

Wetland Evaluation Report Addendum

**I-75 (SR 93) at SR 780 (Fruitville Road)
Interchange Improvements**

Financial Project ID No. 420613-2-52-01

ETDM No. 4791

SARASOTA COUNTY

PREPARED FOR:



**FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT 1**

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 December 14, 2016 and executed by the Federal Highway Administration and FDOT.

May 2018

Introduction and Purpose

Project Background

The Florida Department of Transportation (FDOT) conducted a Project Development and Environment (PD&E) Study in 2008 along I-75 in Sarasota County to determine the ultimate needs for the interstate and interchanges. The preferred alternative for the I-75 and Fruitville Road (SR 780) interchange was identified to be Arterial Separation along with adding turn lanes to the on and off-ramp approaches at Fruitville Road, as well as the widening of Fruitville Road from west of Cattlemen Road to west of Coburn Road to accommodate additional lanes along Fruitville Road. A Type 2 Categorical Exclusion (CE) was prepared and approved in December 2011.

This 2008 PD&E Study was updated in 2012 as part of a Systems Interchange Modification Report (SIMR). This report also concluded that the preferred alternative for the I-75 and Fruitville Road (SR 780) interchange to be Arterial Separation along with adding turn lanes to the on and off-ramp approaches at Fruitville Road.

A new Interchange Modification Report (IMR) was prepared in 2016 to reevaluate the future traffic operations at the I-75 and Fruitville Road interchange, based on revised population/traffic growth projections, and reevaluated the need for the improvements recommended by the 2008 PD&E Study and the 2012 SIMR.

The 2016 IMR evaluated two design alternatives:

- The 2008 PD&E Study and 2012 SIMR-recommended preferred alternative Arterial Traffic Separation, and
- A Diverging Diamond Interchange (DDI) alternative.

Based on the results from the evaluation of these alternatives, the 2016 IMR recommended the DDI as the preferred alternative. The two distinguishing features between the approved PD&E Concept and the DDI alternative are:

- 1) The increased lane utilization along Fruitville Road approaching I-75 with the DDI configuration.
- 2) The overall safety improvements for all modes of travel at the interchange intersections with the DDI configuration.

Similar to the PD&E preferred alternative, the DDI alternative requires reconstruction of I-75 and the interchange and provides similar impacts within the existing right-of-way. Along Fruitville Road, the DDI alternative requires widening of Fruitville Road from east of Honore Avenue to the easternmost Coburn Road intersection. Additionally, the project includes widening east of the easternmost Coburn Road intersection to provide for three westbound through lanes and a westbound right turn lane providing access to the future Lakewood Ranch Boulevard Extension.

Both alternatives fall within nearly the same footprint with a minor difference at the intersection of Fruitville Road with Cattlemen Road. Both alternatives require the acquisition of right-of-way along the south side of Fruitville Road west of Cattlemen Road to account for the widening of Fruitville Road needed to accommodate the additional lanes, however, the PD&E alternative

required the acquisition of right-of-way along the east side of Cattlemen Road and at the southeast quadrant of the intersection with Fruitville Road to accommodate the additional widening previously required along Cattlemen Road south of Fruitville Road. The DDI alternative eliminates the need for this widening and the additional right-of-way east of Cattlemen Road.

Description of Alternatives

Approved PD&E Concept – Arterial Traffic Separation

As provided in the PD&E Study, this alternative adds arterial separation on Fruitville Road at the ramp terminal intersections and maintains the existing Partial Cloverleaf Interchange. This allows southbound and northbound left turn traffic along Fruitville Road to turn while eastbound and westbound through traffic continues to flow uninterrupted. Additional lanes will be added to the eastbound to northbound loop-ramp and eastbound to southbound on-ramp. Along eastbound Fruitville Road, an additional through lane will be added beginning east of Cattlemen Road to create five total through lanes approaching the I-75 interchange. Eastbound Fruitville Road east of the interchange contains four through lanes approaching the Coburn Road signalized intersection where the rightmost and leftmost lanes drop as the right and left turn lanes, respectively. Along westbound Fruitville Road, two lanes will be added beginning west of the stop-controlled Coburn Road approach to lead to the north and southbound on-ramps at the I-75 interchange, although only 2 through lanes exist at the northbound ramp terminal intersection. Westbound Fruitville Road west of the interchange contains five through lanes (two more than existing) approaching Cattlemen Road. The fifth through lane merges to create four through lanes west of Cattlemen Road and the fourth through lane is dropped as the westbound right turn lane at the Honore Avenue intersection.

Figure 1 illustrates the arterial separation alternative.

2016 IMR Proposed Alternative – Diverging Diamond Interchange

This alternative will reconstruct the existing I-75 at Fruitville Road (SR 780) Interchange facility from the existing six, 12-foot travel lanes (three in each direction) to provide for a diverging diamond configuration interchange that provides for the ultimate typical section along I-75. The design of the ultimate typical section for I-75 provides a ten-lane facility with two express lanes and three general use lanes in each direction from MP 38.769 to MP 39.452, a distance of 0.683 mile. The general use lanes will be designed to transition to the existing lanes on I-75; the transition south of SR 780 is from MP 38.333 to MP 38.769, a distance of 0.436 mile; the transition north of SR 780 is from MP 39.452 to MP 40.283, a distance of 0.831 mile (the overall length of work on I-75 is 1.950 miles). The Interchange improvements will also require the replacement of the existing I-75 at Fruitville Road (SR 780) bridges, Bridge Nos. 170083 and 170084; the replacement of the existing I-75/SR 780 entrance and exit ramps; and the widening of Fruitville Road (SR 780) from Honore Avenue (MP 4.203) to Coburn Road (MP 5.844), a distance of 1.641 miles, to accommodate the transition of the proposed lanes to tie to existing lanes. Additionally, Cattlemen Road, north of SR 780, will be widened to provide triple southbound left turn lanes and Fruitville Road will be widened in the westbound direction east of Coburn Road to provide for a northbound right turn lane onto the future Lakewood Ranch Boulevard Extension and for an additional westbound lane through the intersection with Coburn Road.

Figure 2 illustrates the DDI alternative.

Differences Between the Diverging Diamond Interchange Alternative and the Arterial Traffic Separation Alternative that Require Re-evaluation

Construction Footprint

Figure 3 illustrates the differences in construction footprints between the Diverging Diamond Interchange Alternative and the PD&E Arterial Traffic Separation Alternative. As can be seen in Figure 3 both alternatives fall within nearly the same footprint. The areas highlighted in yellow are areas of additional footprint required for the Diverging Diamond Interchange alternative that have not been evaluated for environmental impacts.

The construction footprint identifies the additional widening required for the DDI alternative along Fruitville Road from east of Honore Avenue to west of Cattlemen Road that was not included in the PD&E alternative, although it would have been required for construction. The widening is required to transition from the existing lanes to meet the widened typical section. The construction footprint also identifies additional construction required for the DDI alternative east of I-75 for the widening of Fruitville Road to the easternmost intersection of Fruitville Road with Coburn Road plus additional widening for westbound Fruitville Road east of the signalized Coburn Road intersection to accommodate three through lanes in the westbound direction and a westbound right turn lane to the proposed Lakewood Ranch Boulevard Extension.

The PD&E alternative identified the need for right-of-way acquisition along the south side of Fruitville Road at the southwest and southeast corners of the intersection with Cattlemen Road, as well as requiring right-of-way along the east side of Cattlemen Road. The proposed right-of-way delineated with the PD&E alternative acquires right-of-way from three parcels (two west of Cattlemen Road and one east of Cattlemen Road) for a total of approximately 0.152 acre to allow for widening of Cattlemen Road south of Fruitville Road. The proposed right-of-way necessary for the DDI alternative requires right-of-way from two of the three parcels identified for the PD&E alternative; however, less right-of-way is needed from these two parcels. Approximately 0.04 acre of right-of-way is necessary for the DDI alternative.

Figure 4 illustrates the right-of-way needed for both the PD&E Study alternative and the DDI alternative.

Construction Activities and Duration

The Diverging Diamond Interchange alternative would require the same construction activities and construction duration as the Arterial Traffic Separation alternative.

Operation

Once constructed, there are no substantial differences in the traffic operations of the two alternatives that would cause the Diverging Diamond Interchange alternative to have greater impacts (e.g., traffic, noise, air quality).

Addendum

As part of the PD&E study completed in September 2008, a Wetland Evaluation Report (WER) was prepared to document anticipated project involvement regarding impacts to wetlands and surface waters. Field work supporting the PD&E WER was conducted in July and September 2006, August – September 2007, and June 2008. The PD&E study limits were from south of SR 681 to north of University Parkway. The project limits included the following five interchanges from south to north: SR 681 (Venice Connector), SR 72 (Clark Road), SR 758 (Bee Ridge Road), SR 780 (Fruitville Road), and University Parkway. The PD&E included separate alternatives for the mainline and each of the five interchanges. Existing land use, wetlands, and surface waters were assessed and described for the entire study limits, but impact assessments were specific to the five interchanges.

This memorandum serves as an addendum to the original PD&E WER and provides an update of jurisdictional wetlands and surface water features, project impacts, and expected mitigation based on the Diverging Diamond Interchange (DDI) alternative that was recommended in the 2016 IMR. The 2012 SIMR did not provide updates to the WER and; therefore, the original PD&E WER remains the valid approved document for this design-phase re-evaluation.

This addendum has been prepared in compliance with Executive Order 11990 “Protection of Wetlands”, dated May 24, 1977; FHWA Technical Advisory T640.8A; Title 23 Code of Federal Regulations (CFR) Part 777; and the requirements set forth in the Florida Department of Transportation (FDOT) Project Development and Environment Manual, Part 1, Chapter 13 (Reevaluations) and Part 2, Chapter 9 (Wetlands and Other Surface Waters).

The objectives of the re-evaluation study include:

- 1) Define the project limits to be utilized for the assessments;
- 2) Identify, delineate, and characterize wetlands and surface waters within the project limits;
- 3) Assess the ecological functional value of wetlands potentially affected by the project;
- 4) Develop impact minimization strategies;
- 5) Identify mitigation options to offset unavoidable wetland impacts; and
- 6) Identify the permitting requirements.

Project Limits

The PD&E study limits extended along I-75 from south of SR 681 in Sarasota County to north of University Parkway in Manatee County, approximately 15 miles. For the Fruitville Interchange, the study limits along I-75 were from Palmer Road to approximately 4,500 feet north of Fruitville Road. The study limits along Fruitville Road were from 900 feet west of Cattleman Road to the just past the crossing of Phillippi Creek Main C Canal. The design-phase project limits (see **Figure 5**) extend beyond the PD&E study limits. The project limits were extended as follows:

- 1) Approximately 2,700 feet west on SR 780 (Fruitville Road) and

- 2) Approximately 2,100 feet east on SR 780 (Fruitville Road).

The Fruitville Interchange design phase project limits overlap the University Parkway design phase limits. Therefore, some of the wetlands identified in the PD&E as being located within the Fruitville Interchange were included in the University Parkway design phase limits and the Fruitville Road design phase limits. Some of the wetlands were impacted by the University Parkway interchange design/construction and some will be impacted by the Fruitville Road interchange design/construction.

Existing Land Use and Cover Conditions

Existing land use and cover reflecting current conditions was mapped based on the Florida Land Use, Cover and Forms Classification System (FDOT, 1999) classifications (see **Figure 6**). Existing land use mapping changed from the PD&E land use mapping based on updated field assessments, approval of formal wetland and surface water delineations, and the recent construction of the I-75 interchange at University Parkway.

The majority (72%) of land use within the project limits is classified as transportation (FLUCCS 810). One additional upland land cover class, Hardwood – Coniferous Mixed (FLUCCS 434), covers approximately 4% of the project limits. Wetland and other surface water systems within the project limits consist of streams and waterways (FLUCCS 510), a wetland hardwood forest (FLUCCS 610), cypress (FLUCCS 621), wetland forested mixed (FLUCCS 630), and freshwater marsh (FLUCCS 641).

Wetlands and Other Surface Waters

A WER was completed for the PD&E study in September 2008. Data reviewed from the WER was specific to the I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements project. The PD&E identified the presence of 10 wetlands and estimated wetland impacts at 6.51 acres. Surface water impacts were estimated at 0.64 acre. The associated Uniform Mitigation Assessment Method (UMAM) functional loss for the impacts was 3.65 units. The PD&E impacts included wetland impact acreage estimates and UMAM functional loss estimates for two wetlands (W4L and W5L) that were impacted by the I-75 at University Parkway project, two wetlands (W7L and W18R) that were not delineated as wetlands or surface waters during design, and two wetlands (W8L and W20R) that were classified as other surface waters during the design phase.

Design-Phase Methodology

The location and boundaries of wetlands and surface waters were initially estimated based on National Wetland Inventory (NWI) data from the U.S. Fish and Wildlife Service (USFWS), Southwest Florida Water Management District (SWFWMD) 2011 FLUCCS mapping, and hydric soils data from the Natural Resource Conservation Service (NRCS). The jurisdictional boundaries of wetlands and surface waters within the proposed right-of-way (ROW) and potential stormwater management facilities were field delineated by ICON Consultant Group environmental scientists in December 2016 (see **Figure 7**). Wetlands were delineated in accordance with state wetland jurisdictional methodology, as described in Chapter 62-340, F.A.C. the U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual (USACE, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region

(Version 2.0, 2010). Surface water limits were delineated based on Ordinary High Water Marks/Lines or top-of-bank in accordance with Chapter 62-340, F.A.C. and 33 CFR 328.3. The jurisdictional boundaries were reviewed by SWFWMD on March 13, 2017 and an approved Petition for Formal Determination of Wetlands and Other Surface Waters was issued by SWFWMD on July 11, 2017 (see **Appendix A**).

Due to the project limits overlap with the University Parkway interchange project, three wetlands and one other surface water approved under SWFWMD JD #41286.000 and ERP Permit 23484.003 are included in the Fruitville Road interchange project limits. These wetlands and OSW were not impacted by the University Parkway construction.

During the field delineations and reviews, additional data was collected to aid in evaluation of wetland functions and values in accordance with UMAM.

Following the approval of the delineation, wetland and surface water areas were overlaid with the proposed design to identify areas of impact. In addition, the potential for secondary impacts was assessed for each wetland direct impact area where additional contiguous wetland was present. Secondary impacts are not required to be assessed for surface water impacts. For this project, all assessed secondary impacts extend 25 feet into the impacted wetland.

Descriptions of Wetlands/Other Surface Waters and Proposed Impacts

Based on the approved SWFWMD delineations, seven (7) wetlands and nine (9) other surface waters (some with multiple segments) were identified within the limits of proposed construction. Of the seven (7) wetlands, Wetland 4 (1.17 acres) is the only wetland proposed as USACE-jurisdictional. Two (2) of the nine (9) other surface waters are USACE-jurisdictional, including the canal (Segments OSW2A/B/C/D/E, OSW4A/B, and OSW 8A/B) and OSW12 segments A and B. SWFWMD-jurisdictional wetland area within the project limits is 4.63 acres and other surface waters include 10.12 acres. SWFWMD-jurisdictional wetland impacts include 1.45 acre of direct impact and 0.11 acre of secondary impact. USACE-jurisdictional permanent wetland impacts include 0.45 acre. Direct impacts to SWFWMD-jurisdictional other surface waters is 0.76 acre. Direct permanent impacts to USACE-jurisdictional other surface waters is 0.17 acre. Descriptions of each wetland and surface water habitat type and the proposed impacts are provided below. Impact areas are preliminary and have not been reviewed/approved by regulatory agencies. **Table 1** provides a comparison of the proposed wetland impact areas during the PD&E and design phase and **Table 2** provides a comparison of proposed other surface water impact areas estimated during the PD&E and design phase.

Wetland 1

PD&E ID:	W18Rb
USFWS Classification:	PFO2
PD&E USFWS Classification:	PFO2
FLUCCS Code:	621 – Cypress
PD&E FLUCCS Code:	621 – Cypress
Soil Classification:	Florida Mucky Fine Sand (hydric)

Wetland 1 (WL1) is a SWFWMD jurisdictional, man-made, isolated, 2.54-acre wetland that functions as a stormwater conveyance feature. It is in the southeast quadrant of the I-75/Fruitville Road interchange and is surrounded by roadways. This wetland has a moderately steep bank from the adjacent roadway and receives water from direct precipitation and runoff from the adjacent roadway. The wetland has an outfall pipe from its northwest corner that flows under the off-ramp and into roadside ditches. The invert of the outfall pipe is located below the existing ground surface within the wetland and positive flow conditions exist downstream. Therefore, the wetland does not hold water above ground surface except when heavy rainfall events are occurring.

Dominant vegetation within WL1 includes Browne's blechum (*Ruellia blechum*), whorled marsh pennywort (*Hydrocotyle verticillata*), red maple (*Acer rubrum*), carrotwood (*Cupaniopsis anacardioides*), pond cypress (*Taxodium ascendens*), and bald cypress (*Taxodium distichum*).

A review of historical photographs from the 1940s, 1970s, 1980s, and 1990s indicates that WL1 was historically agricultural field adjacent to two drainage canals that were in the vicinity of existing I-75 and Fruitville Road. Extensive earthwork was conducted to fill the drainage canals and construct Fruitville Road and I-75. WL1 was created during the construction of I-75 and the associated off-ramp. The dense cypress trees were planted in the 1980s and no recruitment of cypress is evident; likely due to inadequate hydrology.

Reliable indicators of seasonal high water and normal pool elevations were not present. Cypress buttressing was not evident and lichen/moss limits extended to the ground. Soils appear to be mucky sand in the upper 1 inch of the soil surface and sand with minimal organic bodies below.

Wetland impacts are proposed along the northern fringe of WL1 and total 0.10 acre of permanent impact and 0.11 acre of secondary impact. The direct impact will result from filling required to widen Fruitville Road.

Wetland 2

PD&E ID:	W19R
USFWS Classification:	PFO6
PD&E USFWS Classification:	PFO
FLUCCS Code:	610 – Wetland Hardwood Forest
PD&E FLUCCS Code:	617 – Mixed Wetland Hardwood
Soil Classification:	Floridana Mucky Fine Sand and Delray Fine Sand, Depressional (hydric)

Wetland 2 (WL2) is a SWFWMD jurisdictional, man-made, isolated, 0.47-acre wetland that functions as a stormwater conveyance feature. It is in the northeast quadrant of the I-75/Fruitville Road interchange and is surrounded by roadways. This wetland has a moderately steep bank from the adjacent roadway and receives water from direct precipitation and runoff from the adjacent roadway.

Dominant vegetation within WL2 includes caesarweed (*Urena lobata*), whorled marsh pennywort, common dayflower (*Commelina diffusa*), red maple, sweet bay (*Magnolia virginiana*), slash pine (*Pinus elliotii*), and pop ash (*Fraxinus caroliniana*).

Reliable indicators of seasonal high water and normal pool elevations were not present. The wetland appears to hold shallow water during the wet season, but not at a frequency sufficient for the development of reliable indicators. The wetland is not connected to other wetlands or surface waters below seasonal high water and; therefore, is considered an isolated wetland. Soils appear to be fine sand with organic bodies throughout.

A review of historic photographs from the 1940s, 1970s, 1980s, and 1990s indicates that WL2 was historically agricultural field. WL2 was created during the construction of I-75 and the associated on-ramp.

WL2 (0.47 acre) will be filled for the widening of I-75 and construction of a new eastbound to northbound on-ramp.

Wetland 3

PD&E ID:	W6L
USFWS Classification:	PFO2
PD&E USFWS Classification:	PFO
FLUCCS Code:	630 – Wetland Forested Mixed
PD&E FLUCCS Code:	621 – Cypress
Soil Classification:	Holopaw Fine Sand (hydric), Depressional and EauGallie and Myakka Fine Sands

Wetland 3 (WL3) is a SWFWMD jurisdictional, man-made, isolated, 0.13-acre wetland that functions as a stormwater conveyance feature. It is located in the northwest quadrant of the I-75/Fruitville Road interchange and is surrounded by roadways. This wetland has a moderately steep bank from the adjacent roadway and receives water from direct precipitation and runoff from the adjacent roadway.

Dominant vegetation within WL3 includes a mixture of caesarweed, whorled marsh pennywort, cabbage palm (*Sabal palmetto*), sweetgum (*Liquidambar styraciflua*), Laurel oak (*Quercus laurifolia*), pond cypress, bald cypress, and slash pine.

Reliable indicators of seasonal high water and normal pool elevations were not present. The wetland appears to hold water for short durations during the wet season, but not at a frequency sufficient for the development of reliable indicators. The wetland is not connected to other wetlands or surface waters below seasonal high water and; therefore, is considered an isolated wetland. Soils appear to be dry and sandy.

A review of historical photographs from the 1940s, 1970s, 1980s, and 1990s indicates that WL3 was historically open pasture with scattered scrubs and small buildings. WL3 was created during the construction of I-75 and the associated off-ramp.

WL3 (0.13 acre) will be excavated for the construction of proposed Pond 100.

Wetland 4

USFWS Classification: PEM1
FLUCCS Code: 641 – Freshwater Marsh
Soil Classification: Floridana Mucky Fine Sand (hydric)

Wetland 4 (WL4) is a SWFWMD/USACE jurisdictional, man-made, 1.17-acre wetland that functions as a stormwater conveyance feature located between Fruitville Road and the Fruitville Public Library, east of I-75. WL4 receives water from direct precipitation and surface runoff. This wetland is connected to another drainage on the east side of Coburn Road via a storm pipe.

Dominant vegetation within WL4 includes alligator weed (*Alternanthera philoxeroides*), whorled marsh pennywort, torpedo grass (*Panicum repens*), cattail (*Typha latifolia*), Carolina redroot (*Lachnanthes carolina*), bull tongue arrowhead (*Sagittaria lancifolia*), Brazilian pepper (*Schinus terebinthifolius*), and Peruvian primrose willow (*Ludwigia peruviana*).

Reliable indicators of seasonal high water and normal pool elevations were not present. The wetland appears to hold water for short durations during the wet season, but not at a frequency sufficient for the development of reliable indicators. Soils appear to be mucky sand.

A review of historical photographs from the 1940s, 1970s, 1980s, and 1990s indicates that WL4 was historically an agriculture field south of the drainage that is now Fruitville Road. WL4 was created during the construction of Fruitville Road.

A direct impact of 0.45 acre to WL4 will result from filling associated with the front slope for the proposed widening of Fruitville Road.

Wetlands W4L and W5L

PD&E USFWS Classification: PSS
PD&E FLUCCS Code: 631 – Wetland Scrub
Soil Classification: Bradenton Fine Sand (hydric)

Wetlands W4L and W5L were identified in the PD&E WER as herbaceous wetlands located west of I-75 and north of Fruitville Road. These wetlands were permitted for fill under ERP Permit No. 23484.003 and were filled during completed construction.

Wetland W7L (Not identified or delineated as wetland or OSW during design phase)

PD&E USFWS Classification: PSS
PD&E FLUCCS Code: 631–Wetland Scrub
Soil Classification: Delray Fine Sand, Depressional (hydric)

Wetland W7L was identified in the PD&E Wetland Evaluation Report as a wetland scrub land use located in the southwest quadrant of the I-75/Fruitville Road interchange adjacent to the southbound I-75 on-ramp. This area was reviewed by ICON and SWFWMD and was determined

that this system does not meet wetland definition. This area likely receives water during high rain events but drains offsite soon after. No top-of-bank could be identified for this system. This area is the slope from the northbound I-75 on-ramp that continues outside of FDOT-owned ROW. This area is highly maintained and contains landscape vegetation.

Wetland 11 (approved under ERP permit 23484.003)

USFWS Classification: PFO2
FLUCCS Code: 621 - Cypress
Soil Classification: Eaugallie and Myakka Fine Sands

Wetland 11 (WL11) is a 0.02-acre cypress wetland located east of I-75 and north of Fruitville Road. Historically, this wetland was likely contiguous with the forested wetland to the east, but a local road now bisects the area. These two wetlands remain hydrologically connected by a culvert. This system is routinely mowed.

Dominant vegetation within WL11 includes torpedo grass, common ragweed (*Ambrosia artemisiifolia*), Peruvian primrose willow, bald cypress, Carolina willow (*Salix caroliniana*), and other ruderal species. Reliable indicators of seasonal high water and normal pool elevations were not present.

WL11 (0.02 acre) will be filled for the widening of I-75.

Wetland 12 (approved under ERP permit 23484.003)

PD&E ID: W21R
USFWS Classification: PEM1
PD&E USFWS Classification: PFO/PSS
FLUCCS Code: 641 – Freshwater Marsh
PD&E FLUCCS Code: 631/630 – Wetland Scrub/Wetland Forested Mixed
Soil Classification: Felda Fine Sand, Depressional (hydric)

Wetland 12 (WL12) is a jurisdictional, 0.15-acre herbaceous wetland located east of I-75 and north of Fruitville Road. Historically, this wetland was likely contiguous with the forested wetland to the east, but a road now bisects the area. This system is routinely mowed.

Dominant vegetation within WL12 includes common ragweed, dog fennel, caesarweed, blackberry (*Rubus* sp.), cabbage palm, wax myrtle (*Myrica cerifera*), saltbush (*Baccharis halimifolia*), Carolina willow, Peruvian primrose willow, and Brazilian pepper. Reliable indicators of seasonal high water and normal pool elevations were not present.

WL 12 (0.15 acre) will be filled for the widening of I-75.

Wetland 13 (approved under ERP permit 23484.003)

PD&E ID: W21R
USFWS Classification: PFO2
PD&E USFWS Classification: PFO/PSS

FLUCCS Code: 630 – Wetland Forested Mixed
PD&E FLUCCS Code: 631/630 – Wetland Scrub/Wetland Forested Mixed
Soil Classification: Bradenton Fine Sand (hydric)

Wetland 13 (WL13) is an isolated, 0.15-acre forested wetland located east of I-75 and north of Fruitville Road. Historically, this wetland was likely contiguous with the forested wetland to the east, but a road now bisects the area. This area appears to be completely isolated. Vegetation includes Peruvian primrose willow, Carolina willow, dog fennel, caesarweed, cabbage palm, maidencane (*Panicum hemitomon*), wax myrtle, Brazilian pepper, red maple, and laurel oak. Reliable indicators of seasonal high water and normal pool elevations were not present.

WL 13 (0.15 acre) will be filled for the widening of I-75.

Wetlands W18R (Not identified or delineated as wetland or OSW during design phase)

PD&E USFWS Classification: R2OWH
PD&E FLUCCS Code: 510 –Streams and Waterways
Soil Classification: Floridana Mucky Fine Sand (hydric)

Wetland W18R was identified in the Wetland Evaluation Report as a streams and waterways land use located in the southeast quadrant of the I-75/Fruitville interchange between the two off-ramps. This area was reviewed by ICON and SWFWMD and it was determined that this system does not meet wetland definition. It is a forested upland system with approximately 50% invasive/exotic species including Browne's blechum, Brazilian pepper, and carrotwood.

Other Surface Water Group A (OSW G-A) (Main Canal C and Fruitville Canal)– Delineated segments 2A, 2B, 2C, 2D, 2E, 4A, 4B, 8A, and 8B

PD&E ID: SW/W20R/W20Ra/W20Rb
USFWS Classification: PEM1Hx
PD&E USFWS Classification: PEMx/PABHx
FLUCCS Code: 510 – Streams and Waterways
PD&E FLUCCS Code: 510 – Streams and Waterways
Soil Classification: Floridana Mucky Fine Sand (hydric), EauGallie and Myakka Fine Sand, and Delray Fine Sand, Depressional (hydric)

Group A includes delineated other surface waters 2A, 2B, 2C, 2D, 2E, 4A, 4B, 8A, and 8B that are associated with separate segments of an excavated drainage canal (Main Canal C and Fruitville Canal) along Fruitville Road and I-75. The delineated limits are located within FDOT right-of-way and are located at top of bank. Dominant vegetation within these OSWs includes whorled marsh pennywort, alligator weed, spatterdock (*Nuphar advena*), dotted smartweed (*Persicaria punctata*), beggarticks (*Bidens alba*), hydrilla (*Hydrilla verticillata*), water lettuce (*Pistia stratiotes*), arrow arum (*Peltandra virginica*), torpedo grass, Mexican primrose willow (*Ludwigia octovalvis*), Peruvian primrose willow, cattail, and Brazilian pepper. The width and depth of these OSWs vary throughout the project. Water flows through this system and ultimately becomes Phillippi Creek. A review of historical photographs from the 1940s indicates that these OSWs were historically cropland or pasture.

Proposed impacts to OSWs in OSW G-A include partial fill and reconfiguration/relocation to support stormwater runoff.

Other Surface Water Group B (OSW G-B) – Delineated segments 3, 5, 6, 7, 9A, 9B, 9C, 10A, 10B, 11A, 11B, 12A, and 12B

PD&E ID:	SW/W8L
USFWS Classification:	PEM1Cx
PD&E USFWS Classification:	PEM
FLUCCS Code:	510 – Streams and Waterways
PD&E FLUCCS Code:	641 – Freshwater Marshes
Soil Classification:	Floridana Mucky Fine Sand (hydric), Holopaw Fine Sands, Depressional (hydric), and Delray Fine Sand, Depressional (hydric)

Group B includes delineated other surface waters 3, 5, 6, 7, 9A, 9B, 9C, 10A, 10B, 11A, 11B, 12A, and 12B that are roadside drainages located adjacent to Fruitville Road or I-75. The delineated limits are located within FDOT right-of-way and are located at top of bank. Dominant vegetation within these OSWs includes whorled marsh pennywort, torpedo grass, beggarticks, cattail, carolina redroot, Mexican primrose willow, Peruvian primrose willow, Brazilian pepper, and Carolina willow. Most of the drainages associated with OSW G-B connect under either Fruitville Road or I-75 by culvert and continue offsite. The width and depth of these OSWs changes throughout the project site. A review of historical photographs from the 1940s indicates that these OSWs were historically cropland or pasture. These OSWs occur within NRCS mapped hydric soils; however, the NRCS data was not field verified.

Proposed impacts to roadside ditches is either complete elimination or reconfiguration to support stormwater runoff.

Other Surface Water 13 (approved under ERP permit 23484.003)

PD&E ID:	SW
USFWS Classification:	PEM1Cx
PD&E USFWS Classification:	PEMx
FLUCCS Code:	510 – Streams and Waterways
PD&E FLUCCS Code:	510 – Streams and Waterways
Soil Classification:	Eaugallie and Myakka Fine Sands

Other Surface Water 13 (OSW13) is a 0.02-acre upland cut drainage that is connected under I-75 by a culvert. Dominant vegetation within OSW13 includes torpedo grass, Peruvian primrose willow, Carolina willow, bahiagrass (*Paspalum notatum*), para grass (*Urochloa mutica*), and whorled marsh pennywort.

OSW13 will be temporarily impacted by the proposed project.

Table 1. Anticipated Wetland Impacts

Wetland/OSW ID		FLUCCS Code		FLUCCS Description		Direct Impact Area (acres)	
Design	PD&E	Design	PD&E	Design	PD&E	Design	PD&E
WL1	W18Rb	621	621	Cypress	Cypress	0.08	2.31
WL2 ¹	W19R	610	617	Wetland Hardwood Forest	Mixed Wetland Hardwoods	0.47	0.46
WL3 ¹	W6L	630	621	Wetland Forested Mixed	Cypress	0.13	1.75
WL4	--	641	--	Freshwater Marshes	--	0.45	--
WL11 ²	--	621	--	Cypress	--	0.02	--
WL12 ^{1,2}	W21R	641	631/630	Freshwater Marshes	Wetland Scrub/Wetland Forested Mixed	0.15	0.80
WL13 ^{1,2}		630		Wetland Forested Mixed		0.15	
Total						1.45	5.32

¹ Isolated wetland <0.05 acre in size. Mitigation is not required for impacts to these wetlands per Part B of SWFWMD Basis of Review Section 3.2.2.1.

² Wetlands and Other Surface Waters approved under SWFWMD JD #41286.000 and ERP Permit #23484.003.

Table 2. Anticipated Other Surface Water Impacts

OSW ID		FLUCCS Code		FLUCCS Description		Direct Impact Area (acres)	
Design	PD&E	Design	PD&E	Design	PD&E	Design	PD&E
OSW G-A	SW/W20R/ W20Ra/W20Rb	510	510	Streams and Waterways	Streams and Waterways	0.21	--
OSW G-B	SW/W8L	510	641	Streams and Waterways	Freshwater Marshes	0.55	--
OSW13 ¹	SW	510	510	Streams and Waterways	Streams and Waterways	0.00	--
Total						0.76	NA

¹ Wetlands and Other Surface Waters approved under SWFWMD JD #41286.000 and ERP Permit #23484.003.

Wetland Functional Loss Assessment (UMAM)

UMAM assessments are used to determine the amount of mitigation required to offset impacts to wetlands as a result of the proposed project, pursuant to Chapter 62-345 F.A.C. The methodology was designed to assess functions provided by wetlands, the amount of those functions that are lost by a proposed project, and the amount of mitigation necessary to offset the proposed functional losses.

To calculate functional loss, the delta between the existing condition (current) scores and the proposed condition (with) scores for each impact assessment area was multiplied by the impact assessment area size to determine the lost value of wetland functions resulting from construction of the proposed project (see **Table 3**). The completed UMAM data sheets for the impacted wetlands are provided in **Appendix B**. The UMAM assessments have not yet been verified by regulatory agencies (which occurs during the agency permit review and issuance process); therefore, the mitigation requirements should be considered as estimates at this time. For SWFWMD, UMAM assessments and corresponding mitigation are not required for wetland impacts to isolated wetlands less than ½ acre in size.

The PD&E proposed 3.04 UMAM functional loss units. Design-phase proposed UMAM functional loss for SWFWMD-jurisdictional impacts is 0.18 UMAM functional loss units for direct permanent impacts and secondary impacts. UMAM functional loss for USACE-jurisdictional impacts is 0.14 units.

Avoidance and Minimization

Based on the considerations outlined in the PD&E WER document, it was determined that there is no practical alternative to the proposed construction in wetlands and that the proposed action included all practical measure to minimize harm to wetlands. The proposed project was designed to avoid and minimize construction in wetlands where practicable. Although unavoidable wetland impacts will occur, the project was designed so that work in the existing wetlands is minimized to the fullest extent while still accommodating the necessary transportation improvements. The following wetland avoidance and minimization measures have been utilized to reduce wetland impacts:

1. Reduction of maintenance berm width from 20 feet to 15 feet on the north end of Wetland 1 to minimize the wetland impact;
2. Use of wall along the west side of Wetland 1 to avoid impacts to the western side of Wetland 1;
3. Locating proposed Pond 200 adjacent to Wetland 1 to avoid direct impacts; and
4. Designing Pond 200 as a wet pond to avoid hydraulic drawdown of Wetland 1.

Table 3. Wetland Impact/Functional Loss Summary

Wetland/OSW ID		FLUCCS Code		Direct Impact Area (acres)		Direct Impact UMAM Functional Loss		Secondary Impact UMAM Functional Loss
Design	PD&E	Design	PD&E	Design	PD&E	Design	PD&E	Design
WL1	W18Rb	621	621	0.08	2.31	0.03	1.32	0.01
WL2 ¹	W19R	610	617	0.47	0.46	--	0.26	--
WL3 ¹	W6L	630	621	0.13	1.75	--	1.00	--
WL4	--	641	--	0.45	--	0.14	--	--
WL11 ²	--	621	--	0.02	--	--	--	--
WL12 ^{1,2}	W21R	641	631/ 630	0.15	0.80	--	0.46	--
WL13 ^{1,2}		630		0.15		--		--
OSW G-A	SW/ W20R/ W20Ra/ W20Rb	510	510	0.21	--	--	--	--
OSW G-B	SW/W8L	510	641	0.55	--	--	--	--
OSW13 ²	SW	510	510	0.00	--	--	--	--
Total				2.21	5.32	0.17	3.04	0.01

¹ Isolated wetland <0.05 acre in size. Mitigation is not required for impacts to these wetlands per Part B of SWFWMD Basis of Review Section 3.2.2.1.

² Wetlands and Other Surface Waters approved under SWFWMD JD #41286.000 and ERP Permit #23484.003.

In addition, impacts to other surface waters that provide suitable forage habitat (SFH) for wood storks has been minimize and avoided to the extent practicable. Impacts have been minimized by relocating (shifting) ditches and excavating new ditches to offset the loss of ditches.

An erosion control plan and BMPs will be used to avoid any potential erosion or unintended wetland impacts associated with the construction of the proposed project.

Mitigation

The PD&E WER stated that mitigation is expected to be required for wetland impacts resulting from the proposed project. Viable options identified included mitigation banking in a regional off-site mitigation area or a fund transfer to the Florida Department of Environmental Protection (FDEP) (Florida Statute 373.4137). At the time of the PD&E, the project did not fall within any private mitigation bank areas, which is the current situation. On-site mitigation was also proposed; however, the cost of acquiring additional ROW made this option less feasible.

Many of the delineated wetlands are isolated and less than ½-acre, which means that mitigation is not required for impacts to those wetlands. In addition, the isolated wetlands are anticipated to not be USACE jurisdictional; therefore, mitigation for the USACE is not anticipated. Mitigation will be provided for the wetland and other surface water impacts identified above. At a minimum, mitigation will be provided to offset the functional loss calculated utilizing UMAM. Presently the project is not located within the service area of any private mitigation banks but is located within the service area of Sarasota County's Fox Creek Regional Offsite Mitigation Area (ROMA). Given the minimal functional loss total for wetland impacts, it is proposed that hydrological and vegetative enhancement of Wetland 1 may provide sufficient functional gain to offset project impacts. The use of mitigation credits from the Fox Creek ROMA will also be considered. Mitigation options will be coordinated with regulatory and resource agencies during the project's environmental permitting process.

Permitting Requirements

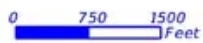
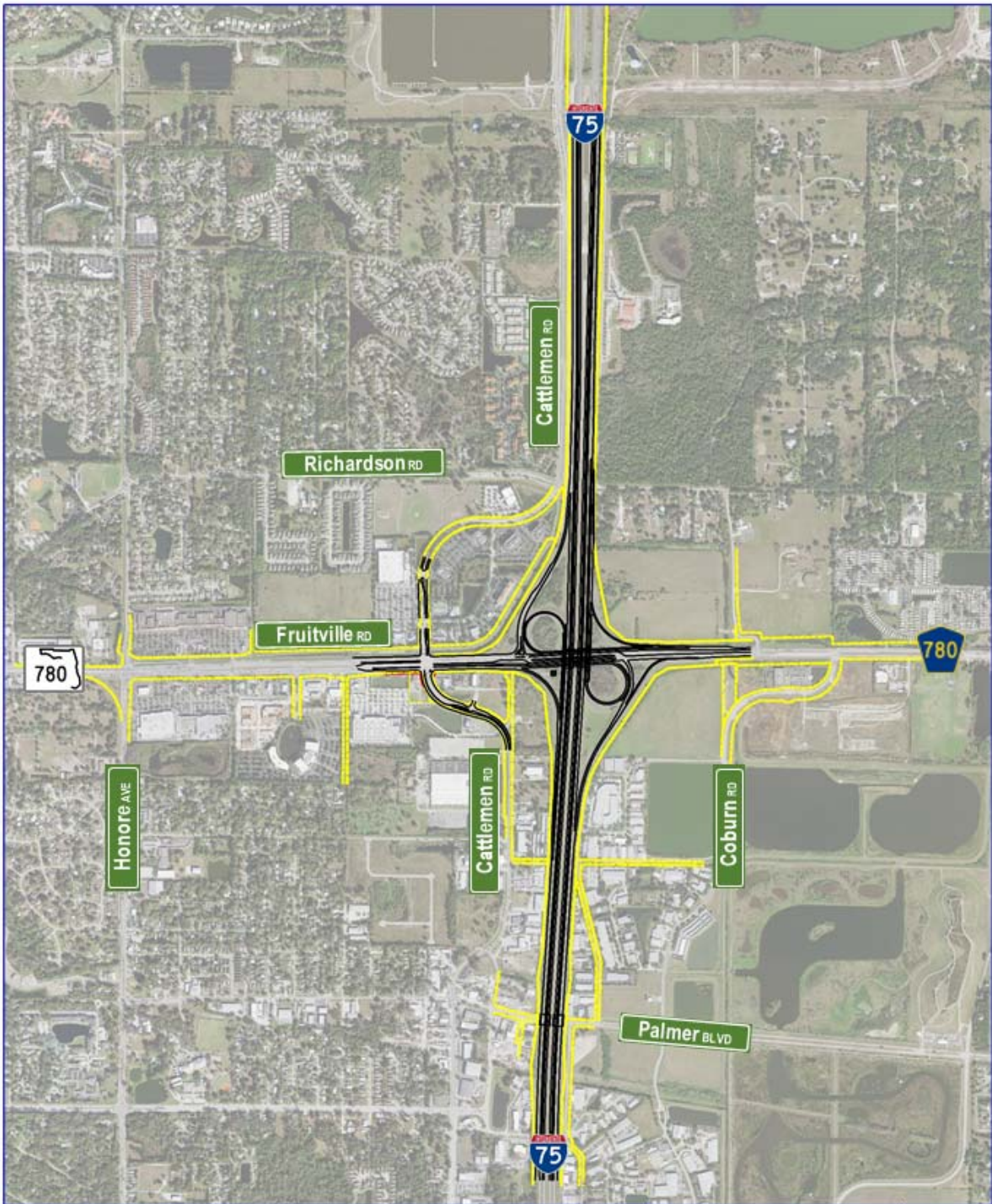
Based on the results of the re-evaluation, additional permit requirements beyond those identified in the PD&E are not required. The project will require permits from the SWFWMD, USACE, and FDEP. Specifically, the following permits are anticipated:

- SWFWMD Statewide Environmental Resource Permit (SWERP) – Individual
- USACE Section 404 – Regional General Permit SAJ-92 authorization
- FDEP – National Pollutant Discharge Elimination System General Permit for Discharges from Construction Activities

Permit application submittal to SWFWMD and USACE is anticipated in July 2018.

Summary of WER Re-evaluation Results

Based on the design-phase re-evaluation, changes to wetland and surface water impacts are proposed; however, impacts have been reduced from the impacts proposed in the PD&E. No permitting changes are anticipated since no additional permitting requirements are anticipated.

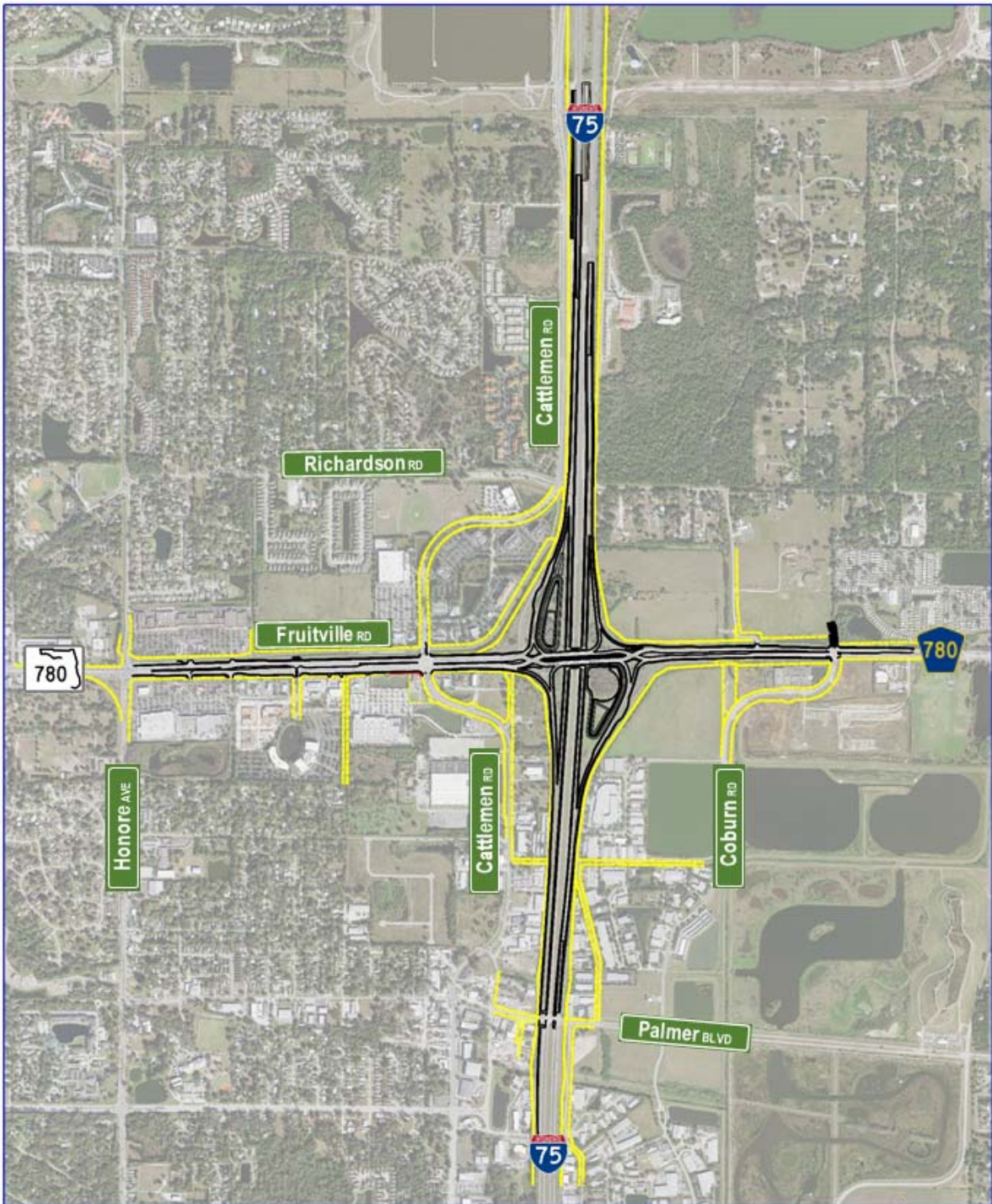


State of Florida Department of Transportation		
Road	County	Financial Project ID
93	Sarasota	420613-2-52-01

Approved PD&E Concept
Arterial Traffic Separation

Figure
1

SUSERS SDATFS STIRFS SFILFS



0 750 1500 Feet

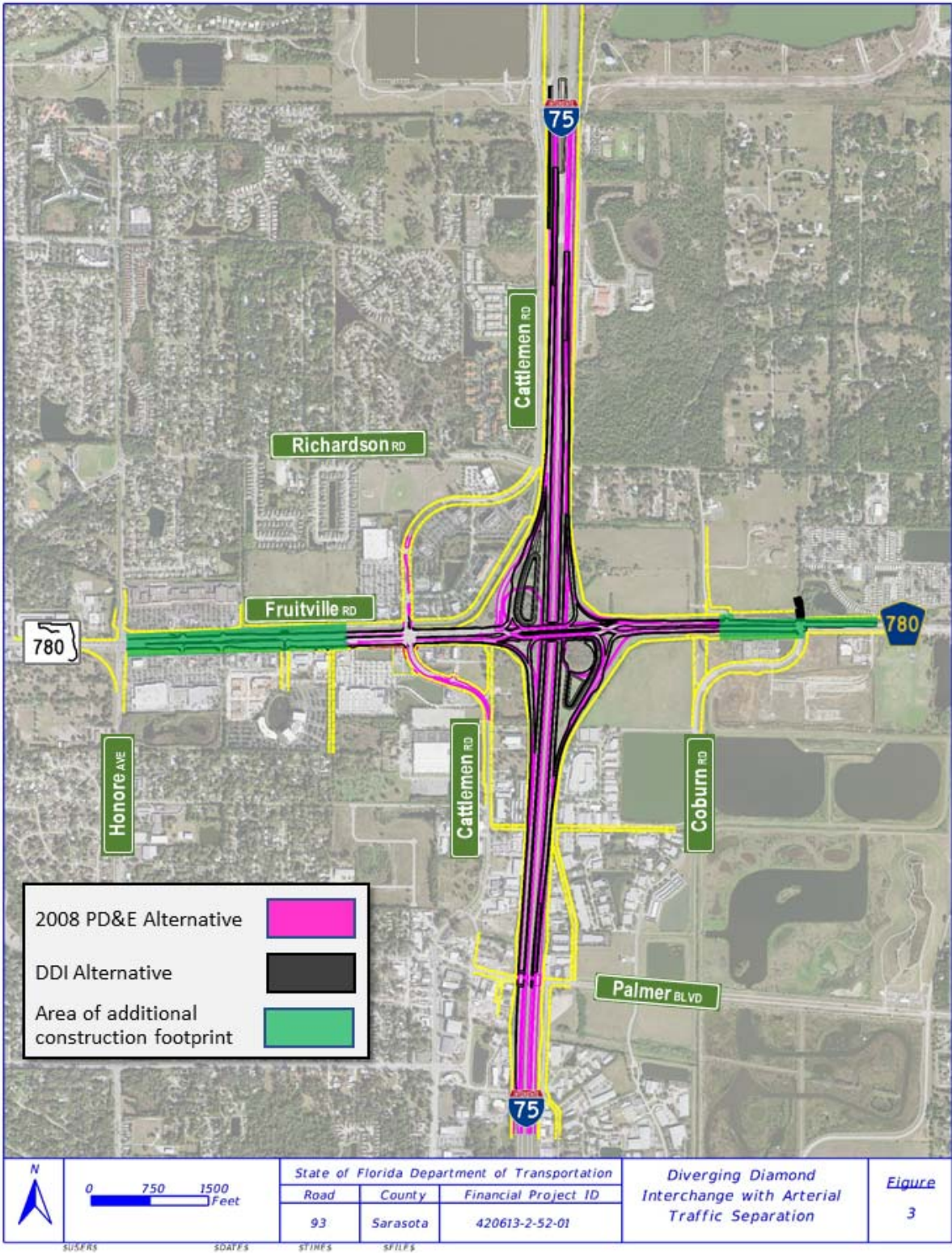
State of Florida Department of Transportation

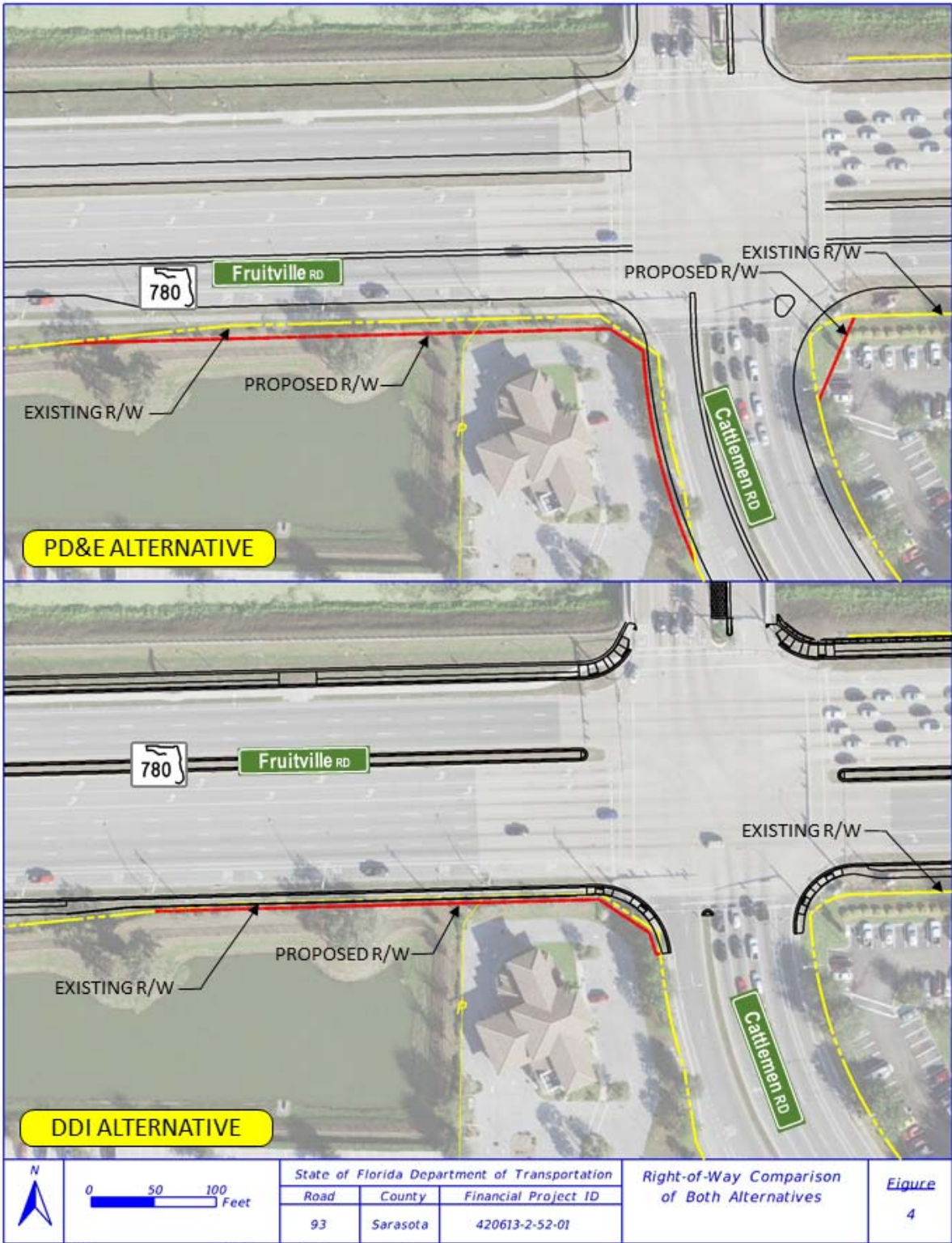
Road	County	Financial Project ID
93	Sarasota	420613-2-52-01

2016 IMR Proposed Alternative Diverging Diamond Interchange

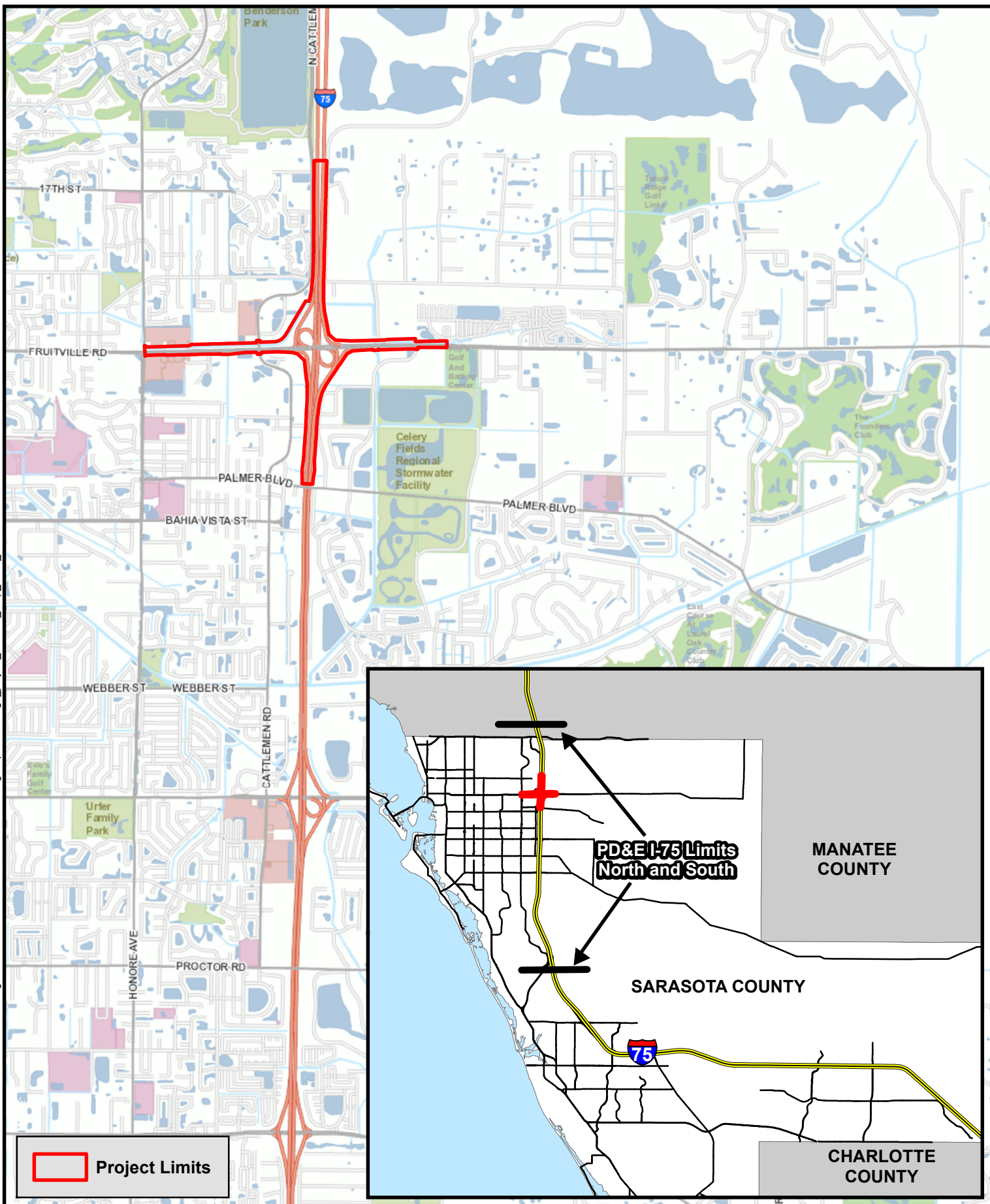
Figure 2

SUSERS SDATFS STIRFS SFILFS

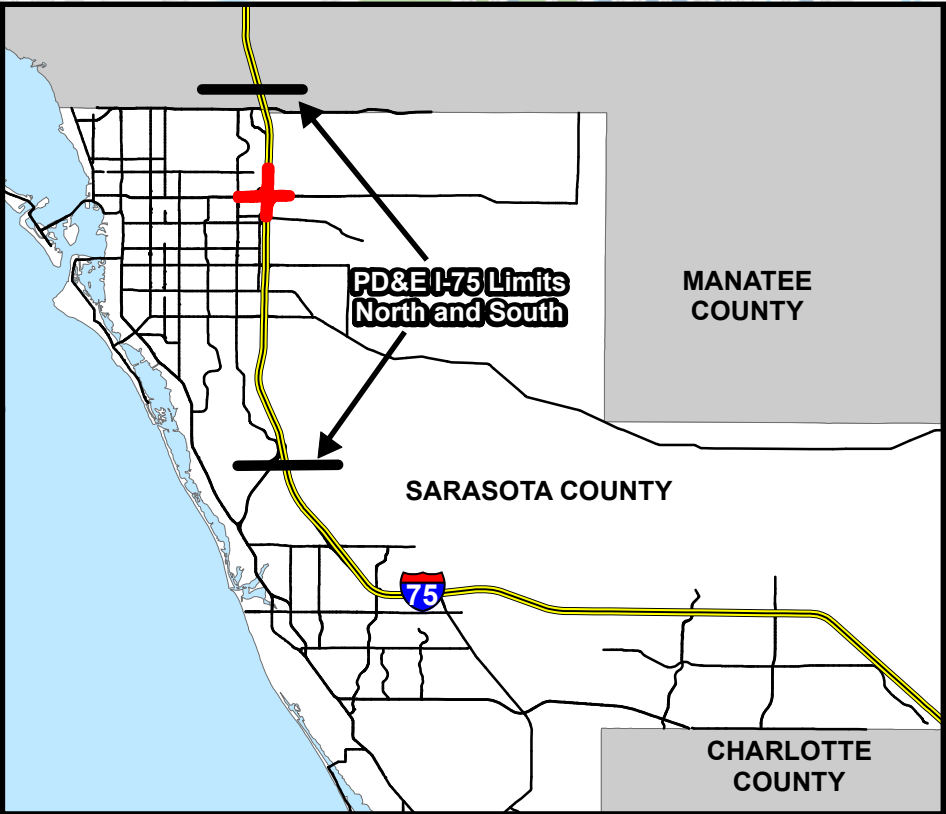




F:\Projects\42061323201-I-75 Fruitville\5.0 Environmental\5.1 Environmental\5.1.4 GIS\mxd\Permitting Maps\WER\Fig5_project_location_map_WER_20180510.mxd



 **Project Limits**

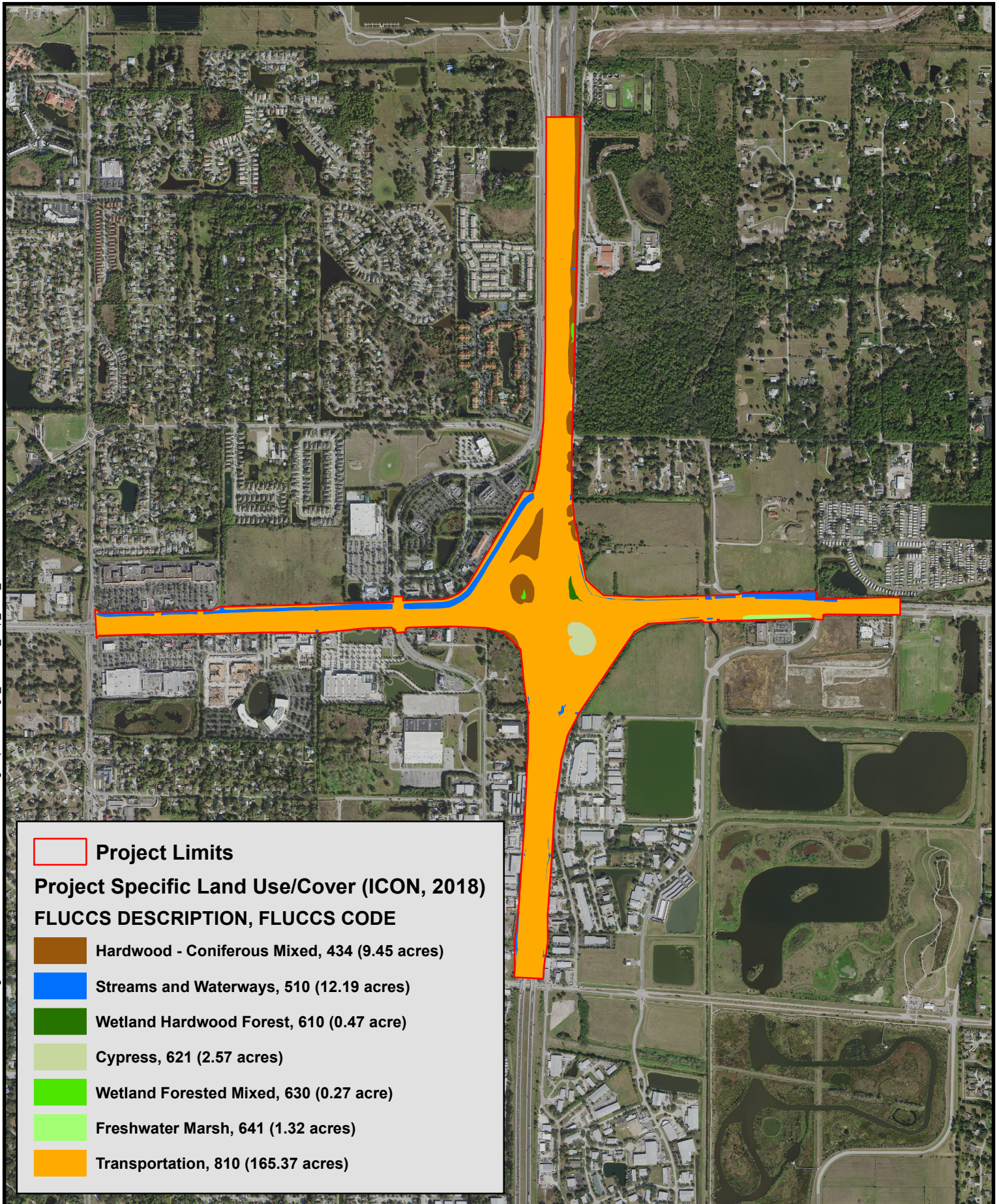


0 2,000 4,000 Feet

State of Florida Department of Transportation		
Road	County	Financial Project ID
93	Sarasota	420613-2-52-01

Project Location Map
I-75 at Fruitville Road (SR 780)
Interchange Improvements
WER Addendum

Figure
5



Project Limits

Project Specific Land Use/Cover (ICON, 2018)

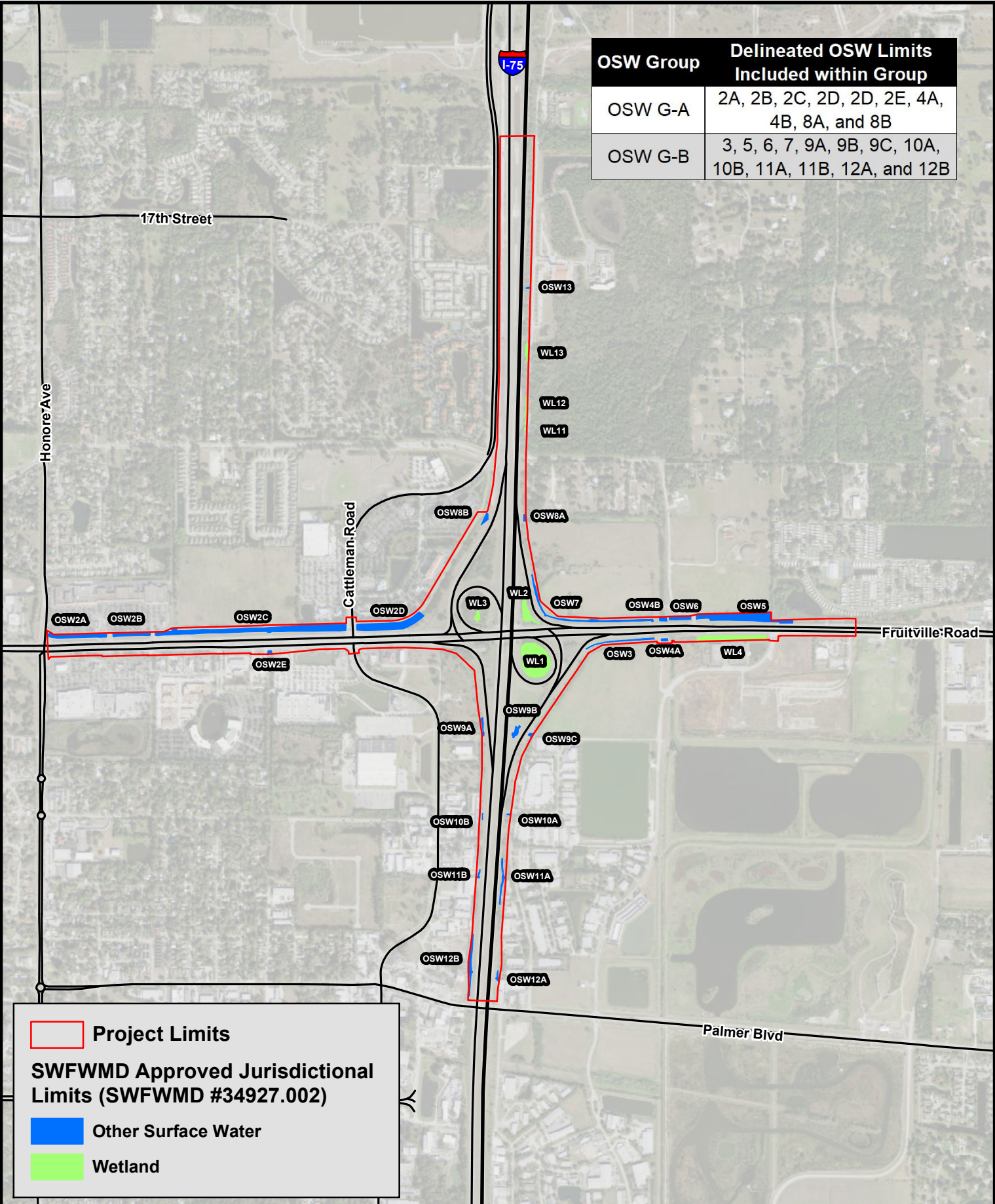
FLUCCS DESCRIPTION, FLUCCS CODE

- Hardwood - Coniferous Mixed, 434 (9.45 acres)
- Streams and Waterways, 510 (12.19 acres)
- Wetland Hardwood Forest, 610 (0.47 acre)
- Cypress, 621 (2.57 acres)
- Wetland Forested Mixed, 630 (0.27 acre)
- Freshwater Marsh, 641 (1.32 acres)
- Transportation, 810 (165.37 acres)

			State of Florida Department of Transportation			FLUCCS Map I-75 at Fruitville Road (SR 780) Interchange Improvements WER Addendum	Figure 6
	Road	County	Financial Project ID				
	93	Sarasota	420613-2-52-01				

5/10/2018 10:00:55 AM Author: C.Stiegler Coordinate System: NAD 1983 StatePlane Florida West FIPS 0902 Feet

OSW Group	Delineated OSW Limits Included within Group
OSW G-A	2A, 2B, 2C, 2D, 2E, 4A, 4B, 8A, and 8B
OSW G-B	3, 5, 6, 7, 9A, 9B, 9C, 10A, 10B, 11A, 11B, 12A, and 12B

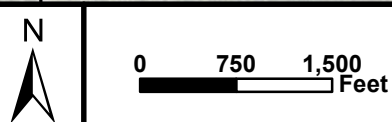


Project Limits

SWFWMD Approved Jurisdictional Limits (SWFWMD #34927.002)

Other Surface Water

Wetland



State of Florida Department of Transportation		
Road	County	Financial Project ID
93	Sarasota	420613-2-52-01

Wetland and Other Surface Water Location Map
I-75 at Fruitville Road (SR 780) Interchange Improvements
WER Addendum

Figure
7

F:\Projects\42061323201 I-75 Fruitville\5.0 Environmental\5.1 Environmental\5.1.4 GIS\mxd\Permitting Maps\WER\Fig_7_wetland_map_WER_20180510.mxd



Appendix A

Approved Petition for Formal Determination of Wetlands and Other Surface Waters



An Equal
Opportunity
Employer

Southwest Florida Water Management District

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

2379 Broad Street, Brooksville, Florida 34604-6899

(352) 796-7211 or 1-800-423-1476 (FL only)

TDD only: 1-800-231-6103 (FL only)

On the Internet at WaterMatters.org

July 11, 2017

Florida Department of Transportation
Attn: Nicole Monies
801 North Broadway Avenue
Bartow, FL 33830

Subject: **Notice of Intended Agency Action - Approval**
Petition for Formal Determination of Wetlands and Other Surface Waters
Petition No.: 741590/42034927.002
Project Name: I-75 at Fruitville Road (SR 780) Interchange Improvements
County: Sarasota
Sec/Twp/Rge: S30/T36S/R19E, S13/T36S/R18E, S19/T36S/R19E, S25/T36S/R18E,
S23/T36S/R18E, S18/T36S/R19E, S24/T36S/R18E

Dear Permittee:

The Southwest Florida Water Management District (District) has completed its review of the petition for Formal Determination of Wetlands and Other Surface Waters. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the petition.

The File of Record associated with this application can be viewed at www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact Lauren Greenfield at the Tampa Service Office, extension 2324.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: Ryan Horstman



An Equal
Opportunity
Employer

Southwest Florida Water Management District

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
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TDD only: 1-800-231-6103 (FL only)

On the Internet at WaterMatters.org

July 11, 2017

Florida Department of Transportation
Attn: Nicole Monies
801 North Broadway Avenue
Bartow, FL 33830

Subject: **Notice Agency Action Letter - Approval**
Petition for Formal Determination of Wetlands and Other Surface Waters
Petition No.: 741590/42034927.002
Project Name: I-75 at Fruitville Road (SR 780) Interchange Improvements
County: Sarasota
Sec/Twp/Rge: S30/T36S/R19E, S13/T36S/R18E, S19/T36S/R19E, S25/T36S/R18E,
S23/T36S/R18E, S18/T36S/R19E, S24/T36S/R18E

Dear Permittee:

The Southwest Florida Water Management District (District) is in receipt of your petition for Formal Determination of Wetlands and Other Surface Waters. Based upon a review of the information you submitted, the petition is approved. Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the petition described in this letter.

Approved surveys are available for viewing or downloading through the District's Application and Permit Search Tools located at www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, is available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, Lauren Greenfield at the Tampa Service Office, extension 2324.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Approved Formal Determination of Wetlands and Other Surface Waters
 Notice of Rights

cc: Ryan Horstman

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
FORMAL DETERMINATION OF WETLANDS AND OTHER SURFACE WATERS
No. 741590/42034927.002**

EXPIRATION DATE:

July 11, 2022

FORMAL DETERMINATION ISSUED DATE

July 11, 2017

This Formal Determination of Wetlands and Other Surface Waters No. 741590/42034927.002 is issued under the provisions of Section 373.421, Florida Statutes (F.S.) and 62-330.201, Florida Administrative Code (F.A.C.). This Formal Determination consists of the District's determination of the locations on the property of the landward extent (boundaries) of wetlands and other surface waters based on the documentation consisting of a certified survey submitted by the Petitioner. This Formal Determination does not authorize any construction activities or constitute conceptual approval of any anticipated projects. Construction, alteration, operation, removal or abandonment of a surface water management system requires a permit from the District pursuant to Rule 62-330.020, Florida Administrative Code (F.A.C.), and Section 373.413, Florida Statutes (F.S.), unless exempt pursuant to 62-330.051 or 62-330.0511, F.A.C., or 373.406, F.S. This Formal Determination does not in any way establish boundaries of sovereign submerged lands.

PROJECT NAME:

I-75 at Fruitville Road (SR 780) Interchange Improvements

GRANTED TO:

Florida Department of Transportation
Attn: Nicole Monies
801 North Broadway Avenue
Bartow, FL 33830

ABSTRACT: The landward extent of wetlands and/or other surface waters was established by Ryan Horstman of Icon Consulting Group, Inc. These boundaries were identified by applying the rule criteria of Chapter 62-340, F.A.C. Agency review of the site for the potential presence of wetlands and surface waters and verification of the wetland and surface water boundaries, were conducted by District Environmental Scientist Lauren Greenfield during a site inspection, with Ryan Horstman, on March 13, 2017. A certified survey, dated June 22, 2017, signed and sealed by Thomas M. Halstead, Professional Surveyor and Mapper, License #5770, State of Florida, which depicts the wetland and surface water boundaries, was received on July 6, 2017. To view the survey, please visit <http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx> to locate the formal determination record and view the documents associated with this file. The 164.55-acre site contains 14.4057 acres of wetlands and surface waters.

COUNTY:

Sarasota

SEC/TWP/RGE:

S30/T36S/R19E, S13/T36S/R18E, S19/T36S/R19E, S25/T36S/R18E,
S23/T36S/R18E, S18/T36S/R19E, S24/T36S/R18E

PROJECT ACRES:

164.55

**WETLAND AND OTHER
SURFACE WATER ACRES:**

14.4057

CURRENT LAND USE:

ROAD PROJECTS

DATE PETITION FILED:

February 14, 2017

Pursuant to Subsection 373.421 (4), F.S., the Governing Board may revoke the Formal Wetland Determination upon a finding that the Petitioner has submitted inaccurate information to the District.

The Formal Wetland Determination shall be binding for the stated duration provided physical conditions on the property do not change so as to alter the boundaries of wetlands and other surface waters during that period.

Documents depicting the landward extent (boundaries) of wetlands and other surface waters are hereby incorporated into this petition by reference and the Petitioner shall comply with them. These documents are available for viewing or downloading at www.WaterMatters.org.

Michelle K. Hopkins, P.E.

Authorized Signature

Notice of Rights

Administrative Hearing

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.
2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of sovereignty submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.
3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.
4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.
5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended action is not available prior to the filing of a petition for hearing.
6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C., can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.
7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 US Hwy 301, Tampa, FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9776. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

Judicial Review

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9.110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.



Appendix B

Uniform Mitigation Assessment Method (UMAM) Data Sheets

(Preliminary – Pending Agency Review)

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements		Application Number TBD		Assessment Area Name or Number WL1 (Direct)	
FLUCCs code 621 - Cypress		Further classification (optional) PFO2		Impact or Mitigation Site? Impact	
Assessment Area Size 0.08 Acres					
Basin/Watershed Name/Number Phillippi Creek		Affected Waterbody (Class) Class III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands					
This cypress system is located southeast of the I-75/Fruitville Road interchange, east of I-75, within the existing FDOT owned right of way. This wetland is located between the I-75 mainline to the west and an off-ramp to the east. The only connectivity to other wetland and surface waters is through the existing outfall to ditches on the east.					
Assessment area description					
The assessment area includes the northern fringe of a cypress system located within FDOT owned ROW. Wildlife access is poor. The cypress system was constructed as a stormwater conveyance system to recieve runoff from I-75 and Fruitville Road. The AA begins at the toe-of slope of the slope from Fruitville Road and the adjacent off-ramp. Hydrology is minimal within the AA.					
Significant nearby features I-75 and Fruitville Road		Uniqueness (considering the relative rarity in relation to the regional landscape.) This type of system is not unique.			
Functions Water quality and reptile and amphibian habitat.		Mitigation for previous permit/other historic use No.			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Reptiles and amphibians.		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Minimal potential forage habitat for wood stork (T).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):					
Additional relevant factors:					
Assessment conducted by: R. Horstman and C. Stiegler		Assessment date(s): 12/07/16			

Form 62-345.900(1), F.A.C. [effective date]

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name: I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements	Application Number: TBD	Assessment Area Name or Number: WL1 (Direct)
Impact or Mitigation: Impact	Assessment Conducted by: R. Horstman and C. Stiegler	Assessment Date: 12/07/16

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

		Current	With Impact
.500(6)(a) Location and Landscape Support	a. Quality and quantity of habitat support outside of AA.	Poor - Surrounded by the I-75/Fruitville Road corridor.	All functions lost. Area to be filled.
	b. Invasive plant species.	Moderate - Herb and sapling stratus have invasives present	
	c. Wildlife access to and from AA (proximity and barriers).	Poor - Surrounded by I-75, Fruitville Road, and associated on/off ramps.	
	d. Downstream benefits provided to fish and wildlife.	Minimal - Very limited connectivity.	
	e. Adverse impacts to wildlife in AA from land uses outside of AA.	Significant - AA surrounded by heavily utilized roads.	
	f. Hydrologic connectivity (impediments and flow restrictions).	Minimal connectivity to downstream through culverts.	
	g. Dependency of downstream habitats on quantity or quality of discharges.	Low dependence	
	h. Protection of wetland functions provided by uplands upland AAs only).	N/A	
Current	With Impact		

2 **0** Notes: Adjacent land use types outside the assessment area are of poor quality and include industrial, utilities, commercial and services, reservoirs, and other land use types common to developed areas. Wildlife access to the land use types listed above is limited due to the amount of development in the surrounding area and the roads surrounding the wetland. The stormwater pipe associated with this wetland is below wetland grade. Other than during heavy storm events, this wetland does not appear to hold standing water.

		Current	With Impact
.500(6)(b) Water Environment (n/a for uplands)	a. Appropriateness of water levels and flows	Water levels and flow were not observed.	All functions lost. Area to be filled.
	b. Reliability of water level indicators	No reliable water level indicators present.	
	c. Appropriateness of soil moisture	Soil was saturated.	
	d. Flow rates /points of discharge.	One culvert below wetland grade.	
	e. Fire frequency /severity.	N/A	
	f. Type of vegetation	All species either FAC, FACW, or OBL and a moderate amount of invasive species present.	
	g. Hydrologic stress on vegetation.	Not apparent	
	h. Use by animals with hydrologic requirements.	None observed	
	i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	None	
	j. Water quality of standing water by observation (i.e., discoloration, turbidity).	No standing water observed	
Current	With Impact		

4 **0** Notes: Hydric soils were present within the AA. No water dependent animal species were observed. Road runoff from I-75 to the west and Fruitville Road to the north are likely having an adverse impact on water quality within WL 1. The stormwater pipe associated with this wetland is below wetland grade. Other than during heavy storm events, this wetland does not appear to hold standing water.

		Current	With Impact
.500(6)(c) Community Structure	I. Appropriate/desirable species	Approx. 60-70% desirable	All functions lost. Area to be filled.
	II. Invasive/exotic plant species	Present at 30-40% primarily in the sapling and herb stratus	
	III. Regeneration/recruitment	Minimal desirable.	
	IV. Age, size distribution.	Poor - Planted cypress	
	V. Snags, dens, cavity, etc.	None observed.	
	VI. Plants' condition.	Appropriate	
	VII. Land management practices.	ROW maintenance around the wetland.	
	VIII. Topographic features (refugia, channels, hummocks).	Few.	
	IX. Submerged vegetation (only score if present).	N/A	
	X. Upland assessment area	N/A	
Current	With Impact		

6 **0** Notes: Dominant vegetation within W1 includes planted cypress (*Taxodium* spp.), red maple (*Acer rubrum*), carrotwood (*Cupaniopsis anacardioides*), Chinese privet (*Ligustrum sinense*), red mulberry (*Morus rubra*), wax myrtle (*Myrica cerifera*), laurel oak (*Quercus laurifolia*), cabbage palm (*Sabal palmetto*), Brazilian pepper (*Schinus terebinthifolius*), alligator weed (*Alternanthera philoxeroides*), whorled pennywort (*Hydrocotyle verticillata*), Peruvian primrose willow (*Ludwigia peruviana*), and Browne's blechnum (*Fuellia blechnum*).

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.40	0.00

Impact Acres = 0.08

Functional Loss (FL)
 [For Impact Assessment Areas]:
 FL = ID x Impact Acres = 0.03

Impact Delta (ID)
 Current - w/Impact = 0.40

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigation bank.

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements		Application Number TBD		Assessment Area Name or Number WL1 (Secondary)	
FLUCCs code 621 -Cypress		Further classification (optional) PFO2		Impact or Mitigation Site? Impact	
Assessment Area Size 0.11 Acres					
Basin/Watershed Name/Number Phillippi Creek		Affected Waterbody (Class) Class III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands					
This cypress system is located southeast of the I-75/Fruitville Road interchange, east of I-75, within the existing FDOT owned right of way. This wetland is located between the I-75 mainline to the west and an off-ramp to the east. The only connectivity to other wetland and surface waters is through the existing cross drain that is connected to forested wetlands to the east.					
Assessment area description					
The assessment area includes the northern fringe of a cypress system located within FDOT owned ROW. Wildlife access is poor. The cypress system was constructed as a stormwater conveyance system to receive runoff from I-75 and Fruitville Road. The AA begins at the toe-of slope of the slope from Fruitville Road and the adjacent off-ramp. Hydrology is minimal within the AA.					
Significant nearby features I-75 and Fruitville Road		Uniqueness (considering the relative rarity in relation to the regional landscape.) This type of system is not unique.			
Functions Water quality and reptile and amphibian habitat.		Mitigation for previous permit/other historic use No.			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Reptiles and amphibians.		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Minimal potential forage habitat for wood stork (T).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):					
Additional relevant factors:					
Assessment conducted by: R. Horstman and C. Stiegler		Assessment date(s): 12/07/16			

Form 62-345.900(1), F.A.C. [effective date]

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name: I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements	Application Number: TBD	Assessment Area Name or Number: WL1 (Secondary)
Impact or Mitigation: Impact	Assessment Conducted by: R. Horstman and C. Stiegler	Assessment Date: 12/07/16

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

		Current		With Impact
.500(6)(a) Location and Landscape Support	a. Quality and quantity of habitat support outside of AA.	Poor - Surrounded by the I-75/Fruitville Road corridor.		No change.
	b. Invasive plant species.	Moderate - Herb and sapling stratus have invasives present.		Potential for increased invasion.
	c. Wildlife access to and from AA (proximity and barriers).	Poor - Surrounded by I-75, Fruitville Road, and associated on/off ramps.		No change.
	d. Downstream benefits provided to fish and wildlife.	Minimal - Very limited connectivity.		No change.
	e. Adverse impacts to wildlife in AA from land uses outside of AA.	Significant - AA surrounded by heavily utilized roads.		No change.
	f. Hydrologic connectivity (impediments and flow restrictions).	Minimal connectivity to downstream through culverts.		No change.
	g. Dependency of downstream habitats on quantity or quality of discharges.	Low dependence		No change.
	h. Protection of wetland functions provided by uplands (upland AAs only).	N/A		N/A
Current		With Impact		
3	2	Notes:	The Location and Landscape score is reduced due to the adjacent direct fill impact. The secondary impact area is anticipated to transition to a fringe condition similar to the area currently proposed for direct impact.	

		Current		With Impact
.500(6)(b) Water Environment (n/a for uplands)	a. Appropriateness of water levels and flows.	Water levels and flow were not observed.		No change or improvement.
	b. Reliability of water level indicators.	No reliable water level indicators present.		No change or improvement.
	c. Appropriateness of soil moisture.	Soil was saturated.		No change or improvement.
	d. Flow rates /points of discharge.	One culvert below wetland grade.		No change.
	e. Fire frequency /severity.	N/A		N/A
	f. Type of vegetation.	All species either FAC, FACW, or OBL and a moderate amount of invasive species present.		No change or improvement.
	g. Hydrologic stress on vegetation.	Not apparent		No change or improvement.
	h. Use by animals with hydrologic requirements.	None observed		No change.
	i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	None		None
	j. Water quality of standing water by observation (i.e., discoloration, turbidity).	No standing water observed		No change.
Current		With Impact		
4	4	Notes:	The Water Environment conditions will be unchanged or improved. Improvement is anticipated through the enhancement of the hydrological regime with the construction of the proposed pond and revisions to the outfall conditions.	

		Current		With Impact
.500(6)(c) Community Structure	I. Appropriate/desirable species	Approx. 60-70% desirable		Potential for invasive/nuisance vegetation increase.
	II. Invasive/exotic plant species	Present at 30-40% primarily in the sapling and herb stratus.		Potential for invasive/nuisance vegetation increase.
	III. Regeneration/recruitment	Minimal		No change.
	IV. Age, size distribution.	Poor		No change.
	V. Snags, dens, cavity, etc.	None observed.		No change.
	VI. Plants' condition.	Appropriate		No change.
	VII. Land management practices.	ROW maintenance around the wetland.		No change.
	VIII. Topographic features (refugia, channels, hummocks).	Few.		No change.
	IX. Submerged vegetation (only score if present).	N/A		N/A
	X. Upland assessment area	N/A		N/A
Current		With Impact		
6	5	Notes:	Vegetation may be slightly impacted as a result of the adjacent direct impact and the associated disturbance.	

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.43	0.37

Impact Acres =	0.11
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Functional Loss (FL) [For Impact Assessment Areas]:	
FL = ID x Impact Acres =	0.01

Impact Delta (ID)	
Current - w/Impact	0.06

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigation bank.

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART I - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.400 F.A.C.)

Site/Project Name I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements		Application Number TBD		Assessment Area Name or Number WL4 (Direct)	
FLUCCs code 641 - Freshwater Marsh		Further classification (optional) PEM1		Impact or Mitigation Site? Impact	
Assessment Area Size 0.45 Acres					
Basin/Watershed Name/Number Phillippi Creek		Affected Waterbody (Class) Class III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands This freshwater water system is located between Fruitville Road and the Fruitville Public Library, east of I-75, within the existing FDOT owned right of way. This wetland has a steep bank from the adjacent roadway and from the library parking lot and received water from direct precipitation and surface runoff. The only connectivity to other wetland and surface waters is through the existing cross drain that is connected to a surface waters to the east.					
Assessment area description The assessment area includes the freshwater marsh system located within FDOT owned ROW. Wildlife access is poor. This freshwater marsh system was constructed to function as a stormwater conveyance system to receive runoff from Fruitville Road and the Fruitville Public Library parking lot. The AA begins at the toe-of-slope from Fruitville Road. Hydrology is minimal within the AA.					
Significant nearby features Fruitville Road and the Fruitville Public Library		Uniqueness (considering the relative rarity in relation to the regional landscape.) This type of system is not unique.			
Functions Water quality and reptile and amphibian habitat.		Mitigation for previous permit/other historic use No.			
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Reptiles, and amphibians.		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Minimal potential forage habitat for wood stork (T).			
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):					
Additional relevant factors:					
Assessment conducted by: R. Horstman and C. Stiegler		Assessment date(s): 12/08/16			

Form 62-345.900(1), F.A.C. [effective date]

UNIFORM WETLAND MITIGATION ASSESSMENT WORKSHEET - PART II - IMPACT
Form 62-345.900(2), F.A.C. (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name: I-75 (SR 93) at SR 780 (Fruitville Road) Interchange Improvements	Application Number: TBD	Assessment Area Name or Number: WL4 (Direct)
Impact or Mitigation: Impact	Assessment Conducted by: R. Horstman and C. Stiegler	Assessment Date: 12/08/16

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

		Current		With Impact
.500(6)(a) Location and Landscape Support	a. Quality and quantity of habitat support outside of AA.	Poor - Surrounded by the Fruitville Road corridor and the Fruitville Public Library.		All functions lost. Area to be filled.
	b. Invasive plant species.	Moderate - Herb and sapling stratus have invasives present		
	c. Wildlife access to and from AA (proximity and barriers).	Poor - Surrounded by Fruitville Road and the Fruitville Public Library.		
	d. Downstream benefits provided to fish and wildlife.	Minimal - Very limited connectivity.		
	e. Adverse impacts to wildlife in AA from land uses outside of AA.	Significant - AA surrounded by heavily utilized roads and developed areas.		
	f. Hydrologic connectivity (impediments and flow restrictions).	Minimal connectivity to downstream through culverts.		
	g. Dependency of downstream habitats on quantity or quality of discharges.	Low dependence		
	h. Protection of wetland functions provided by uplands upland AAs only).	N/A		
Current	With Impact			

3 **0** Notes: Adjacent land use types outside the assessment area are of poor quality and includes industrial, utilities, commercial and services, reservoirs, and other land use types common to developing areas. Wildlife access to the land use types listed above is limited due to the amount of development in the surrounding area and the location of the wetland. Other than during heavy storm events, this wetland does not appear to hold standing water.

		Current		With Impact
.500(6)(b) Water Environment (n/a for uplands)	a. Appropriateness of water levels and flows	Water levels and flow were not observed.		All functions lost. Area to be filled.
	b. Reliability of water level indicators.	No reliable water level indicators present.		
	c. Appropriateness of soil moisture.	Soil was saturated.		
	d. Flow rates /points of discharge.	One culvert connected to a surface water associated with this wetland.		
	e. Fire frequency /severity.	N/A		
	f. Type of vegetation	All species either FAC, FACW, or OBL and a moderate amount of invasive species present.		
	g. Hydrologic stress on vegetation.	Not apparent		
	h. Use by animals with hydrologic requirements.	Non observed		
	i. Plant community composition associated with water quality (i.e., plants tolerant of poor WQ).	None		
	j. Water quality of standing water by observation (i.e., discoloration, turbidity).	No standing water observed		
Current	With Impact			

4 **0** Notes: Hydric soils were present within the AA. No water dependent animal species were observed. Road runoff from Fruitville Road to the north and the Fruitville Public Library to the south are likely having an adverse impact on water quality within WL4. Other than during heavy storm events, this wetland does not appear to hold standing water.

		Current		With Impact
.500(6)(c) Community Structure	I. Appropriate/desirable species	Approx. 15-25% desirable		All functions lost. Area to be filled.
	II. Invasive/exotic plant species	Present at 75-85%		
	III. Regeneration/recruitment	Minimal		
	IV. Age, size distribution.	Poor		
	V. Snags, dens, cavity, etc.	None observed.		
	VI. Plants' condition.	Appropriate		
	VII. Land management practices.	ROW maintenance around the wetland.		
	VIII. Topographic features (refugia, channels, hummocks).	Few.		
	IX. Submerged vegetation (only score if present).	N/A		
	X. Upland assessment area	N/A		
Current	With Impact			

2 **0** Notes: Dominant vegetation within WL4 includes alligator weed (*Alternanthera philoxeroides*), whorled marsh pennywort (*Hydrocotyle verticillata*), torpedo grass (*Panicum repens*), cattail (*Typha latifolia*), Carolina reedroot (*Lachnanthes carolina*), bull tongue arrowhead (*Sagittaria lancifolia*), Brazilian pepper (*Schinus terebinthifolius*), and Peruvian primrose willow (*Ludwigia peruviana*).

Raw Score = Sum of above scores/30 (if uplands, divide by 20)

Current	With Impact
0.30	0.00

Impact Acres = 0.45

Functional Loss (FL)
 [For Impact Assessment Areas]:
 FL = ID x Impact Acres = 0.14

Impact Delta (ID)
 Current - w/Impact = 0.30

NOTE: If impact is proposed to be mitigated at a mitigation bank that was assessed using UMAM, then the credits required for mitigation is equal to Functional Loss (FL). If impact mitigation is proposed at a mitigation bank that was not assessed using UMAM, then UMAM cannot be used to assess impacts; use the assessment method of the mitigation bank.