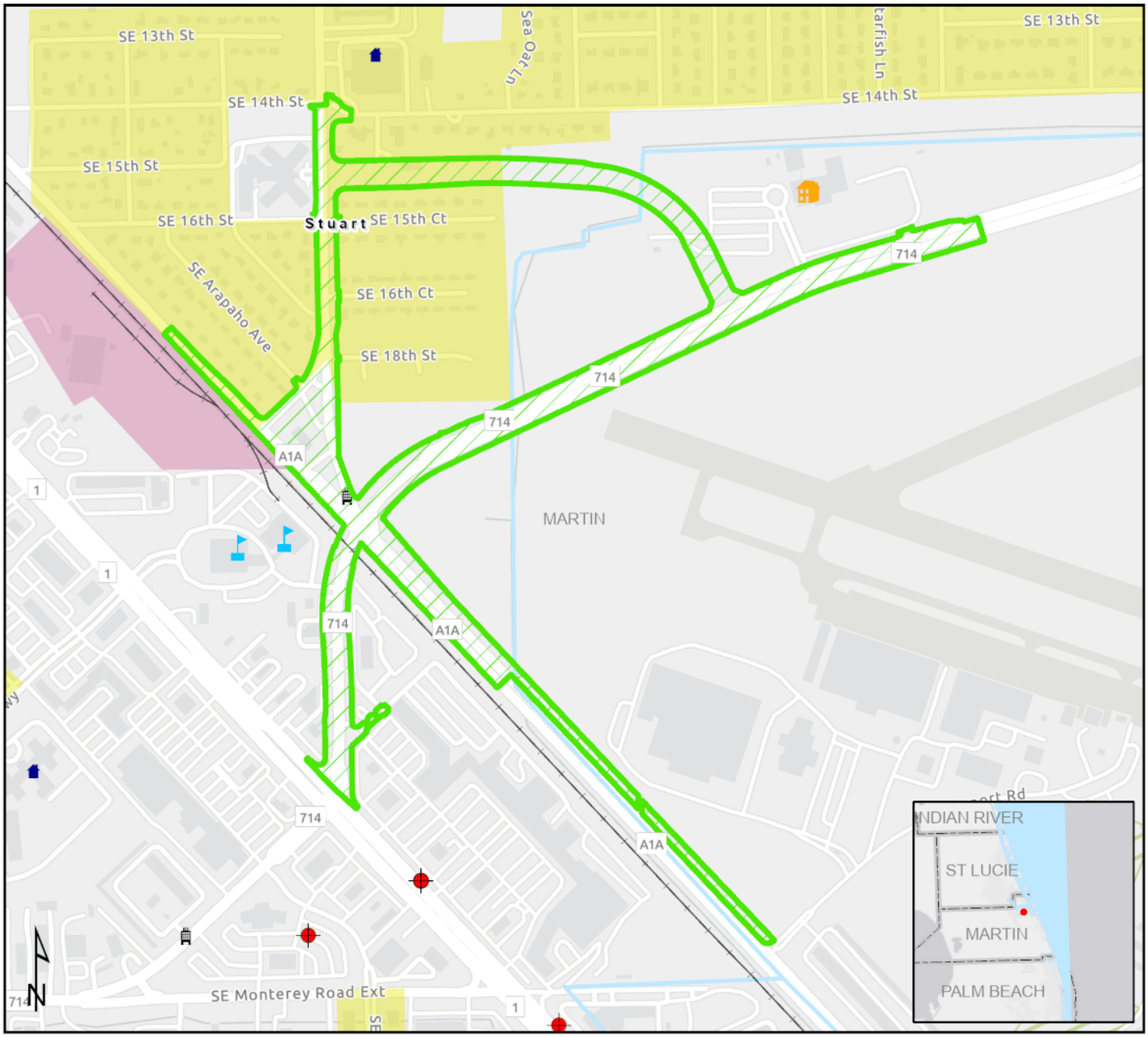

Noise

- ETDM Alternative Poly
- Condo Owners Associations
- Laser On-site
- Group Care Facilities
- Community Center
- School
- Railroad
- County Boundaries
- River, Stream or Canal
- Planned Unit Developments
- Residential
- Industrial

0 500 1,000 US Feet

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Creation Date: 2/2/2026 3:43 PM

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North 1

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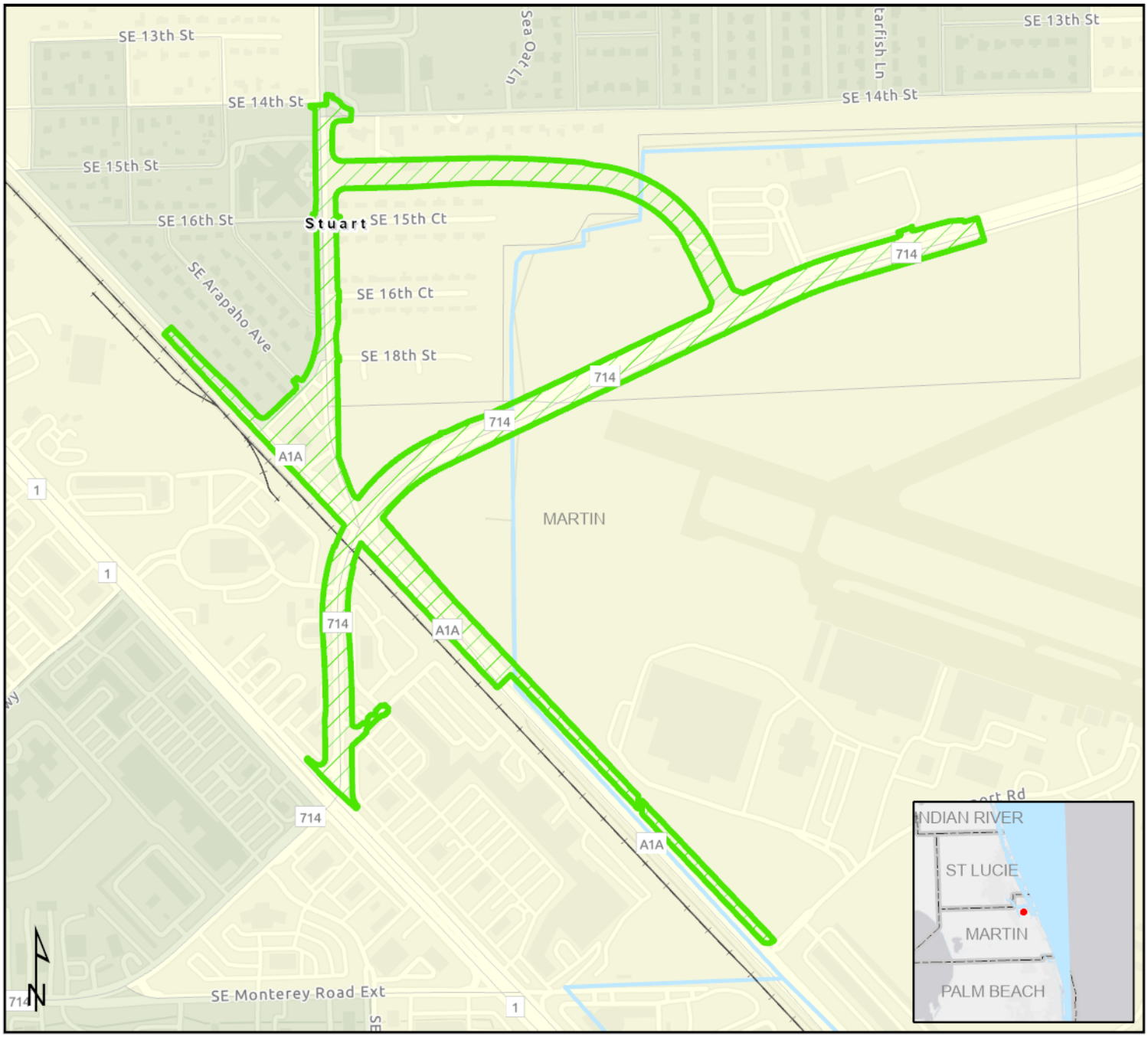

Population Density

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Population Per Acre (2020)

- 0 - 4.9
- 5 - 29.9

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:23 PM

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North 1

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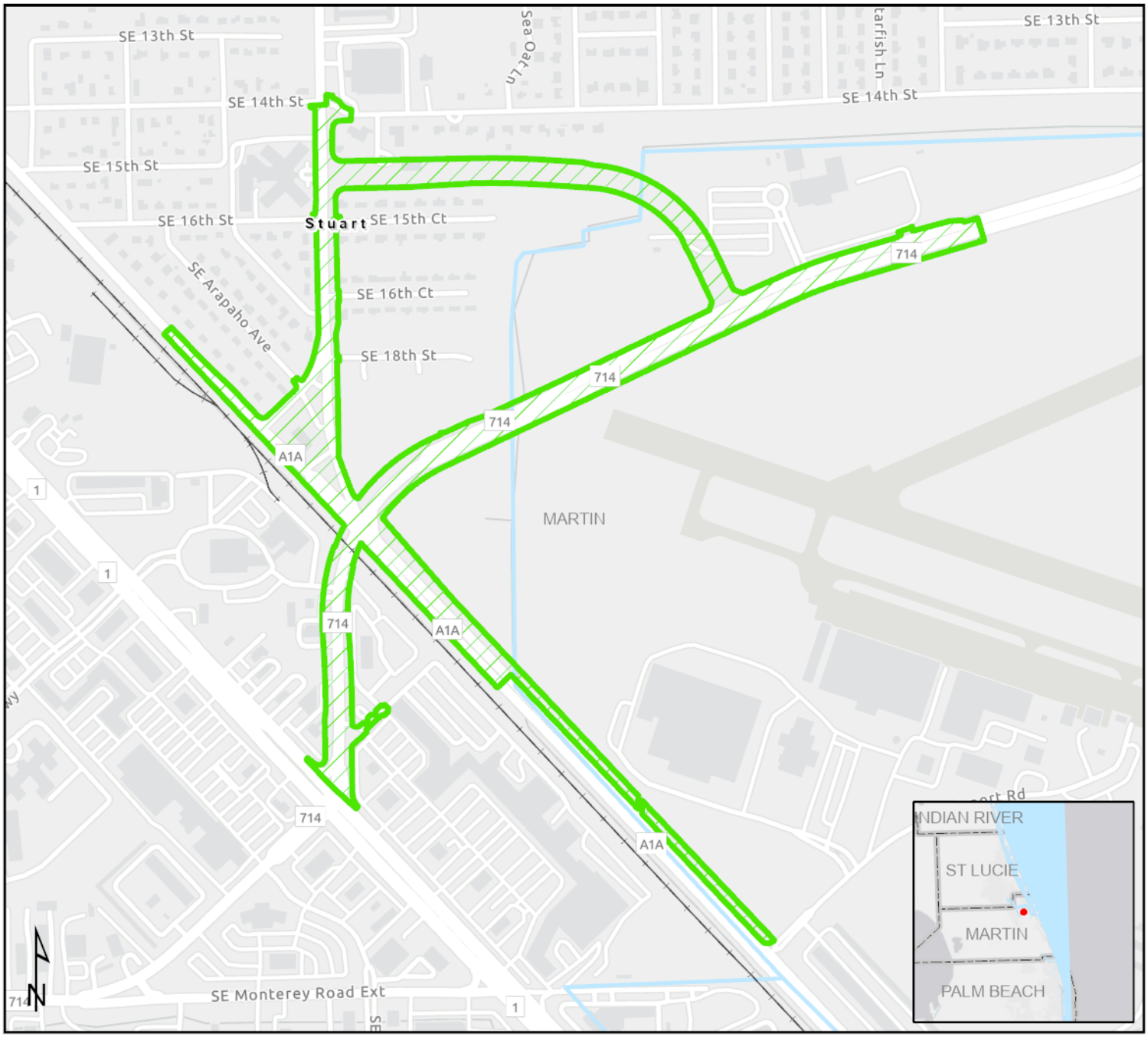

Recreational Areas

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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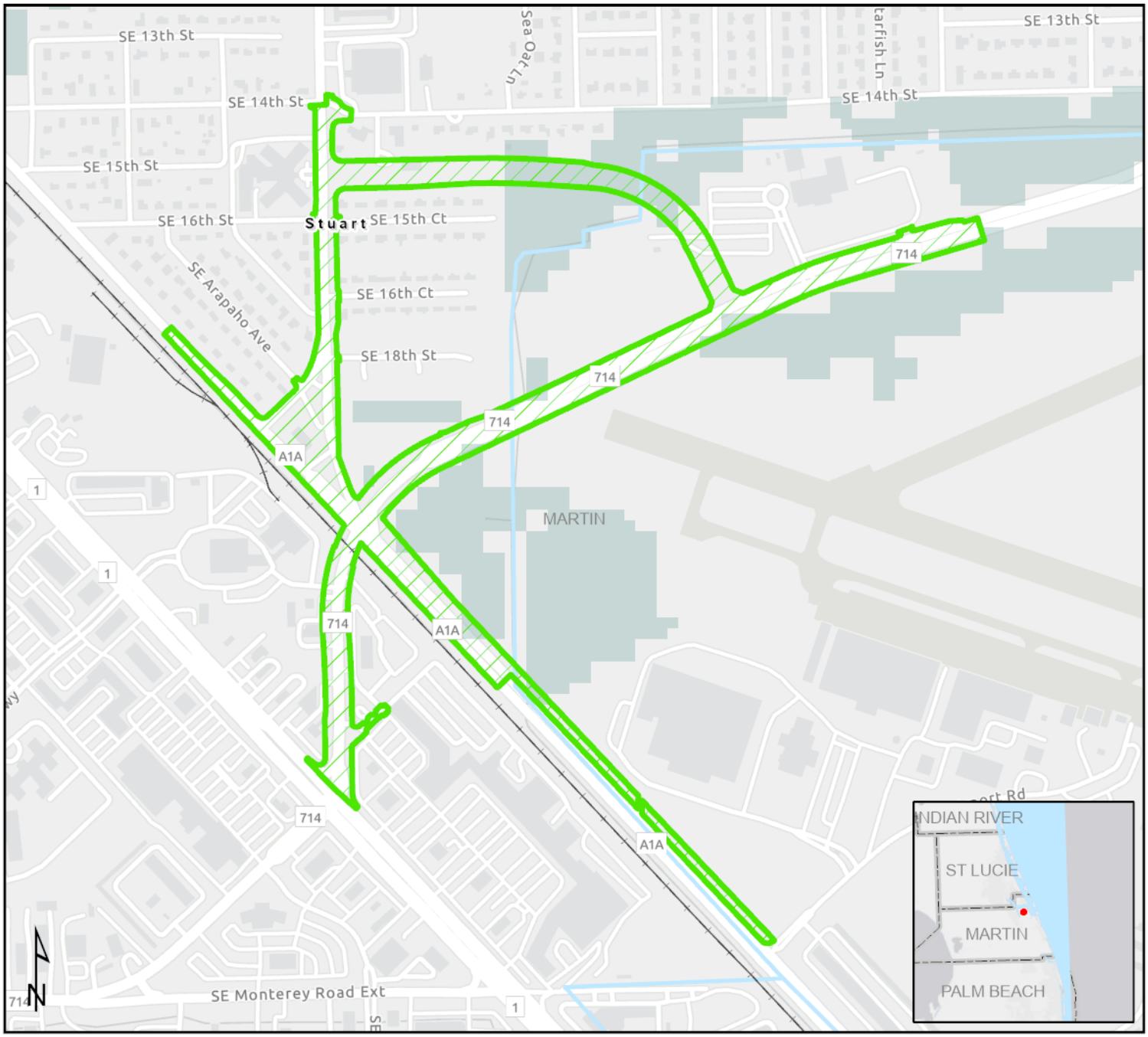

Species Potential

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Potential Habitat Richness

- 3 - 5 Species

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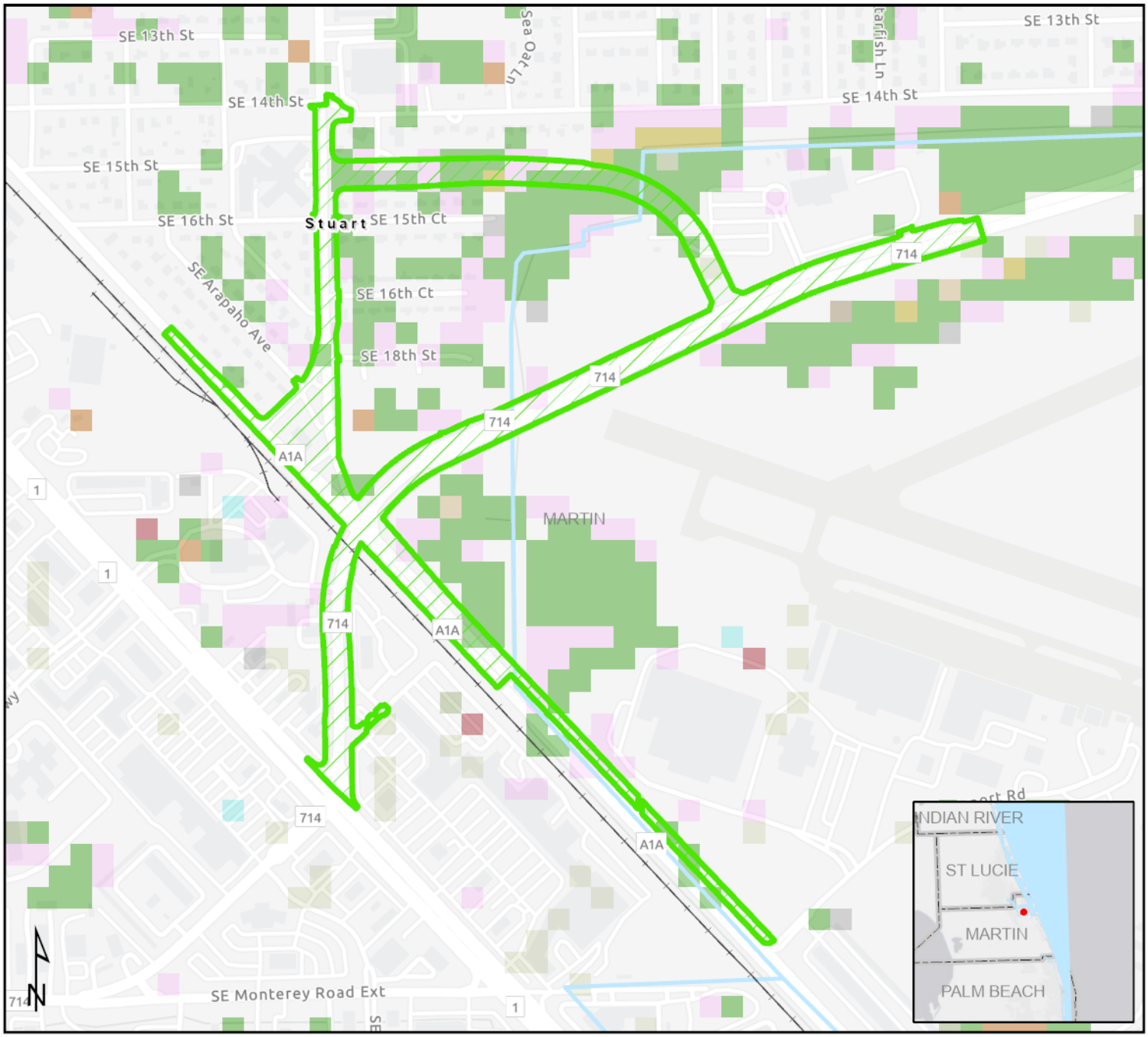

Vegetation

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

GFCHAB_2003

- Dry Prairie
- Hardwood Hammocks and Forests
- Pinelands
- Freshwater Marsh and Wet Prairie
- Shrub Swamp
- Cypress Swamp
- Cypress/Pine/Cabbage Palm
- Mixed Wetland Forest
- Hardwood Swamp
- Shrub and Brushland
- Bare Soil/Clearcut
- High Impact Urban
- Low Impact Urban

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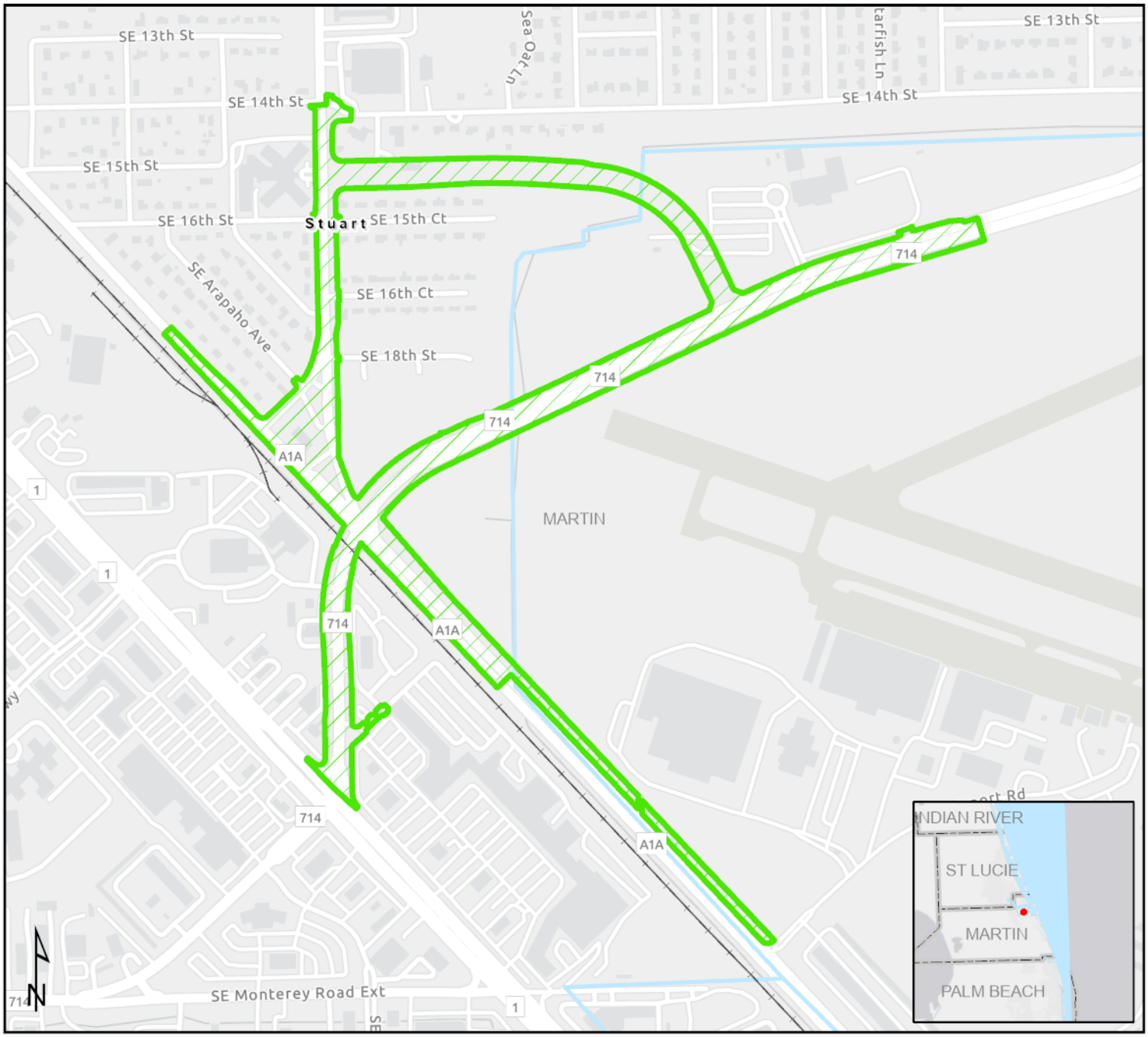

WATERSS Base

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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Creation Date: 2/19/2026 3:02 PM

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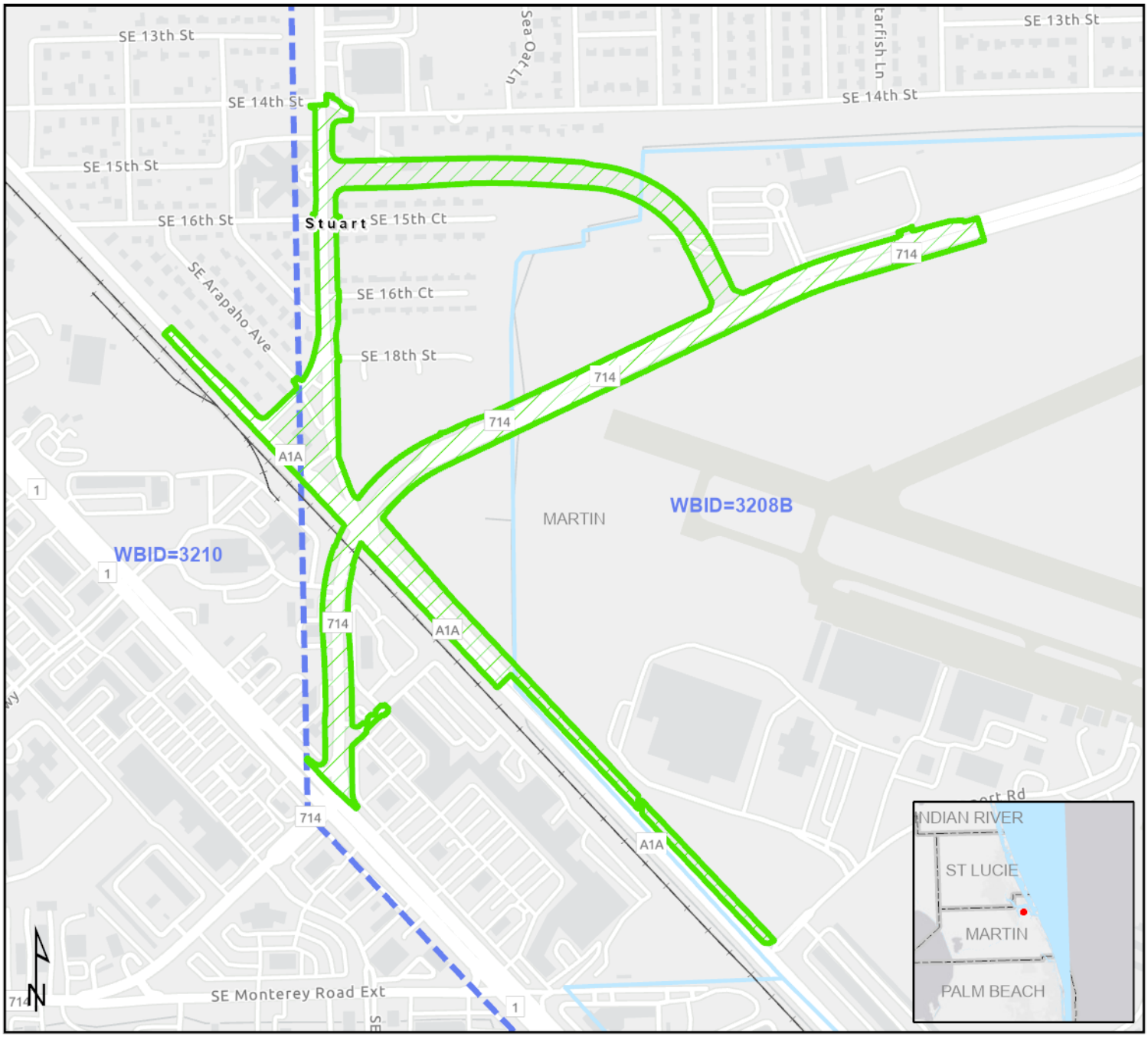

Water Resource

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Drainage Basin

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Creation Date: 12/17/2025 1:24 PM

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North 1

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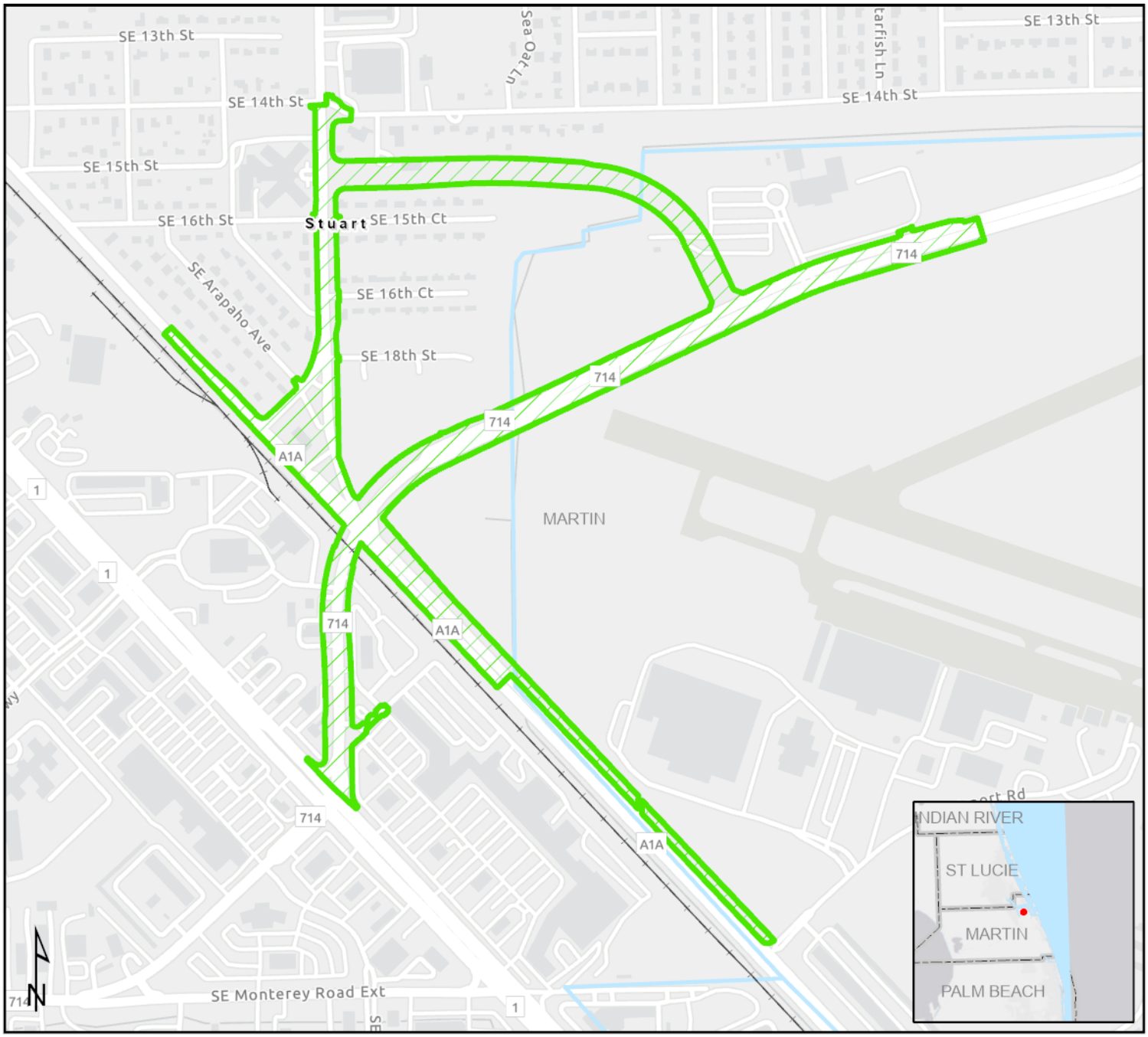

Wetlands and Surface Waters

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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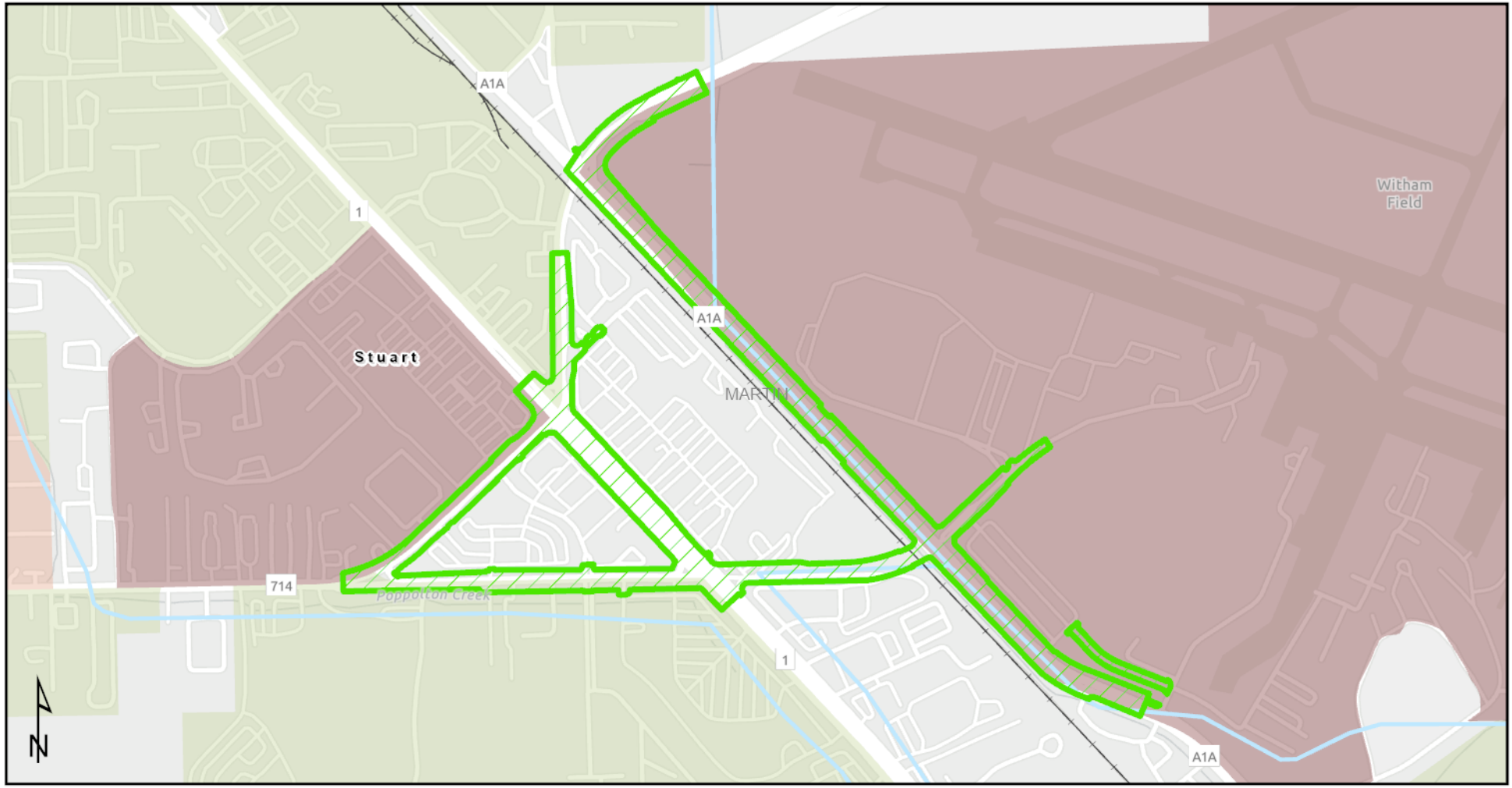
South 1

Not Specified TO Not Specified



Age Distribution

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Median Age (2020)

- 18 - 30
- 30 - 65
- > 65

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:34 PM

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South 1

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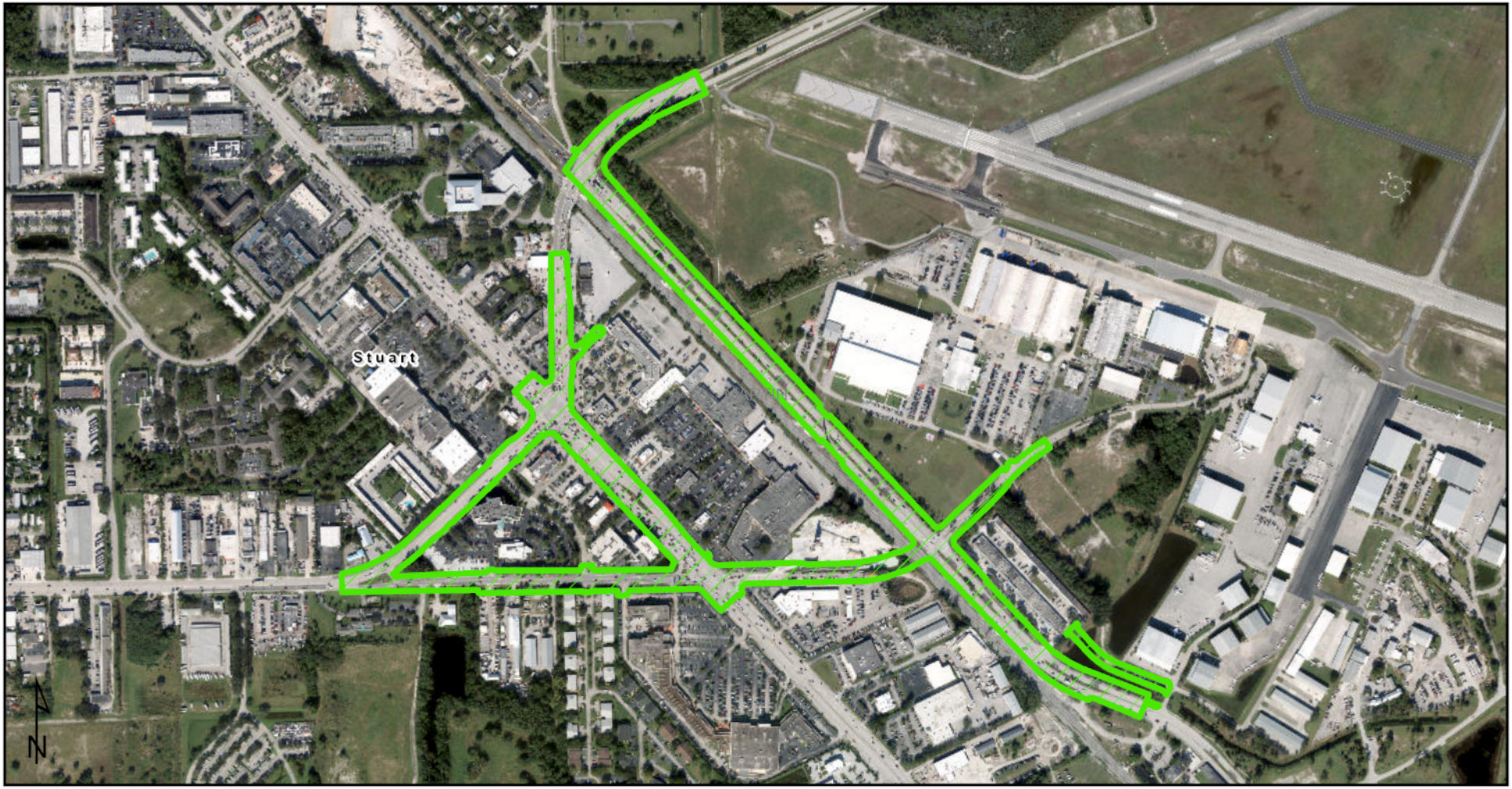

Analysis Area Aerial

ETDM Alternative Poly

County Boundaries

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:53 PM

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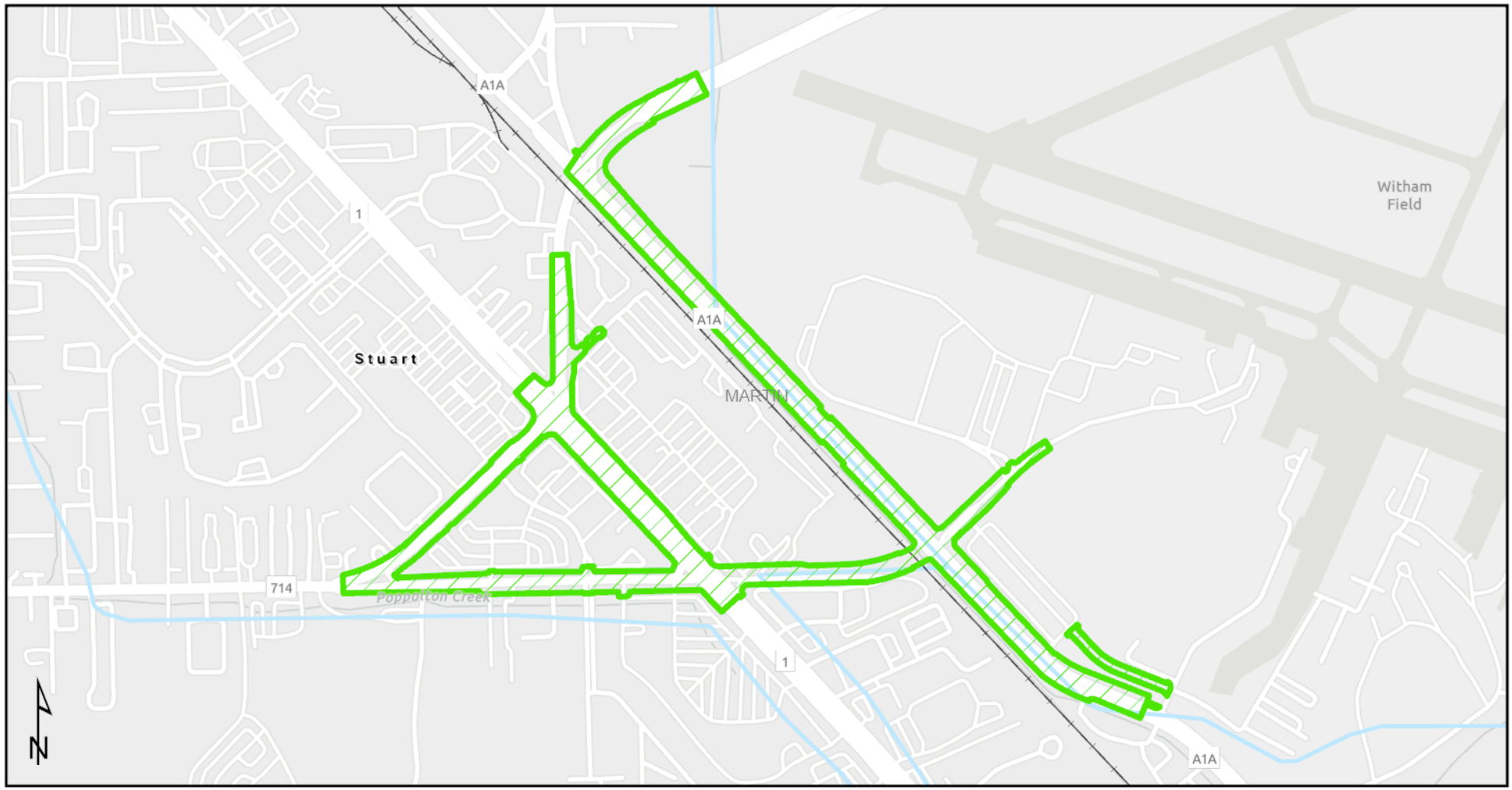
South 1

Not Specified TO Not Specified



Analysis Area Base

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:34 PM

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South 1

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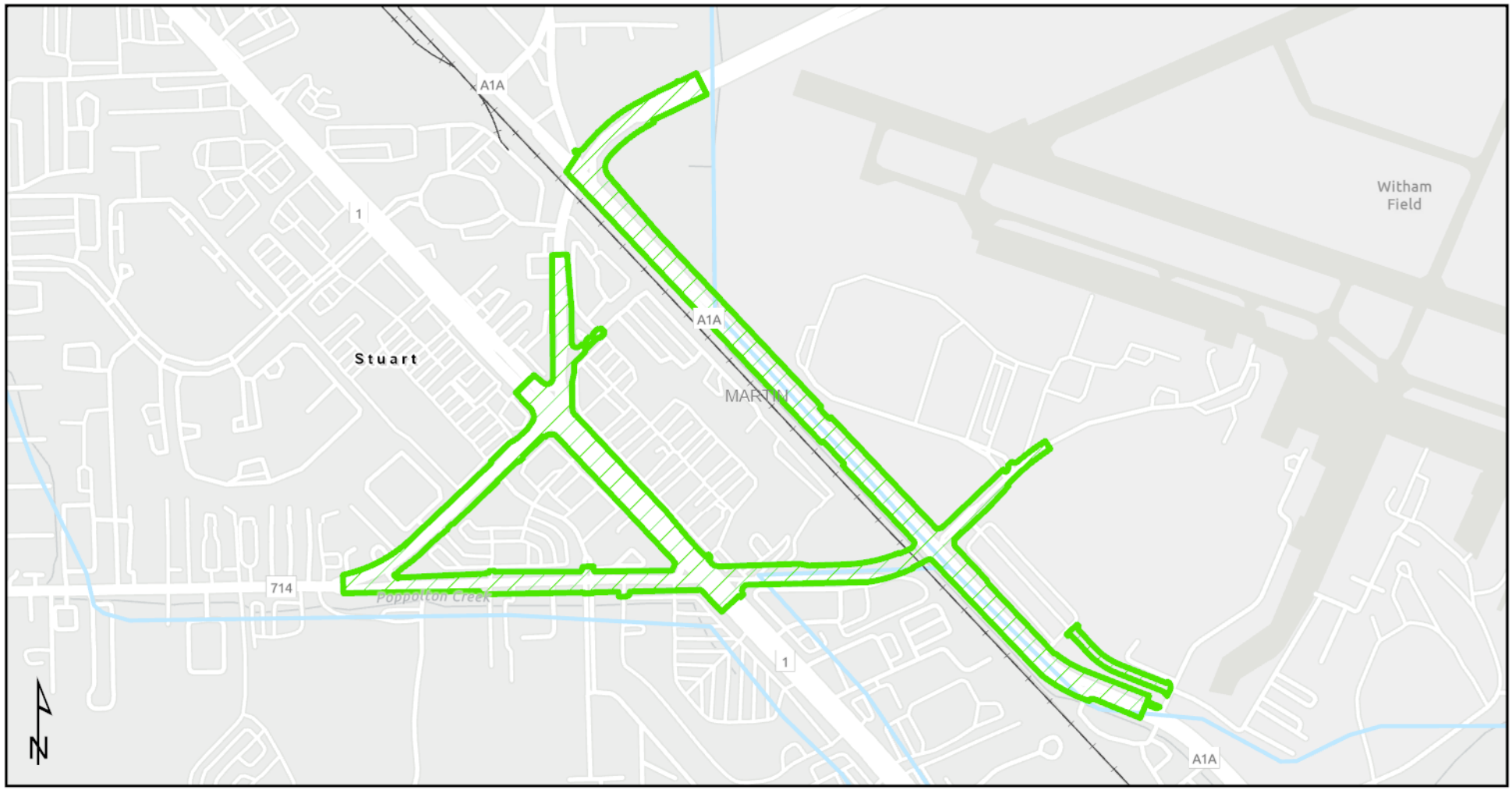

Coastal and Marine

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

0 500 1,000 US Feet

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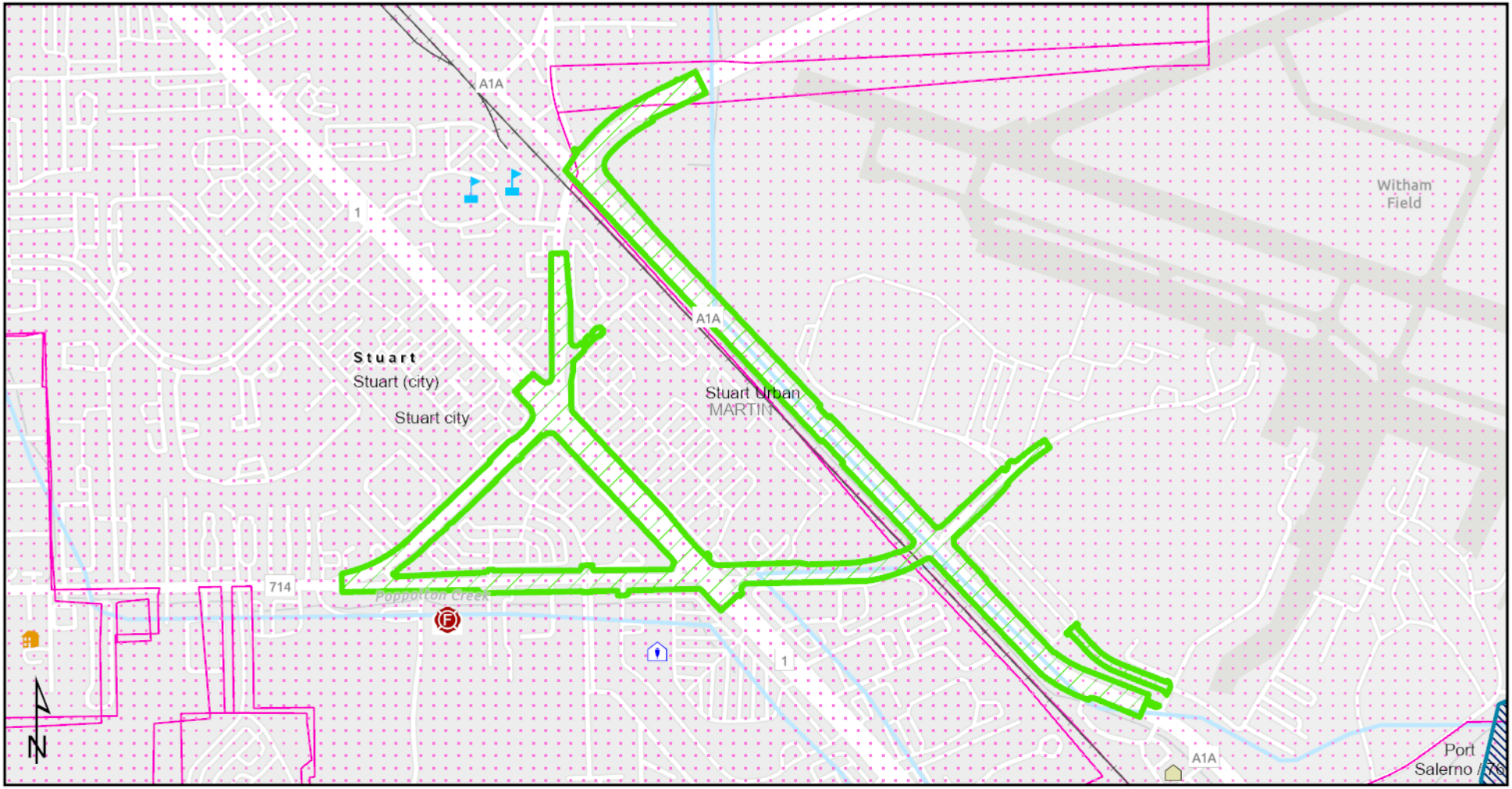
14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

South 1

Not Specified TO Not Specified



Community Services

- ETDM Alternative Poly
- Railroad
- County Boundaries
- Civic Center
- Community Center
- Cultural Center
- Fire Station
- School
- Park Boundary
- Community Boundary
- River, Stream or Canal

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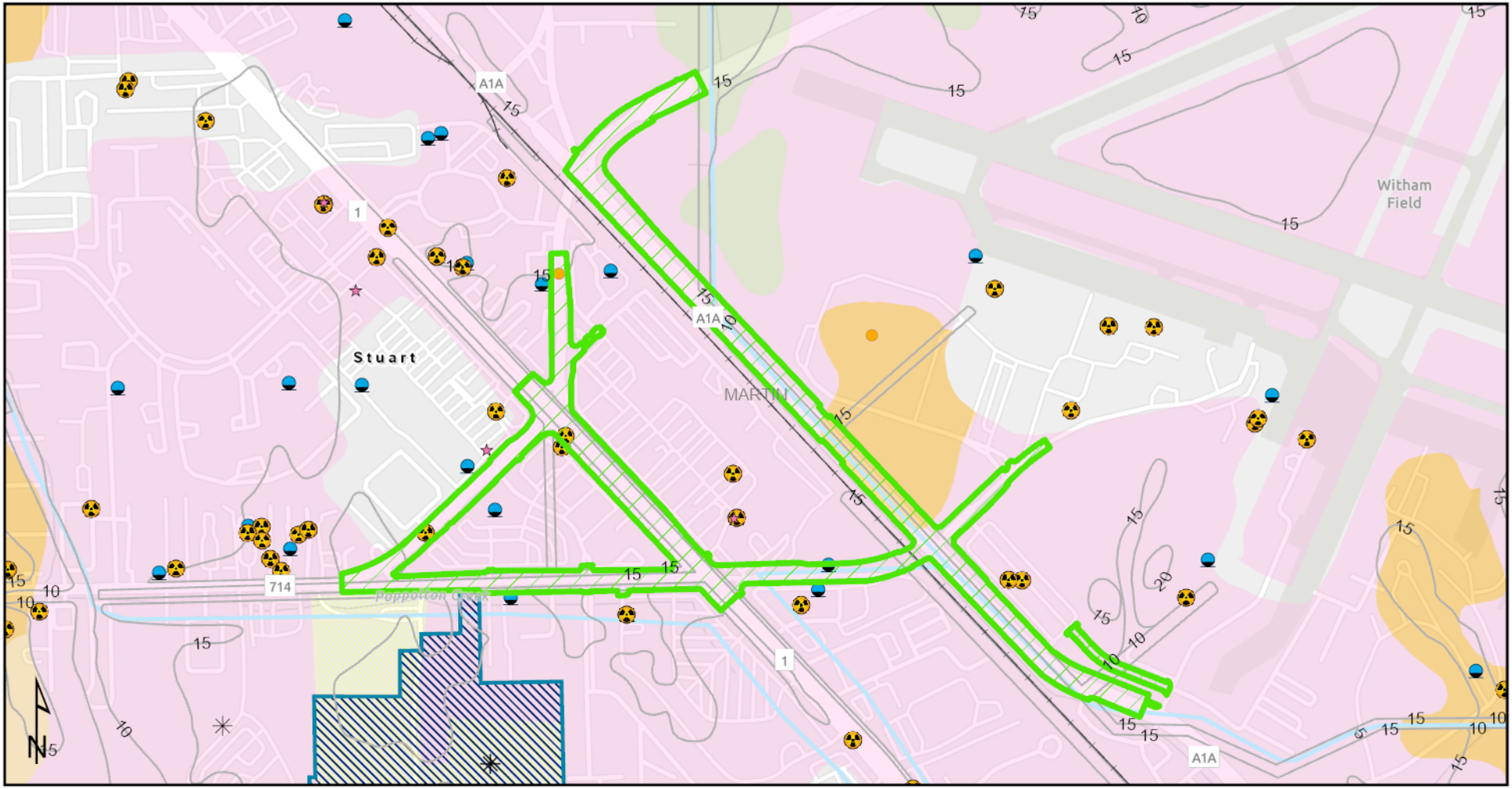

Contamination

- ETDM Alternative Poly
- Toxic Release Inventory
- Dry Cleaning Facility
- Solid Waste Facility
- Hazardous Material Site
- FDEP Tanks
- Railroad
- 5 FT Contour
- County Boundaries
- Brownfield Area
- River, Stream or Canal

Soil Drainage

- Well Drained
- Somewhat Excessively Drained
- Moderately Well Drained
- Somewhat Poorly Drained
- Poorly Drained

0 500 1,000 US Feet

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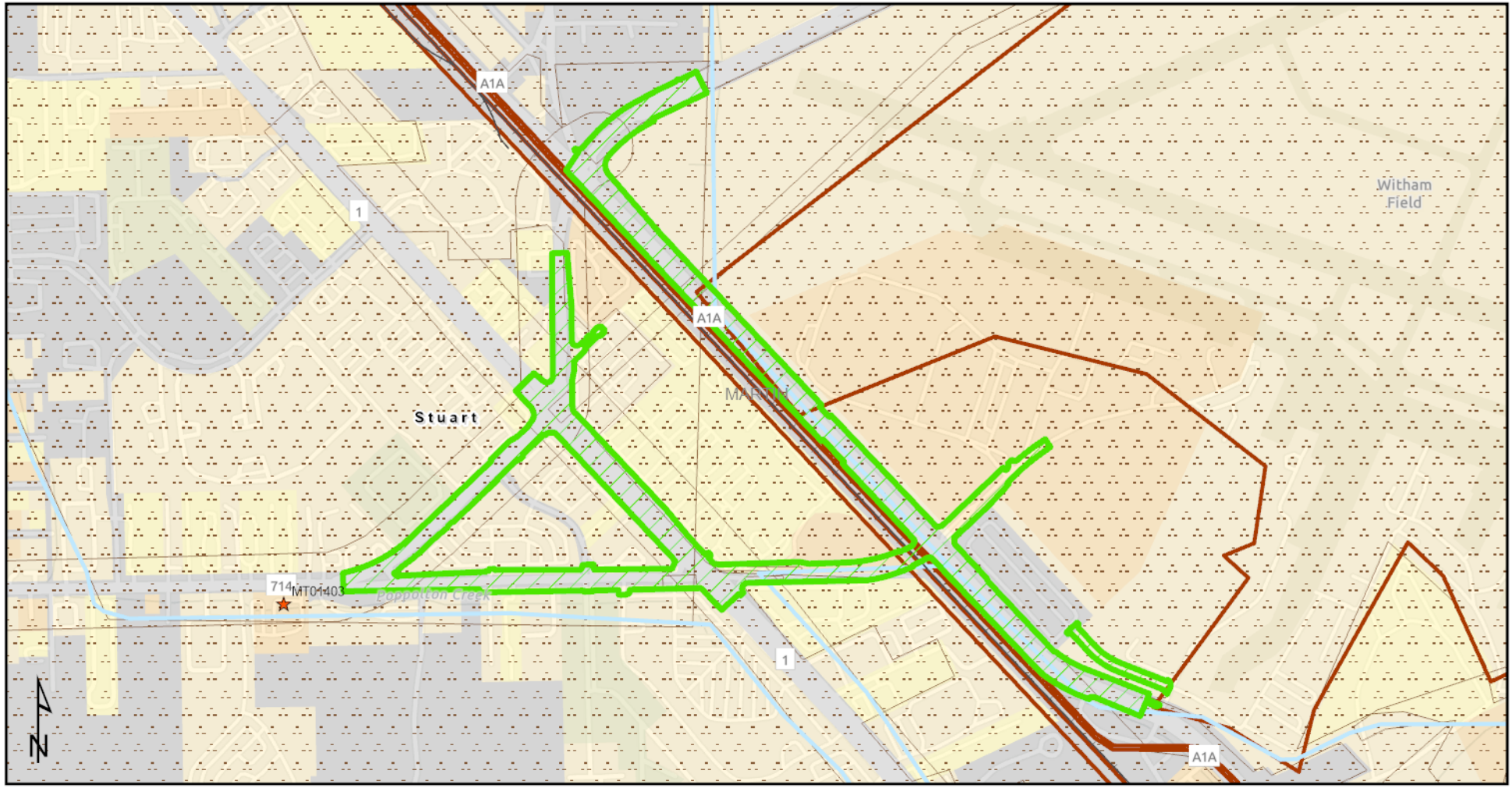

Cultural Resource

- ETDM Alternative Poly
- Historic Structure
- Railroad
- County Boundaries
- River, Stream or Canal
- Historic Resource Group
- Cultural Resource Field Survey Area
- Parcels (Forty to Forty-nine years old)

Pre & Post 1970

- Pre 1970
- Post 1970
- Parcels with no values

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Creation Date: 7/10/2026 2:49 PM

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South 1

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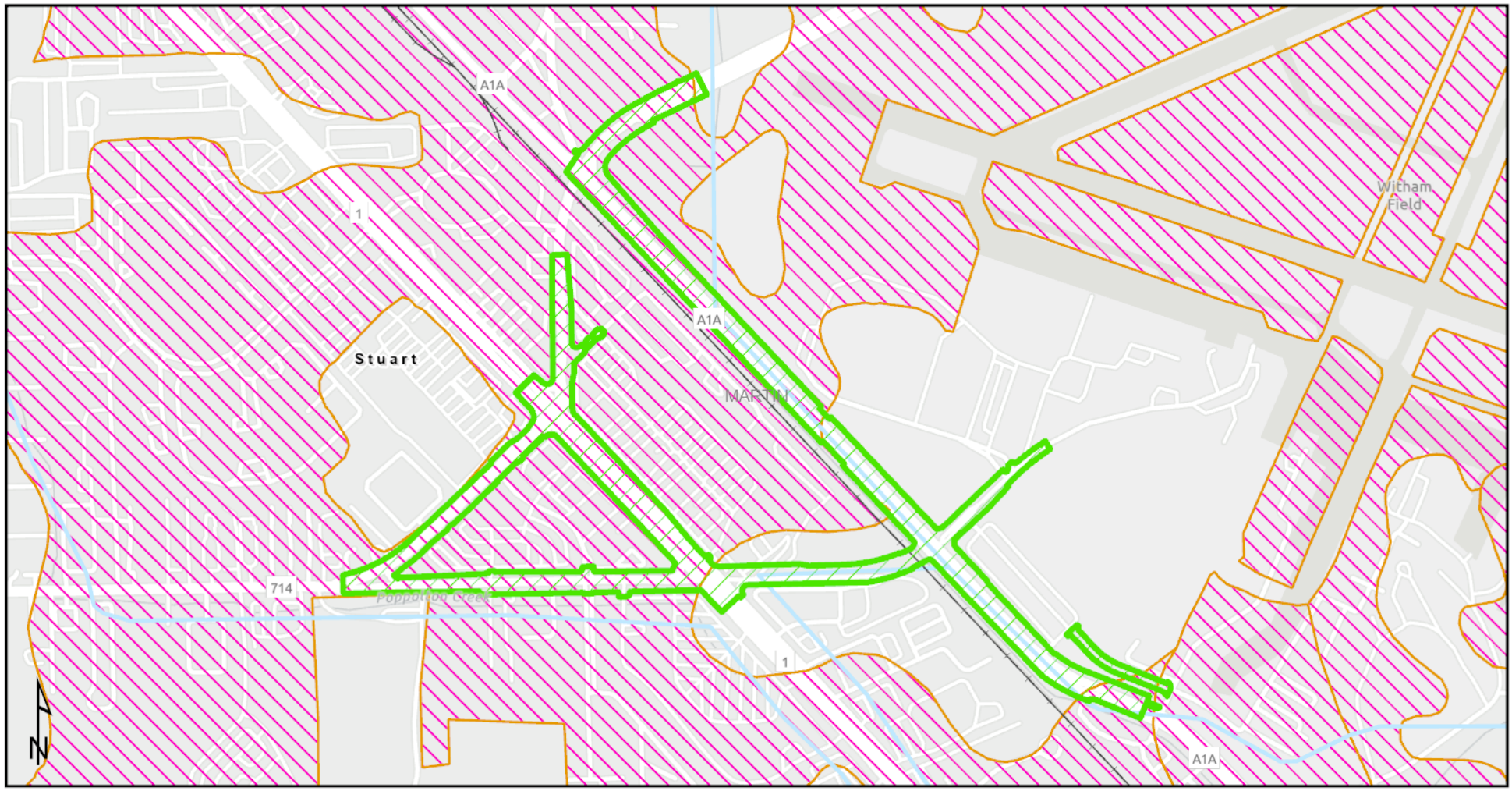

Farmlands

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Prime Farmland Soils

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:34 PM

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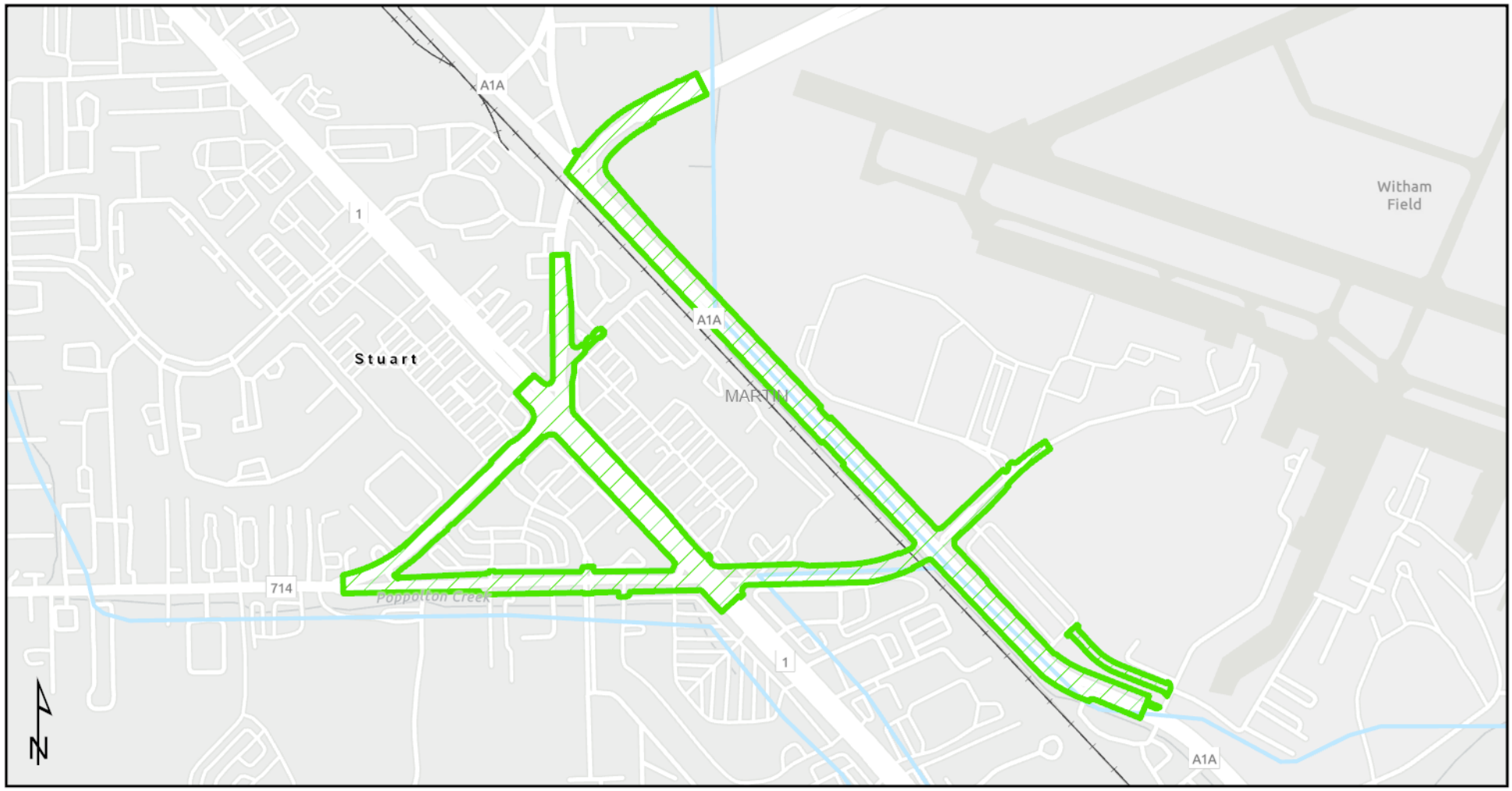

Floodplains

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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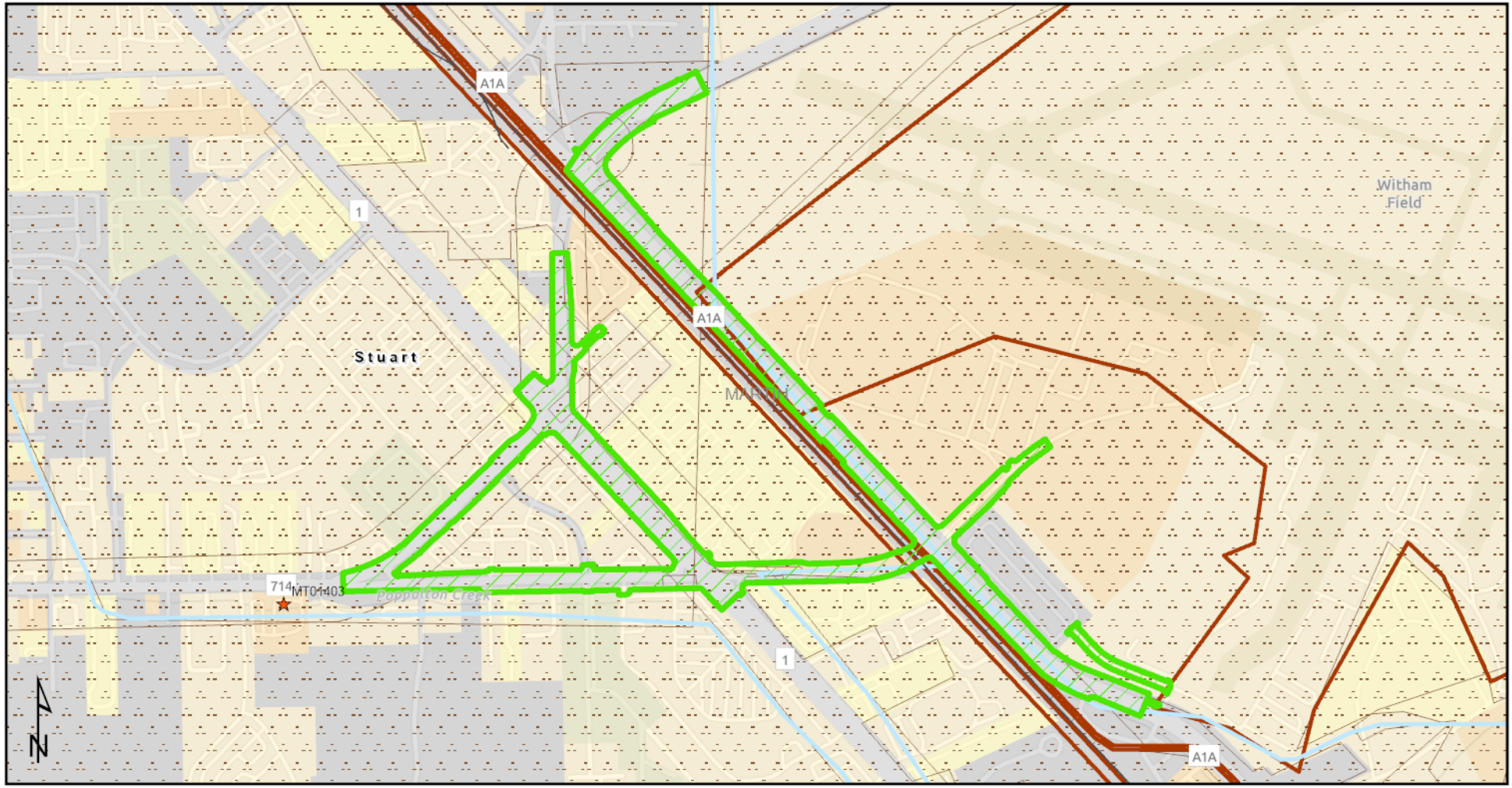

Historic Resource

- ETDM Alternative Poly
- Historic Structure
- Railroad
- County Boundaries
- River, Stream or Canal
- Historic Resource Group
- Cultural Resource Field Survey Area
- Parcels (Forty to Forty-nine years old)

Pre & Post 1970

- Pre 1970
- Post 1970
- Parcels with no values

0 500 1,000 US Feet

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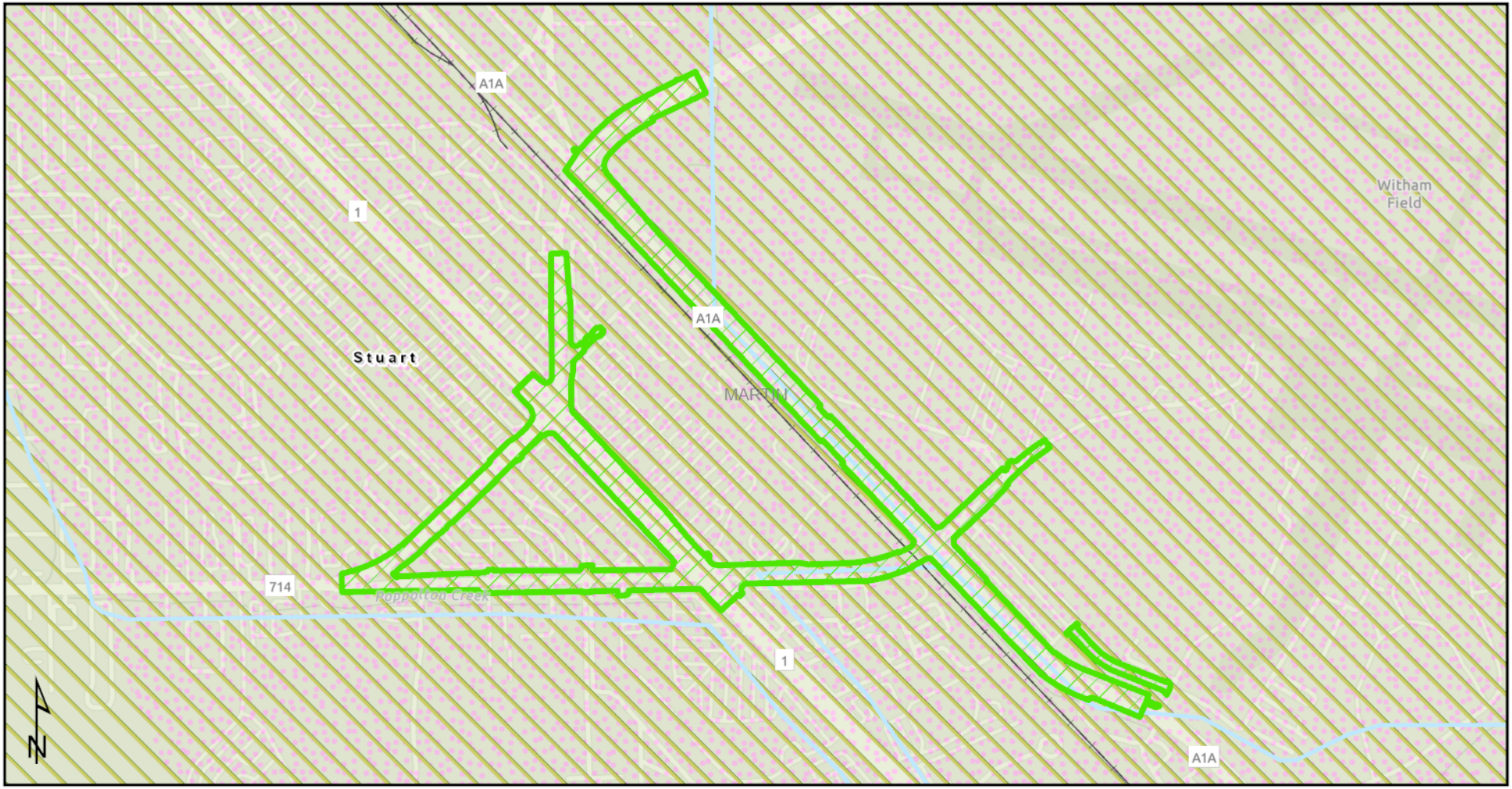

Hydrogeology

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Recharge Areas of the Floridan Aquifer

- Disharge < 1

USGS Geological Units (Epoch)

- Pleistocene
- Pleistocene/Holocene

0 500 1,000 US Feet

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Creation Date: 12/17/2025 1:33 PM

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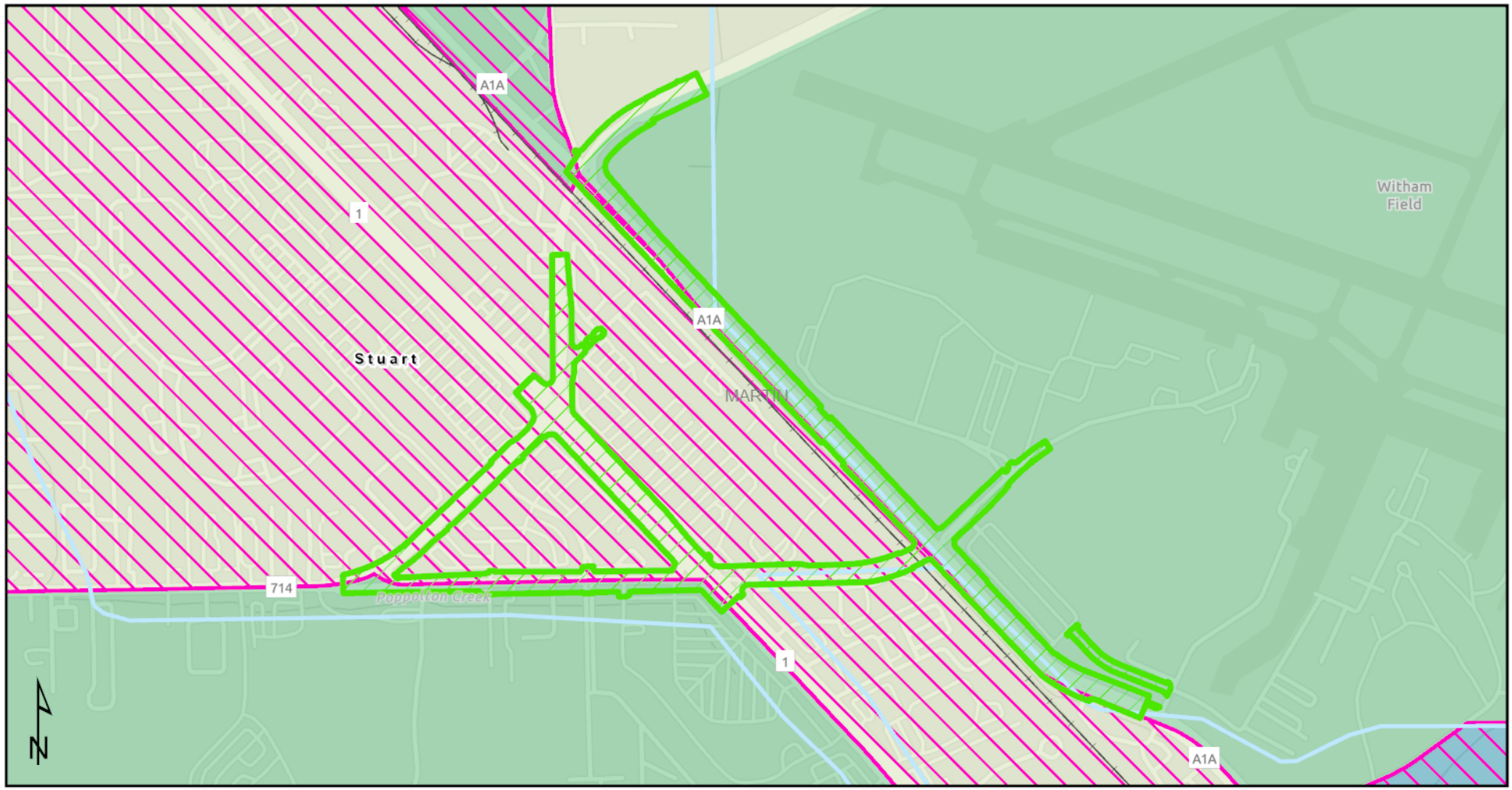

Income

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Below Poverty (>20%)

Median Household Income

- 30,000 - 49,999
- 50,000 - 79,999
- 80,000 - 125,000

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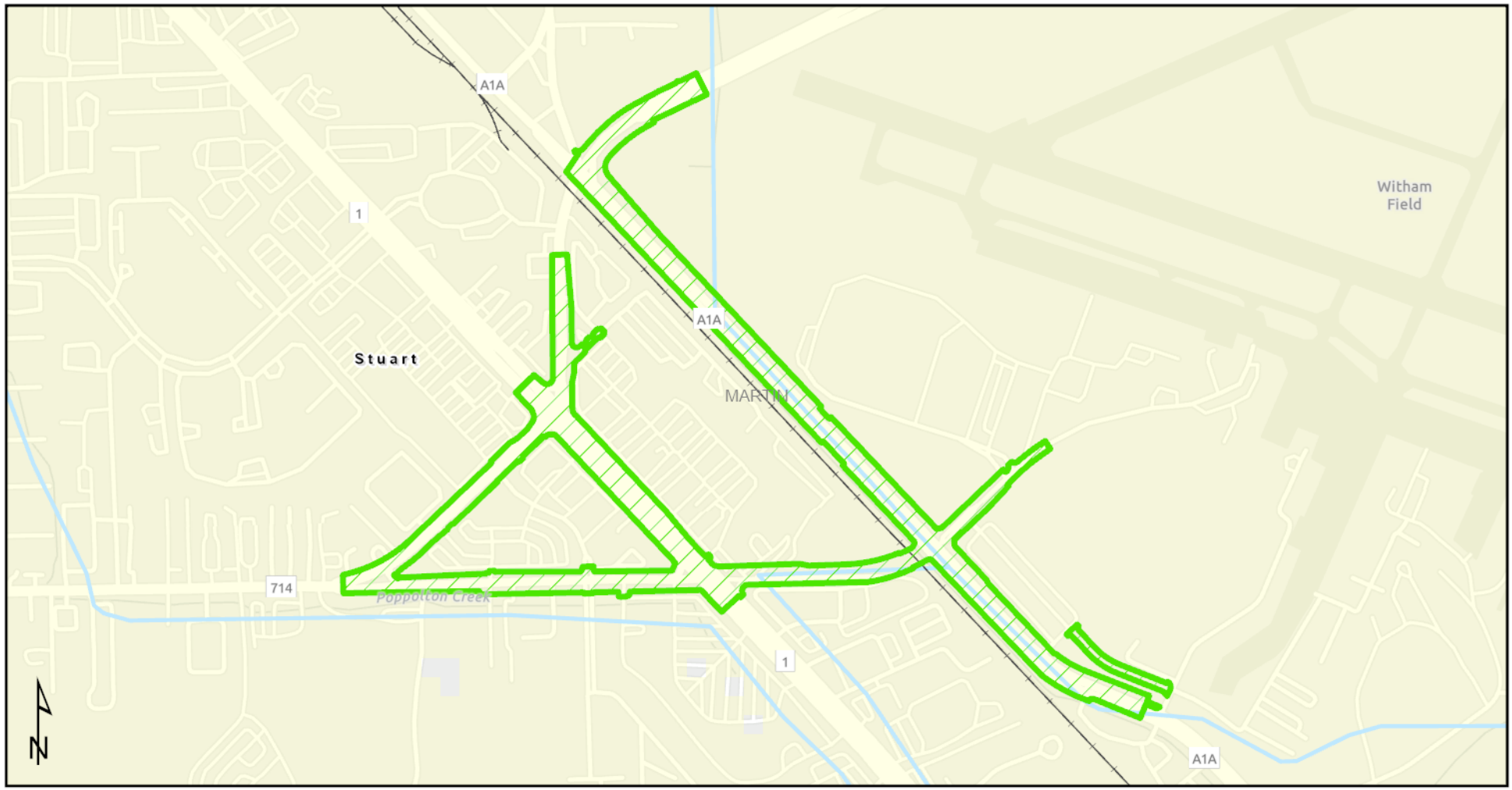

Integrated Wildlife Model

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

IWHRS_2009

- Low Habitat Quality

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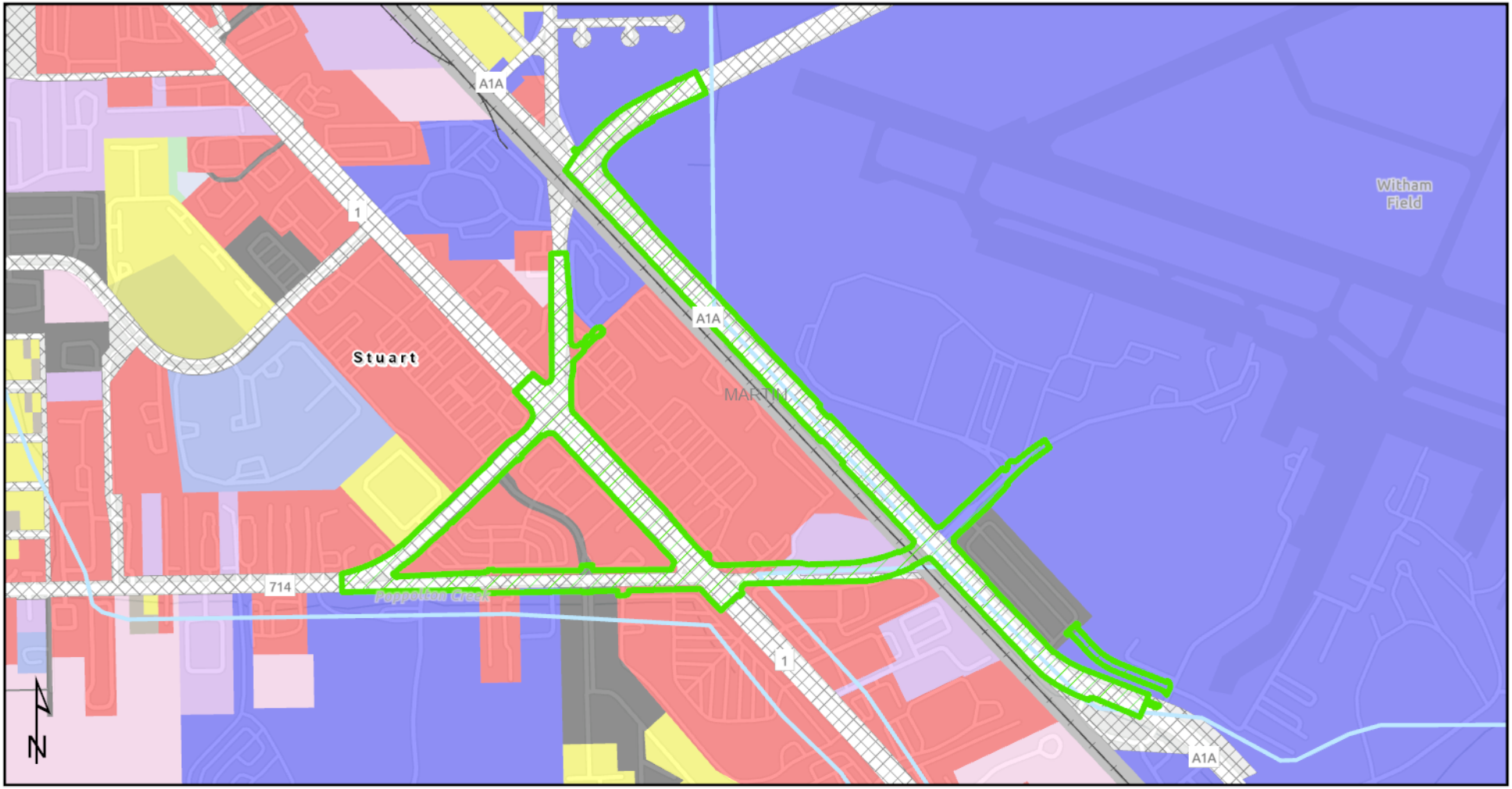

Land Use

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Generalized Land Use (Parcels Derived)

- Acreage Not Zoned For Agriculture
- Centrally Assessed
- Industrial
- Institutional
- Parcels With No Values
- Public/Semi-Public
- Recreation
- Residential
- Retail/Office
- Right-of-Way
- Vacant Nonresidential
- Vacant Residential
- Water

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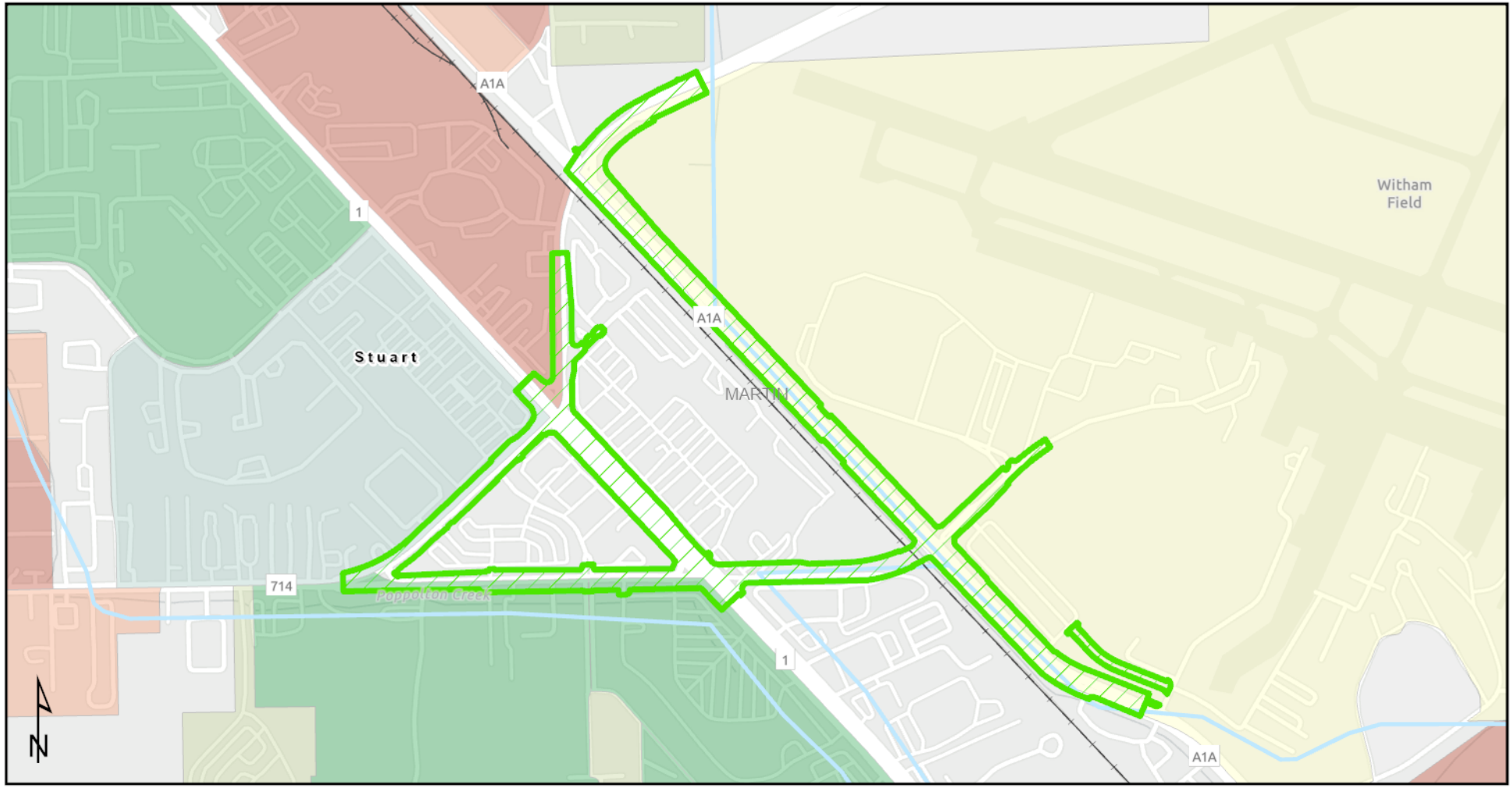

Minority Population

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Percent Minority Population (2020)

- 0 - 6
- 7 - 20
- 21 - 40
- 41 - 60
- 61 - 85
- 86 - 100

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South 1

Not Specified TO Not Specified

Noise

- ETDM Alternative Poly
- Condo Owners Associations
- Laser On-site
- Group Care Facilities
- Community Center
- Cultural Center
- School
- Railroad
- County Boundaries
- River, Stream or Canal
- Planned Unit Developments
- Residential
- Industrial

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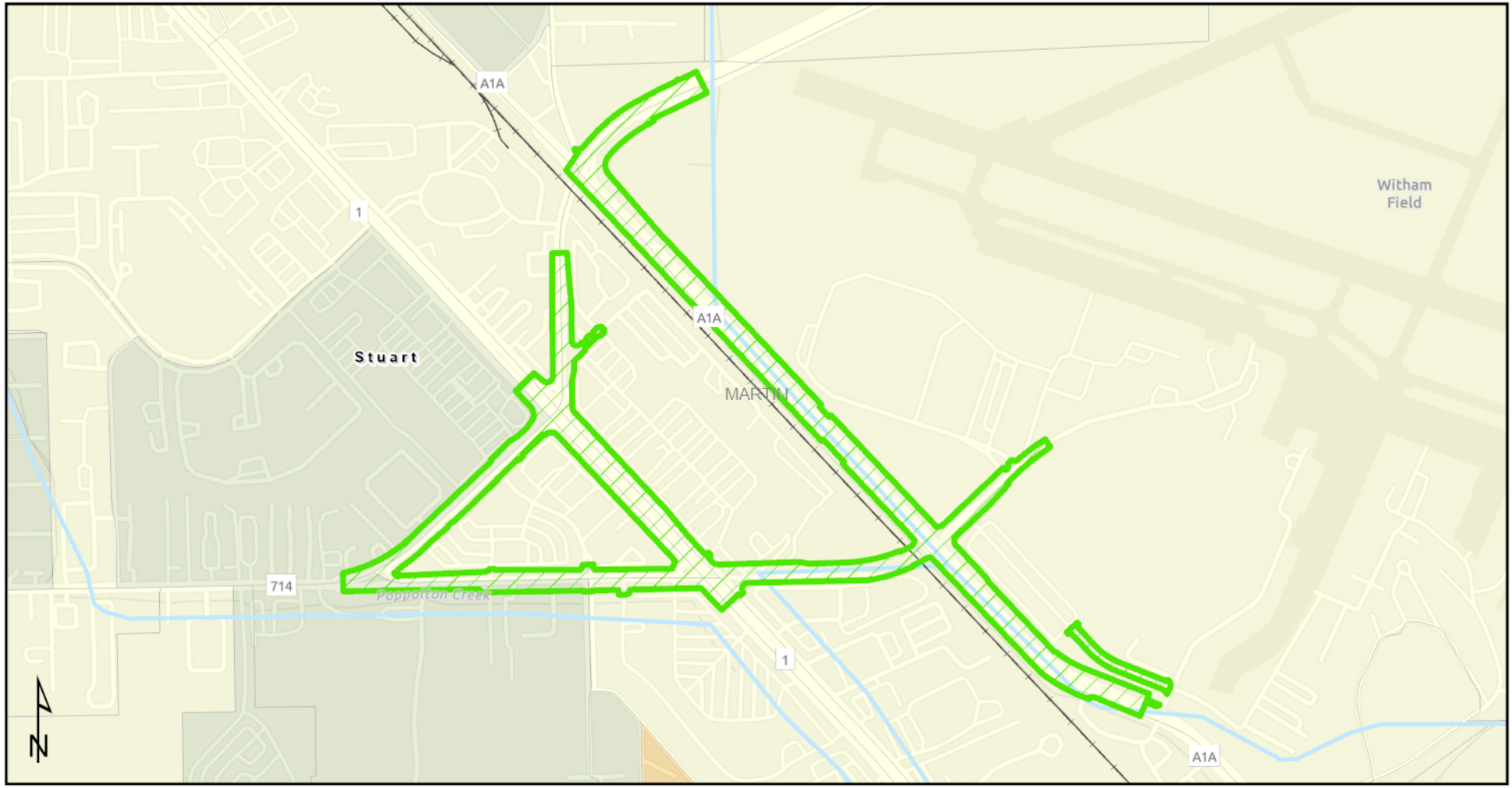

Population Density

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Population Per Acre (2020)

- 0 - 4.9
- 5 - 29.9
- 30 - 99.9

0 500 1,000 US Feet

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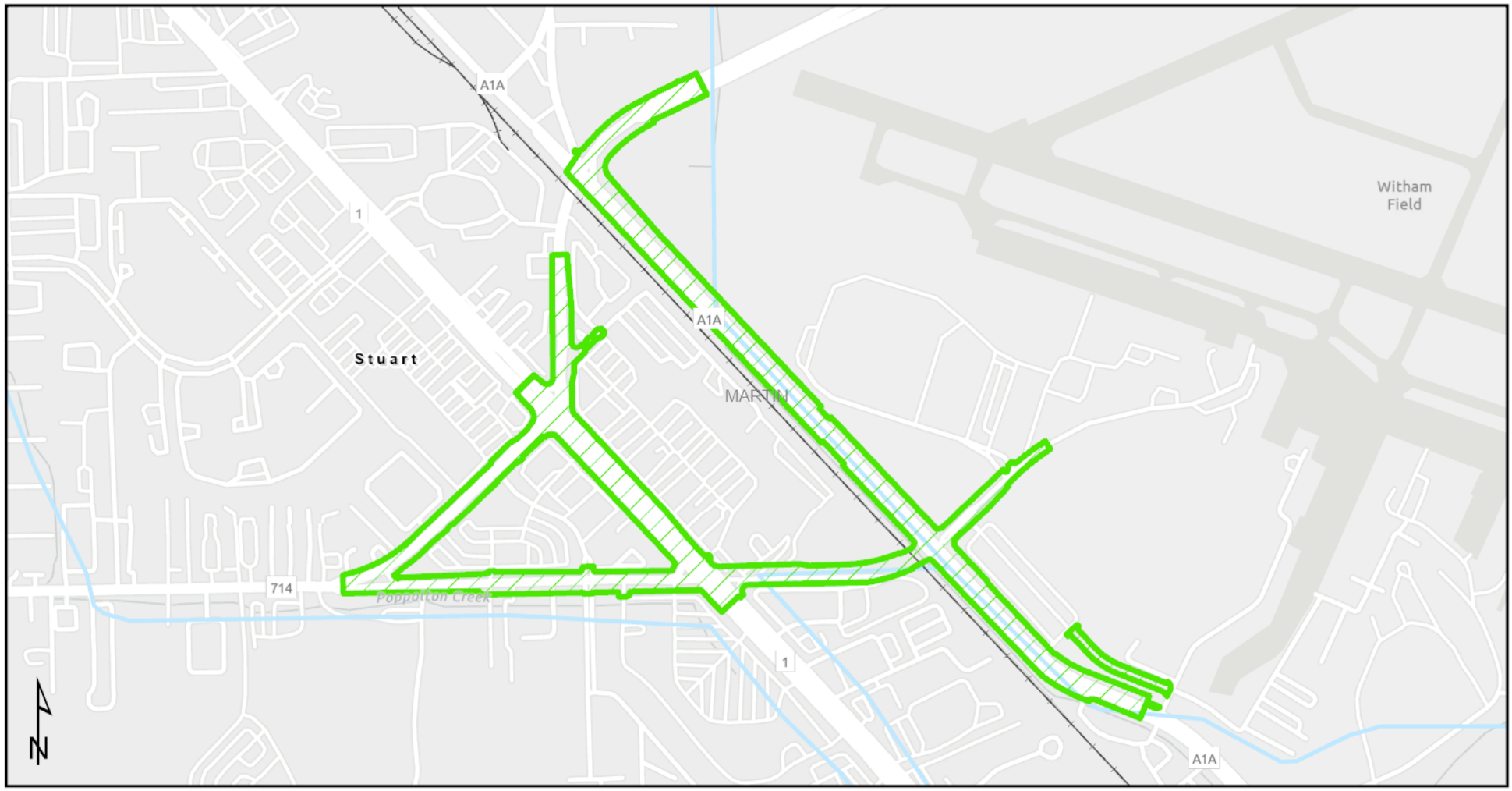

Recreational Areas

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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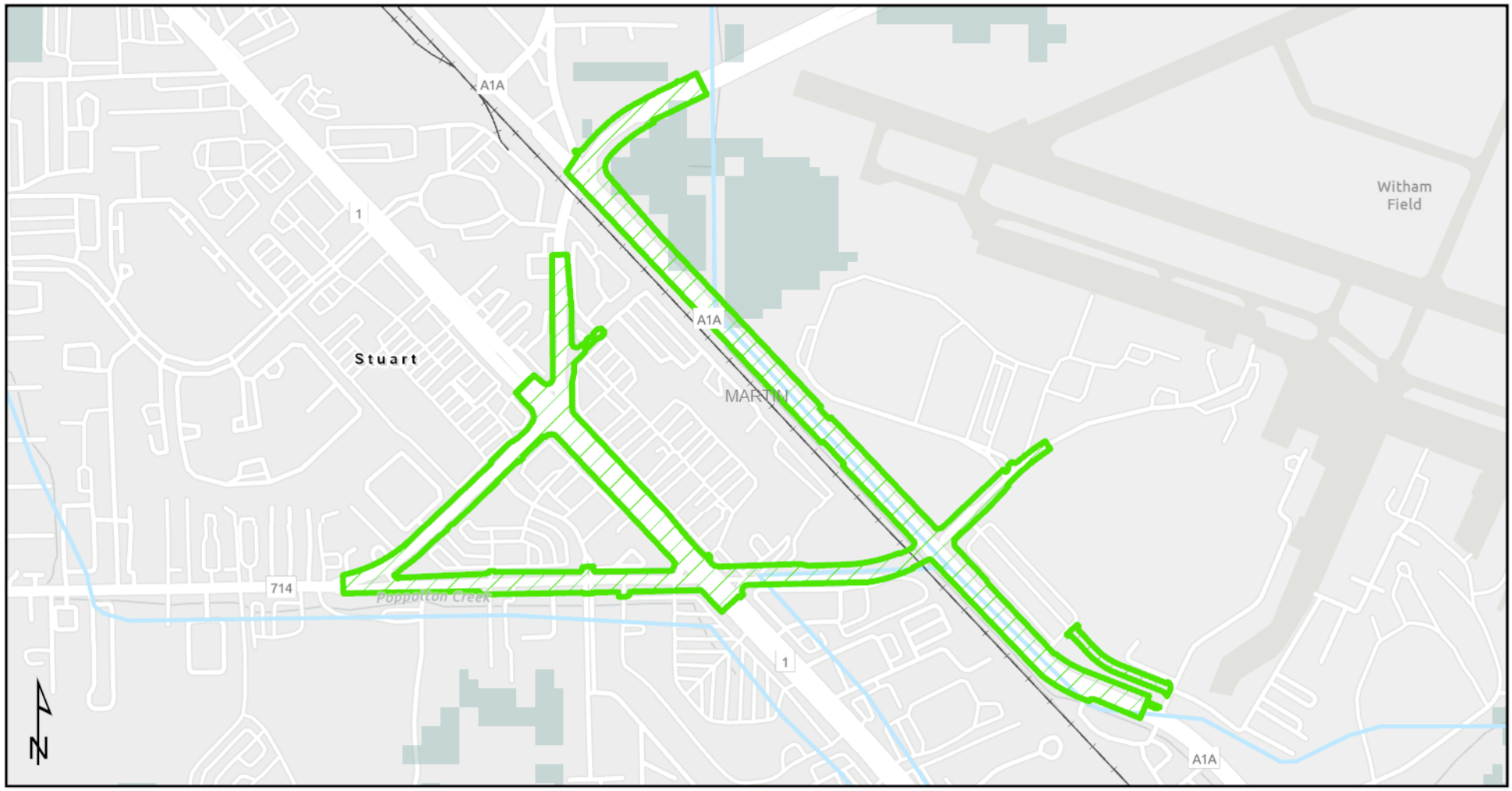

Species Potential

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Potential Habitat Richness

- 3 - 5 Species

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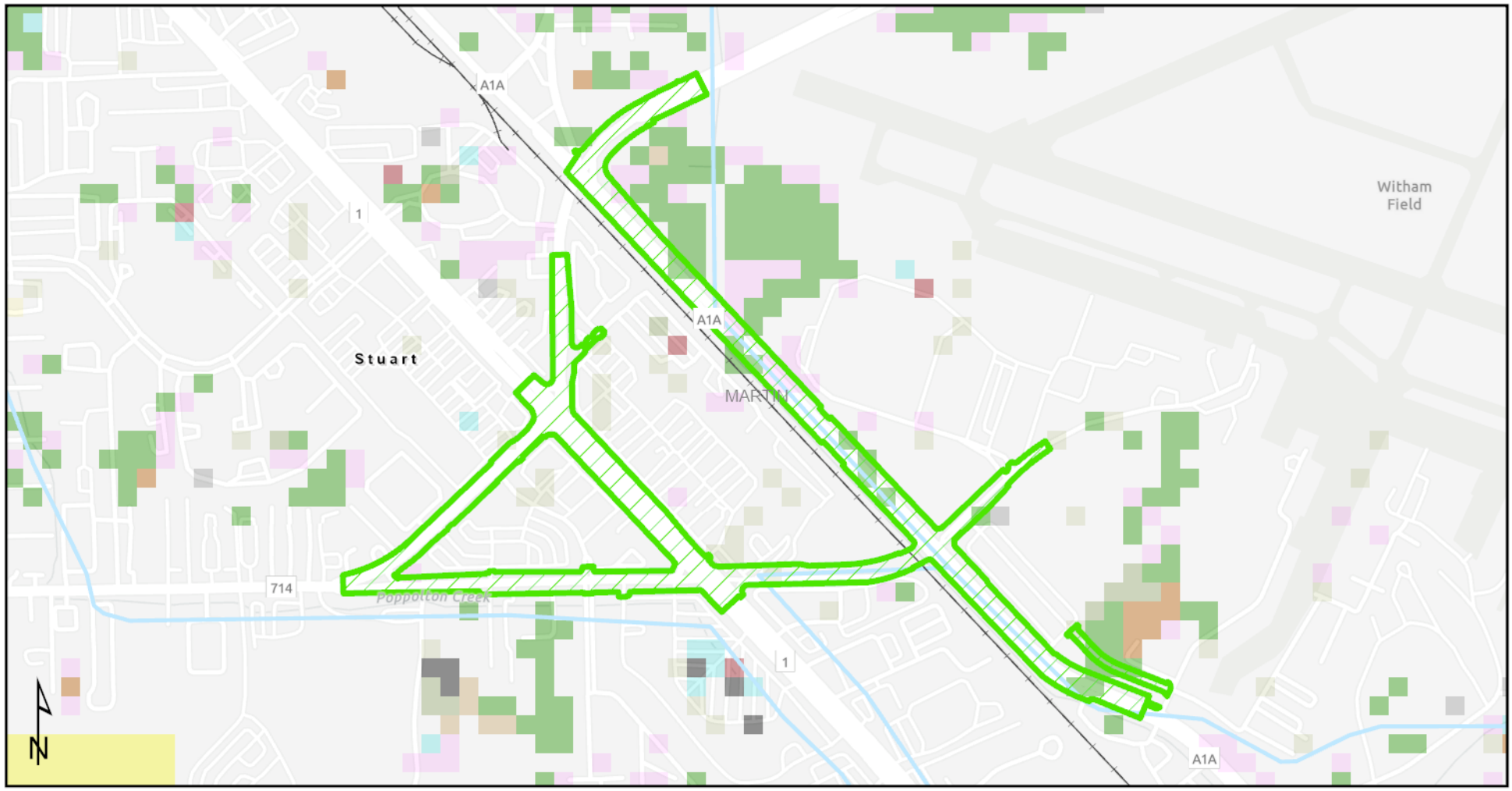

Vegetation

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

GFCHAB_2003

- Dry Prairie
- Hardwood Hammocks and Forests
- Pinelands
- Freshwater Marsh and Wet Prairie
- Shrub Swamp
- Cypress Swamp
- Hardwood Swamp
- Open Water
- Shrub and Brushland
- Bare Soil/Clearcut
- Improved Pasture
- Other Agriculture
- High Impact Urban
- Low Impact Urban

0 500 1,000 US Feet

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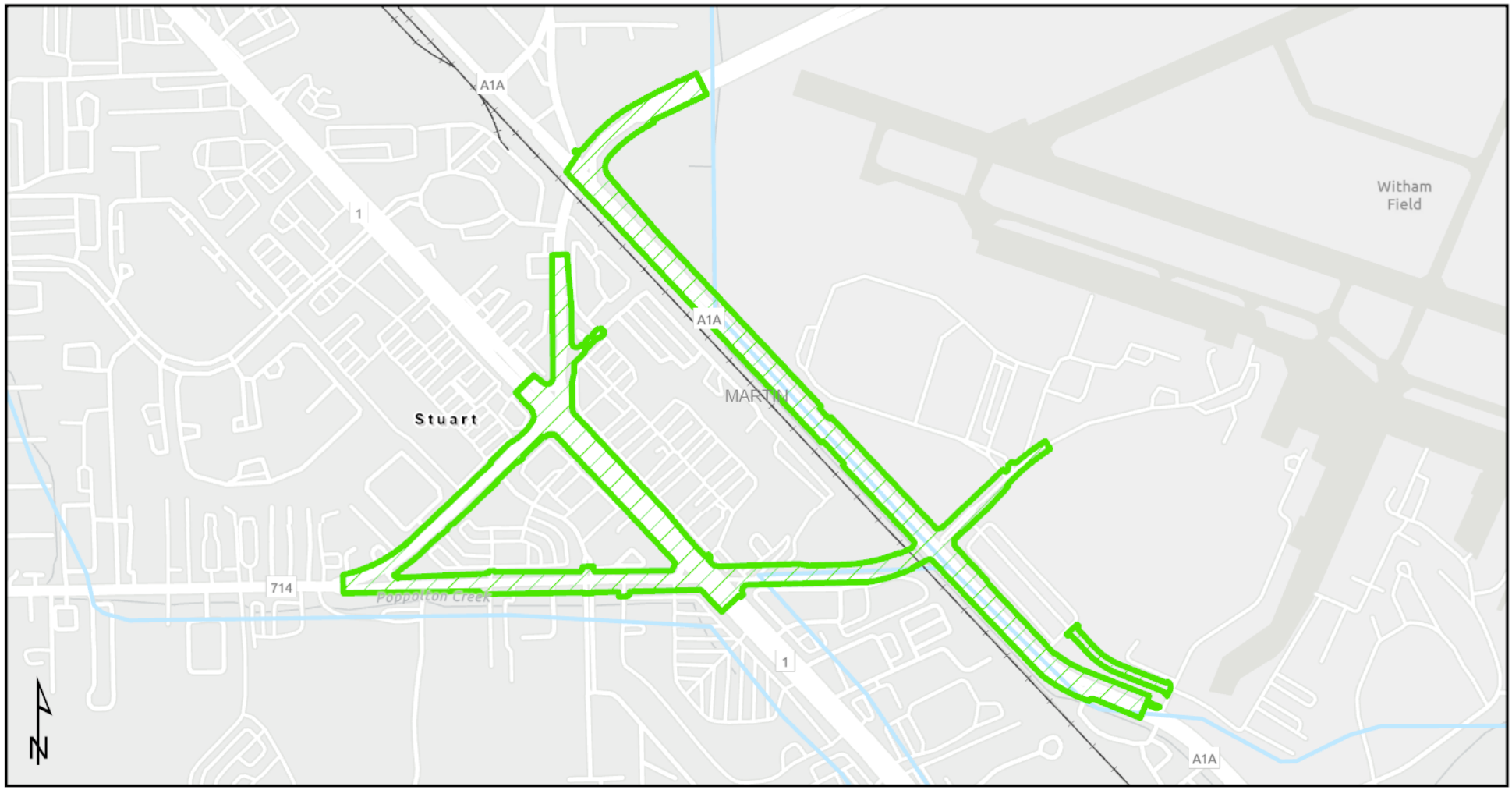

WATERSS Base

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

0 500 1,000 US Feet

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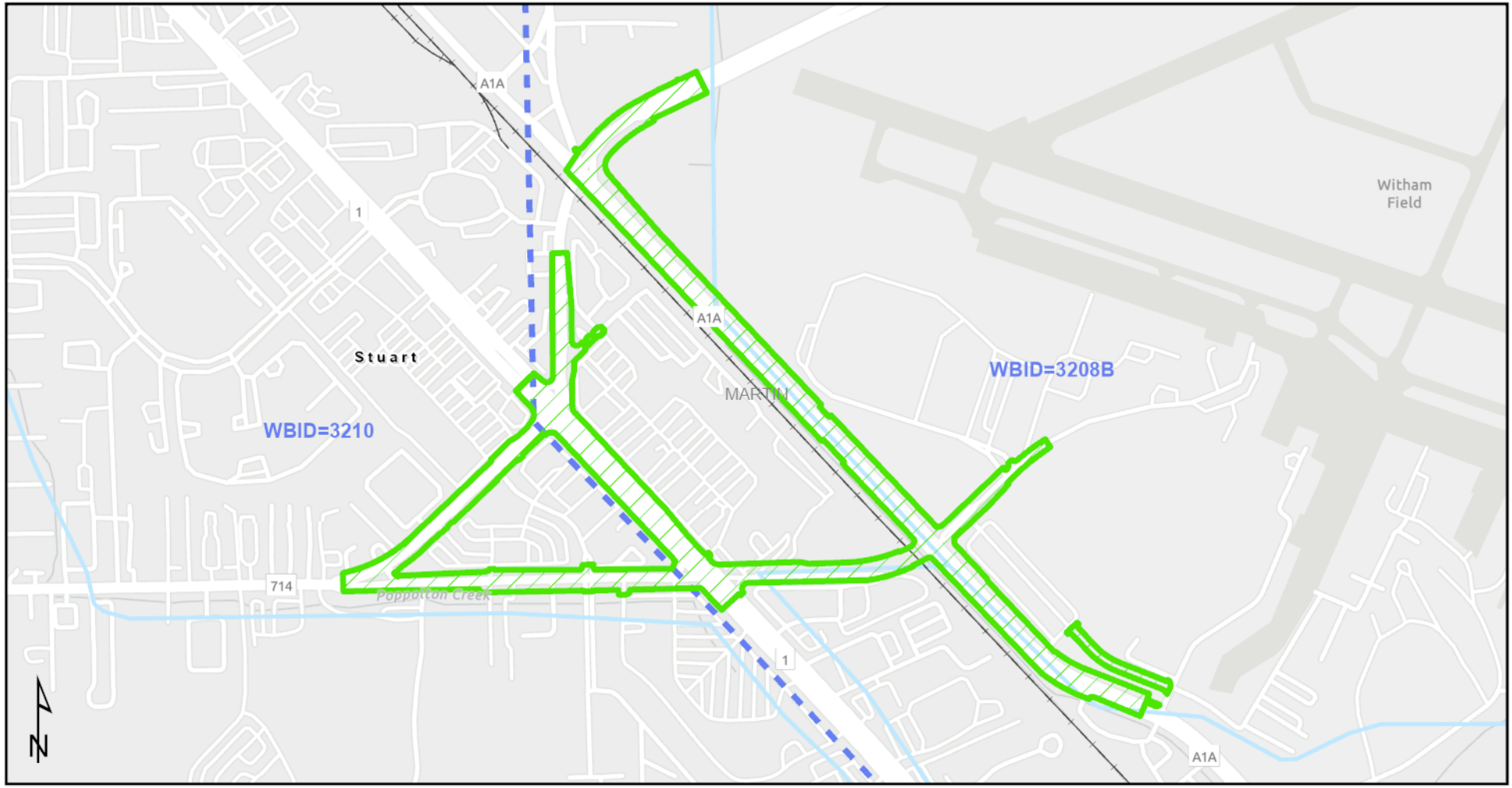

Water Resource

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Drainage Basin

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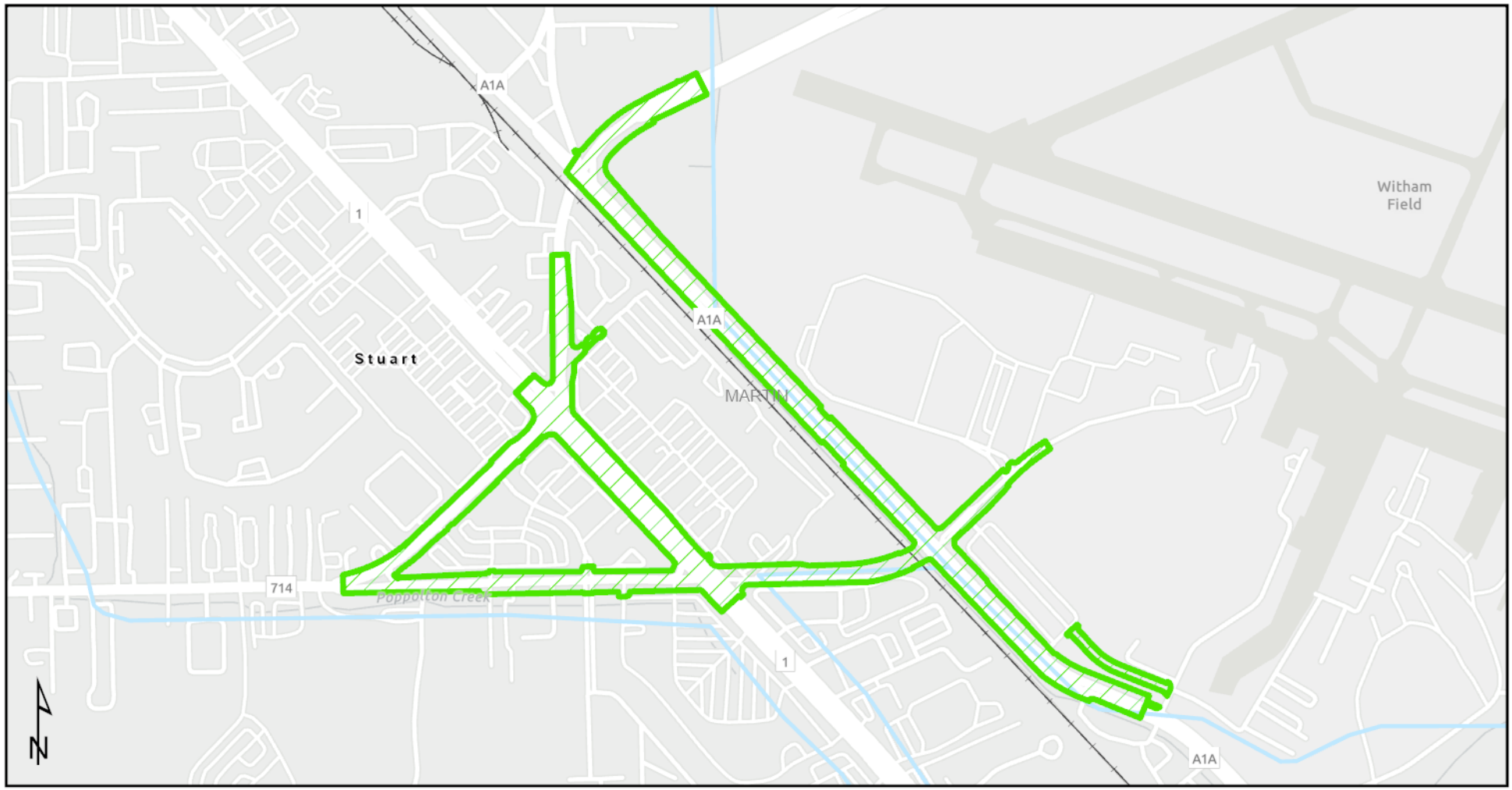

Wetlands and Surface Waters

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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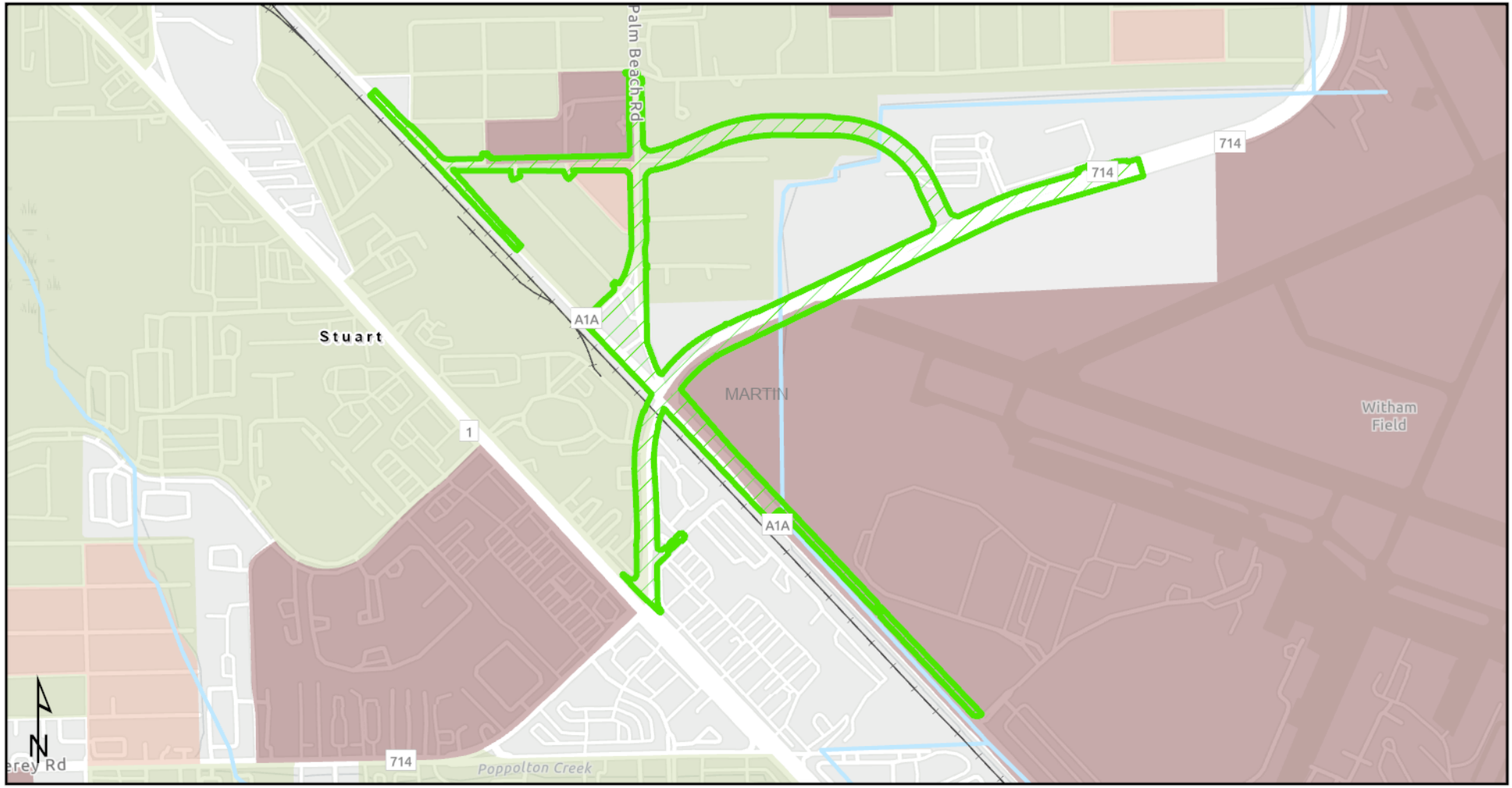
North 2

Not Specified TO Not Specified



Age Distribution

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Median Age (2020)

- 18 - 30
- 30 - 65
- > 65

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North 2

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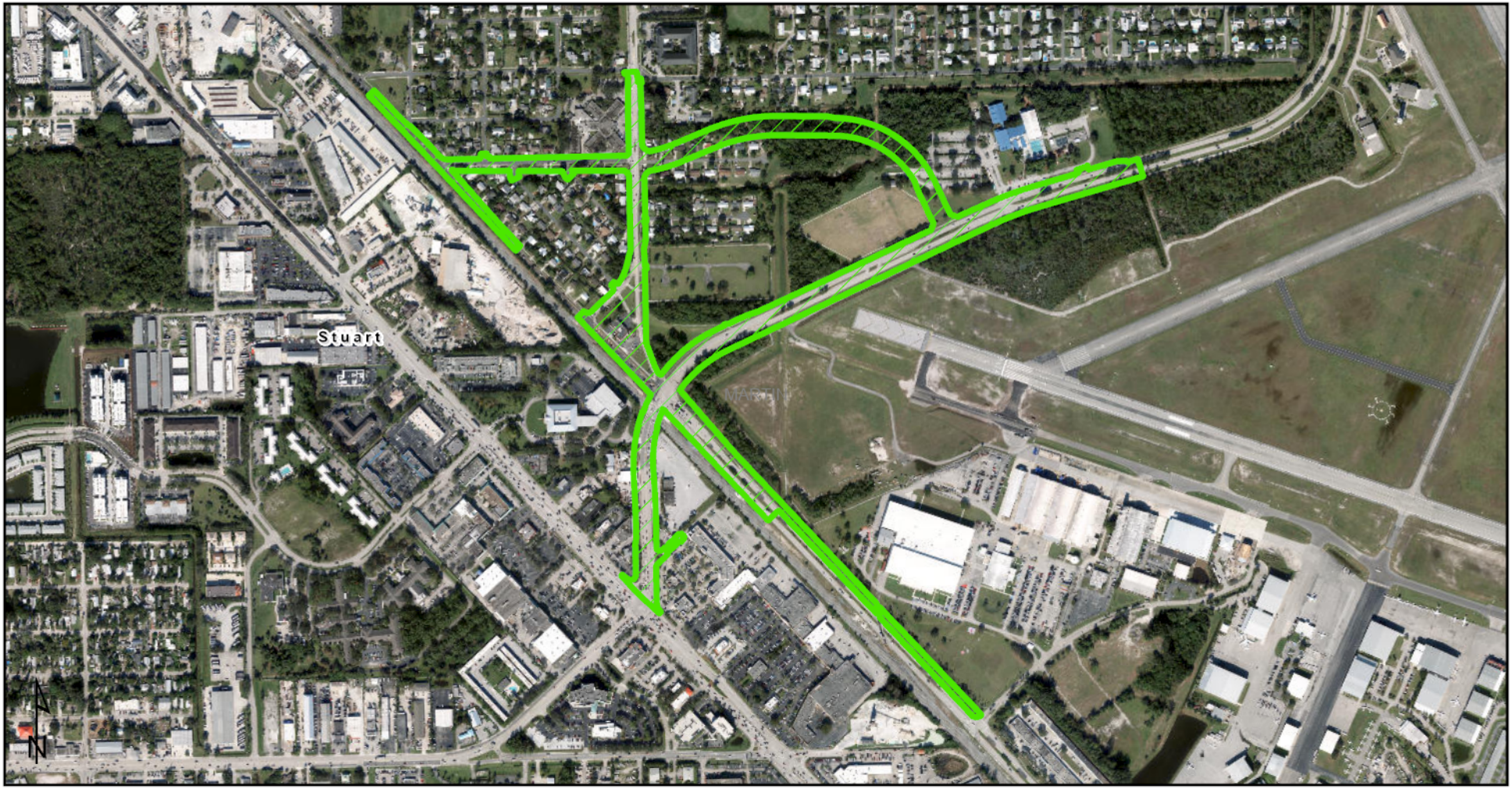

Analysis Area Aerial

ETDM Alternative Poly

County Boundaries

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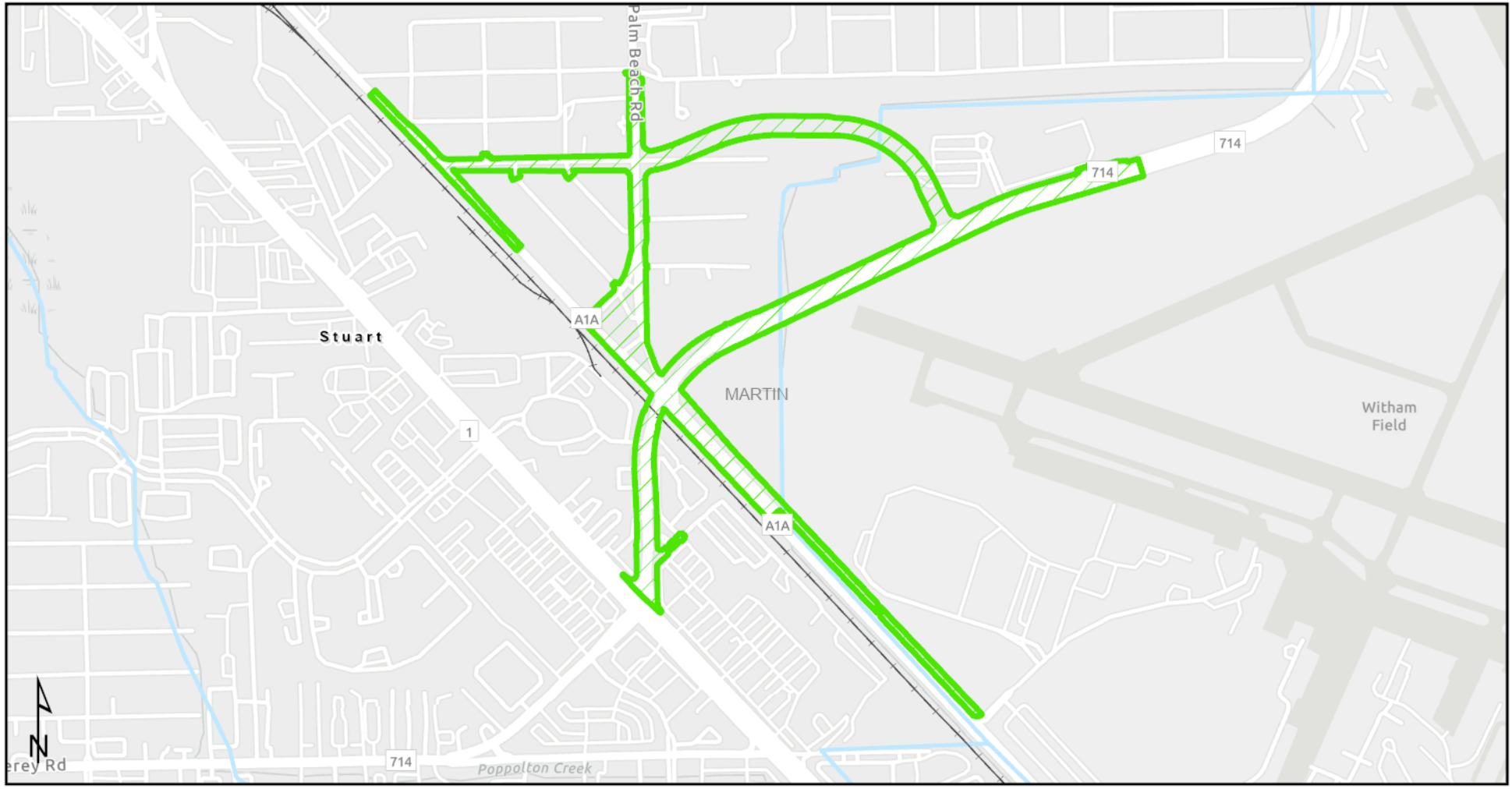

Analysis Area Base

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

0 500 1,000 US Feet

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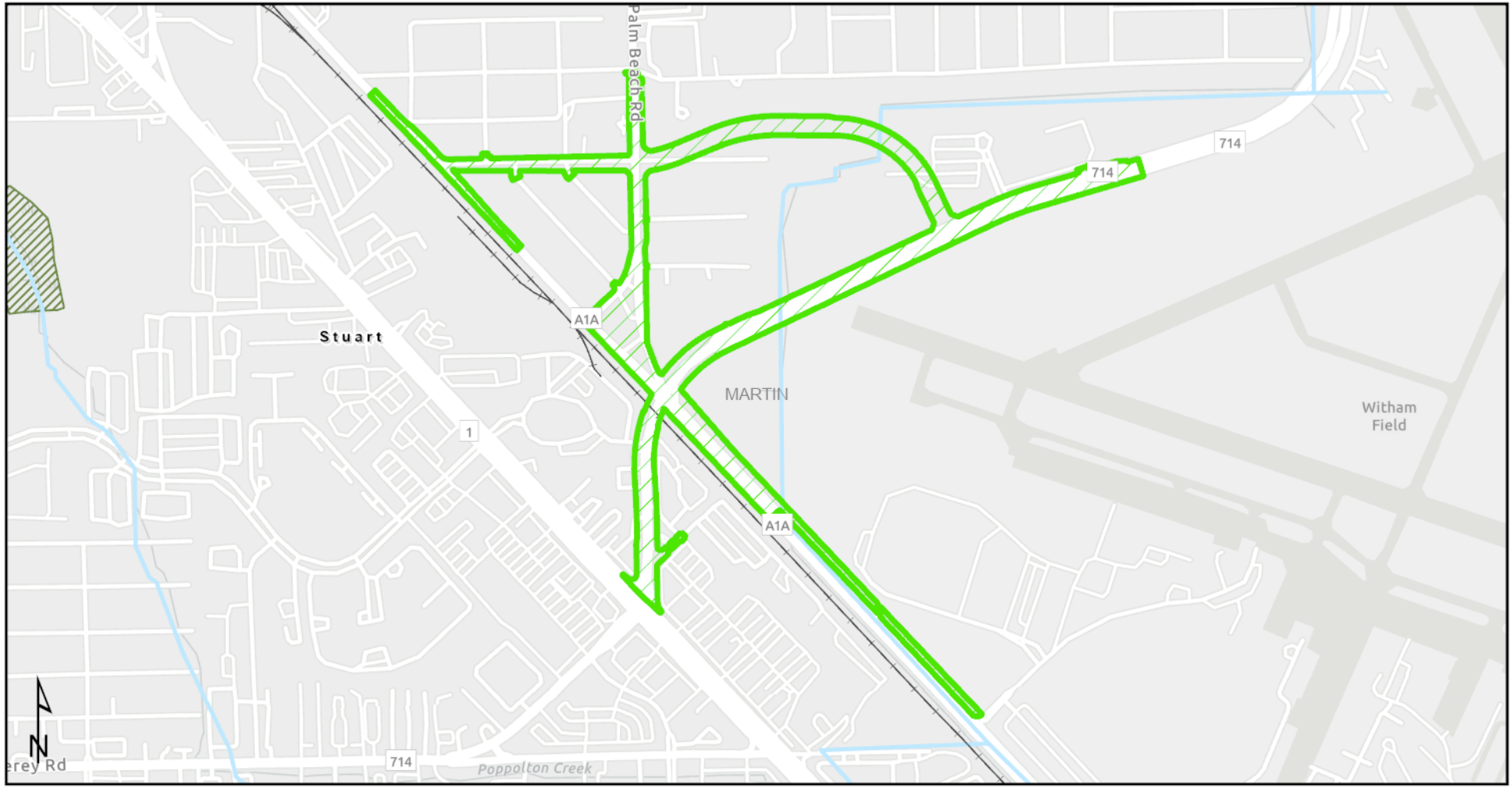

Coastal and Marine

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

WMD FLUCCS Wetlands

- Wetland Forested Mixed

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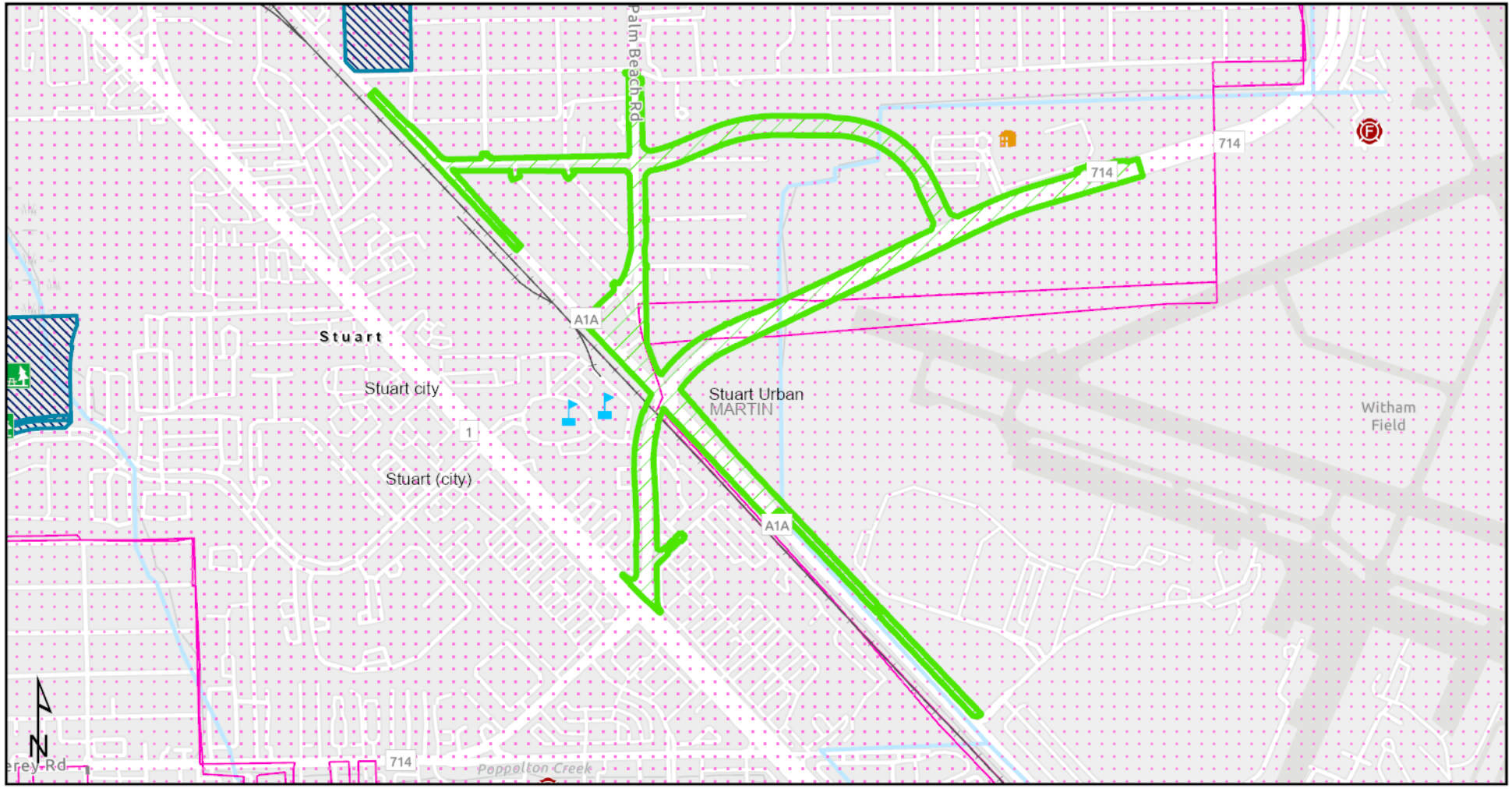

Community Services

- ETDM Alternative Poly
- Railroad
- County Boundaries
- Community Center
- Fire Station
- School
- Park
- Existing Trails
- Park Boundary
- Community Boundary
- River, Stream or Canal

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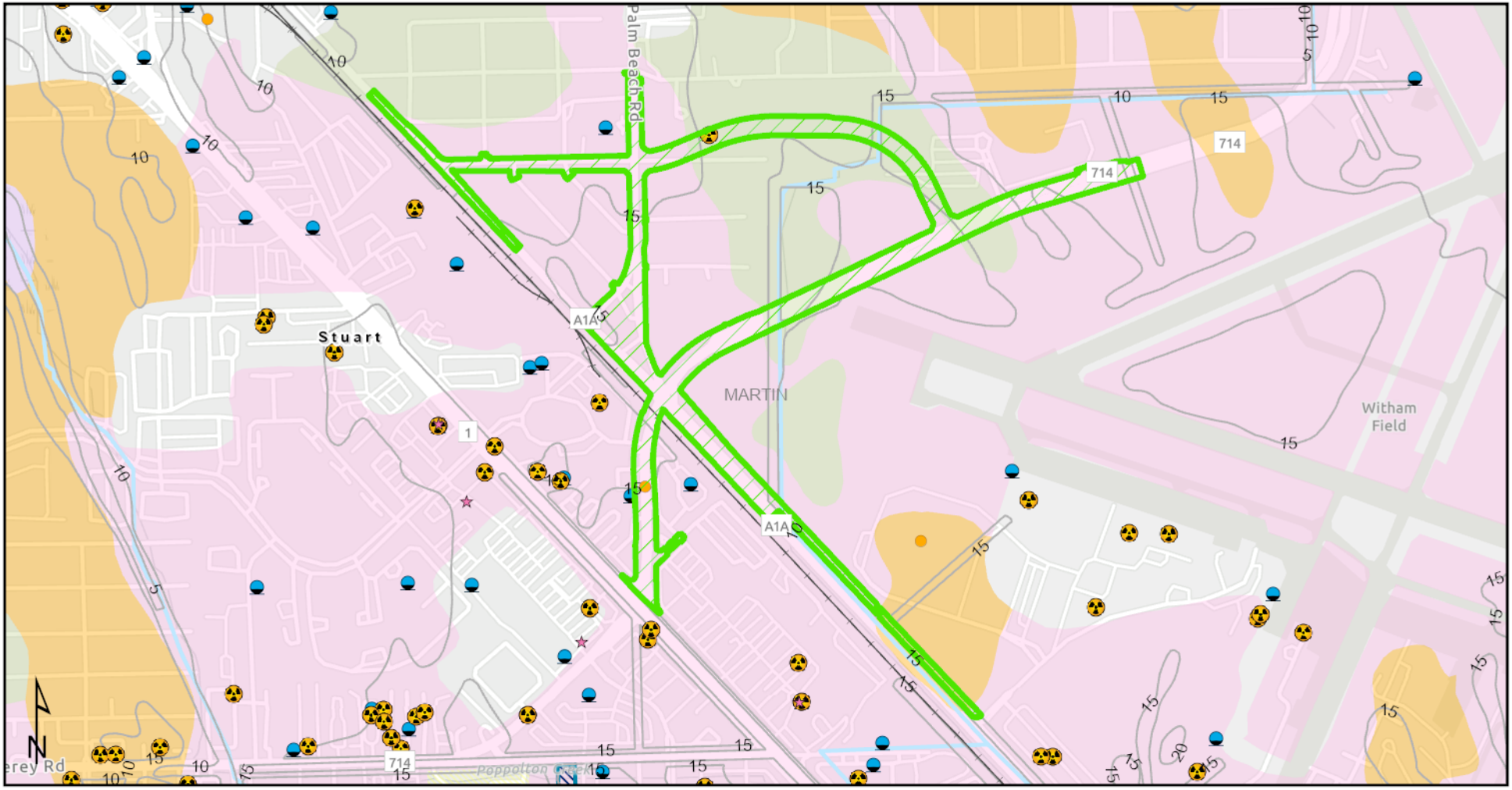

Contamination

- ETDM Alternative Poly
- Toxic Release Inventory
- Dry Cleaning Facility
- Hazardous Material Site
- FDEP Tanks
- Railroad
- 5 FT Contour
- County Boundaries
- Brownfield Area
- River, Stream or Canal

Soil Drainage

- Well Drained
- Moderately Well Drained
- Somewhat Poorly Drained
- Poorly Drained
- Very Poorly Drained

0 500 1,000 US Feet

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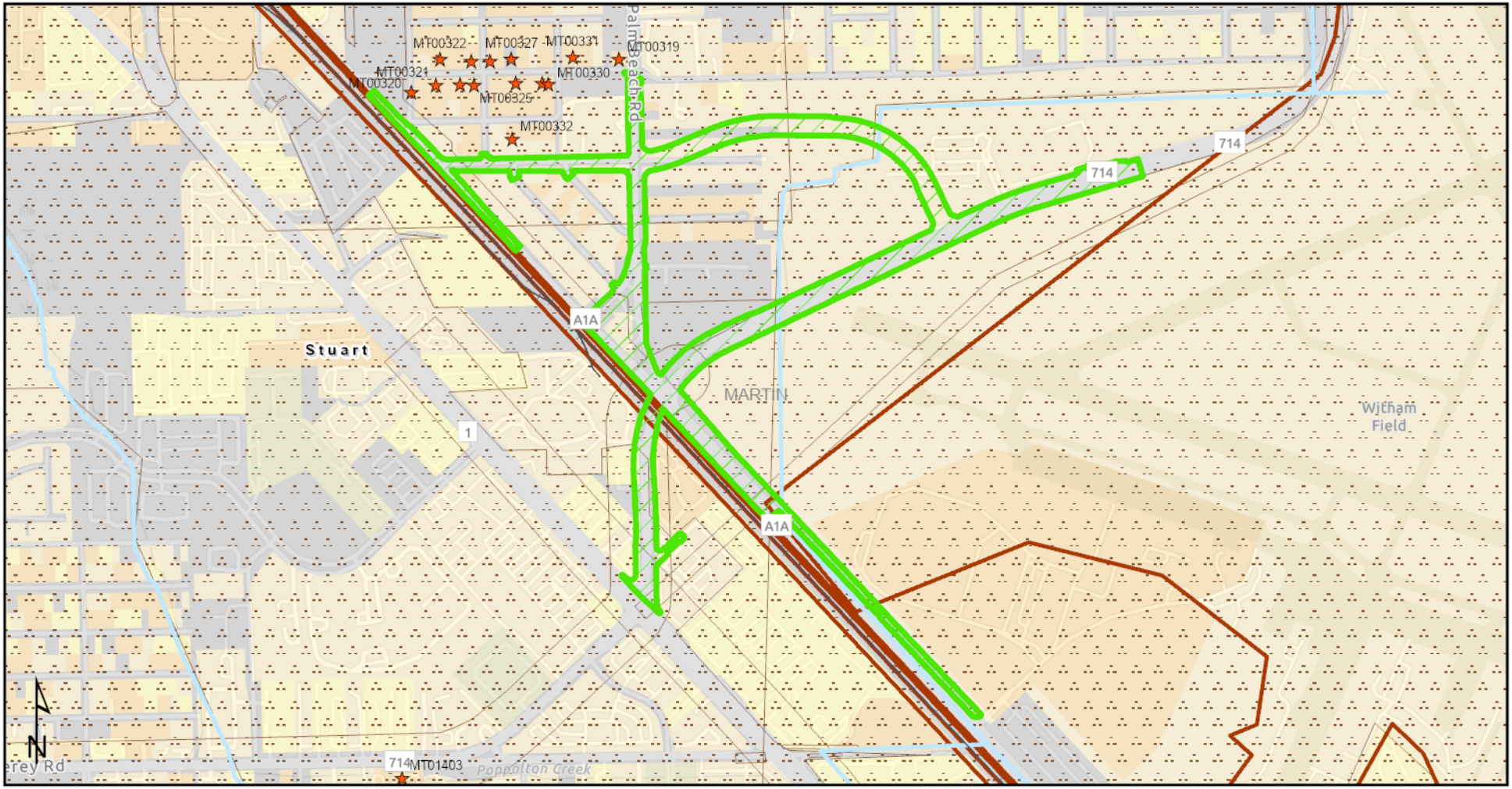

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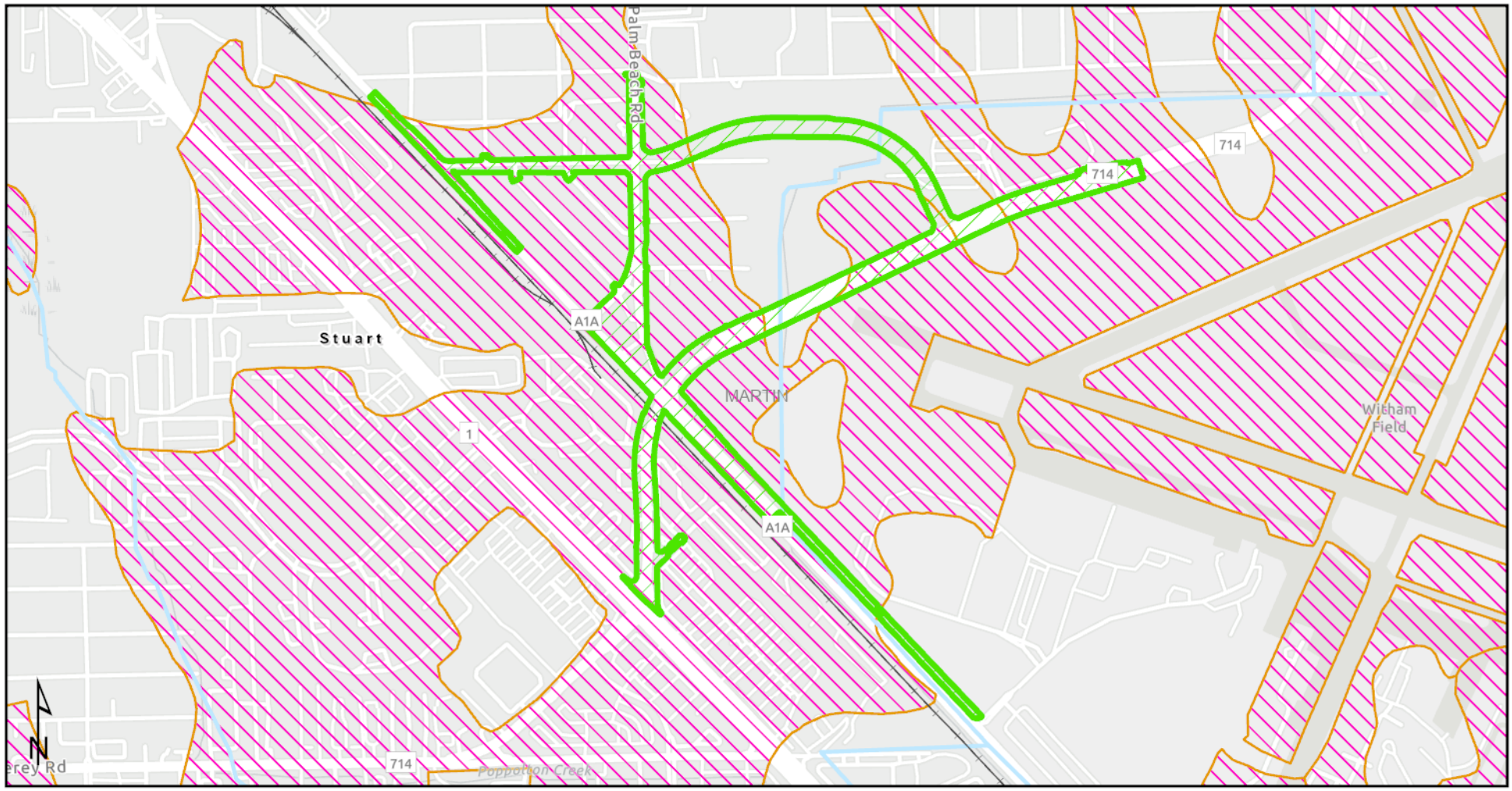

Farmlands

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Prime Farmland Soils

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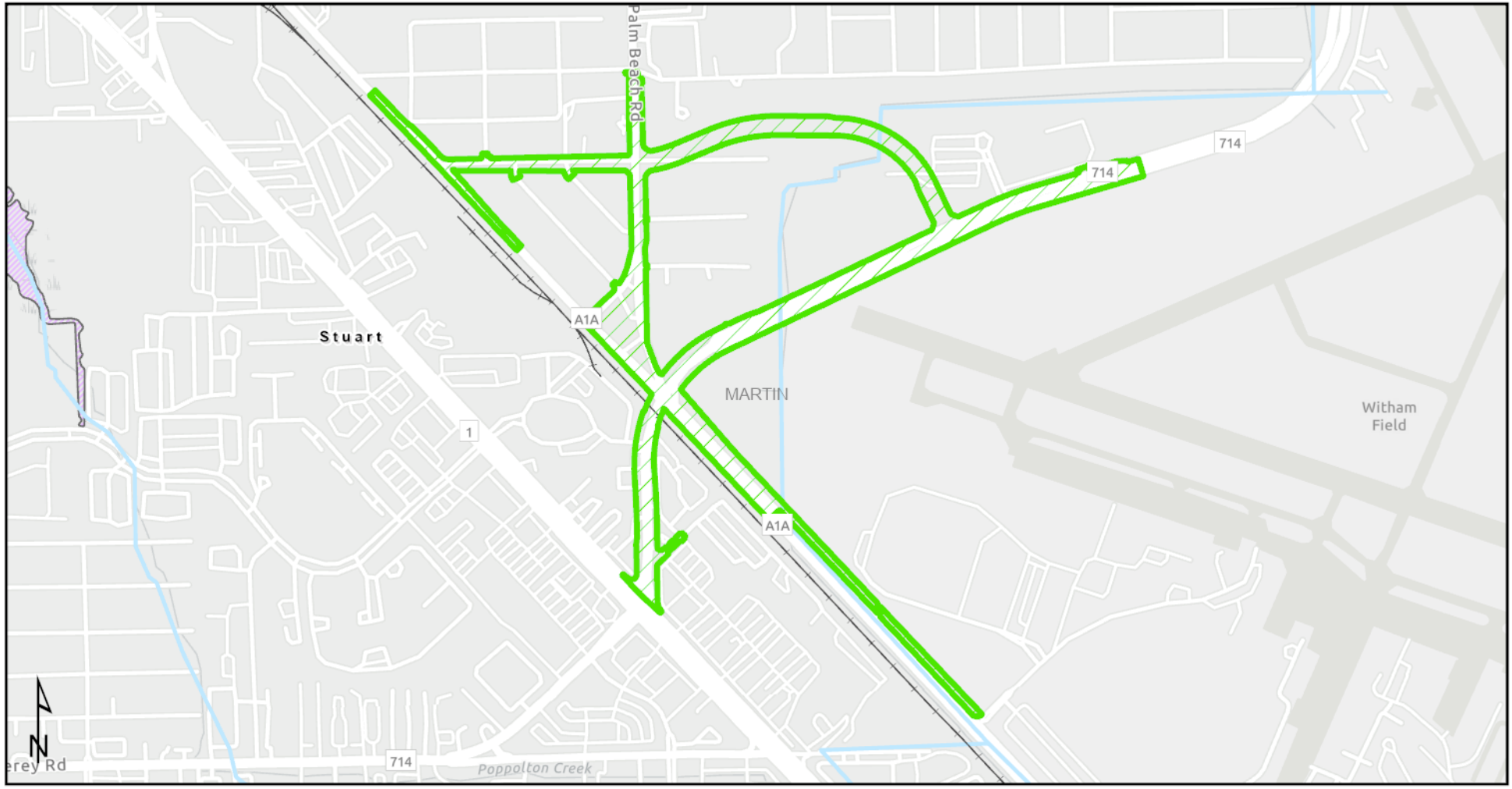

Floodplains

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Special Flood Hazard Area

0 500 1,000 US Feet

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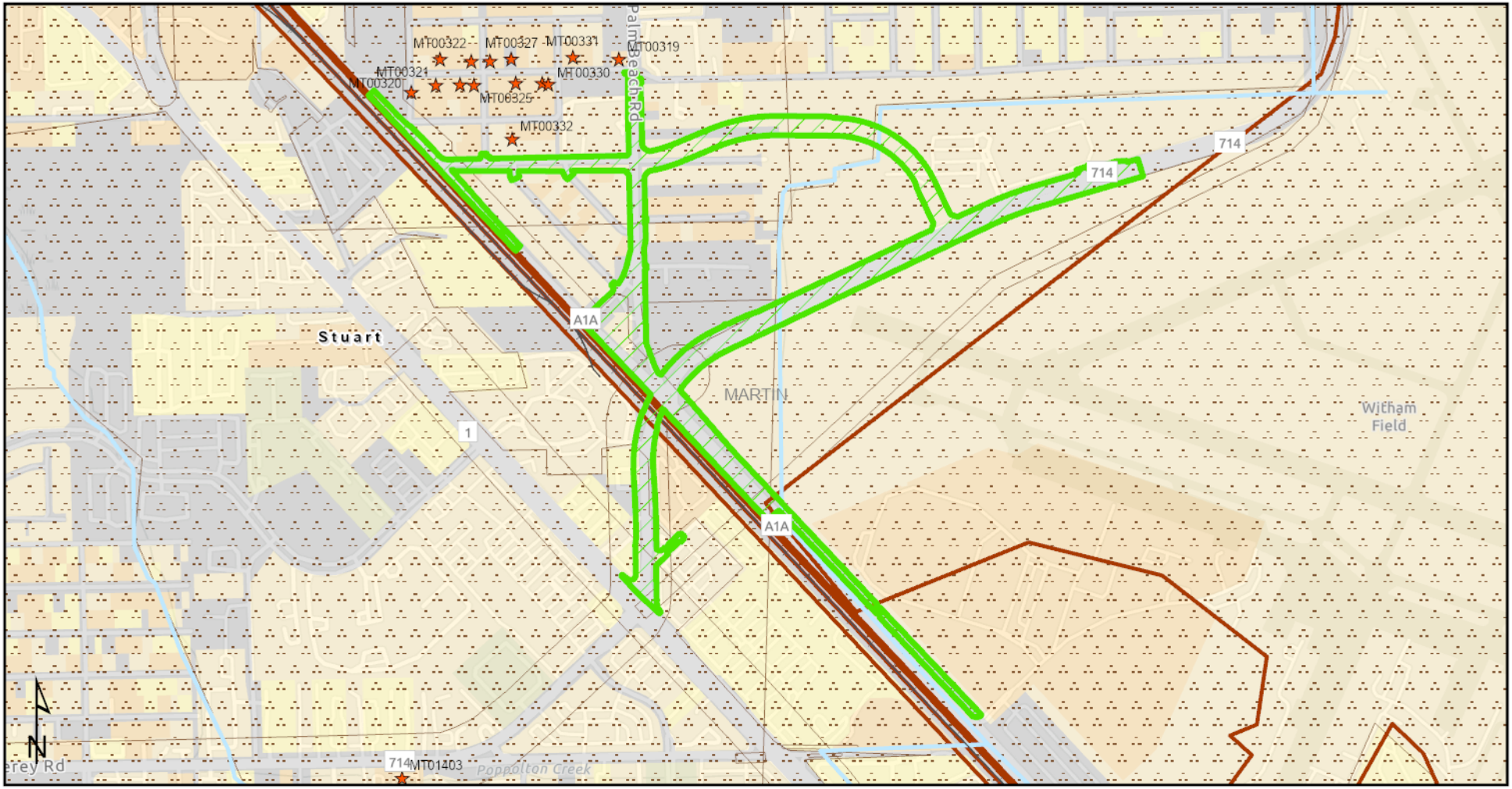
North 2

Not Specified TO Not Specified



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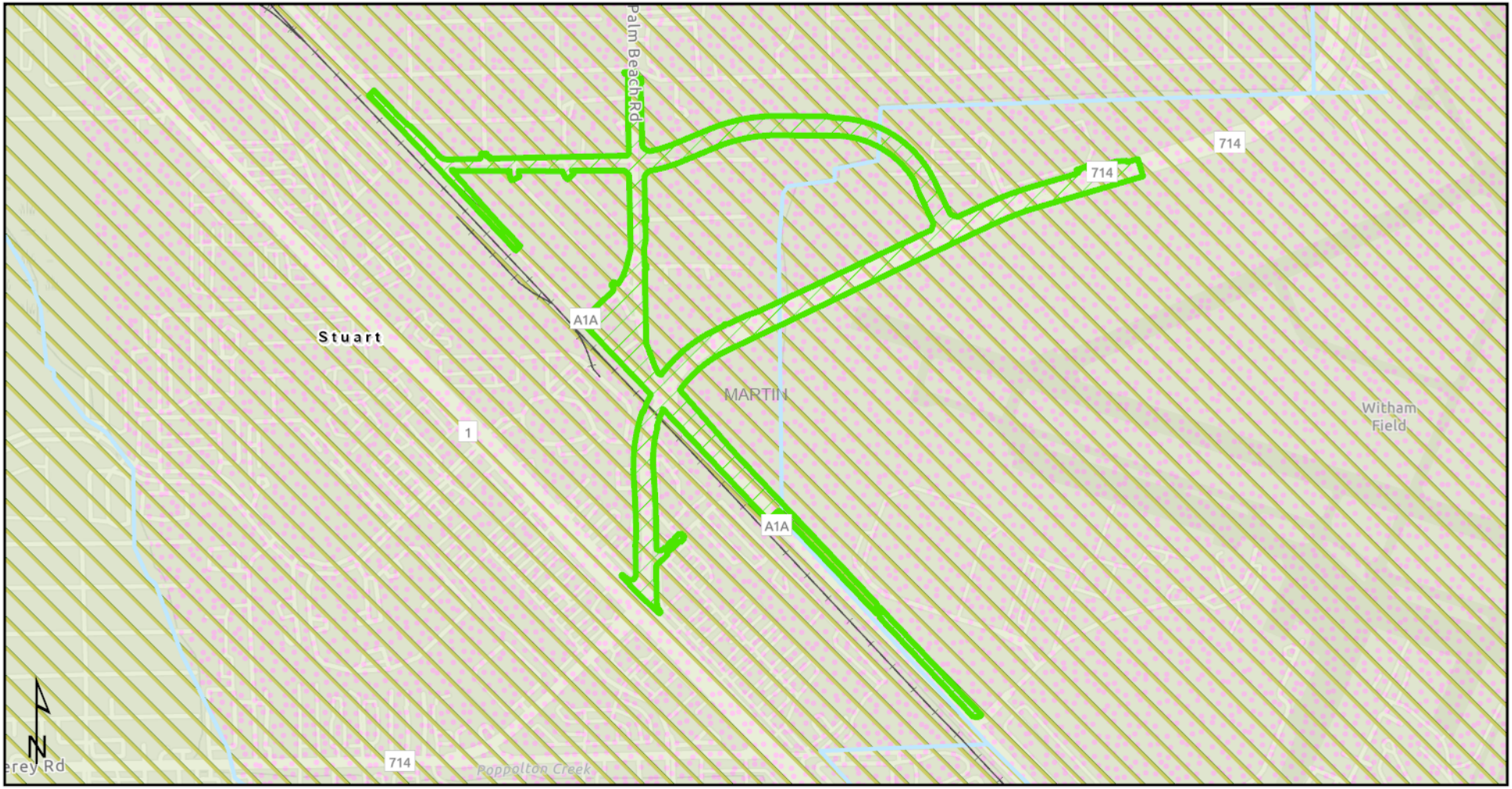
14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

Not Specified TO Not Specified



Hydrogeology

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Recharge Areas of the Floridan Aquifer

- Disharge < 1

USGS Geological Units (Epoch)

- Pleistocene
- Pleistocene/Holocene

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

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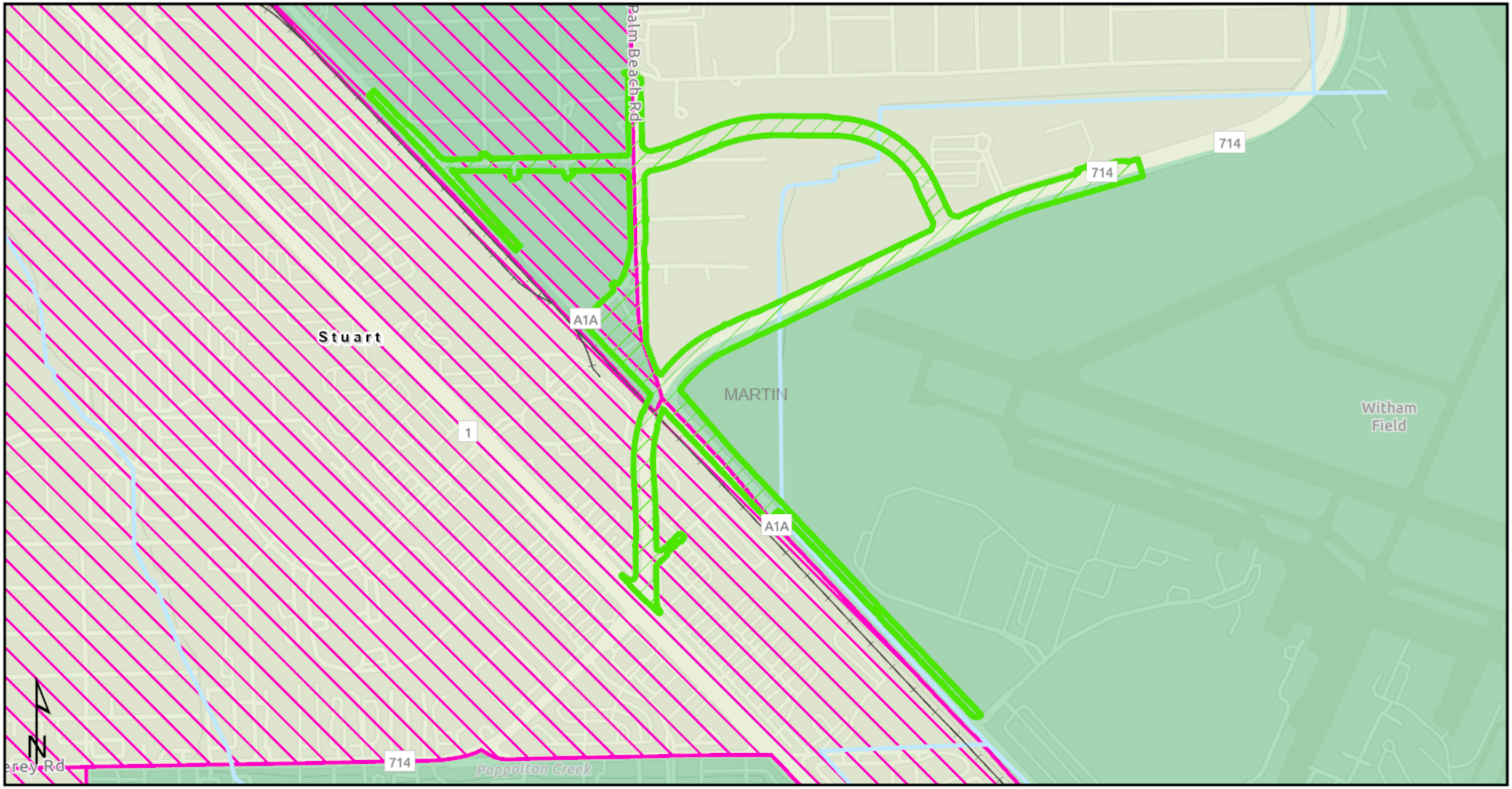

Income

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Below Poverty (>20%)

Median Household Income

- 30,000 - 49,999
- 50,000 - 79,999

0 500 1,000 US Feet

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North 2

Not Specified TO Not Specified

Integrated Wildlife Model

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

IWHRS_2009

- Low Habitat Quality

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

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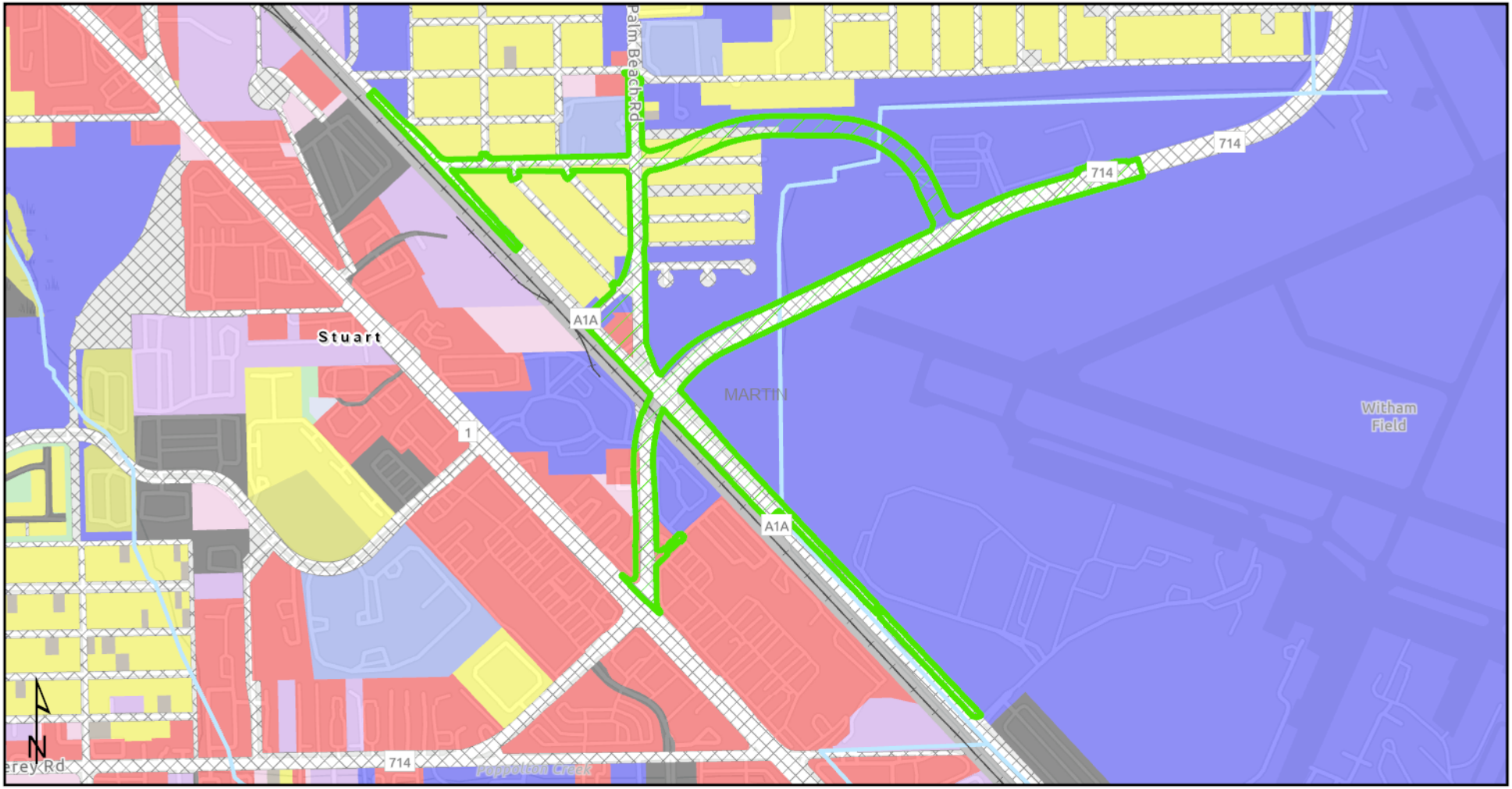

Land Use

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Generalized Land Use (Parcels Derived)

- Acreage Not Zoned For Agriculture
- Centrally Assessed
- Industrial
- Institutional
- Parcels With No Values
- Public/Semi-Public
- Recreation
- Residential
- Retail/Office
- Right-of-Way
- Vacant Nonresidential
- Vacant Residential
- Water

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

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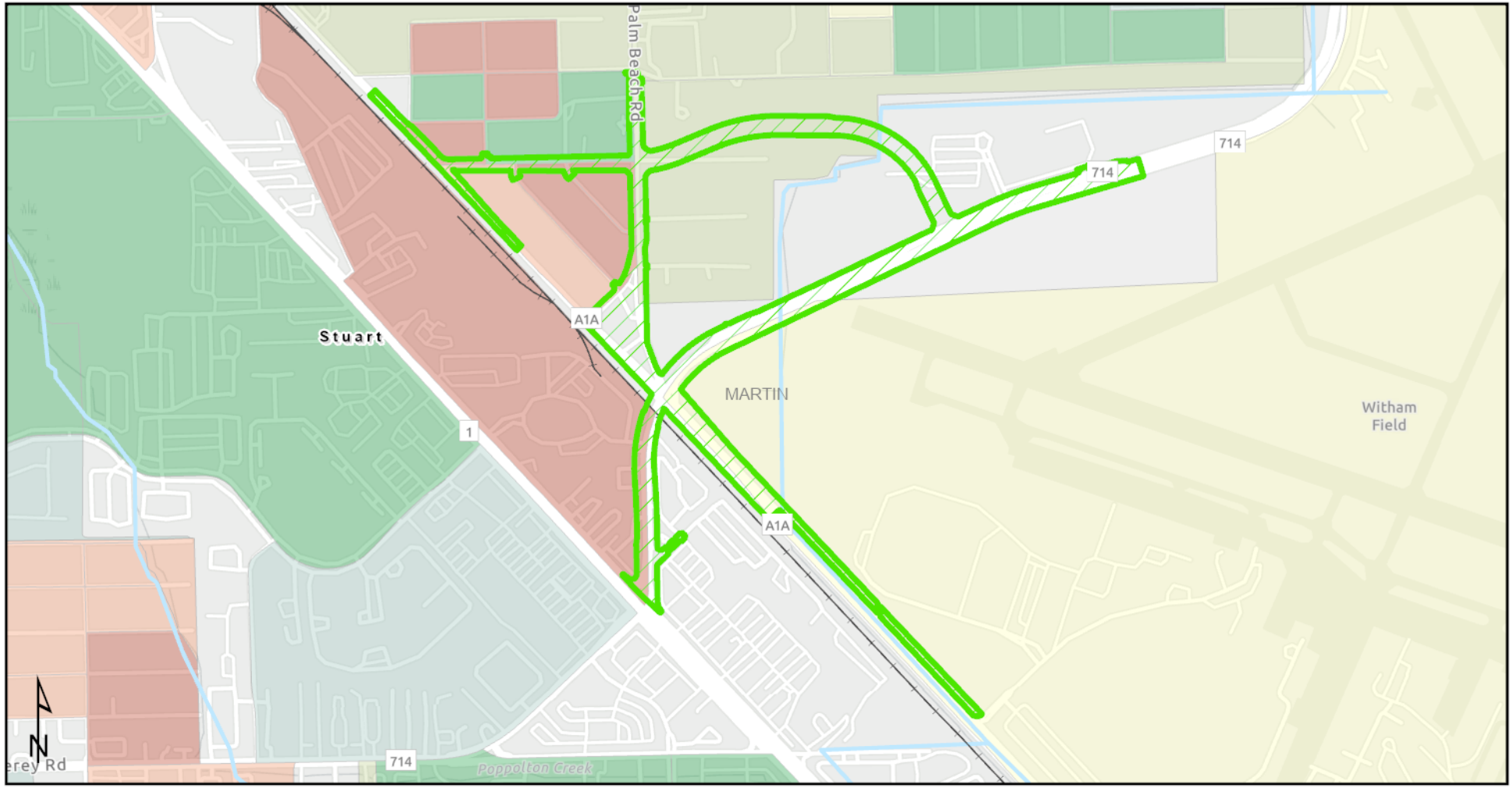

Minority Population

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Percent Minority Population (2020)

- 0 - 6
- 7 - 20
- 21 - 40
- 41 - 60
- 61 - 85
- 86 - 100

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

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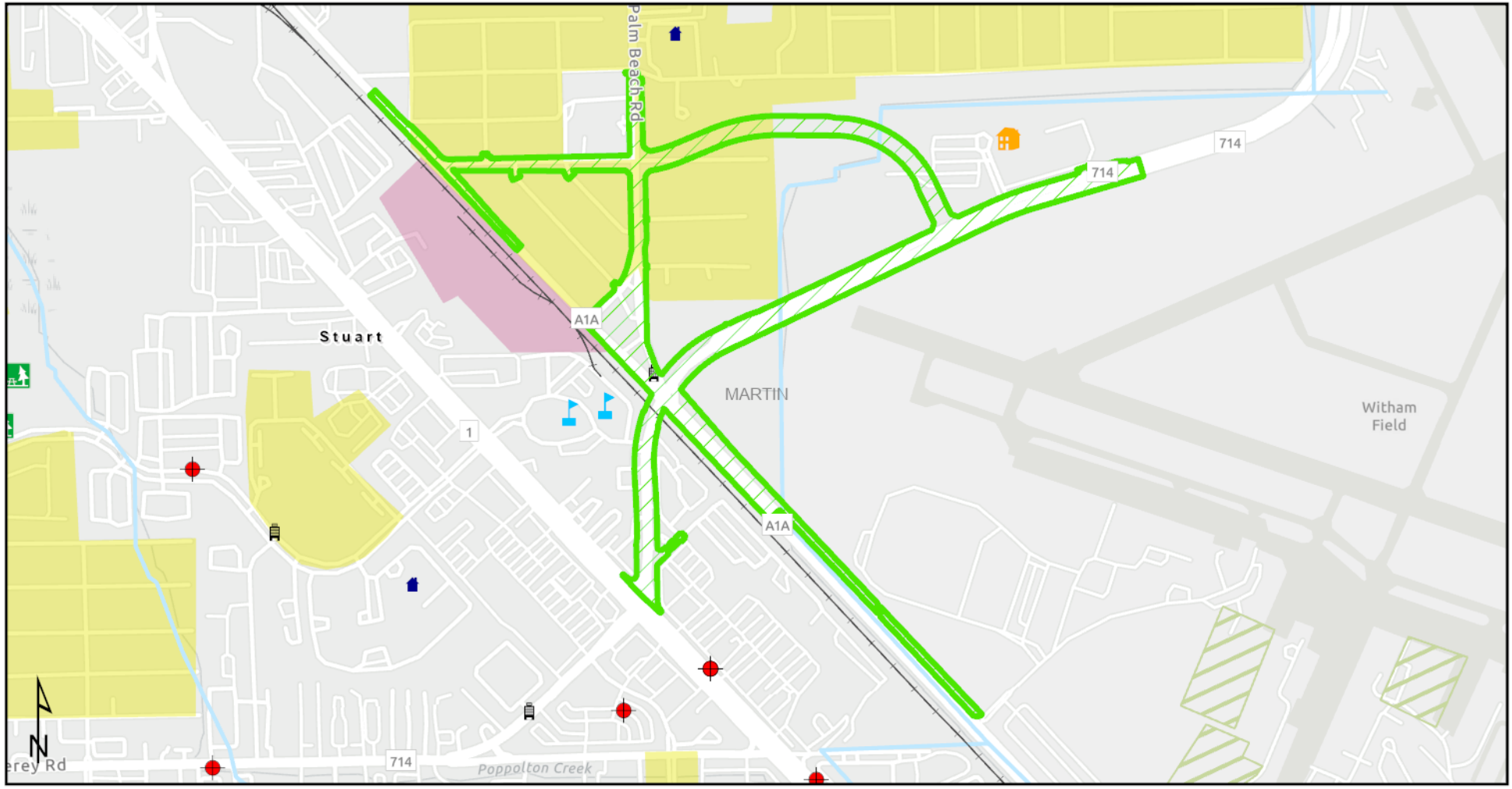

Noise

- ETDM Alternative Poly
- Condo Owners Associations
- Laser On-site
- Group Care Facilities
- Community Center
- Park
- School
- Railroad
- County Boundaries
- River, Stream or Canal
- Planned Unit Developments
- Residential
- Industrial

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

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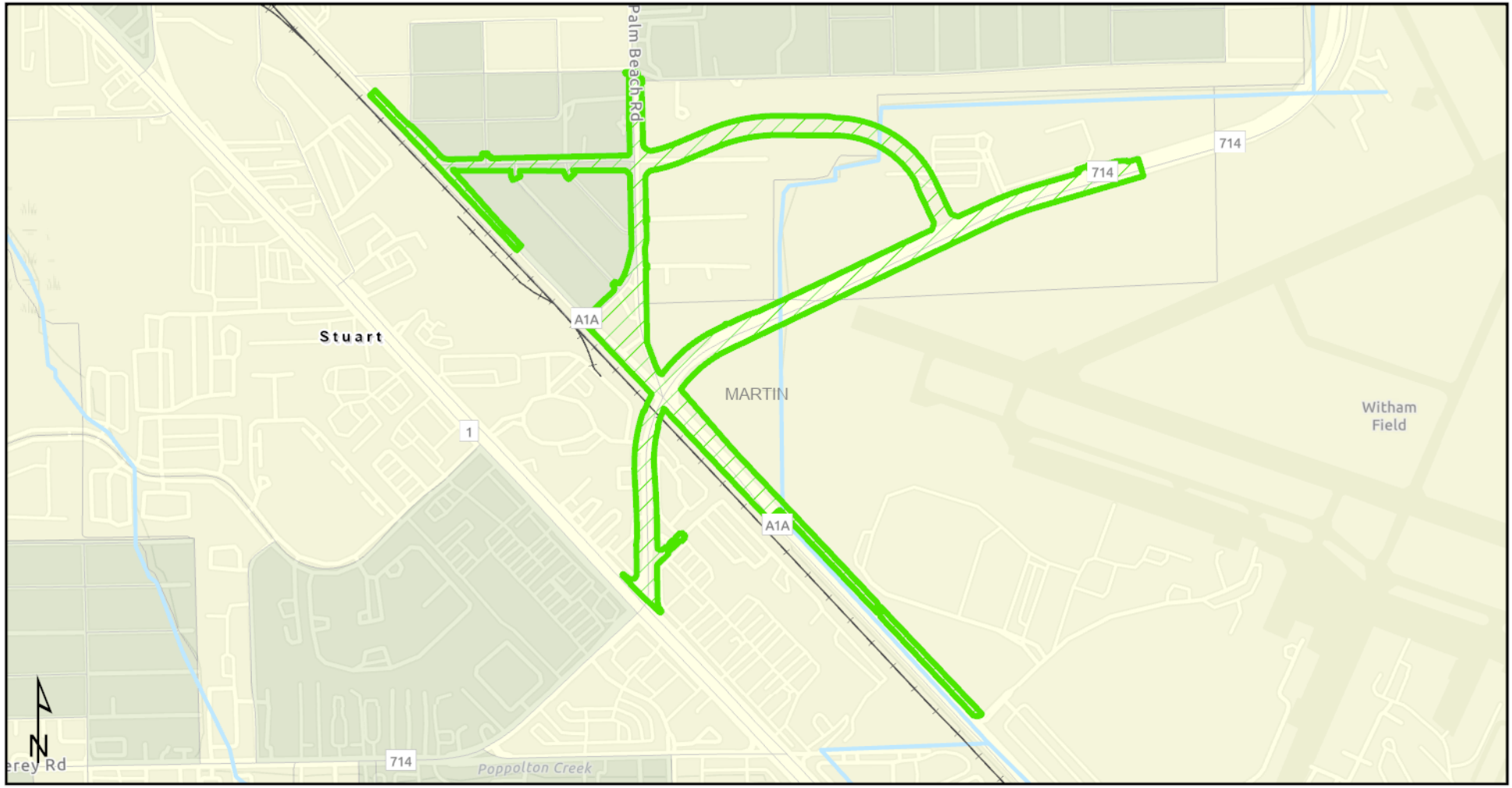

Population Density

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Population Per Acre (2020)

- 0 - 4.9
- 5 - 29.9

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

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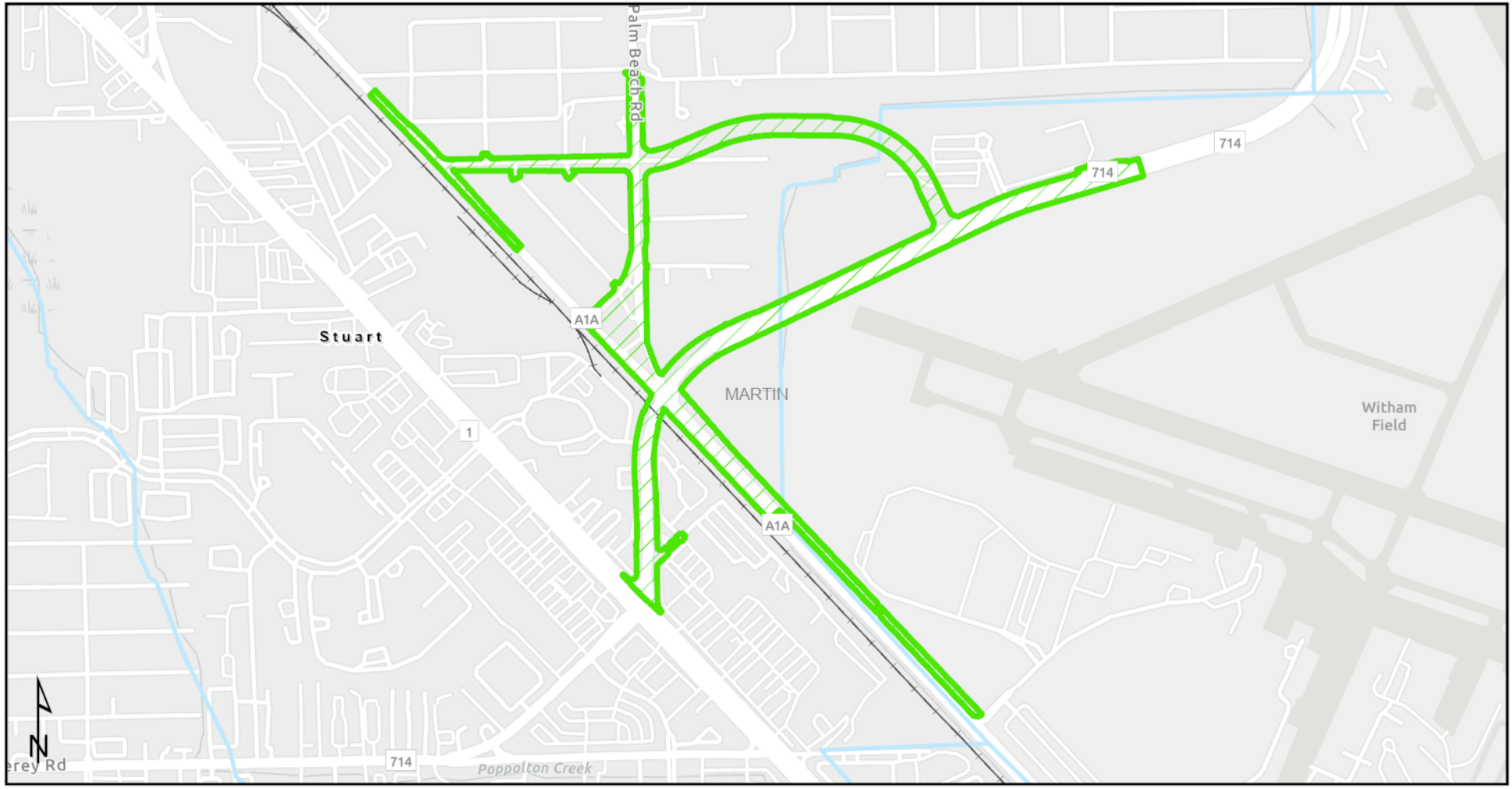

Recreational Areas

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

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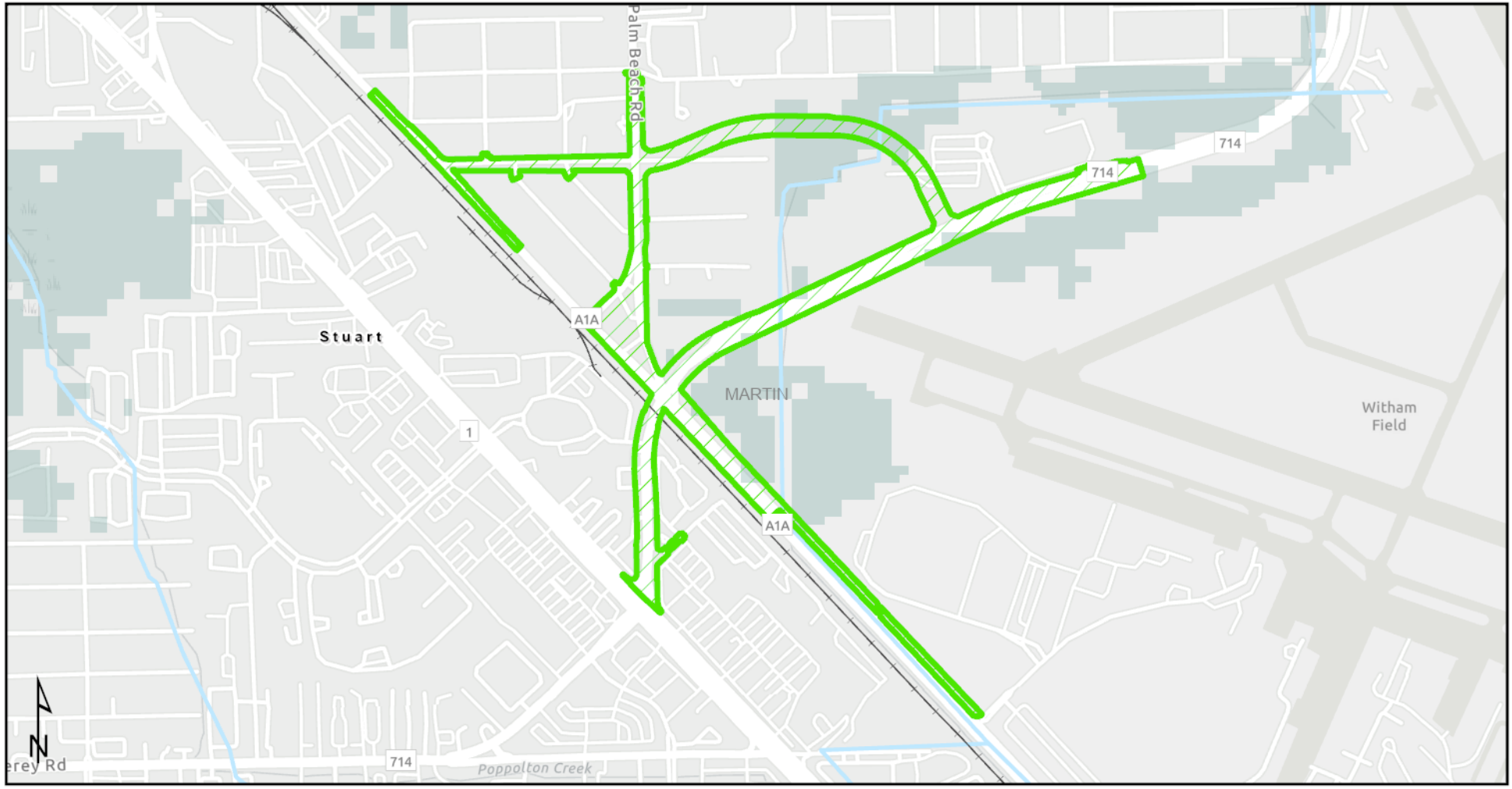

Species Potential

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

Potential Habitat Richness

- 3 - 5 Species

0 500 1,000 US Feet

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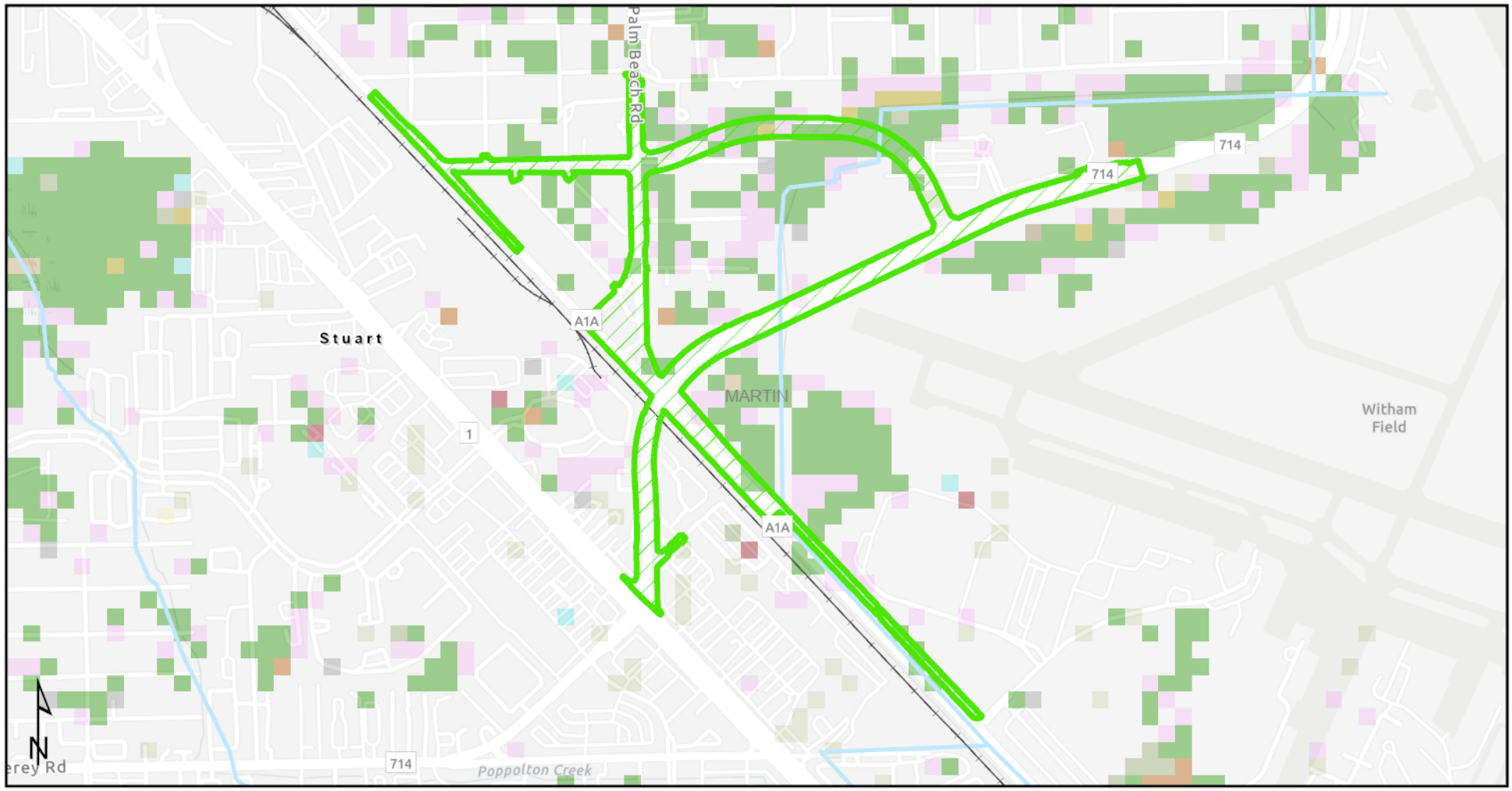

Vegetation

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

GFCHAB_2003

- Dry Prairie
- Hardwood Hammocks and Forests
- Pinelands
- Freshwater Marsh and Wet Prairie
- Shrub Swamp
- Cypress Swamp
- Cypress/Pine/Cabbage Palm
- Mixed Wetland Forest
- Hardwood Swamp
- Shrub and Brushland
- Bare Soil/Clearcut
- Improved Pasture
- High Impact Urban
- Low Impact Urban

0 500 1,000 US Feet

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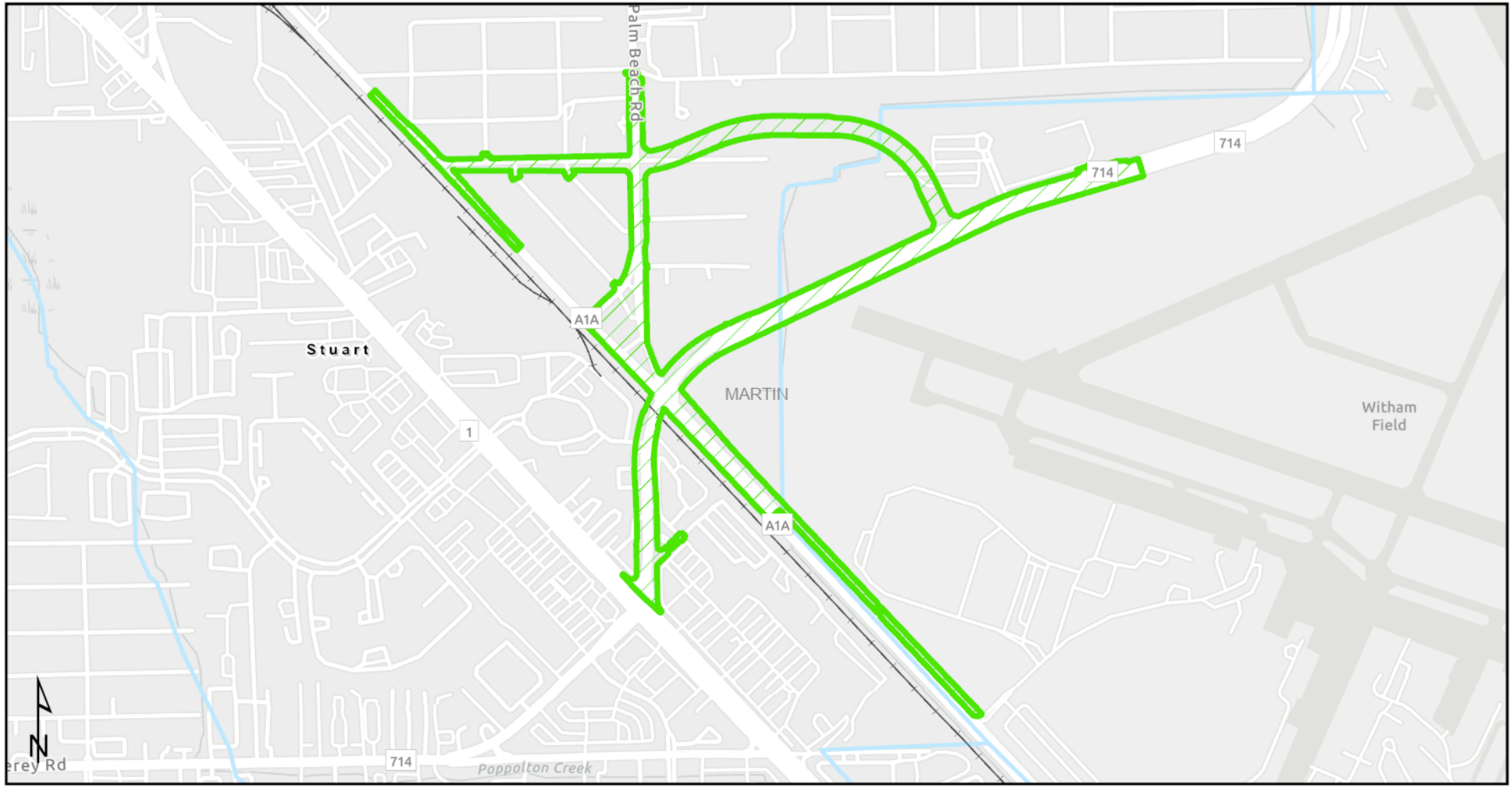

WATERSS Base

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

0 500 1,000 US Feet

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14527 - SR 714/Monterey Road at FEC Railroad Crossing Project Development and Environment Study

North 2

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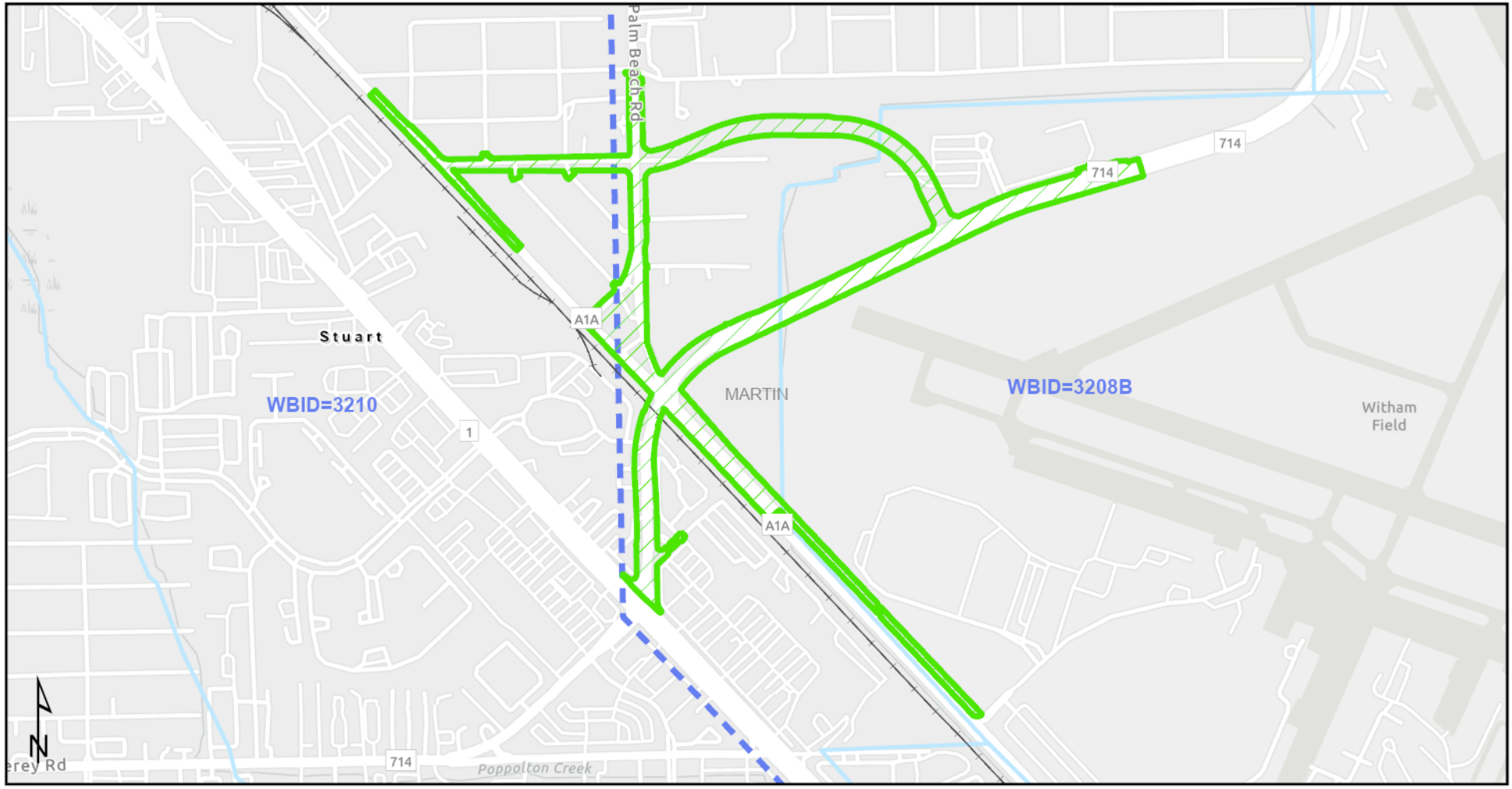

Water Resource

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal
- Drainage Basin

0 500 1,000 US Feet

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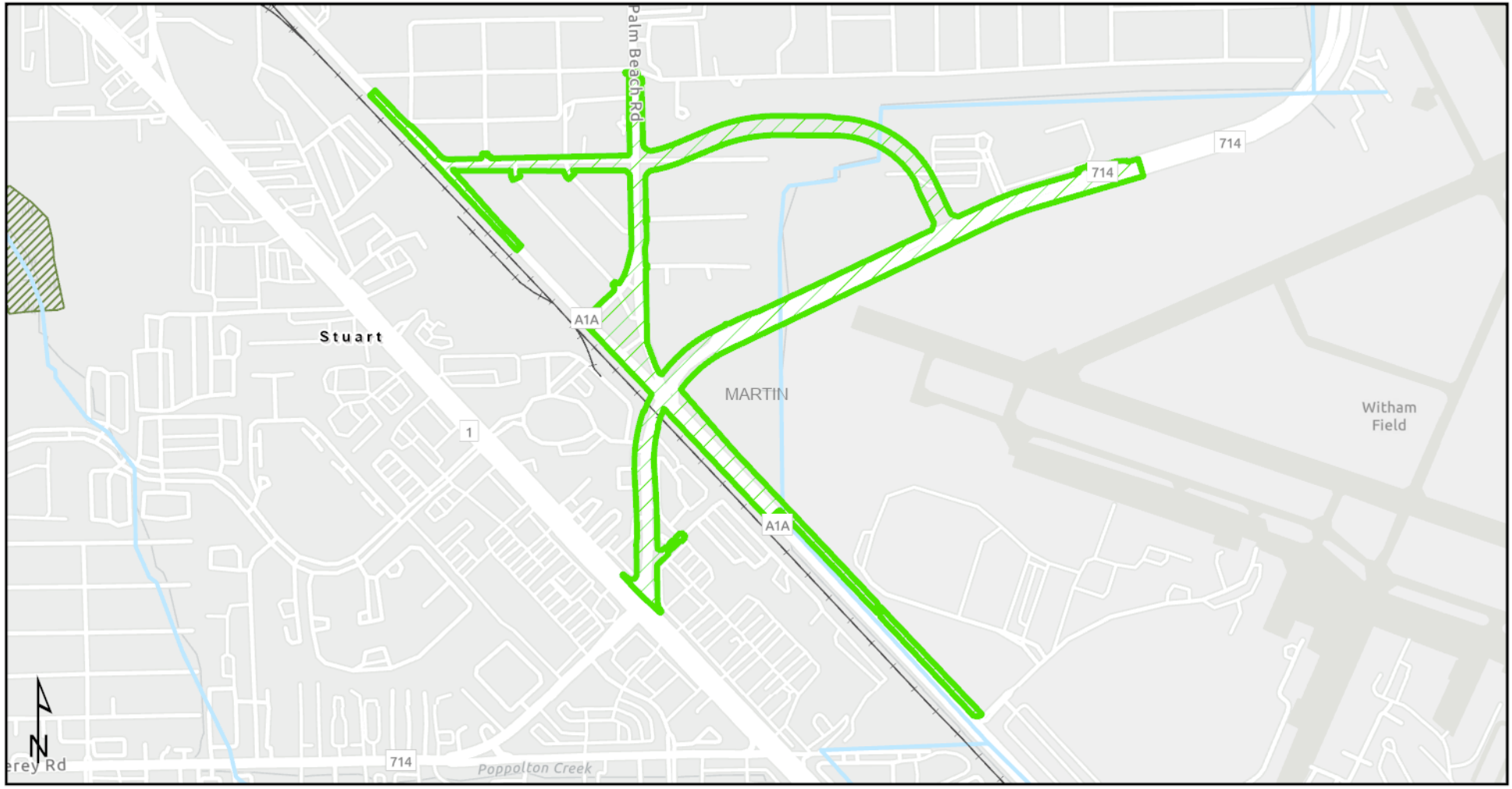

Wetlands and Surface Waters

- ETDM Alternative Poly
- Railroad
- County Boundaries
- River, Stream or Canal

WMD FLUCCS Wetlands

- Wetland Forested Mixed

0 500 1,000 US Feet

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APPENDIX D

Concept Plans

CONTRACT PLANS COMPONENTS

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

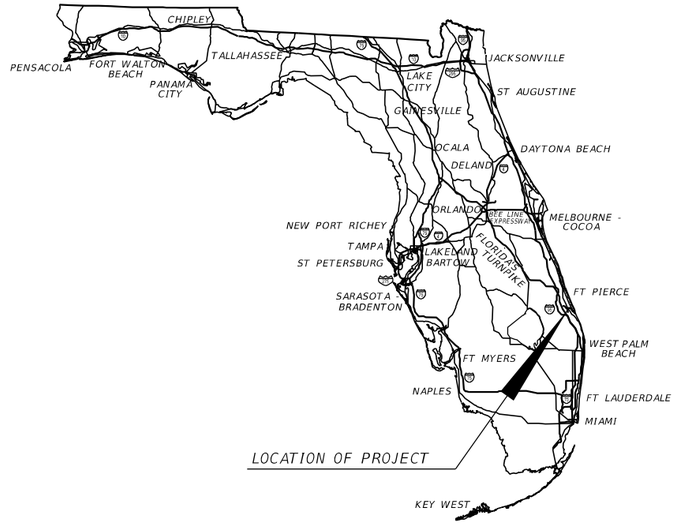
FINANCIAL PROJECT ID 441636-2-52-01

ALTERNATIVE 1

MARTIN COUNTY (890920)

STATE ROAD NO. 714 (SE MONTEREY ROAD)

S.R. 714/MONTEREY ROAD @ FEC RAILROAD CROSSING



PROJECT LOCATION URL:	https://tinyurl.com/bdf454wn
PROJECT LIMITS:	S.R. 714 BEGIN MP 1.011 - END MP 1.706
EXCEPTIONS:	
BRIDGE LIMITS:	
RAILROAD CROSSING:	FLORIDA EAST COAST (FEC) MAINLINE (272353M) AND FEC SPUR (272929N)

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
	KEY SHEET
1 - 11	ALTERNATIVE 1

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2026-27 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: IR - -

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2026-27 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

ROADWAY PLANS ENGINEER OF RECORD:

TANYA KRISTOFF, P.E., P.E.
P.E. LICENSE NUMBER 55463
EGIS USA, INC.
8750 NW 36TH STREET, SUITE 360
MIAMI, FL 33178
904-512-7475
CONTRACT NO.: CAP98
VENDOR NO.: F362338811

FDOT PROJECT MANAGER:

ROBERT LOPES, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		--

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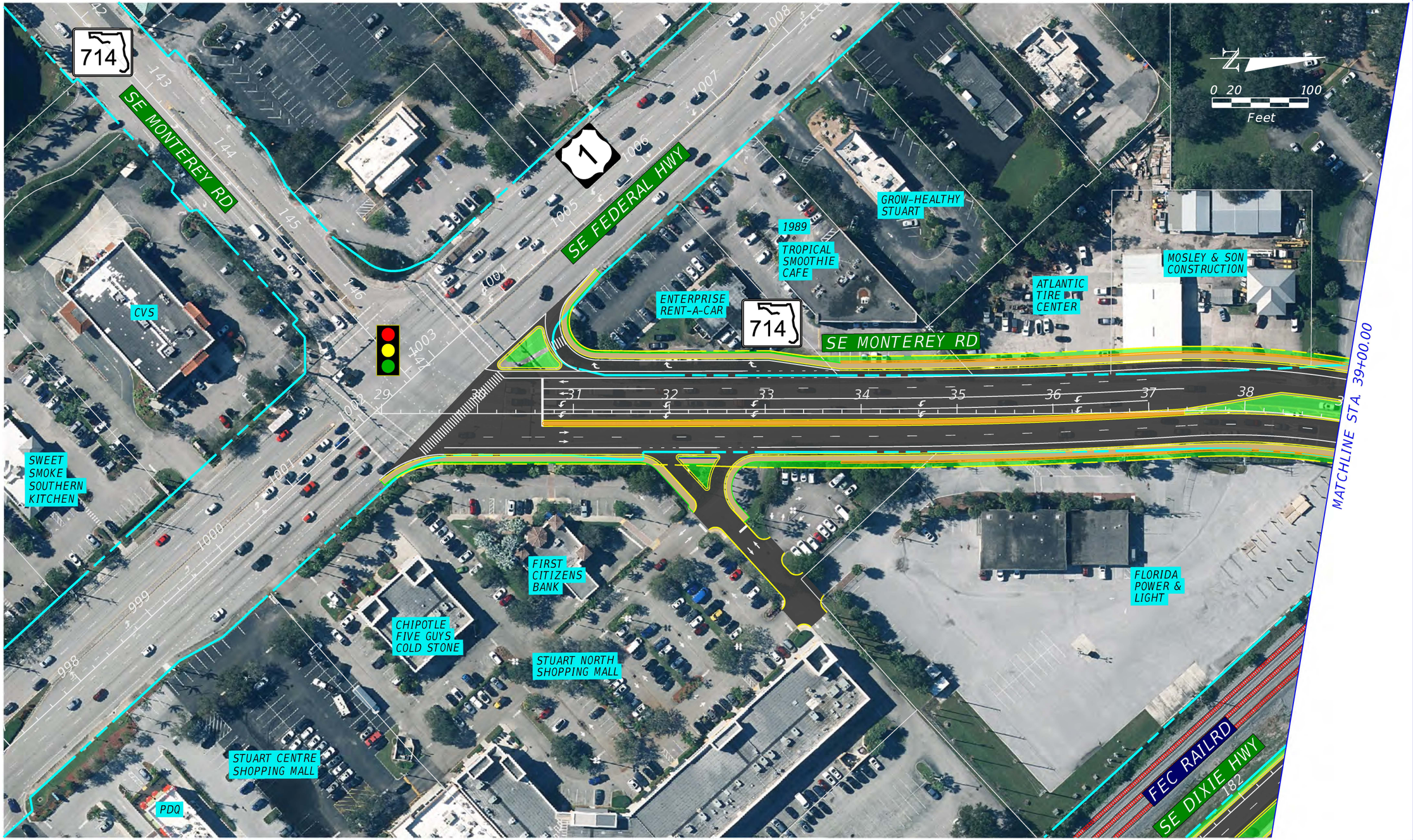

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 1
(CONCEPT 3)
SR 714 / SE MONTEREY ROAD

SHEET NO. 1

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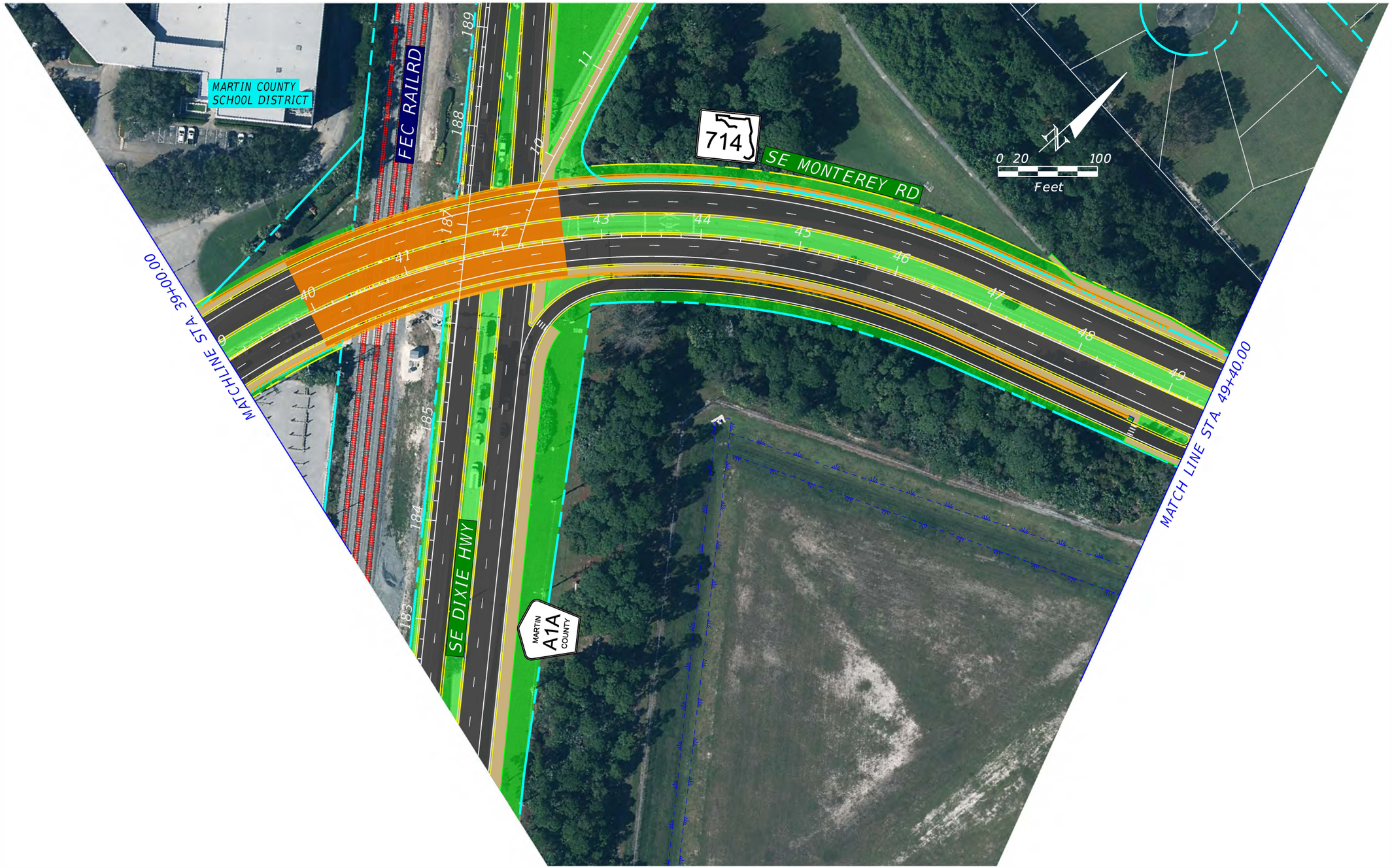

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DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		2
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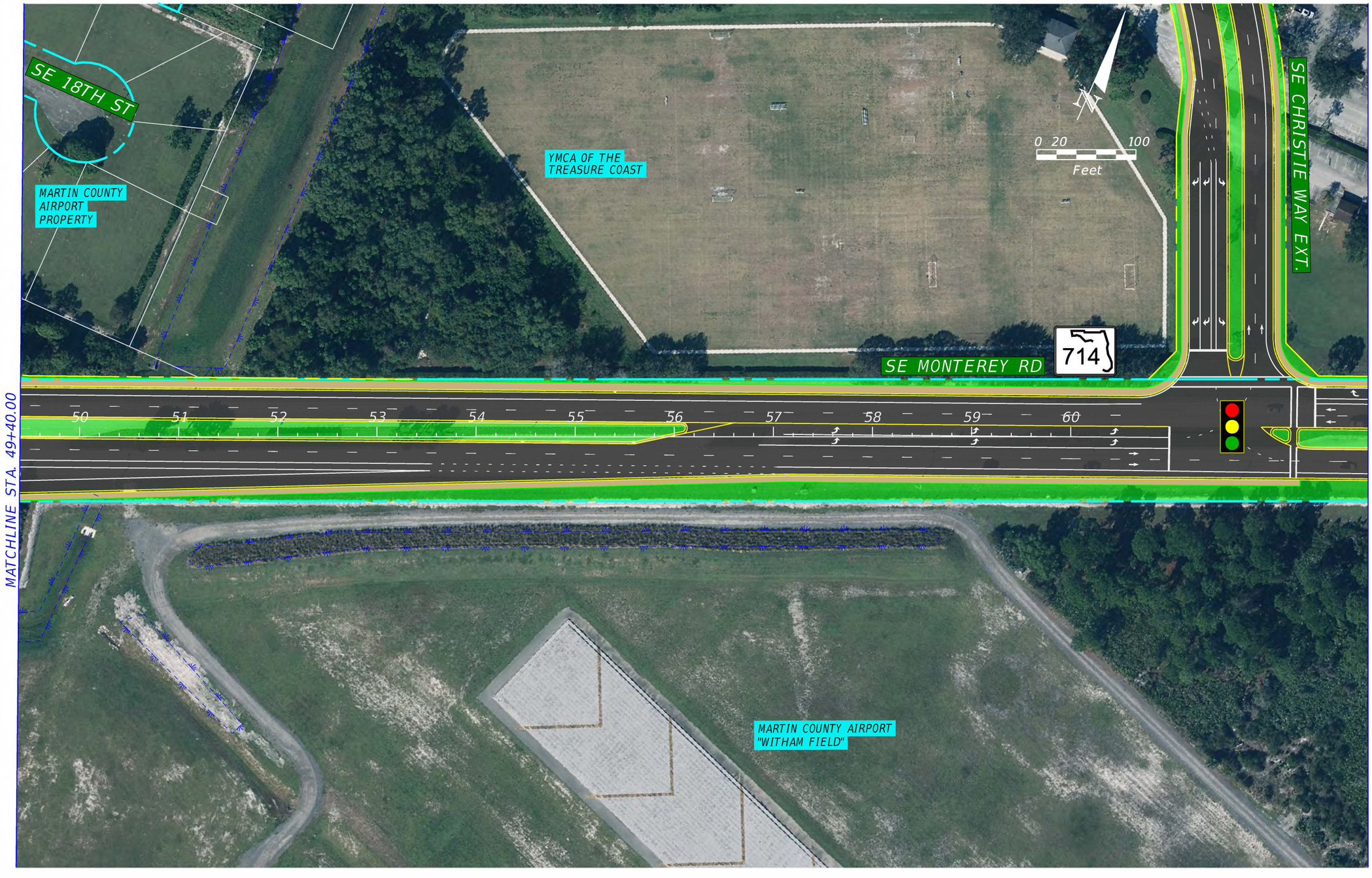

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 1 (CONCEPT 3) SR 714 / SE MONTEREY ROAD

SHEET NO. 3

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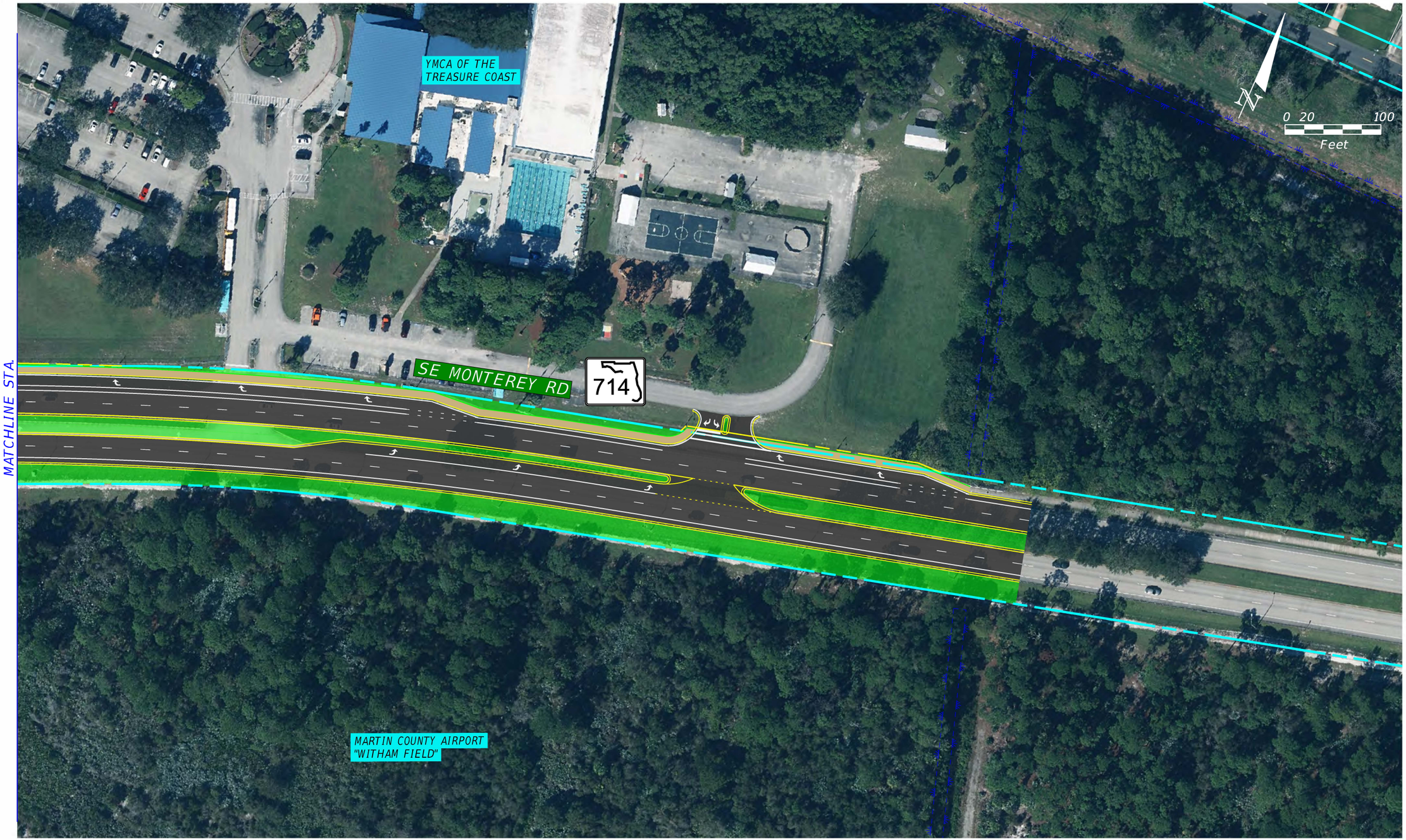

MATCHLINE STA.

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALTERNATIVE 1 (CONCEPT 3) SR 714 / SE MONTEREY ROAD	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	J. WAYNE STOKES JR., P.E. LICENSE NUMBER: 58436 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		4
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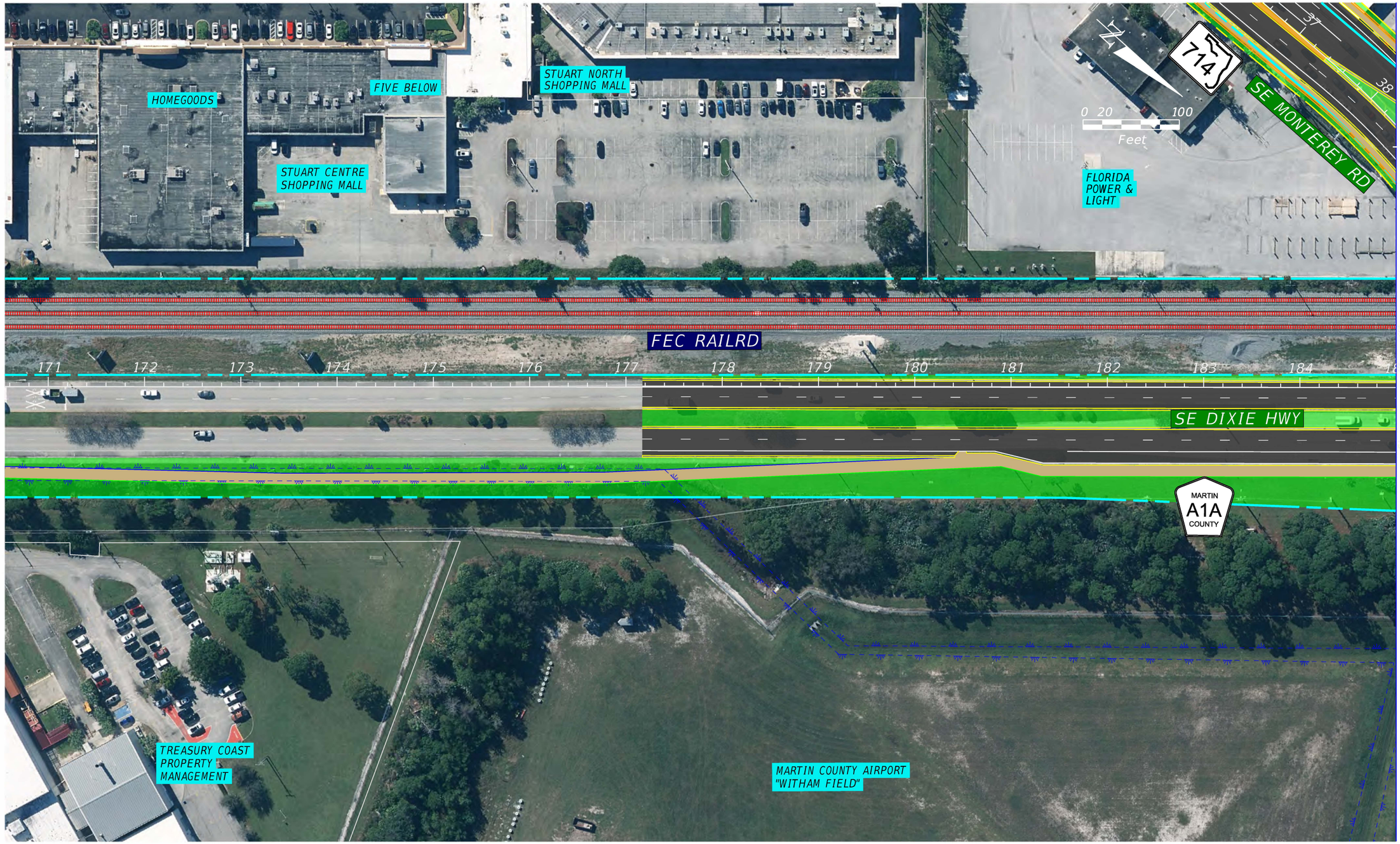

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALTERNATIVE 1 (CONCEPT 3) CR A1A / SE DIXIE HIGHWAY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		5
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MATCHLINE STA. 185+00.00

MATCH LINE STA. 199+00.00

MARTIN COUNTY SCHOOL DISTRICT

SUPERMIX STUART PLANT

0 20 100 Feet

FEC RAILRD

SE DIXIE HWY

MARTIN A1A COUNTY

SE CHRISTIE WAY

RIGHTWAY FOOD

SE MONTEREY RD

714

SE ARAPAHO AV

MARTIN COUNTY AIRPORT PROPERTY

185 186 187 188 189 190 191 192 193 194 195 196 197 198 199

10 11 12 13 14 15 16 17

30 40 41 42 43 44 45 46

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 1 (CONCEPT 3) CR A1A / SE DIXIE HIGHWAY

SHEET NO. 6

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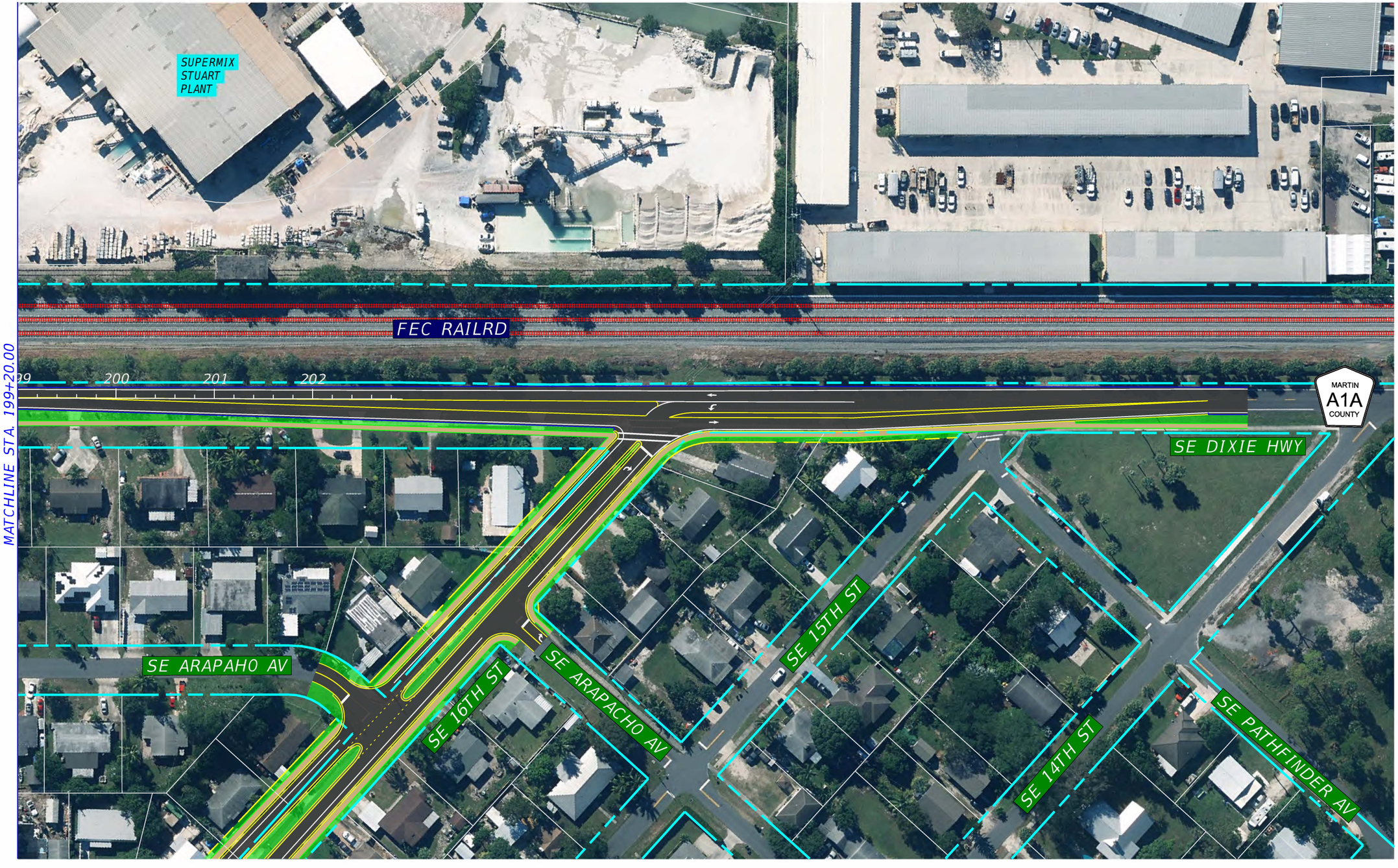

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DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		7
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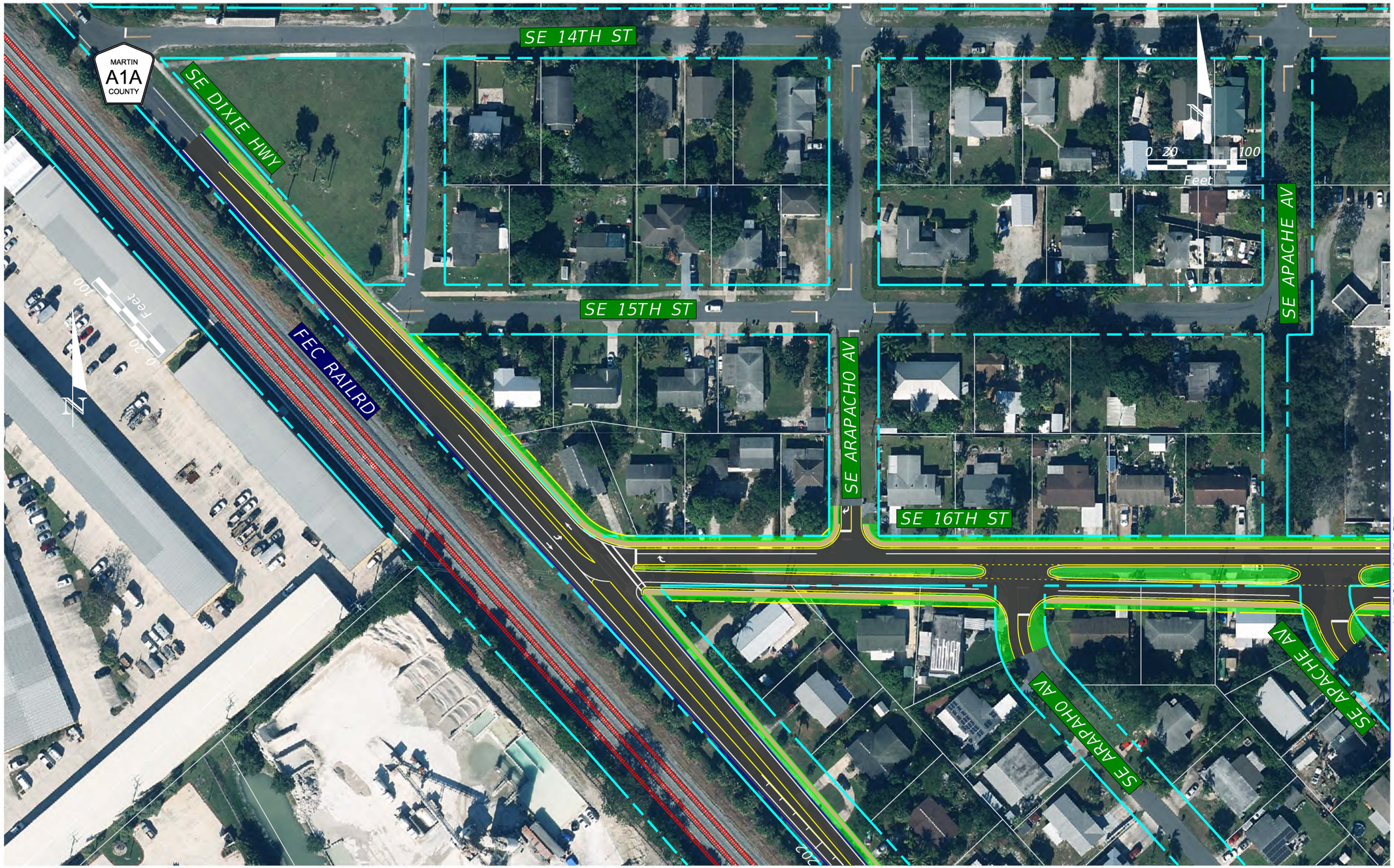

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DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 714	MARTIN	441636-2-22-01		8

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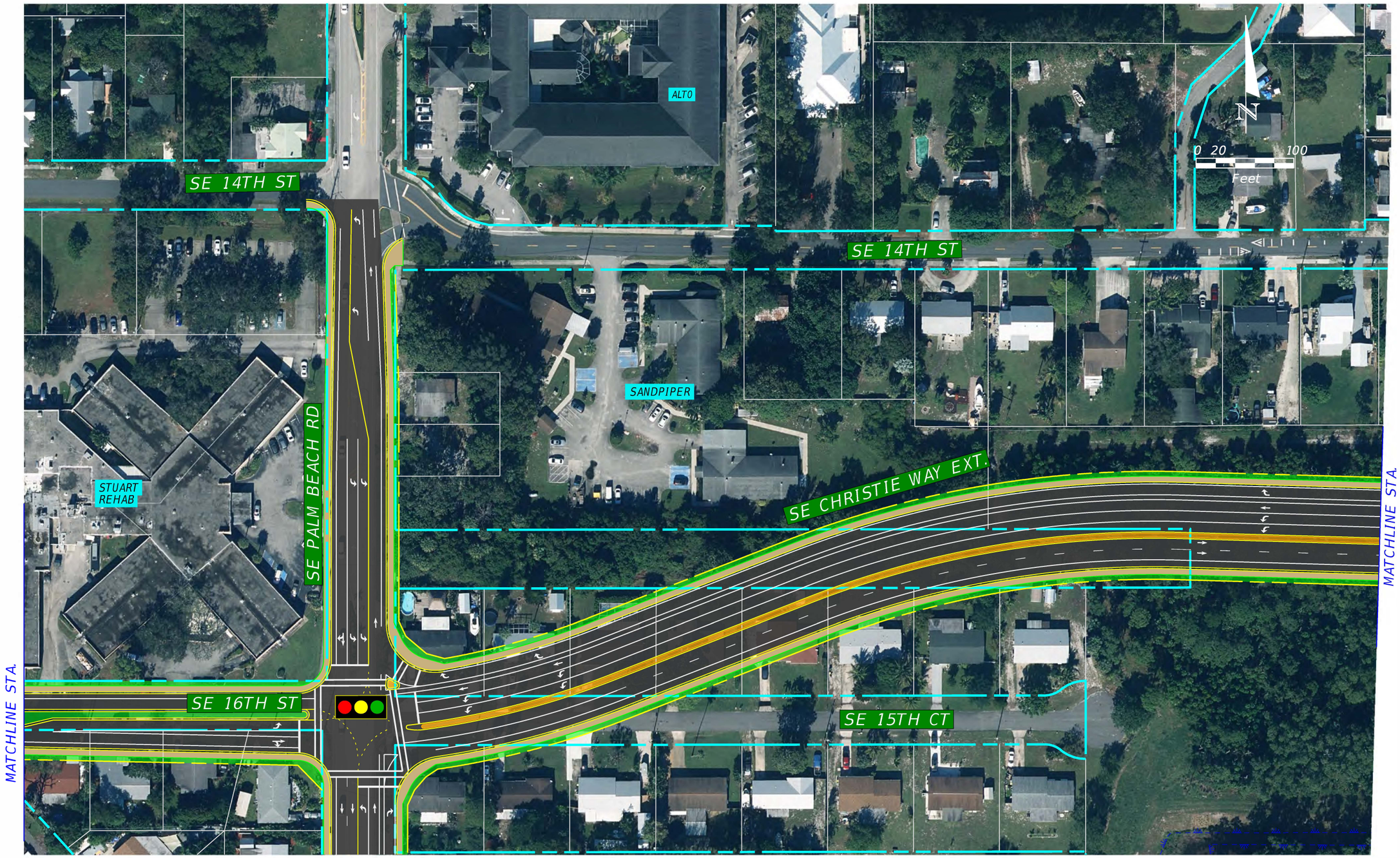
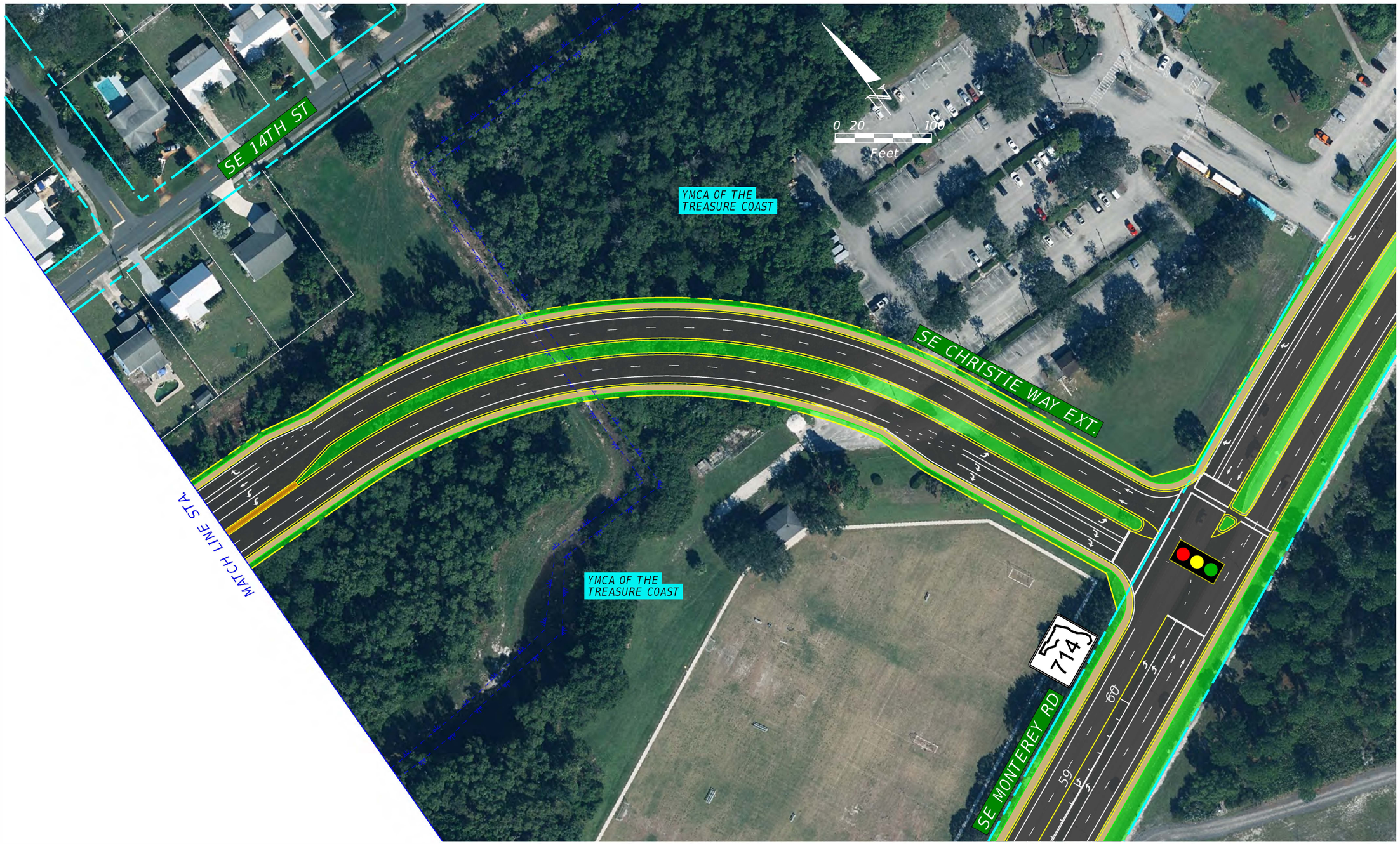


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALTERNATIVE 1 (CONCEPT 3) SE 16TH STREET & SE CHRISTIE WAY EXT.	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		9
					SR 714	MARTIN	441636-2-22-01		



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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALTERNATIVE 1 (CONCEPT 3) SE CHRISTIE WAY EXT.	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		10
					SR 714	MARTIN	441636-2-22-01		

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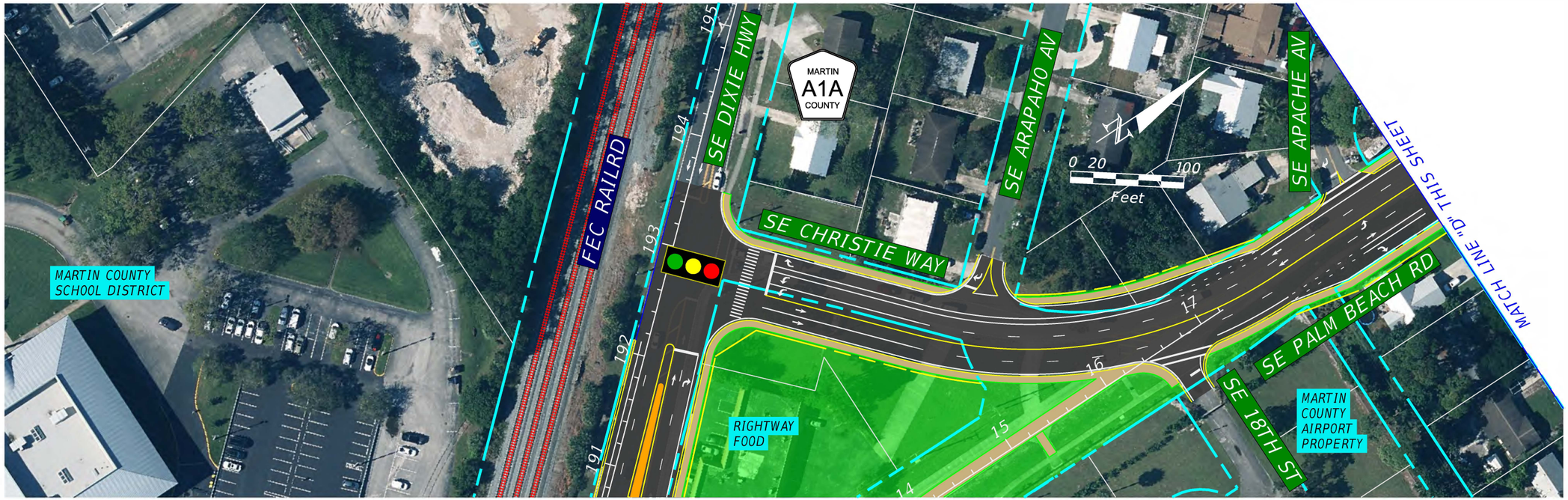

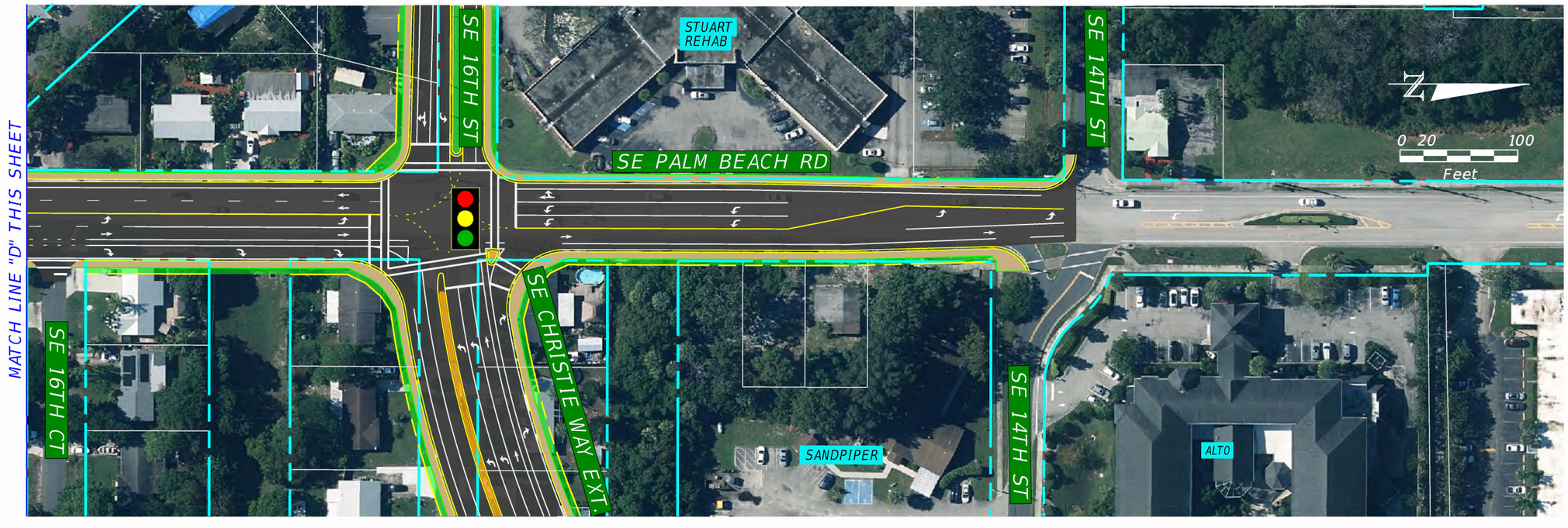

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALTERNATIVE 1 (CONCEPT 3) SE CHRISTIE WAY & SE PALM BEACH RD	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		11
					SR 714	MARTIN	441636-2-22-01		

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CONTRACT PLANS COMPONENTS

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS

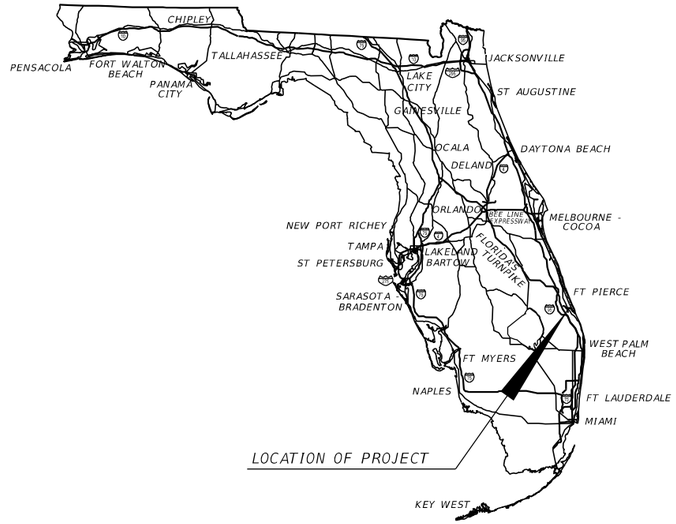
FINANCIAL PROJECT ID 441636-2-52-01

ALTERNATIVE 2

MARTIN COUNTY (890920)

STATE ROAD NO. 714 (SE MONTEREY ROAD)

S.R. 714/MONTEREY ROAD @ FEC RAILROAD CROSSING



PROJECT LOCATION URL:	https://tinyurl.com/bdf454wn
PROJECT LIMITS:	S.R. 714 BEGIN MP 1.011 - END MP 1.706
EXCEPTIONS:	
BRIDGE LIMITS:	
RAILROAD CROSSING:	FLORIDA EAST COAST (FEC) MAINLINE (272353M) AND FEC SPUR (272929N)

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
	KEY SHEET
1 - 9	ALTERNATIVE 2

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2026-27 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: IR - -

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2026-27 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

ROADWAY PLANS ENGINEER OF RECORD:

TANYA KRISTOFF, P.E., P.E.
P.E. LICENSE NUMBER 55463
EGIS USA, INC.
8750 NW 36TH STREET, SUITE 360
MIAMI, FL 33178
904-512-7475
CONTRACT NO.: CAP98
VENDOR NO.: F362338811

FDOT PROJECT MANAGER:

ROBERT LOPES, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		--

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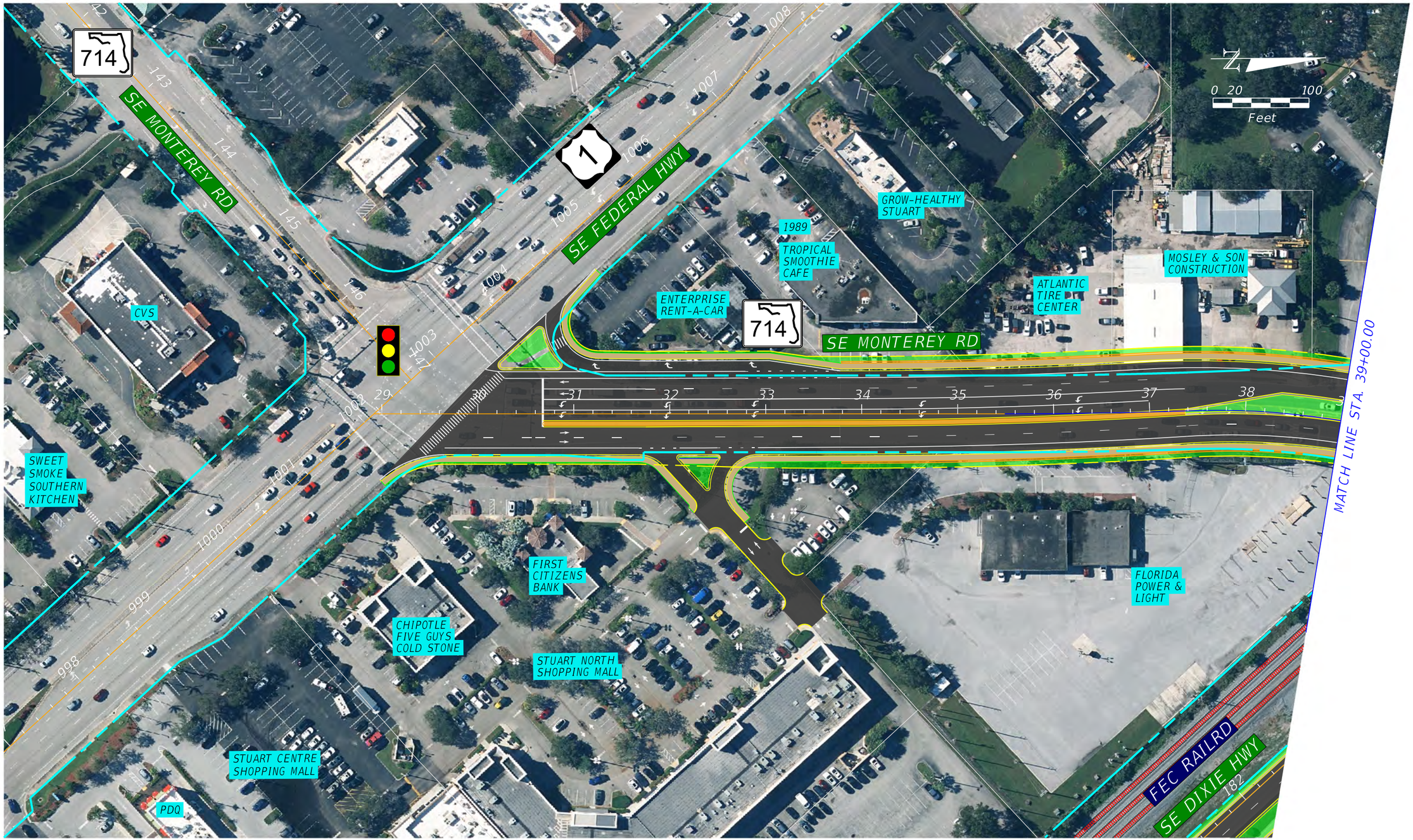

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2
(CONCEPT 3*)
SR 714 / SE MONTEREY RD

SHEET NO. 1

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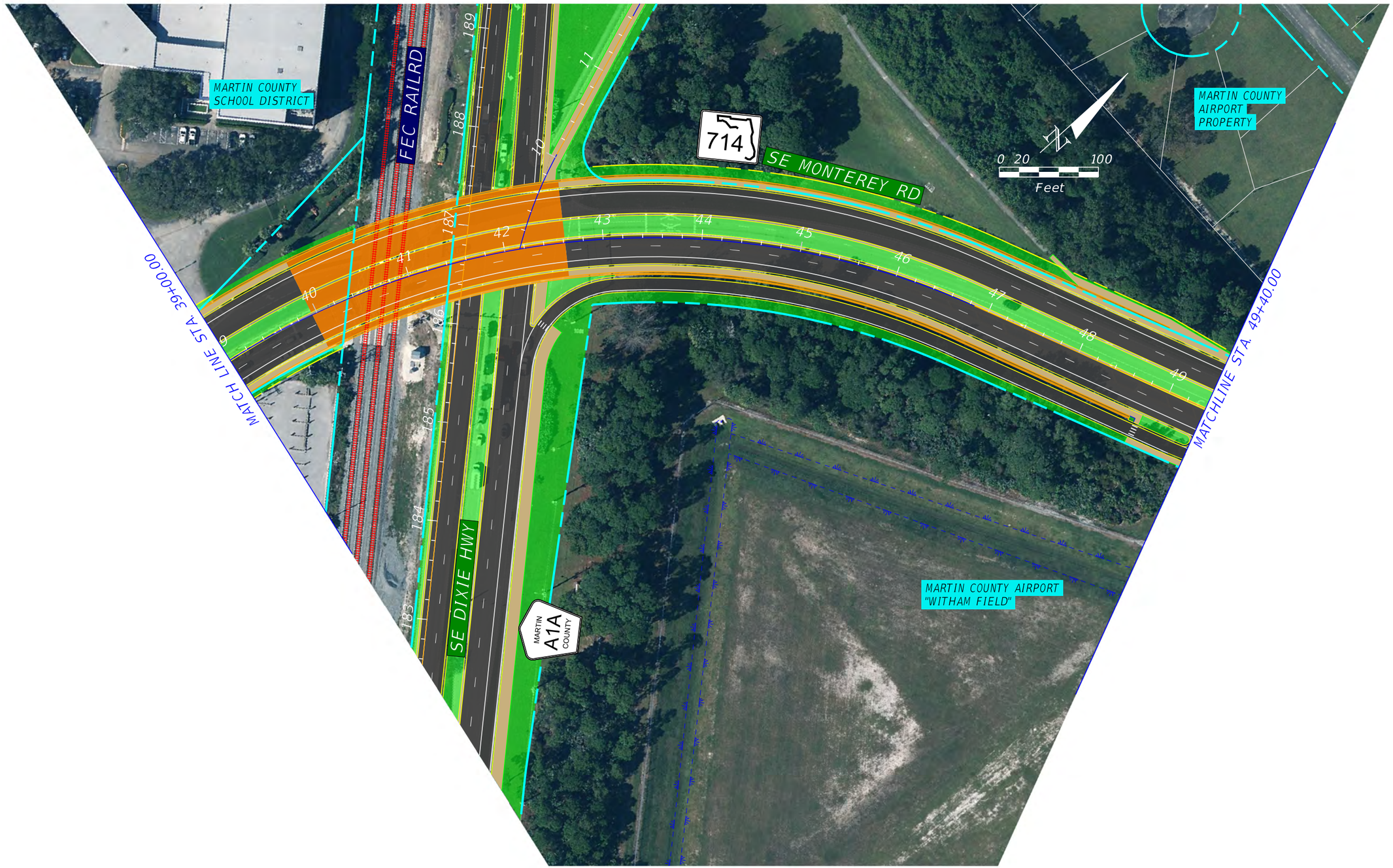

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5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*) SR 714 / SE MONTEREY RD

SHEET NO. 2

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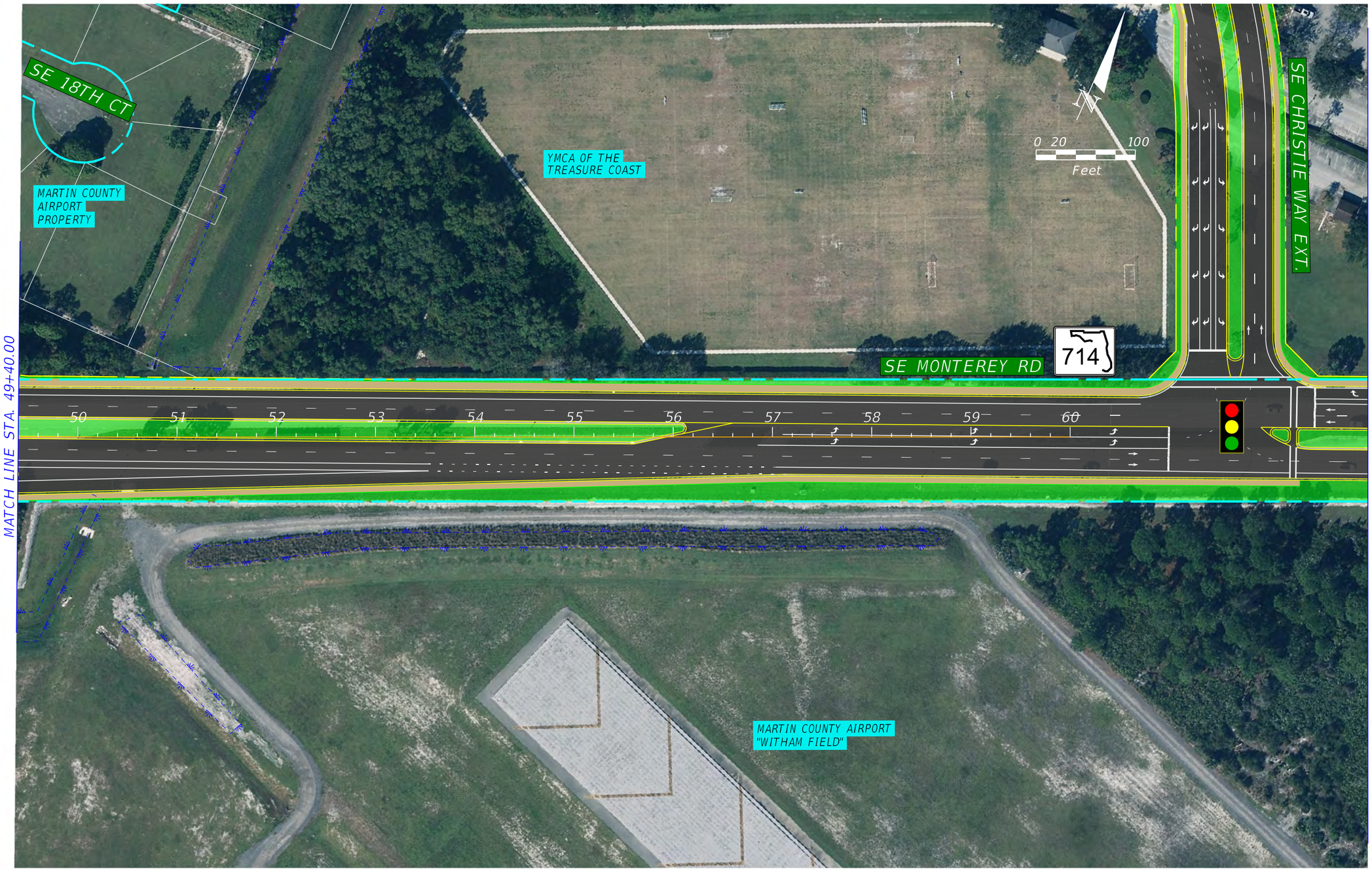

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*) SR 714 / SE MONTEREY RD

SHEET NO. 3

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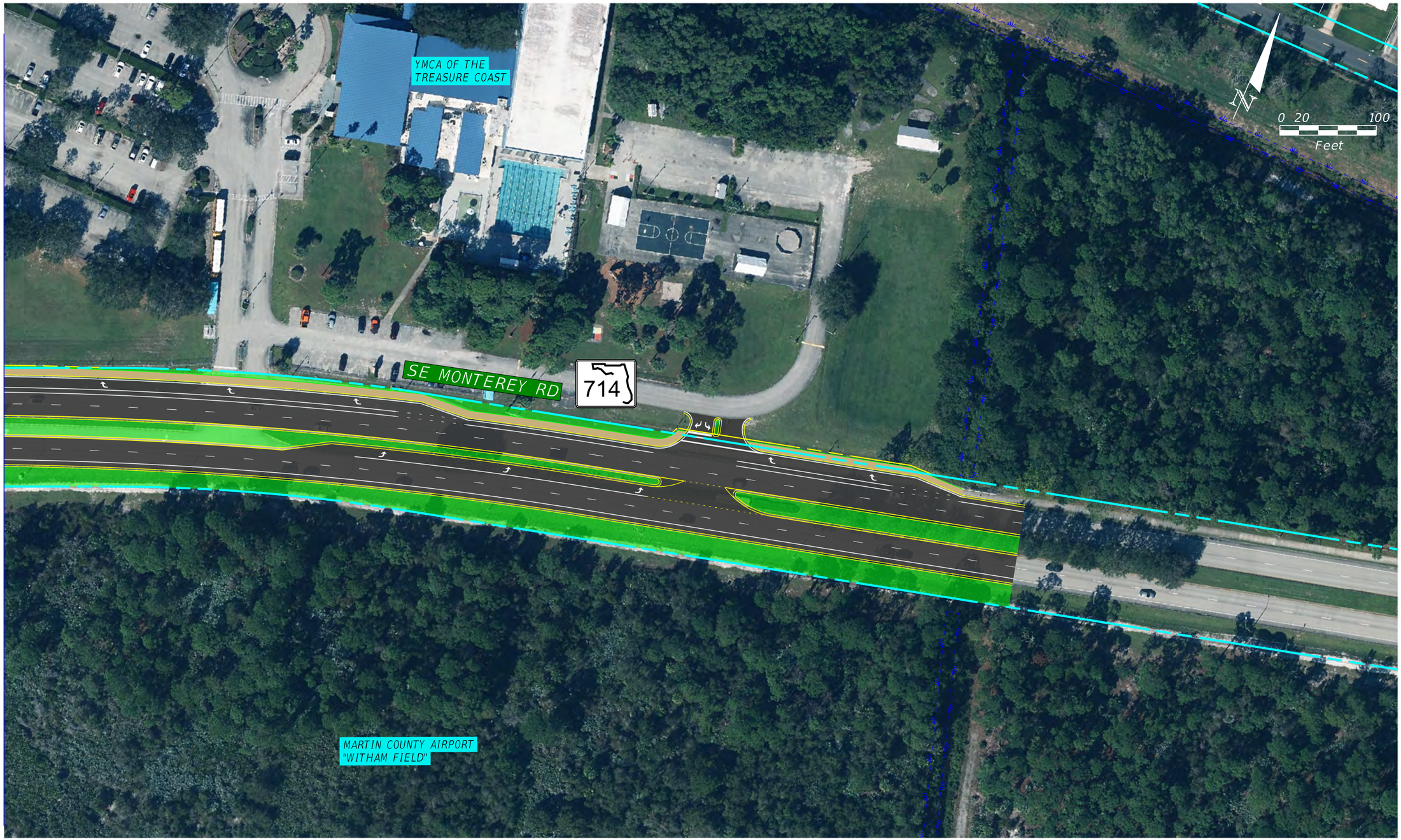
MATCHLINE STA.



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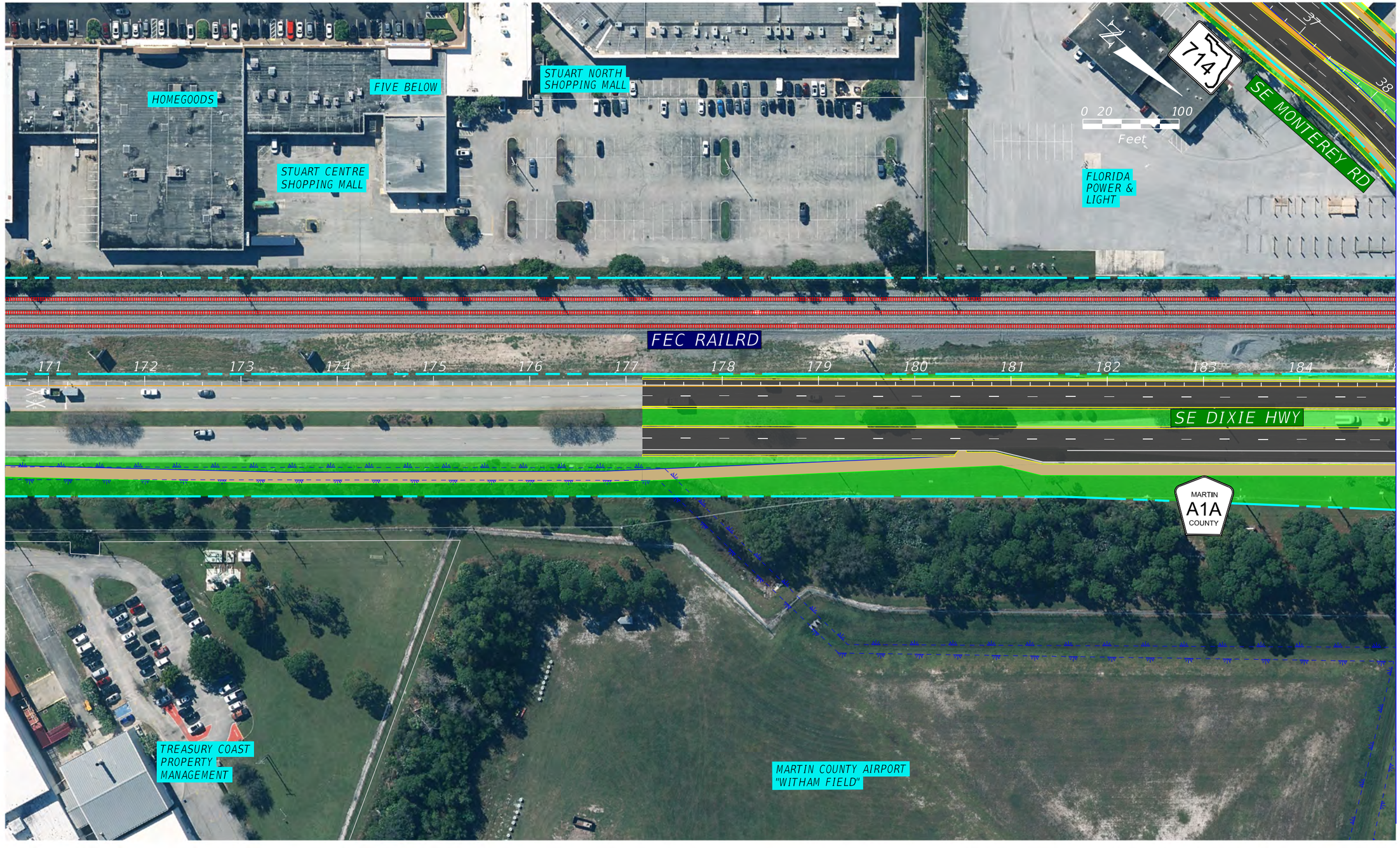
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALTERNATIVE 2 (CONCEPT 3*) SR 714 / SE MONTEREY RD	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TANYA KRISTOFF, P.E. LICENSE NUMBER: 55463 H. W. LOCHNER, INC. 5011 GATE PARKWAY, BLDG 100, STE 120 JACKSONVILLE, FL 32256	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		4
					SR 714	MARTIN	441636-2-22-01		



MATCH LINE STA. 185+00.00

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TANYA KRISTOFF, P.E.
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5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*) CR A1A / SE DIXIE HIGHWAY

SHEET NO. 5

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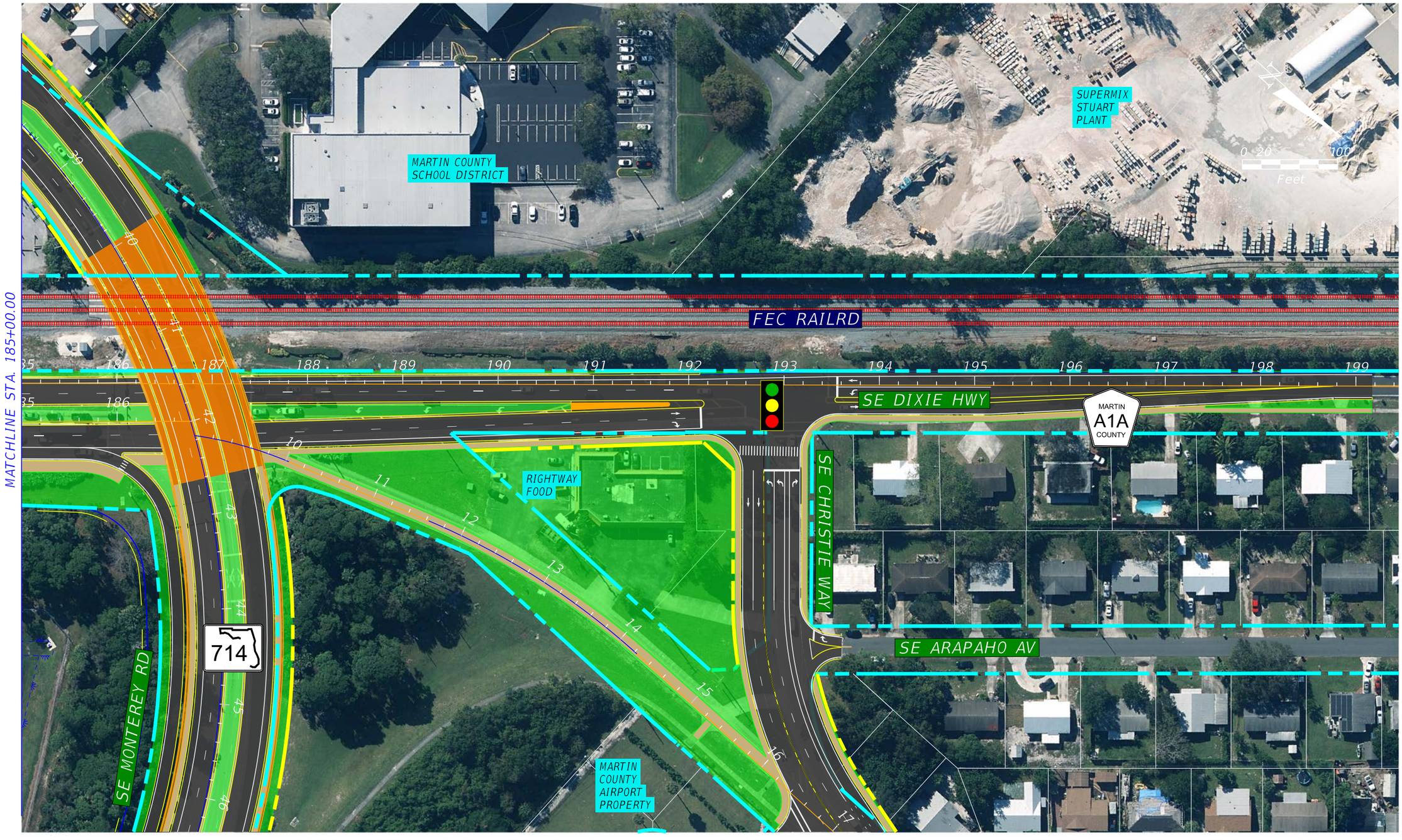

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*) CR A1A / SE DIXIE HIGHWAY

SHEET NO. 6

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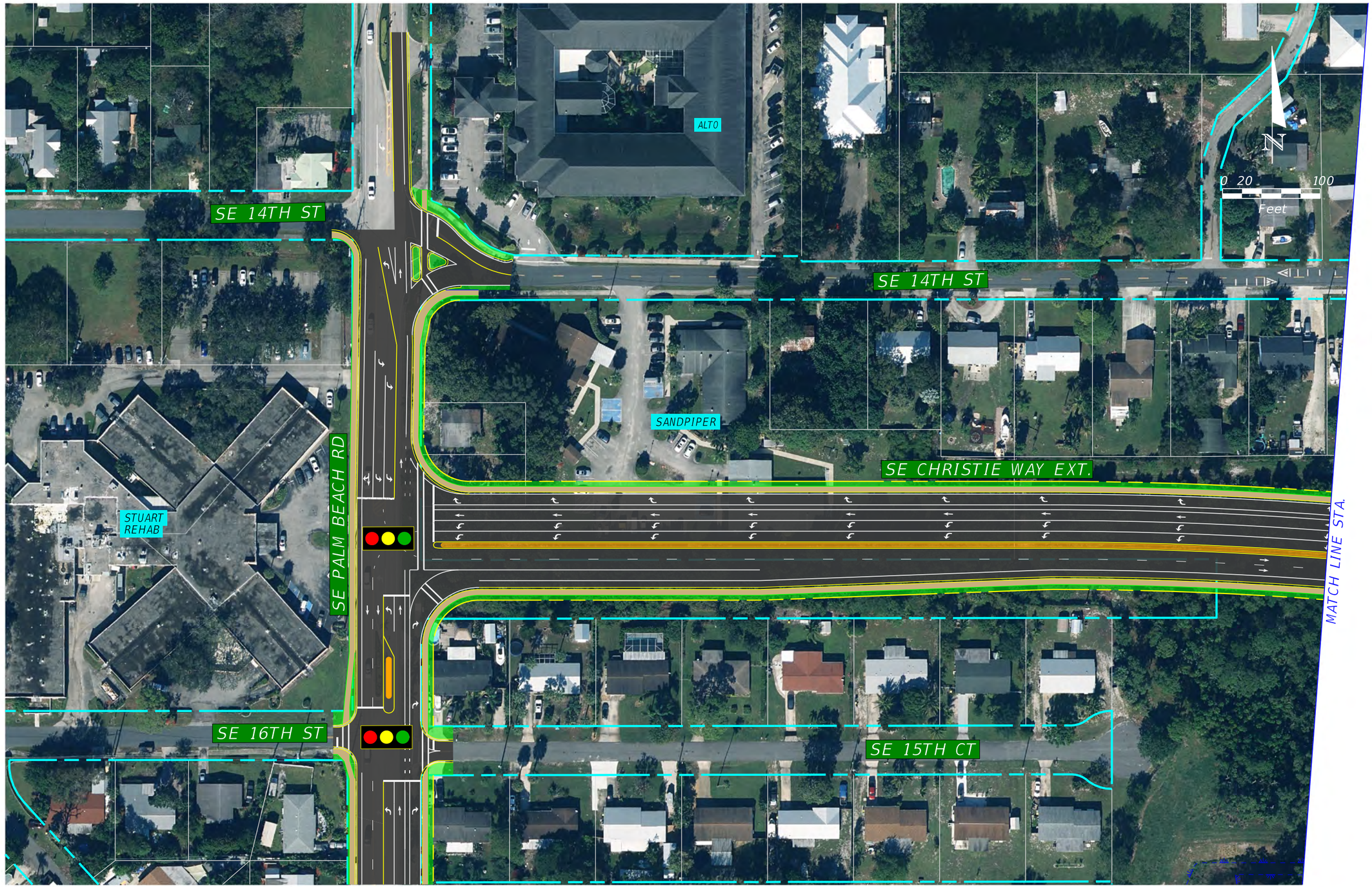

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*) SE CHRISTIE WAY EXT.

SHEET NO. 7

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

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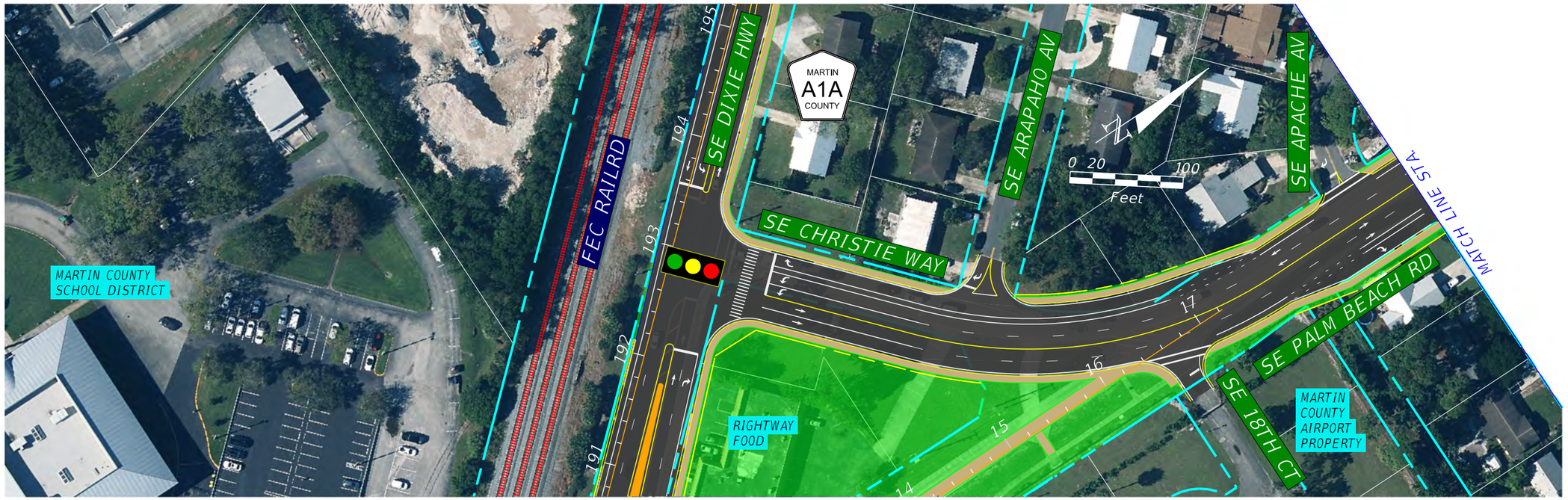
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

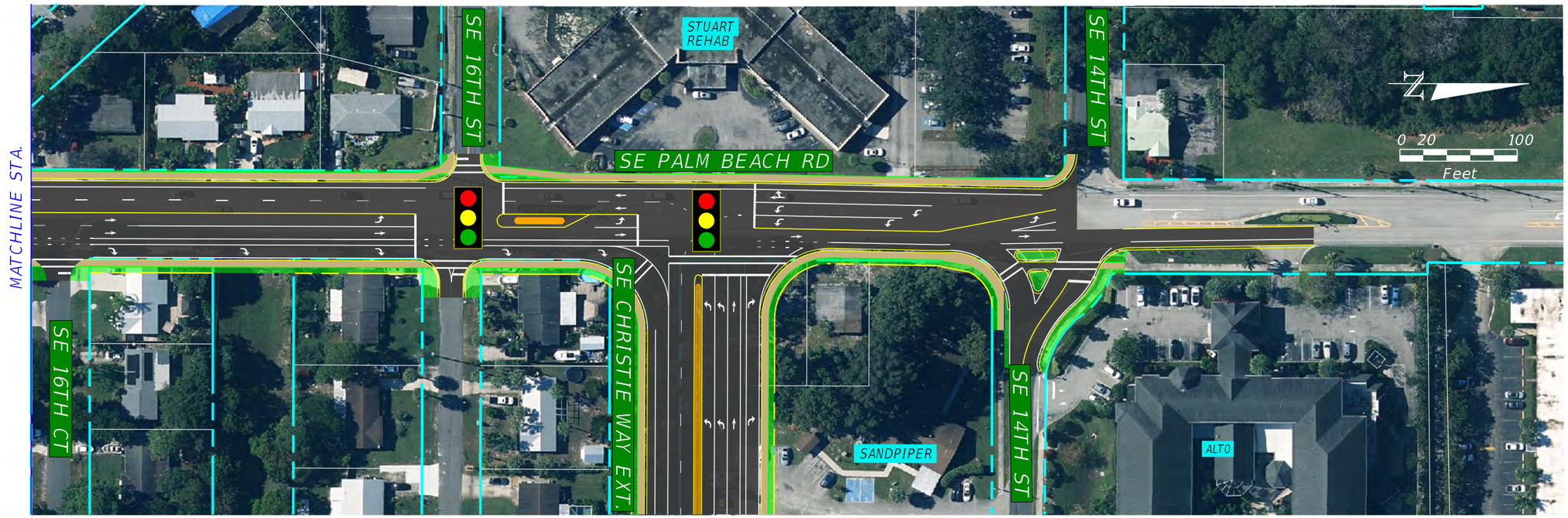
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*) SE CHRISTIE WAY EXT.

SHEET NO. 8





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

TANYA KRISTOFF, P.E.
LICENSE NUMBER: 55463
H. W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, STE 120
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 714	MARTIN	441636-2-22-01

ALTERNATIVE 2 (CONCEPT 3*)
SE CHRISITIE WAY & SE PALM BEACH ROAD

SHEET NO. 9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 441636-2-22-01

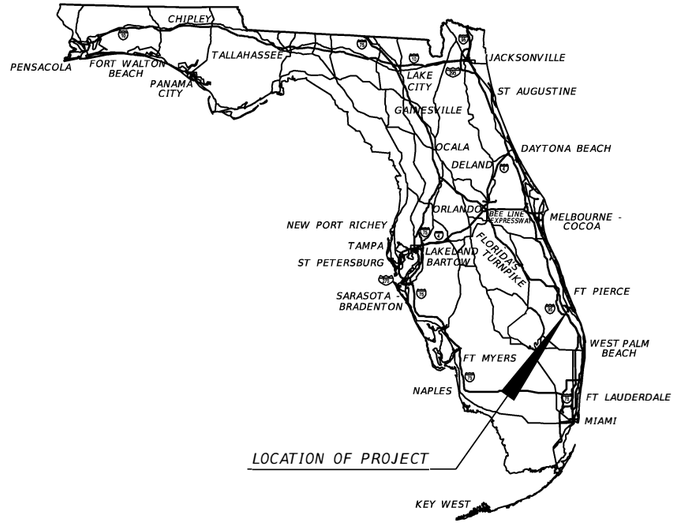
MARTIN COUNTY (890920)

STATE ROAD NO. S.R. 714

S.R. 714/Monterey Road at FEC Railroad Crossing

Alternative 1&2

PROJECT LOCATION URL:	https://tinyurl.com/bdf454wn
PROJECT LIMITS:	BEGIN MP – END MP
EXCEPTIONS:	NONE
BRIDGE LIMITS:	NONE
RAILROAD CROSSING:	FLORIDA EAST COAST (FEC) MAINLINE AND FEC SPUR (272353M, 272350S, AND 272351Y)



FDOT DISTRICT DESIGN ENGINEER	FDOT DISTRICT TRAFFIC OPERATIONS ENGINEER
CONCURRING WITH: TYPICAL SECTION ELEMENTS TARGET SPEED DESIGN & POSTED SPEEDS	CONCURRING WITH: TARGET SPEED DESIGN & POSTED SPEEDS
FDOT DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER	FDOT DISTRICT STRUCTURES DESIGN ENGINEER
CONCURRING WITH: CONTEXT CLASSIFICATION TARGET SPEED	CONCURRING WITH: TYPICAL SECTION ELEMENTS
FHWA TRANSPORTATION ENGINEER	LOCAL TRANSPORTATION ENGINEER
CONCURRING WITH: TYPICAL SECTION ELEMENTS	CONCURRING WITH: TYPICAL SECTION ELEMENTS
NOT USED	NOT USED
CONCURRING WITH:	CONCURRING WITH:

APPROVED BY:

TANYA KRISTOFF
LICENSE
No 55463
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

H.W. LOCHNER, INC.
5011 GATE PARKWAY, BLDG 100, SUITE 120
JACKSON VILLE, FL 32256
TANYA KRISTOFF, P.E. NO. 55463

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

SHEET NO	SHEET DESCRIPTION
1	TYPICAL SECTION COVER
2	TYPICAL SECTION NO. 1
3	TYPICAL SECTION NO. 2
4	TYPICAL SECTION NO. 3
5	TYPICAL SECTION NO. 4
6	TYPICAL SECTION NO. 5
7	TYPICAL SECTION NO. 6
8	TYPICAL SECTION NO. 7
9	TYPICAL SECTION NO. 8
10	TYPICAL SECTION NO. 9

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	(X)	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

- ( ) NATIONAL HIGHWAY SYSTEM
- ( ) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- ( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

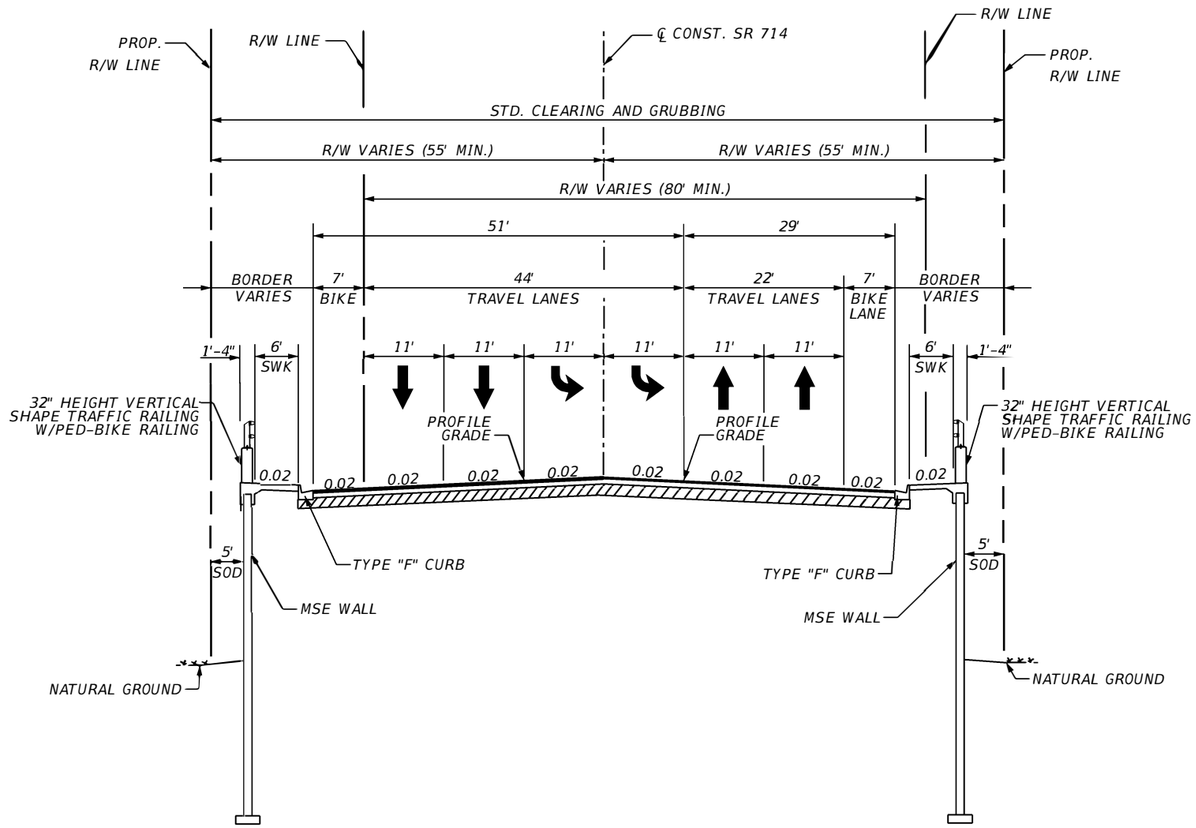
- ( ) 1 - FREEWAY
- ( ) 2 - RESTRICTIVE w/Service Roads
- ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
- ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- ( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
- (X) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- ( ) 7 - BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- ( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 1



SR 714
(EAST OF US 1)
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 27,000
ESTIMATED OPENING YEAR = 2030 AADT = 29,000
ESTIMATED DESIGN YEAR = 2050 AADT = 33,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3%
TARGET SPEED = 40 MPH
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	2

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) N/A : L.A. FACILITY
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ARTERIAL
(X) MINOR ARTERIAL
( ) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
(X) STATE HIGHWAY SYSTEM
( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

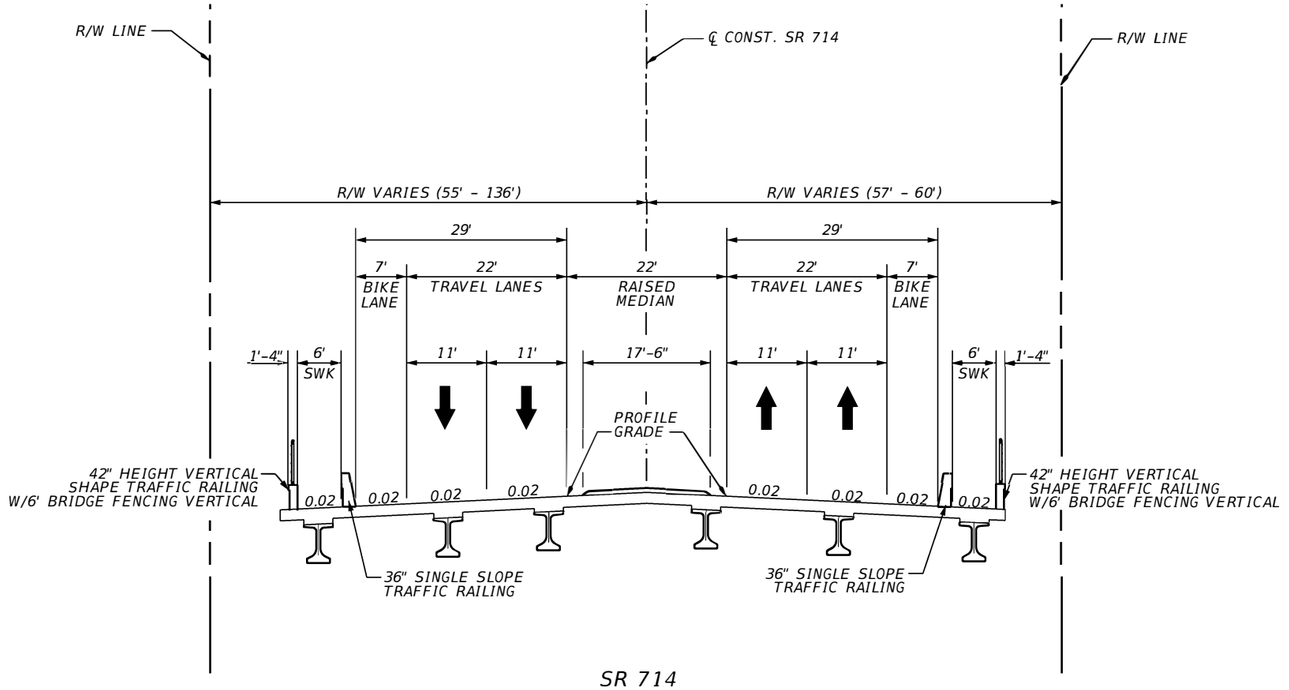
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
(X) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 2



SR 714
(OVER FEC RAILROAD & CR A1A)
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 27,000
ESTIMATED OPENING YEAR = 2030 AADT = 29,000
ESTIMATED DESIGN YEAR = 2050 AADT = 33,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3%
TARGET SPEED = 40 MPH
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	3

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) N/A : L.A. FACILITY
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ARTERIAL
(X) MINOR ARTERIAL
( ) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
(X) STATE HIGHWAY SYSTEM
( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

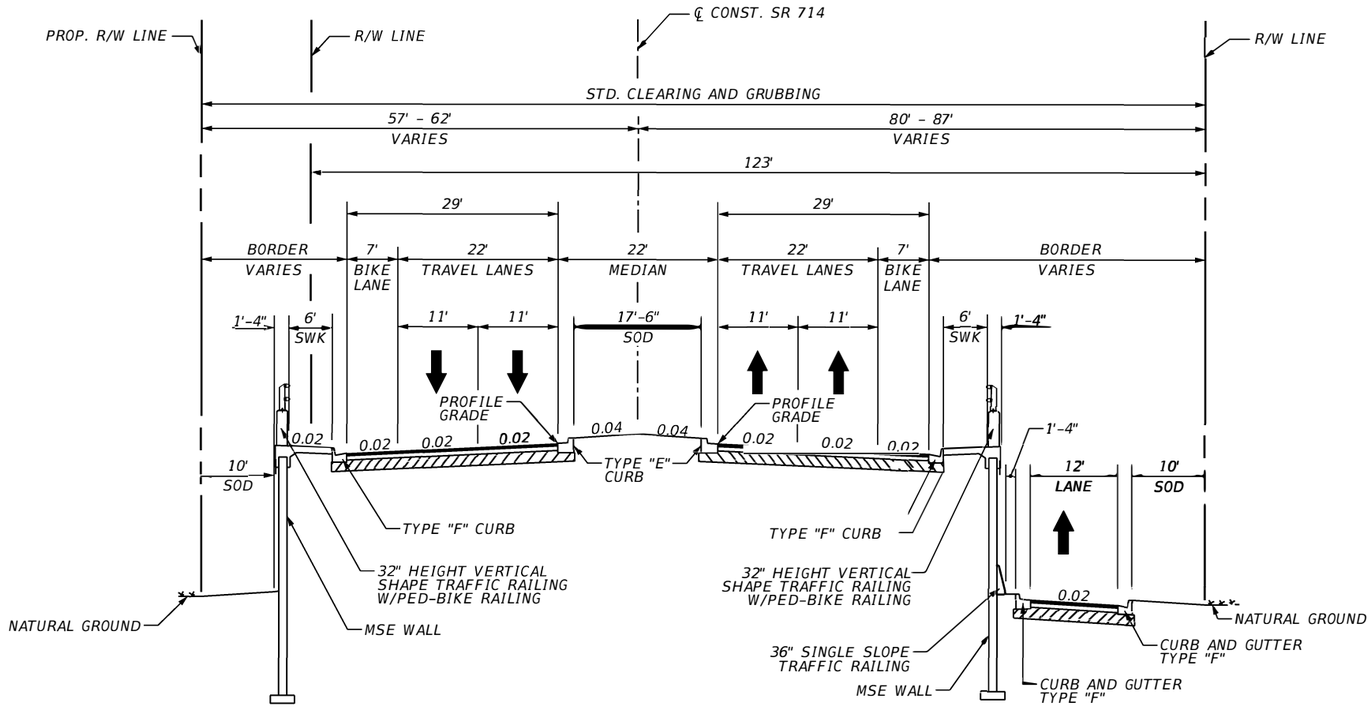
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
(X) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 3



SR 714
(EAST OF FEC RAILROAD)
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 27,000
ESTIMATED OPENING YEAR = 2030 AADT = 29,500
ESTIMATED DESIGN YEAR = 2050 AADT = 34,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3%
TARGET SPEED = 40 MPH
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	4

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	(X)	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
(X) STATE HIGHWAY SYSTEM
( ) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

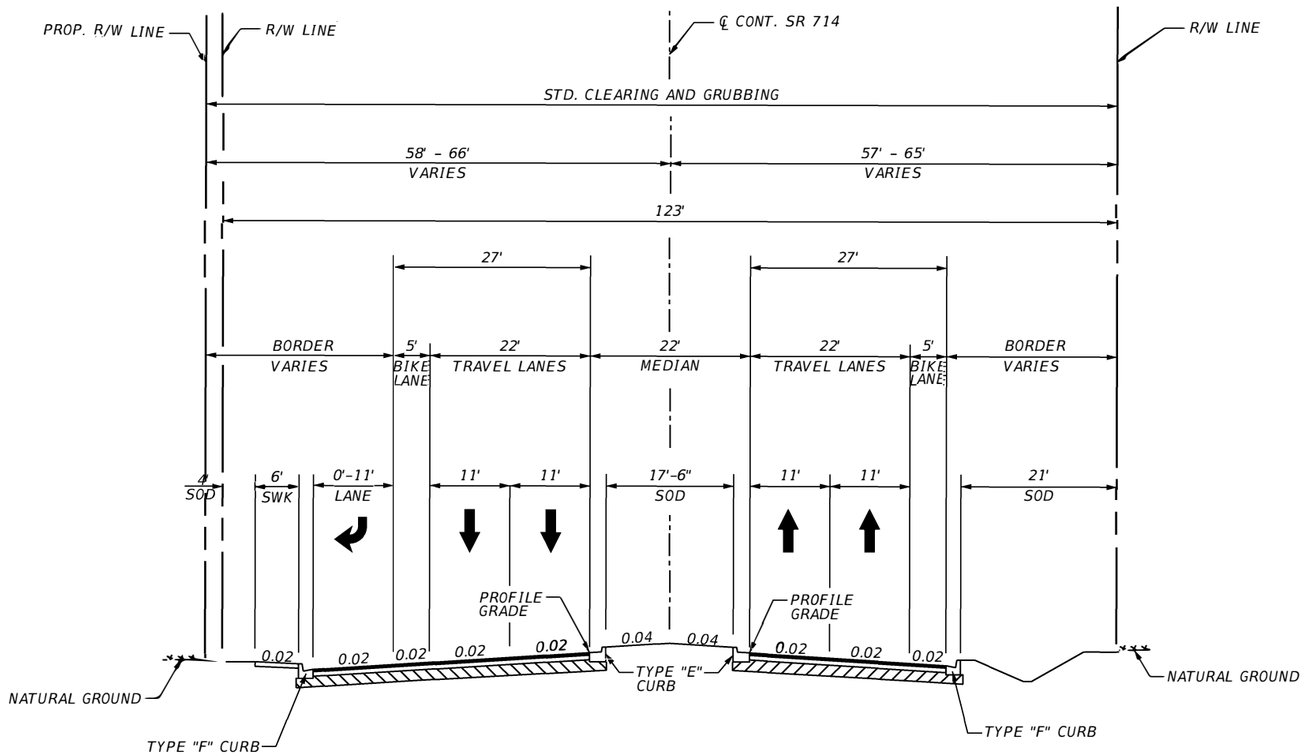
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 4



SR 714
(EAST OF CR A1A)
N.T.S

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 27,000
ESTIMATED OPENING YEAR = 2030 AADT = 29,500
ESTIMATED DESIGN YEAR = 2050 AADT = 34,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3%
TARGET SPEED = 40 MPH
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	(X)	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
(X)	MINOR ARTERIAL		

HIGHWAY SYSTEM

( )	NATIONAL HIGHWAY SYSTEM
( )	STRATEGIC INTERMODAL SYSTEM
( )	STATE HIGHWAY SYSTEM
(X)	OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

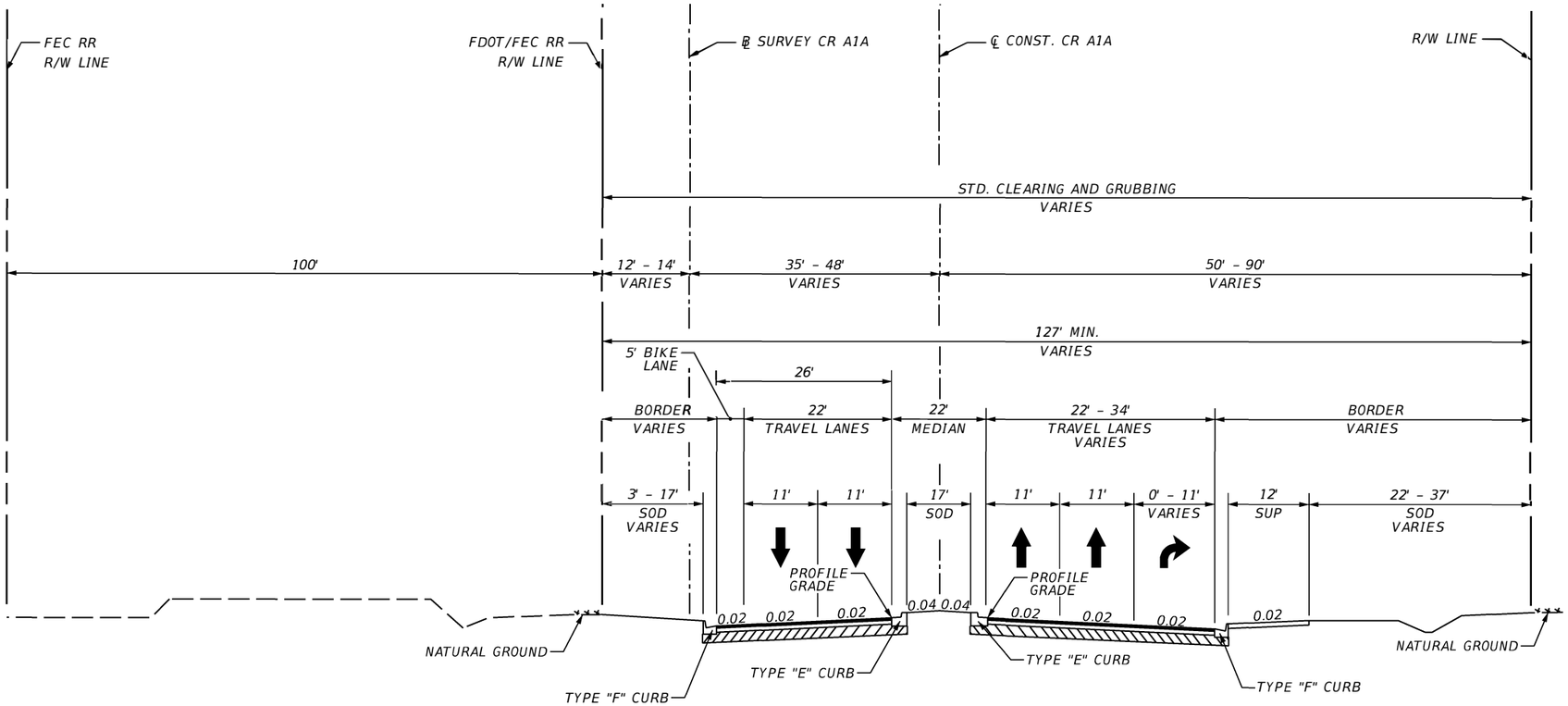
( )	1 - FREEWAY
( )	2 - RESTRICTIVE w/Service Roads
( )	3 - RESTRICTIVE w/660 ft. Connection Spacing
( )	4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( )	5 - RESTRICTIVE w/440 ft. Connection Spacing
( )	6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( )	7 - BOTH MEDIAN TYPES

CRITERIA

(X)	NEW CONSTRUCTION / RECONSTRUCTION
( )	RESURFACING (LA FACILITIES)
( )	RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 5



CR A1A
(SOUTH OF SR 714)
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 19,500
ESTIMATED OPENING YEAR = 2030 AADT = 21,000
ESTIMATED DESIGN YEAR = 2050 AADT = 24,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 40 MPH
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	6

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE
( ) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ARTERIAL
( ) MINOR ARTERIAL
(X) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

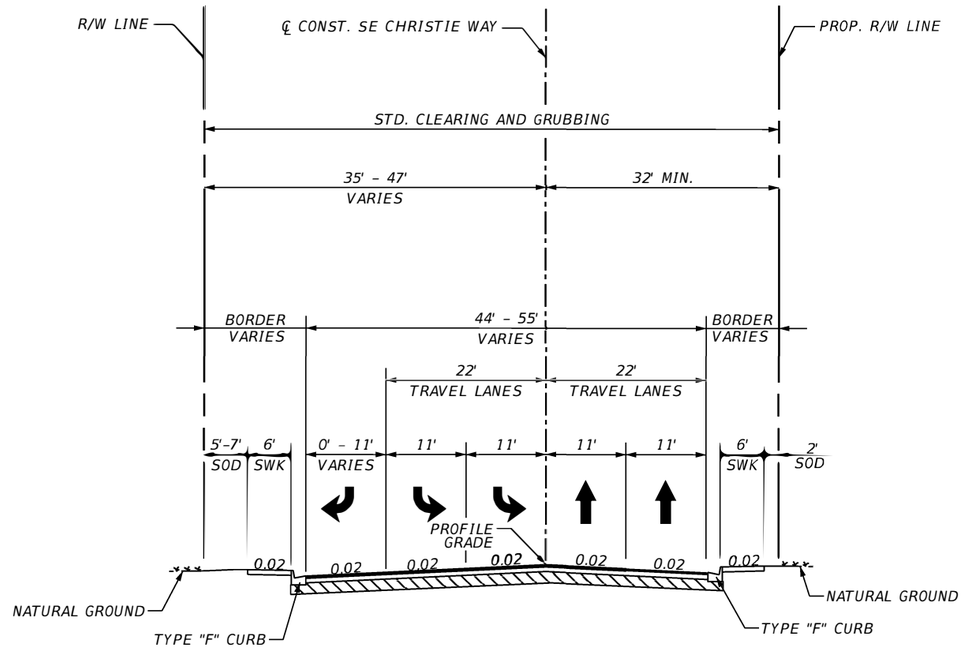
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 6



SE CHRISTIE WAY
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 7,500
ESTIMATED OPENING YEAR = 2030 AADT = 13,000
ESTIMATED DESIGN YEAR = 2050 AADT = 15,000
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 35 MPH
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	7

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( ) C1 : NATURAL
( ) C2 : RURAL
( ) C2T : RURAL TOWN
( ) C3R : SUBURBAN RES.
( ) C3C : SUBURBAN COMM.
(X) C4 : URBAN GENERAL
( ) C5 : URBAN CENTER
( ) C6 : URBAN CORE
( ) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

( ) INTERSTATE
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ARTERIAL
( ) MINOR ARTERIAL
(X) MAJOR COLLECTOR
( ) MINOR COLLECTOR
( ) LOCAL

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

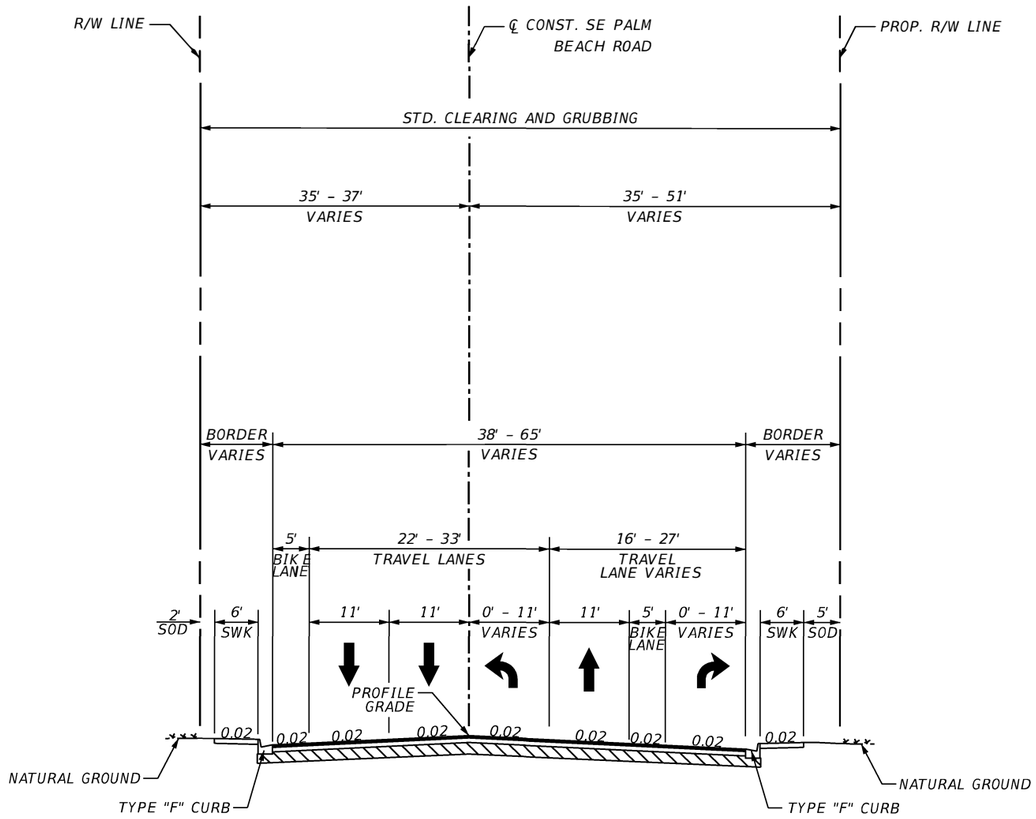
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BORDER WIDTH

TYPICAL SECTION No. 7



SE PALM BEACH ROAD
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 800
ESTIMATED OPENING YEAR = 2030 AADT = 7,500
ESTIMATED DESIGN YEAR = 2050 AADT = 8,700
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 35 MPH
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	8

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	(X)	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	(X)	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

( )	NATIONAL HIGHWAY SYSTEM
( )	STRATEGIC INTERMODAL SYSTEM
( )	STATE HIGHWAY SYSTEM
(X)	OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

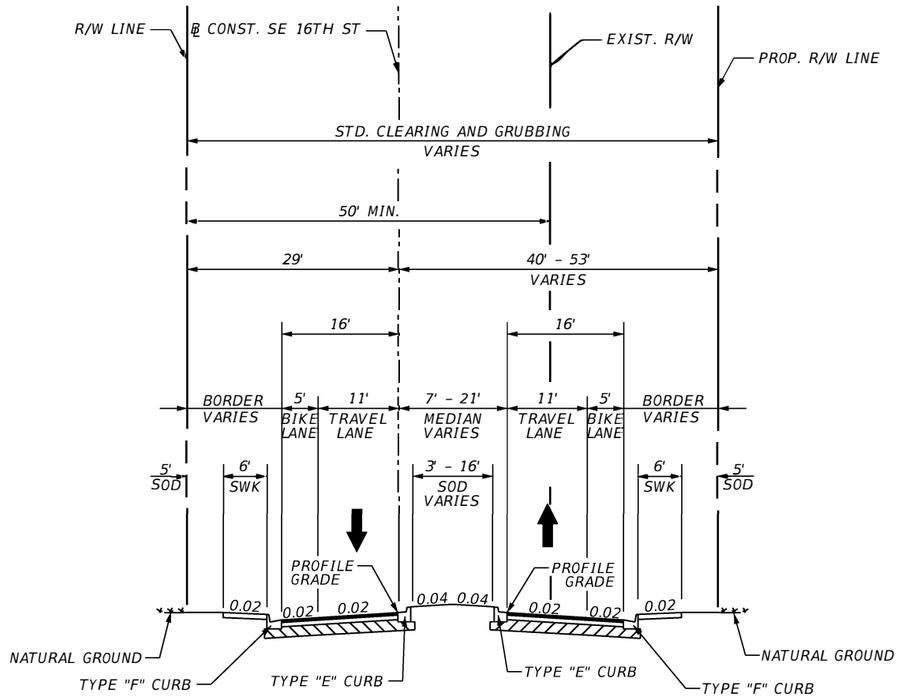
( )	1 - FREEWAY
( )	2 - RESTRICTIVE w/Service Roads
( )	3 - RESTRICTIVE w/660 ft. Connection Spacing
( )	4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( )	5 - RESTRICTIVE w/440 ft. Connection Spacing
( )	6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( )	7 - BOTH MEDIAN TYPES

CRITERIA

(X)	NEW CONSTRUCTION / RECONSTRUCTION
( )	RESURFACING (LA FACILITIES)
( )	RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 8



SE 16TH STREET
(WEST OF PALM BEACH ROAD)
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = N/A
ESTIMATED OPENING YEAR = 2030 AADT = 27,500
ESTIMATED DESIGN YEAR = 2050 AADT = 32,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 25 MPH
DESIGN SPEED = 30 MPH
POSTED SPEED = 25 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	9

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PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	(X)	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
( )	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

( )	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	(X)	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
(X) OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

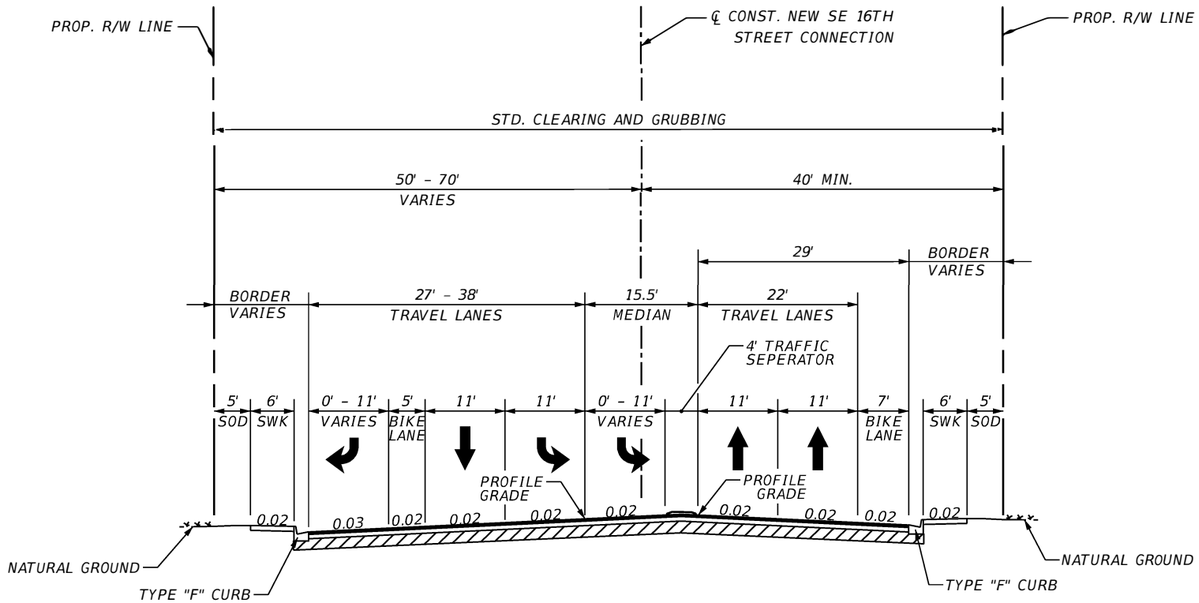
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RESURFACING (LA FACILITIES)
( ) RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 9



SE 16TH STREET EXTENSION
N.T.S.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 7,500
ESTIMATED OPENING YEAR = 2030 AADT = 27,500
ESTIMATED DESIGN YEAR = 2050 AADT = 32,500
K = 9% D = 58.6% T = 7% (24 HOUR)
DESIGN HOUR T = 3.5%
TARGET SPEED = 30 MPH
DESIGN SPEED = 30 MPH
POSTED SPEED = 30 MPH

FINANCIAL PROJECT ID	SHEET NO.
441636-2-22-01	10

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APPENDIX E

Project Costs Estimate

Date: 9/10/2026 7:42:06 PM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 441636-3-52-01 **Letting Date:** 03/2030

Description: SR-714/MONTEREY ROAD @ FEC RAILROAD CROSSING

District: 04 **County:** 89 MARTIN **Market Area:** 11 **Units:** English
Contract Class: 9 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 0.035 MI

Project Manager: LOPES

Version 14 Project Grand Total **$60,456,583.93**
Description: 9/8/26 Copy of V13 for update to edit Drainage and Design of Monterey Road Extension.

Sequence: 1 NDU - New Construction, Divided, Urban **Net Length:** 0.156 MI 823 LF

Description: Dixie Hwy (CR A1A) from Monterey Rd to Sequence 2.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	53.00 / 83.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.156
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.57	AC	$45,000.00	$115,650.00
120-6	EMBANKMENT	21,191.15	CY	$15.00	$317,867.25
	Earthwork Component Total				$433,517.25

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	22.00 / 44.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	6,980.33	SY	$8.50	$59,332.80
285-709	OPTIONAL BASE,BASE GROUP 09	6,036.45	SY	$32.00	$193,166.40

334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	498.01	TN	$155.00	$77,191.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	498.01	TN	$175.00	$87,151.75

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	9,620.00	SY	$25.00	$240,500.00

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	105.00	EA	$5.00	$525.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.25	GM	$1,600.00	$2,000.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.25	GM	$750.00	$937.50

Roadway Component Total $660,805.01

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.25 / 19.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	8.00 / 12.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	823.15	LF	$52.00	$42,803.80
520-1-10	CONCRETE CURB & GUTTER, TYPE F	823.15	LF	$52.00	$42,803.80
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,829.23	SY	$65.00	$118,899.95
570-1-1	PERFORMANCE TURF	914.61	SY	$6.00	$5,487.66

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,646.30	LF	$2.50	$4,115.75
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	38.98	LF	$15.00	$584.70
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	8.00	EA	$170.00	$1,360.00
107-1	LITTER REMOVAL	3.97	AC	$75.00	$297.75
107-2	MOWING	3.97	AC	$100.00	$397.00

	Shoulder Component Total	$220,550.41

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	23.50
Performance Turf Width	13.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	1,646.30	LF	$35.00	$57,620.50
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	360.00	LF	$91.00	$32,760.00
570-1-1	PERFORMANCE TURF	1,189.00	SY	$6.00	$7,134.00
	Median Component Total				$97,514.50

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	6.00	EA	$7,100.00	$42,600.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00	EA	$14,500.00	$29,000.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00	EA	$7,000.00	$7,000.00
425-2-41	MANHOLES, P-7, <10'	1.00	EA	$7,000.00	$7,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	416.00	LF	$160.00	$66,560.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00	LF	$263.00	$10,520.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	784.00	LF	$350.00	$274,400.00
570-1-1	PERFORMANCE TURF	47.39	SY	$6.00	$284.34
	Drainage Component Total				$437,364.34

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	4.00	EA	$575.00	$2,300.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	1.00	EA	$12,500.00	$12,500.00
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00	EA	$17,500.00	$17,500.00
	Signing Component Total				$33,900.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value

Spacing MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	823.15	LF	$14.00	$11,524.10
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	163.38	LF	$43.00	$7,025.34
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00	EA	$1,550.00	$9,300.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,006.38	LF	$4.50	$13,528.71
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	6.00	EA	$10,500.00	$63,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	6.00	EA	$975.00	$5,850.00
	Subcomponent Total				$110,228.15

Lighting Component Total $110,228.15

Sequence 1 Total $1,993,879.66

Sequence: 2 NDU - New Construction, Divided, Urban **Net Length:** 0.177 MI 933 LF

Description: Dixie Hwy (CR A1A) on MSE Walls North of Bridge over Spur RR.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	53.08 / 60.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.177
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	135.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.43	AC	$45,000.00	$109,350.00
120-6	EMBANKMENT	74,312.40	CY	$15.00	$1,114,686.00
	Earthwork Component Total				$1,224,036.00

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	22.00 / 22.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	5,631.03	SY	$8.50	$47,863.76
285-709	OPTIONAL BASE,BASE GROUP 09	4,561.22	SY	$32.00	$145,959.04
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	376.30	TN	$155.00	$58,326.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	376.30	TN	$175.00	$65,852.50

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
515-4-1	BULLET RAIL, SINGLE RAIL	1,860.00	LF	$55.00	$102,300.00
521-8-3	CONC TRAF RAIL BAR,JCT SLAB,32"V SHP	1,860.00	LF	$575.00	$1,069,500.00

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	0.00
Stabilization Code	N
Base Code	N

Friction Course Code	N

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	72.00	EA	$5.00	$360.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.41	GM	$1,600.00	$2,256.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.71	GM	$750.00	$532.50
	Roadway Component Total				$1,492,950.30

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	20.25 / 24.25
Total Outside Shoulder Perf. Turf Width L/R	10.00 / 10.00
Sidewalk Width L/R	8.00 / 12.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	932.98	LF	$52.00	$48,514.96
520-1-10	CONCRETE CURB & GUTTER, TYPE F	932.98	LF	$52.00	$48,514.96
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	2,073.28	SY	$65.00	$134,763.20
570-1-1	PERFORMANCE TURF	2,073.28	SY	$6.00	$12,439.68

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,836.38	LF	$2.50	$4,590.95
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	43.48	LF	$15.00	$652.20
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	9.00	EA	$170.00	$1,530.00
107-1	LITTER REMOVAL	4.43	AC	$75.00	$332.25
107-2	MOWING	4.43	AC	$100.00	$443.00
	Shoulder Component Total				$255,581.20

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	20.75
Performance Turf Width	16.67

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	1,865.95	LF	$35.00	$65,308.25
570-1-1	PERFORMANCE TURF	1,728.08	SY	$6.00	$10,368.48
	Median Component Total				$75,676.73

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	7.00	EA	$7,100.00	$49,700.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00	EA	$14,500.00	$29,000.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00	EA	$7,000.00	$7,000.00
425-2-41	MANHOLES, P-7, <10'	1.00	EA	$7,000.00	$7,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	464.00	LF	$160.00	$74,240.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00	LF	$263.00	$12,624.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	872.00	LF	$350.00	$305,200.00
570-1-1	PERFORMANCE TURF	52.87	SY	$6.00	$317.22
	Drainage Component Total				$485,081.22

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	5.00	EA	$575.00	$2,875.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	1.00	EA	$12,500.00	$12,500.00
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00	EA	$17,500.00	$17,500.00
	Signing Component Total				$34,475.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	918.19	LF	$14.00	$12,854.66
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	182.25	LF	$43.00	$7,836.75
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00	EA	$1,550.00	$10,850.00

715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,353.49	LF	$4.50	$15,090.70
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	7.00	EA	$10,500.00	$73,500.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	7.00	EA	$975.00	$6,825.00
	Subcomponent Total				$126,957.12
	Lighting Component Total				$126,957.12

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	1,020.00
Begin height	30.00
End Height	2.00
Multiplier	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	32,640.00	SF	$53.00	$1,729,920.00
	Retaining Walls Component Total				$1,729,920.00

Sequence 2 Total $5,424,677.57

Sequence: 3 MIS - Miscellaneous Construction **Net Length:** 0.042 MI 222 LF

Description: Bridge over FEC ML & FEC Spur

BRIDGES COMPONENT

Bridge FEC

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	135.00
Width (LF)	99.53
Type	Overpass Bridge
Cost Factor	2.85
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	$75.00
Factored Cost per SF	$213.75
Final Cost per SF	**$227.66**
Basic Bridge Cost	**$2,872,062.56**
Description	MONTEREY EXT. OVER FEC ML

Bridge Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II, APPROACH SLABS	221.18 CY	$600.00	$132,708.00
415-1-9	REINF STEEL- APPROACH SLABS	38,706.50 LB	$1.40	$54,189.10
	Bridge FEC Total			$3,058,959.66

Bridge FEC 2

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	147.00
Width (LF)	90.17
Type	Overpass Bridge
Cost Factor	2.85
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	$75.00
Factored Cost per SF	$213.75
Final Cost per SF	**$226.52**
Basic Bridge Cost	**$2,833,254.11**
Description	DIXIE HWY (CR A1A) OVER FEC SPUR

Bridge Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II, APPROACH SLABS	200.38 CY	$600.00	$120,228.00
415-1-9	REINF STEEL- APPROACH SLABS	35,066.50 LB	$1.40	$49,093.10
	Bridge FEC 2 Total			$3,002,575.21
	Bridges Component Total			$6,061,534.87

Sequence 3 Total	$6,061,534.87

Sequence: 4 NDU - New Construction, Divided, Urban **Net Length:** 0.137 MI 724 LF

Description: Dixie Hwy (CR A1A) on MSE Walls from Bridge over Spur RR to Airport Rd Intersection.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	53.00 / 67.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.137
Top of Structural Course For Begin Section	135.00
Top of Structural Course For End Section	133.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.99	AC	$45,000.00	$89,550.00
120-6	EMBANKMENT	105,835.87	CY	$15.00	$1,587,538.05
	Earthwork Component Total				$1,677,088.05

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	27.00 / 22.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	4,771.23	SY	$8.50	$40,555.46
285-709	OPTIONAL BASE,BASE GROUP 09	3,941.17	SY	$32.00	$126,117.44
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	325.15	TN	$155.00	$50,398.25
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	325.15	TN	$175.00	$56,901.25

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
515-4-1	BULLET RAIL, SINGLE RAIL	1,317.00	LF	$55.00	$72,435.00
521-8-3	CONC TRAF RAIL BAR,JCT SLAB,32"V SHP	1,646.00	LF	$575.00	$946,450.00

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	13.00
Stabilization Code	Y
Base Code	Y

Friction Course Code	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	620.26	SY	$8.50	$5,272.21
285-709	OPTIONAL BASE,BASE GROUP 09	512.35	SY	$32.00	$16,395.20
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	42.27	TN	$155.00	$6,551.85
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	42.27	TN	$175.00	$7,397.25

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	56.00	EA	$5.00	$280.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.10	GM	$1,600.00	$1,760.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.55	GM	$750.00	$412.50
	Roadway Component Total				$1,330,926.41

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	20.25 / 24.25
Total Outside Shoulder Perf. Turf Width L/R	10.00 / 10.00
Sidewalk Width L/R	8.00 / 12.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	723.89	LF	$52.00	$37,642.28
520-1-10	CONCRETE CURB & GUTTER, TYPE F	723.89	LF	$52.00	$37,642.28
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,608.64	SY	$65.00	$104,561.60
570-1-1	PERFORMANCE TURF	1,608.64	SY	$6.00	$9,651.84

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,469.95	LF	$2.50	$3,674.88
104-11	FLOATING TURBIDITY BARRIER	34.80	LF	$15.00	$522.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	34.80	LF	$15.00	$522.00
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00

104-18	INLET PROTECTION SYSTEM	8.00	EA	$170.00	$1,360.00
107-1	LITTER REMOVAL	3.54	AC	$75.00	$265.50
107-2	MOWING	3.54	AC	$100.00	$354.00
	Shoulder Component Total				$199,996.38

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	24.00
Performance Turf Width	11.19

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	1,447.78	LF	$35.00	$50,672.30
570-1-1	PERFORMANCE TURF	900.03	SY	$6.00	$5,400.18
	Median Component Total				$56,072.48

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	6.00	EA	$7,100.00	$42,600.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00	EA	$14,500.00	$29,000.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00	EA	$7,000.00	$7,000.00
425-2-41	MANHOLES, P-7, <10'	1.00	EA	$7,000.00	$7,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	376.00	LF	$160.00	$60,160.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	32.00	LF	$263.00	$8,416.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	696.00	LF	$350.00	$243,600.00
570-1-1	PERFORMANCE TURF	42.32	SY	$6.00	$253.92
	Drainage Component Total				$398,029.92

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	4.00	EA	$575.00	$2,300.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	1.00	EA	$12,500.00	$12,500.00
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00	EA	$17,500.00	$17,500.00
	Signing Component Total				$33,900.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	734.98	LF	$14.00	$10,289.72
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	145.88	LF	$43.00	$6,272.84
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00	EA	$1,550.00	$7,750.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,684.33	LF	$4.50	$12,079.48
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	5.00	EA	$10,500.00	$52,500.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00	EA	$975.00	$4,875.00
	Subcomponent Total				$93,767.04
	Lighting Component Total				$93,767.05

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	804.50
Begin height	30.00
End Height	30.00
Multiplier	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	48,270.00	SF	$53.00	$2,558,310.00
	Retaining Walls Component Total				$2,558,310.00

Sequence 4 Total $6,348,090.29

Sequence: 5 NDU - New Construction, Divided, Urban **Net Length:** 0.201 MI 1,060 LF

Description: Dixie Hwy (CR A1A) on MSE Walls from South of Airport Rd Intersection.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	53.00 / 68.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.201
Top of Structural Course For Begin Section	133.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.95	AC	$45,000.00	$132,750.00
120-6	EMBANKMENT	86,765.93	CY	$15.00	$1,301,488.95
	Earthwork Component Total				$1,434,238.95

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	22.00 / 27.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	6,988.05	SY	$8.50	$59,398.42
285-709	OPTIONAL BASE,BASE GROUP 09	5,772.33	SY	$32.00	$184,714.56
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	476.22	TN	$155.00	$73,814.10
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	476.22	TN	$175.00	$83,338.50

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
515-4-1	BULLET RAIL, SINGLE RAIL	2,060.00	LF	$55.00	$113,300.00
521-8-3	CONC TRAF RAIL BAR,JCT SLAB,32"V SHP	2,575.00	LF	$575.00	$1,480,625.00

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	13.00
Stabilization Code	Y
Base Code	Y

Friction Course Code	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	908.45	SY	$8.50	$7,721.83
285-709	OPTIONAL BASE,BASE GROUP 09	750.40	SY	$32.00	$24,012.80
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	61.91	TN	$155.00	$9,596.05
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	61.91	TN	$175.00	$10,834.25

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	81.00	EA	$5.00	$405.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.61	GM	$1,600.00	$2,576.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.80	GM	$750.00	$600.00

Roadway Component Total $2,050,936.52

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	20.25 / 24.25
Total Outside Shoulder Perf. Turf Width L/R	10.00 / 10.00
Sidewalk Width L/R	8.00 / 12.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	2,356.05	SY	$6.00	$14,136.30

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,255.62	LF	$2.50	$5,639.05
104-11	FLOATING TURBIDITY BARRIER	53.40	LF	$15.00	$801.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	53.40	LF	$15.00	$801.00
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	11.00	EA	$170.00	$1,870.00
107-1	LITTER REMOVAL	5.44	AC	$75.00	$408.00
107-2	MOWING	5.44	AC	$100.00	$544.00

Shoulder Component Total $27,999.35

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	25.00
Performance Turf Width	12.25

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	2,120.45	LF	$35.00	$74,215.75
570-1-1	PERFORMANCE TURF	1,443.08	SY	$6.00	$8,658.48
	Median Component Total				$82,874.23

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	8.00	EA	$7,100.00	$56,800.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	3.00	EA	$14,500.00	$43,500.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	2.00	EA	$7,000.00	$14,000.00
425-2-41	MANHOLES, P-7, <10'	2.00	EA	$7,000.00	$14,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	568.00	LF	$160.00	$90,880.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	56.00	LF	$263.00	$14,728.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	1,072.00	LF	$350.00	$375,200.00
570-1-1	PERFORMANCE TURF	64.93	SY	$6.00	$389.58
	Drainage Component Total				$609,497.58

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	6.00	EA	$575.00	$3,450.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	1.00	EA	$12,500.00	$12,500.00
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00	EA	$17,500.00	$17,500.00
	Signing Component Total				$35,050.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

630-2-11	CONDUIT, F& I, OPEN TRENCH	1,127.81 LF	$14.00	$15,789.34
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	223.85 LF	$43.00	$9,625.55
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	$1,550.00	$12,400.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,119.06 LF	$4.50	$18,535.77
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	8.00 EA	$10,500.00	$84,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	$975.00	$7,800.00
	Subcomponent Total			$148,150.66
	Lighting Component Total			$148,150.66

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	1,057.00
Begin height	30.00
End Height	2.00
Multiplier	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	33,824.00	SF	$53.00	$1,792,672.00
	Retaining Walls Component Total				$1,792,672.00

Sequence 5 Total $6,181,419.29

Sequence: 6 RSD - Resurfacing, Divided **Net Length:** 0.077 MI 405 LF

Description: Dixie Hwy Resurface Existing 4L w/left turn

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	28.00 / 22.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	2,249.87	SY	$4.50	$10,124.42
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	185.61	TN	$155.00	$28,769.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	185.61	TN	$175.00	$32,481.75

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	31.00	EA	$5.00	$155.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.61	GM	$1,600.00	$976.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.31	GM	$750.00	$232.50
	Roadway Component Total				$72,739.22

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 24.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 5.00
Paved Outside Shoulder Width L/R	7.00 / 7.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	629.96 SY	$4.50	$2,834.82
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	51.97 TN	$155.00	$8,055.35
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	51.97 TN	$175.00	$9,094.75
570-1-1	PERFORMANCE TURF	224.99 SY	$6.00	$1,349.94

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	589.00	SY	$65.00	$38,285.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	600.00	LF	$2.50	$1,500.00
107-1	LITTER REMOVAL	0.56	AC	$75.00	$42.00
107-2	MOWING	0.56	AC	$100.00	$56.00
	Shoulder Component Total				$61,217.86

Sequence 6 Total $133,957.08

Sequence: 7 WDU - Widen/Resurface, Divided, Urban **Net Length:** 0.318 MI 1,680 LF

Description: Monterey Ext. - West of US-1 widen to 4-lanes and resurfacing. Add 10 ft concrete SUP each side.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.318
Top of Structural Course For Begin Section	101.50
Top of Structural Course For End Section	101.50
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	0.00 % / 0.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	4 to 1 / 4 to 1
Median Shoulder Cross Slope L/R	0.00 % / 0.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.54	AC	$45,000.00	$69,300.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	1,335.77	CY	$15.00	$20,036.55
	Earthwork Component Total				$89,336.55

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	12.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	6.00 / 6.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	165
Widened Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,203.38	SY	$8.50	$27,228.73
285-709	OPTIONAL BASE,BASE GROUP 09	2,363.34	SY	$32.00	$75,626.88
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	6,720.38	SY	$4.50	$30,241.71
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	554.43	TN	$155.00	$85,936.65
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	184.81	TN	$155.00	$28,645.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	554.43	TN	$175.00	$97,025.25

337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	184.81	TN	$175.00	$32,341.75

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	5.00
Milling Code	Y
Stabilization Code	Y
Base Code	Y
Friction Course Code	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	160.17	SY	$8.50	$1,361.45
285-709	OPTIONAL BASE,BASE GROUP 09	118.17	SY	$32.00	$3,781.44
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	336.02	SY	$4.50	$1,512.09
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	27.72	TN	$155.00	$4,296.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	27.72	TN	$175.00	$4,851.00

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	172.00	EA	$5.00	$860.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.55	GM	$1,600.00	$4,080.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.91	GM	$750.00	$1,432.50

Roadway Component Total $399,221.60

SHOULDER COMPONENT

User Input Data

Description	Value
Existing Total Outside Shoulder Width L/R	10.00 / 10.00
New Total Outside Shoulder Width L/R	14.25 / 14.25
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Sidewalk Width L/R	10.00 / 10.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,680.10	LF	$52.00	$87,365.20
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,680.10	LF	$52.00	$87,365.20

522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	3,733.55	SY	$65.00	$242,680.75
570-1-1	PERFORMANCE TURF	746.71	SY	$6.00	$4,480.26

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,360.19	LF	$2.50	$8,400.48
104-11	FLOATING TURBIDITY BARRIER	31.82	LF	$15.00	$477.30
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	31.82	LF	$15.00	$477.30
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	15.00	EA	$170.00	$2,550.00
107-1	LITTER REMOVAL	2.77	AC	$75.00	$207.75
107-2	MOWING	2.77	AC	$100.00	$277.00
	Shoulder Component Total				$438,081.24

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	4.12
Performance Turf Width	4.12

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	1,115.00	LF	$91.00	$101,465.00
570-1-1	PERFORMANCE TURF	769.11	SY	$6.00	$4,614.66

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	560.00	LF	$35.00	$19,600.00
	Median Component Total				$125,679.66

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	16.00	EA	$7,100.00	$113,600.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	680.00	LF	$160.00	$108,800.00
570-1-2	PERFORMANCE TURF, SOD	96.73	SY	$3.88	$375.31

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-361	INLETS, CURB, TYPE P-6, <10'	8.00	EA	$11,809.35	$94,474.80
425-2-72	MANHOLES, J-7, >10'	13.00	EA	$16,500.00	$214,500.00
443-70-6	FRENCH DRAIN, 36"	1,650.00	LF	$551.56	$910,074.00
	Comment: For Basin 3				
	Drainage Component Total				$1,441,824.11

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	8.00	EA	$575.00	$4,600.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00	EA	$450.00	$450.00
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	8.00	EA	$55.00	$440.00
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00	EA	$7,300.00	$7,300.00
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00	EA	$1,200.00	$1,200.00
	Signing Component Total				$15,590.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,680.10	LF	$14.00	$23,521.40
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	333.47	LF	$43.00	$14,339.21
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00	EA	$1,550.00	$18,600.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,136.17	LF	$4.50	$27,612.76
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	12.00	EA	$10,500.00	$126,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	12.00	EA	$975.00	$11,700.00
	Subcomponent Total				$221,773.38
	Lighting Component Total				$221,773.38

Sequence 7 Total $2,731,506.54

Sequence: 8 RSD - Resurfacing, Divided **Net Length:** 0.077 MI 405 LF

Description: US 1 Resurface Existing 6L & Turn Lanes

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	50.00 / 50.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH	4,499.73	SY	$5.75	$25,873.45
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	371.23	TN	$155.00	$57,540.65
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	371.23	TN	$175.00	$64,965.25

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	52.00	EA	$5.00	$260.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.61	GM	$1,600.00	$976.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.61	GM	$750.00	$457.50
	Roadway Component Total				$150,072.85

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	5.00 / 5.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	449.97 SY	$5.00	$2,249.85
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	37.12 TN	$155.00	$5,753.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	18.00 TN	$175.00	$3,150.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	6.34	LF	$15.00	$95.10
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	6.34	LF	$15.00	$95.10
107-1	LITTER REMOVAL	0.46	AC	$75.00	$34.50
107-2	MOWING	0.46	AC	$100.00	$46.00
	Shoulder Component Total				$11,424.15

Sequence 8 Total $161,497.00

Sequence: 9 NDU - New Construction, Divided, Urban **Net Length:** 0.179 MI 947 LF

Description: Grumman Ext. from US-1 to FEC - 4 lane divided on MSE walls to bridge.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	55.00 / 47.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.179
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	135.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	0.00 % / 0.00 %
Outside Shoulder Cross Slope L/R	0.00 % / 0.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.21	AC	$45,000.00	$99,450.00
120-6	EMBANKMENT	85,991.22	CY	$15.00	$1,289,868.30
	Earthwork Component Total				$1,389,318.30

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	8,664.02	SY	$8.50	$73,644.17
285-709	OPTIONAL BASE,BASE GROUP 09	7,577.86	SY	$32.00	$242,491.52
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	625.17	TN	$155.00	$96,901.35
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	625.17	TN	$175.00	$109,404.75

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
515-4-1	BULLET RAIL, SINGLE RAIL	1,648.00	LF	$55.00	$90,640.00
521-8-3	CONC TRAF RAIL BAR,JCT SLAB,32"V SHP	1,648.00	LF	$575.00	$947,600.00

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2

Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	97.00	EA	$5.00	$485.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.44	GM	$1,600.00	$2,304.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.08	GM	$750.00	$810.00
	Roadway Component Total				$1,564,280.79

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	18.25 / 18.25
Total Outside Shoulder Perf. Turf Width L/R	10.00 / 10.00
Sidewalk Width L/R	6.00 / 6.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	2,104.96	SY	$6.00	$12,629.76

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,000.06	LF	$2.50	$5,000.15
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	47.35	LF	$15.00	$710.25
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	10.00	EA	$170.00	$1,700.00
107-1	LITTER REMOVAL	4.82	AC	$75.00	$361.50
107-2	MOWING	4.82	AC	$100.00	$482.00
	Shoulder Component Total				$24,683.66

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	19.50
Performance Turf Width	2.50

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	1,894.46	LF	$35.00	$66,306.10
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	696.00	LF	$91.00	$63,336.00
570-1-1	PERFORMANCE TURF	263.12	SY	$6.00	$1,578.72
	Median Component Total				$131,220.82

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	7.00	EA	$7,100.00	$49,700.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00	EA	$14,500.00	$29,000.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00	EA	$7,000.00	$7,000.00
425-2-41	MANHOLES, P-7, <10'	1.00	EA	$7,000.00	$7,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	504.00	LF	$160.00	$80,640.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00	LF	$263.00	$12,624.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	952.00	LF	$350.00	$333,200.00
570-1-1	PERFORMANCE TURF	57.58	SY	$6.00	$345.48
	Drainage Component Total				$519,509.48

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	5.00	EA	$575.00	$2,875.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	1.00	EA	$12,500.00	$12,500.00
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00	EA	$17,500.00	$17,500.00
	Signing Component Total				$34,475.00

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	6 Lane Mast Arm
Multiplier	1
Description	Monterey at US-1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00	LF	$14.00	$9,800.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00	LF	$43.00	$12,900.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	$11,500.00	$11,500.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00	EA	$1,550.00	$34,100.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00	AS	$6,200.00	$6,200.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00	LF	$12.00	$720.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00	EA	$2,500.00	$2,500.00
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00	EA	$108,000.00	$648,000.00

650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00	AS	$1,975.00	$39,500.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00	AS	$1,150.00	$9,200.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00	EA	$700.00	$14,000.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00	AS	$2,450.00	$49,000.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00	EA	$450.00	$3,600.00
670-5-166	TRAF CNTL ASS,F&I,NEMA,STD LOCK,RISER,1P	1.00	AS	$61,500.00	$61,500.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00	EA	$315.00	$1,260.00
	Signalizations Component Total				$903,780.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.03	LF	$14.00	$14,000.42
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	198.49	LF	$43.00	$8,535.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00	EA	$1,550.00	$10,850.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,652.39	LF	$4.50	$16,435.76
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	7.00	EA	$10,500.00	$73,500.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	7.00	EA	$975.00	$6,825.00
	Subcomponent Total				$130,146.24
	Lighting Component Total				$130,146.25

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	871.00
Begin height	2.00
End Height	30.00
Multiplier	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	27,872.00	SF	$53.00	$1,477,216.00
	Retaining Walls Component Total				$1,477,216.00

Sequence 9 Total $6,174,630.30

Sequence: 10 NDU - New Construction, Divided, Urban **Net Length:** 0.087 MI 459 LF

Description: Airport Rd East of Dixie

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	44.00 / 44.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.087
Top of Structural Course For Begin Section	133.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.93	AC	$45,000.00	$41,850.00
120-6	EMBANKMENT	22,877.83	CY	$15.00	$343,167.45
	Earthwork Component Total				$385,017.45

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	22.00 / 11.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	2,208.51	SY	$8.50	$18,772.34
285-709	OPTIONAL BASE,BASE GROUP 09	1,682.38	SY	$32.00	$53,836.16
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	138.80	TN	$155.00	$21,514.00
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	138.80	TN	$175.00	$24,290.00

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
515-4-1	BULLET RAIL, SINGLE RAIL	792.00	LF	$55.00	$43,560.00
521-8-3	CONC TRAF RAIL BAR,JCT SLAB,32"V SHP	792.00	LF	$575.00	$455,400.00

Turnouts/Crossovers Subcomponent

Description	Value
Asphalt Adjustment	10.00
Stabilization Code	Y
Base Code	Y

Friction Course Code	Y

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	220.85	SY	$8.50	$1,877.22
285-709	OPTIONAL BASE,BASE GROUP 09	168.24	SY	$32.00	$5,383.68
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	13.88	TN	$155.00	$2,151.40
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	13.88	TN	$175.00	$2,429.00

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	35.00	EA	$5.00	$175.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.70	GM	$1,600.00	$1,120.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.35	GM	$750.00	$262.50
	Roadway Component Total				$630,771.31

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.25 / 12.25
Total Outside Shoulder Perf. Turf Width L/R	10.00 / 10.00
Sidewalk Width L/R	0.00 / 0.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	918.00	LF	$2.50	$2,295.00
104-18	INLET PROTECTION SYSTEM	5.00	EA	$170.00	$850.00
107-1	LITTER REMOVAL	2.41	AC	$75.00	$180.75
107-2	MOWING	2.41	AC	$100.00	$241.00
	Shoulder Component Total				$3,566.75

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	15.00
Performance Turf Width	0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-5-16	TRAF SEP CONC-TYPE I, 8.5' WIDE	440.00	LF	$187.00	$82,280.00
	Median Component Total				$82,280.00

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	4.00	EA	$7,100.00	$28,400.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00	EA	$14,500.00	$14,500.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00	EA	$7,000.00	$7,000.00
425-2-41	MANHOLES, P-7, <10'	1.00	EA	$7,000.00	$7,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	256.00	LF	$160.00	$40,960.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00	LF	$263.00	$6,312.00
570-1-1	PERFORMANCE TURF	28.79	SY	$6.00	$172.74
	Drainage Component Total				$104,344.74

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	3.00	EA	$575.00	$1,725.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	1.00	EA	$12,500.00	$12,500.00
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00	EA	$17,500.00	$17,500.00
	Signing Component Total				$33,325.00

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description	Value
Spacing	MIN

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	500.02	LF	$14.00	$7,000.28
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	99.25	LF	$43.00	$4,267.75
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00	EA	$1,550.00	$6,200.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,826.19	LF	$4.50	$8,217.86
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	4.00	EA	$10,500.00	$42,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00	EA	$975.00	$3,900.00
	Subcomponent Total				$71,585.88
	Lighting Component Total				$71,585.89

RETAINING WALLS COMPONENT

Retaining Wall 1

Description	Value
Length	396.00
Begin height	30.00
End Height	2.00
Multiplier	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	12,672.00	SF	$53.00	$671,616.00
	Retaining Walls Component Total				$671,616.00

Sequence 10 Total $1,982,507.14

Sequence: 11 RSU - Resurfacing, Undivided **Net Length:** 0.060 MI 317 LF

Description: Mill & Resurface 2L Airport Rd.

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	24.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	1,267.20	SY	$4.50	$5,702.40
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	104.54	TN	$155.00	$16,203.70
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	104.54	TN	$175.00	$18,294.50

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	8.00	EA	$5.00	$40.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.24	GM	$1,600.00	$384.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.12	GM	$650.00	$78.00
	Roadway Component Total				$40,702.60

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Paved Outside Shoulder Width L/R	5.00 / 5.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	352.00 SY	$4.50	$1,584.00
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	29.04 TN	$155.00	$4,501.20
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	29.04 TN	$175.00	$5,082.00
570-1-1	PERFORMANCE TURF	352.00 SY	$6.00	$2,112.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	100.00	LF	$2.50	$250.00
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	6.00	LF	$15.00	$90.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	$170.00	$170.00
107-1	LITTER REMOVAL	0.15	AC	$75.00	$11.25
107-2	MOWING	0.15	AC	$100.00	$15.00
	Shoulder Component Total				$13,815.45

Sequence 11 Total $54,518.05

Sequence: 12 NUR - New Construction, Undivided, Rural **Net Length:** 0.117 MI 615 LF

Description: Airport CD Road to maintain access to properties along Dixie Hwy (CR A1A) and Stuart Airport.

Special Conditions: 2 Lane Roadway

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	33.00 / 22.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.117
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.77	AC	$45,000.00	$34,650.00
120-6	EMBANKMENT	6,839.06	CY	$15.00	$102,585.90
	Earthwork Component Total				$137,235.90

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,348.99	SY	$8.50	$28,466.42
285-709	OPTIONAL BASE,BASE GROUP 09	1,685.43	SY	$32.00	$53,933.76
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	135.33	TN	$155.00	$20,976.15
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	135.33	TN	$175.00	$23,682.75

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	16.00	EA	$5.00	$80.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.47	GM	$1,600.00	$752.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.23	GM	$650.00	$149.50

Roadway Component Total $128,040.58

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	15.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	15.00 / 10.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	1,708.67	SY	$6.00	$10,252.02

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	430.00	SY	$65.00	$27,950.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,230.00	LF	$2.50	$3,075.00
104-11	FLOATING TURBIDITY BARRIER	29.12	LF	$15.00	$436.80
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	29.12	LF	$15.00	$436.80
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
107-1	LITTER REMOVAL	1.41	AC	$75.00	$105.75
107-2	MOWING	1.41	AC	$100.00	$141.00

Shoulder Component Total $46,197.37

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	304.00	LF	$200.00	$60,800.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	64.00	LF	$263.00	$16,832.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	16.00	EA	$4,300.00	$68,800.00
570-1-1	PERFORMANCE TURF	266.68	SY	$6.00	$1,600.08

Drainage Component Total $148,032.08

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00	EA	$575.00	$575.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00	EA	$1,600.00	$6,400.00
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00	EA	$7,300.00	$7,300.00
	Signing Component Total				$14,275.00

Sequence 12 Total $473,780.93

Sequence: 13 WDU - Widen/Resurface, Divided, Urban **Net Length:** 0.137 MI 724 LF

Description: SR 714 (Monterey RD) - WIDENING @ CR A1A

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 42.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.137
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	0 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	2.00 % / 2.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	0 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	2.00 % / 2.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.70	AC	$45,000.00	$31,500.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	1,107.54	CY	$15.00	$16,613.10
	Earthwork Component Total				$48,113.10

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	33.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	0.00 / 23.50
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	2,097.67	SY	$8.50	$17,830.20
285-709	OPTIONAL BASE,BASE GROUP 09	1,916.69	SY	$32.00	$61,334.08
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	4,584.62	SY	$5.50	$25,215.41
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	378.23	TN	$155.00	$58,625.65
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	259.90	TN	$155.00	$40,284.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	378.23	TN	$175.00	$66,190.25

337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	155.94	TN	$175.00	$27,289.50

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	160.00	SY	$25.00	$4,000.00
	Comment: existing C&G				

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	93.00	EA	$5.00	$465.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.10	GM	$1,600.00	$1,760.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.10	GM	$750.00	$825.00

Roadway Component Total $303,819.59

SHOULDER COMPONENT

User Input Data

Description	Value
Existing Total Outside Shoulder Width L/R	10.00 / 10.00
New Total Outside Shoulder Width L/R	0.00 / 16.25
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 14.00
Sidewalk Width L/R	0.00 / 0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	723.89	LF	$52.00	$37,642.28
570-1-1	PERFORMANCE TURF	1,126.05	SY	$6.00	$6,756.30

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,447.78	LF	$2.50	$3,619.45
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	7.00	EA	$170.00	$1,190.00
107-1	LITTER REMOVAL	1.20	AC	$75.00	$90.00
107-2	MOWING	1.20	AC	$100.00	$120.00

Shoulder Component Total $53,218.03

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	29.00
Performance Turf Width	8.55

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	1,447.78	LF	$35.00	$50,672.30
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	370.00	LF	$91.00	$33,670.00
570-1-1	PERFORMANCE TURF	687.69	SY	$6.00	$4,126.14
	Median Component Total				$88,468.44

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	5.00	EA	$7,100.00	$35,500.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00	EA	$14,500.00	$29,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	80.00	LF	$160.00	$12,800.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00	LF	$263.00	$6,312.00
570-1-1	PERFORMANCE TURF	41.68	SY	$6.00	$250.08
	Drainage Component Total				$83,862.08

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	4.00	EA	$575.00	$2,300.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00	EA	$450.00	$450.00
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00	EA	$55.00	$220.00
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00	EA	$7,300.00	$7,300.00
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00	EA	$1,200.00	$1,200.00
	Signing Component Total				$13,070.00

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	6 Lane Mast Arm
Multiplier	1
Description	SR 714 AND CR A1A

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00	LF	$14.00	$9,800.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00	LF	$43.00	$12,900.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	$11,500.00	$11,500.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00	EA	$1,550.00	$34,100.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00	AS	$6,200.00	$6,200.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00	LF	$12.00	$720.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00	EA	$2,500.00	$2,500.00
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00	EA	$108,000.00	$648,000.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00	AS	$1,975.00	$39,500.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00	AS	$1,150.00	$9,200.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00	EA	$700.00	$14,000.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00	AS	$2,450.00	$49,000.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00	EA	$450.00	$3,600.00
670-5-166	TRAF CNTL ASS,F&I,NEMA,STD LOCK,RISER,1P	1.00	AS	$61,500.00	$61,500.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00	EA	$315.00	$1,260.00
	Signalizations Component Total				$903,780.00

Sequence 13 Total $1,494,331.24

Sequence: 14 WUU - Widen/Resurface, Undivided, Urban **Net Length:** 0.152 MI 800 LF

Description: SR 714 (MONETREY RD) WIDENING @ US 1

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	16.00 / 22.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.152
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.70	AC	$45,000.00	$31,500.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	195.88	CY	$15.00	$2,938.20
	Earthwork Component Total				$34,438.20

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	36.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	4.50 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	1,925.14	SY	$8.50	$16,363.69
285-709	OPTIONAL BASE,BASE GROUP 09	1,525.18	SY	$32.00	$48,805.76
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	5,332.80	SY	$5.50	$29,330.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	439.96	TN	$155.00	$68,193.80
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	201.65	TN	$155.00	$31,255.75
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	439.96	TN	$175.00	$76,993.00
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	120.99	TN	$175.00	$21,173.25

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	1,422.00	SY	$25.00	$35,550.00
	Comment: existing outside C&G (355) plus sidewalk L&R (1067)				
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	445.00	LF	$91.00	$40,495.00

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	123.00	EA	$5.00	$615.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.21	GM	$1,600.00	$1,936.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.21	GM	$750.00	$907.50
	Roadway Component Total				$371,619.15

SHOULDER COMPONENT

User Input Data

Description	Value
Existing Total Outside Shoulder Width L/R	10.00 / 10.00
New Total Outside Shoulder Width L/R	10.25 / 10.25
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Sidewalk Width L/R	6.00 / 6.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	799.92	LF	$52.00	$41,595.84
520-1-10	CONCRETE CURB & GUTTER, TYPE F	799.92	LF	$52.00	$41,595.84
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,066.56	SY	$65.00	$69,326.40
570-1-1	PERFORMANCE TURF	355.52	SY	$6.00	$2,133.12

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,599.84	LF	$2.50	$3,999.60
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	$3,800.00	$3,800.00
104-18	INLET PROTECTION SYSTEM	8.00	EA	$170.00	$1,360.00
107-1	LITTER REMOVAL	0.70	AC	$75.00	$52.50
107-2	MOWING	0.70	AC	$100.00	$70.00
	Shoulder Component Total				$163,933.30

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	6.00	EA	$7,100.00	$42,600.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00	EA	$14,500.00	$29,000.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00	EA	$7,000.00	$7,000.00
425-2-41	MANHOLES, P-7, <10'	1.00	EA	$7,000.00	$7,000.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	296.00	LF	$160.00	$47,360.00
570-1-1	PERFORMANCE TURF	46.06	SY	$6.00	$276.36

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	760.00	LF	$263.00	$199,880.00

Drainage Component Total $333,116.36

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	3.00	EA	$575.00	$1,725.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00	EA	$450.00	$450.00
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00	EA	$55.00	$165.00
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00	EA	$7,300.00	$7,300.00
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00	EA	$1,200.00	$1,200.00

Signing Component Total $12,440.00

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	6 Lane Mast Arm
Multiplier	1
Description	SR 714 and US 1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00	LF	$14.00	$9,800.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00	LF	$43.00	$12,900.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	$11,500.00	$11,500.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00	EA	$1,550.00	$34,100.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00	AS	$6,200.00	$6,200.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00	LF	$12.00	$720.00

641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00 EA	$2,500.00	$2,500.00
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00 EA	$108,000.00	$648,000.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00 AS	$1,975.00	$39,500.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	$1,150.00	$9,200.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00 EA	$700.00	$14,000.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00 AS	$2,450.00	$49,000.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	$450.00	$3,600.00
670-5-166	TRAF CNTL ASS,F&I,NEMA,STD LOCK,RISER,1P	1.00 AS	$61,500.00	$61,500.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	$315.00	$1,260.00
	Signalizations Component Total			$903,780.00

Sequence 14 Total $1,819,327.01

Sequence: 15 MIS - Miscellaneous Construction **Net Length:** 0.000 MI 0 LF

Description: DRB only

ROADWAY COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-20-1	DISPUTES REVIEW BD, MEETING-DO NOT BID	36.00	DA	$4,800.00	$172,800.00
	Comment: Assume 3 years of construction at 1 meeting per month.				
999-20-2	DISPUTES REVIEW BD, HEARING-DO NOT BID	3.00	EA	$5,750.00	$17,250.00
	Comment: Assume 3 years of construction at 1 hearing per year.				
	Roadway Component Total				$190,050.00

Sequence 15 Total $190,050.00

Sequence: 16 NUR - New Construction, Undivided, Rural **Net Length:** 0.262 MI 1,385 LF

Description: Airport CD Road to maintain access to Stuart Airport.

Special Conditions: 2 Lane Roadway

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.262
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	5 to 1 / 5 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.59	AC	$45,000.00	$71,550.00
120-6	EMBANKMENT	13,770.07	CY	$15.00	$206,551.05
	Earthwork Component Total				$278,101.05

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	6,770.84	SY	$8.50	$57,552.14
285-709	OPTIONAL BASE,BASE GROUP 09	3,794.75	SY	$32.00	$121,432.00
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	304.69	TN	$155.00	$47,226.95
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	304.69	TN	$175.00	$53,320.75

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	35.00	EA	$5.00	$175.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.05	GM	$1,600.00	$1,680.00
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.52	GM	$650.00	$338.00
	Roadway Component Total				$281,724.84

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	10.00 / 10.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿½No. of Sides	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	3,077.65	SY	$6.00	$18,465.90

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,770.00	LF	$2.50	$6,925.00
104-11	FLOATING TURBIDITY BARRIER	60.00	LF	$15.00	$900.00
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	60.00	LF	$15.00	$900.00
	Shoulder Component Total				$27,190.90

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	304.00	LF	$200.00	$60,800.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	64.00	LF	$263.00	$16,832.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	16.00	EA	$4,300.00	$68,800.00
570-1-1	PERFORMANCE TURF	266.68	SY	$6.00	$1,600.08
	Drainage Component Total				$148,032.08

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00	EA	$575.00	$575.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00	EA	$1,600.00	$3,200.00

700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	$7,300.00	$7,300.00
	Signing Component Total			$11,075.00
Sequence 16 Total				$746,123.87

Sequence: 17 WDU - Widen/Resurface, Divided, Urban **Net Length:** 0.044 MI 233 LF

Description: Cut out Median to Add Left Turn Lane into Mall.

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 5.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.044
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.13	AC	$45,000.00	$5,850.00
120-1	REGULAR EXCAVATION	495.96	CY	$15.00	$7,439.40
	Earthwork Component Total				$13,289.40

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	0.00 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	12.00 / 5.00
Widened Structural Spread Rate	220
Widened Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	573.32	SY	$8.50	$4,873.22
285-709	OPTIONAL BASE,BASE GROUP 09	456.90	SY	$32.00	$14,620.80
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	48.38	TN	$155.00	$7,498.90
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	36.29	TN	$175.00	$6,350.75

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt

Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.35	GM	$1,600.00	$560.00

Roadway Component Total $33,903.67

SHOULDER COMPONENT

User Input Data

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-18	INLET PROTECTION SYSTEM	3.00	EA	$170.00	$510.00
107-1	LITTER REMOVAL	0.38	AC	$75.00	$28.50
107-2	MOWING	0.38	AC	$100.00	$38.00

Shoulder Component Total $576.50

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	26.00
Performance Turf Width	10.25

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	465.70	LF	$35.00	$16,299.50
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	200.00	LF	$91.00	$18,200.00
570-1-1	PERFORMANCE TURF	265.19	SY	$6.00	$1,591.14

Median Component Total $36,090.64

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00	EA	$7,100.00	$14,200.00
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00	EA	$14,500.00	$14,500.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	32.00	LF	$160.00	$5,120.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00	LF	$263.00	$2,104.00

570-1-1	PERFORMANCE TURF	13.41 SY	$6.00	$80.46
	Drainage Component Total			$36,004.46

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00	EA	$575.00	$575.00
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00	EA	$1,600.00	$1,600.00
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00	EA	$450.00	$450.00
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	1.00	EA	$55.00	$55.00
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00	EA	$7,300.00	$7,300.00
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00	EA	$1,200.00	$1,200.00
	Signing Component Total				$11,180.00

Sequence 17 Total $131,044.67

Sequence: 18 MIS - Miscellaneous Construction **Net Length:** 0.350 MI 1,848 LF

Description: Ponds

DRAINAGE COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-584	INLETS, DT BOT, TYPE H, J BOTTOM >10'	3.00	EA	$11,500.00	$34,500.00

Retention Basin 1

Description	Value
Size	1 AC
Multiplier	1
Depth	4.50
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.00	AC	$45,000.00	$45,000.00
120-1	REGULAR EXCAVATION	7,260.00	CY	$15.00	$108,900.00
425-2-71	MANHOLES, J-7, <10'	1.00	EA	$14,095.80	$14,095.80
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	840.00	LF	$21.25	$17,850.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00	EA	$4,598.40	$4,598.40
570-1-1	PERFORMANCE TURF	4,840.00	SY	$6.00	$29,040.00

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	120.00	LF	$350.00	$42,000.00
430-982-133	MITERED END SECT, OPTIONAL RD, 30" CD	1.00	EA	$5,354.56	$5,354.56
430-982-141	MITERED END SECT, OPTIONAL RD, 48" CD	1.00	EA	$6,200.00	$6,200.00

Retention Basin 2

Description	Value
Size	.5 AC
Multiplier	1
Depth	3.00
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.50	AC	$45,000.00	$22,500.00
120-1	REGULAR EXCAVATION	1,210.00	CY	$15.00	$18,150.00
425-2-71	MANHOLES, J-7, <10'	7.00	EA	$14,095.80	$98,670.60
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00	LF	$21.25	$12,750.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00	EA	$4,598.40	$4,598.40
570-1-1	PERFORMANCE TURF	1,210.00	SY	$6.00	$7,260.00

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount

430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	1,120.00	LF	$263.00	$294,560.00
430-982-138	MITERED END SECT, OPTIONAL RD, 36" CD	2.00	EA	$8,408.10	$16,816.20

Retention Basin 3

Description	Value
Size	1.5 AC
Multiplier	1
Depth	4.00
Description	

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.50	AC	$45,000.00	$67,500.00
120-1	REGULAR EXCAVATION	9,680.00	CY	$15.00	$145,200.00
425-2-71	MANHOLES, J-7, <10'	2.00	EA	$14,095.80	$28,191.60
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,025.00	LF	$21.25	$21,781.25
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00	EA	$4,598.40	$4,598.40
570-1-1	PERFORMANCE TURF	7,260.00	SY	$6.00	$43,560.00

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	360.00	LF	$350.00	$126,000.00
430-982-141	MITERED END SECT, OPTIONAL RD, 48" CD	2.00	EA	$6,200.00	$12,400.00

Drainage Component Total $1,232,075.21

Sequence 18 Total $1,232,075.21

Date: 9/10/2026 7:42:09 PM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 441636-3-52-01 **Letting Date:** 03/2030

Description: SR-714/MONTEREY ROAD @ FEC RAILROAD CROSSING

District: 04 **County:** 89 MARTIN **Market Area:** 11 **Units:** English

Contract Class: 9 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 0.035 MI

Project Manager: LOPES

Version 14 Project Grand Total **$60,456,583.93**

Description: 9/8/26 Copy of V13 for update to edit Drainage and Design of Monterey Road Extension.

Project Sequences Subtotal			**$43,334,950.72**
102-1	Maintenance of Traffic	10.00 %	$4,333,495.07
101-1	Mobilization	10.00 %	$4,766,844.58
Project Sequences Total			**$52,435,290.37**
Project Unknowns		15.00 %	$7,865,293.56
Justification for high %:	project unknowns assigned by FP		
Design/Build		0.00 %	$0.00

Non-Bid Components:

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-16	PARTNERING (DO NOT BID)	2.00	LS	$3,000.00	$6,000.00
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	$150,000.00	$150,000.00
Project Non-Bid Subtotal					**$156,000.00**
Version 14 Project Grand Total					**$60,456,583.93**