



**DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT  
415 RICHARD JACKSON BOULEVARD, SUITE 411  
PANAMA CITY BEACH, FLORIDA, 32407**

**August 10, 2020**

Regulatory Division  
North Permits Branch  
Panama City Permits Section

***PUBLIC NOTICE***

Permit Application No. SAJ-2018-02189 (SP-CDO)

**TO WHOM IT MAY CONCERN:** The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) as described below:

**APPLICANT:** Florida Department of Transportation, District 1  
Ms. Nicole Monies  
801 N. Broadway Avenue  
Bartow, Florida 33830

**WATERWAY AND LOCATION:** The project would affect waters of the United States, including wetlands and the Manatee River, associated with the Interstate 75 (I-75) transportation improvements. The Florida Department of Transportation (FDOT) District 1 proposes to construct transportation improvements along I-75 (State Road (SR) 93)), from north of SR 64 to north of US 301 (SR 25). The project entails constructing two additional lanes, widening bridges, two new bridges over Manatee River, and associated roadway improvements. The project also includes the improvement of the interchange at US 301 and I-75 and a segment of US 301 extending from 51<sup>st</sup> Avenue East to east of 60<sup>th</sup> Avenue East. The project is located in Sections 8, 9, 16, 21, 22, 26, and 27 of Township 34 South, Range 18 East, Bradenton and Ellenton, Manatee County, Florida.

Directions to the site are as follows: From downtown Tampa, take I-4 east to I-75, take I-75 south approximately 37 miles to I-75 at US 301 interchange.

**APPROXIMATE CENTRAL COORDINATES:** Latitude 27.509167° N,  
Longitude -82.497778° W

**PROJECT PURPOSE:**

Basic: Linear Transportation

Overall: The overall project purpose is to increase transportation capacity within the I-75 corridor from north of SR 64 to north of US 301 and to redesign the interchange at US 301 to enhance system mobility and accommodate travel demand associated with approved development within the surrounding area of the proposed project site.

EXISTING CONDITIONS: The proposed project site exists within the I-75 corridor and US 301 interchange with existing bridges over Manatee River and associated salt marsh. The entire project site is comprised of the I-75 Corridor from north of SR 64 to north of US 301 interchange (FPID 2012032-5). The project site is 299.73 acres, the following is a breakdown of the land uses within the project corridor:

Uplands within the proposed project comprise of 74.6% of the project and are located throughout the site consisting of residential (120 & 130), commercial and services (140), tourist services (145), open land (260), pine flatwoods (411), hardwood-coniferous mixed (434), disturbed lands (740), and roads and highways (814).

Wetlands, surface waters and other surface waters within the project comprise approximately 25.4% of the project and are located throughout the site consisting of other surface water (OSW) (510D), streams and waterways (510E), stormwater management areas (534), mangrove swamps (612), mixed wetland hardwoods (617), cypress-pine-cabbage palm (624), wetland forested mixed (630), freshwater marsh (641), and salt marsh (642).

OSW and storm water management areas are man-made, functioning stormwater systems associated with previous construction of I-75. Both support herbaceous vegetation consisting of alligator weed (*Alternanthera philoxeroides*), and maidencane (*Panicum hemitomon*), Peruvian primrose willow (*Ludwigia peruviana*), Carolina willow (*Salix caroliniana*), Brazilian pepper (*Schinus terebinthifolia*) and cattails (*Typha sp.*). The open water center is vegetated with water lettuce (*Pistia stratiotes*).

Surface waters are located within the proposed project site and are comprised of streams and waterways. They consist of tidally influenced open water channels of the Manatee River and associated tributary.

Mangrove swamps are located within the central portion of the project from Manatee River south to tributary. Vegetation within these areas are predominately red mangroves (*Rhizophora mangle*), black mangroves (*Avicennia germinans*), and white mangroves (*Laguncularia racemosa*) with Brazilian pepper, sea-purslane (*Sesuvium sp.*), and salt grass (*Distichlis spicata*).

Mixed wetlands hardwoods are located at the southern portion of the proposed project and are comprised of vegetation that consists of red maple (*Acer rubrum*), Carolina willow, laurel oak (*Quercus laurifolia*), American elm (*Ulmus americana*), and cabbage palm (*Sabal palmetto*).

Cypress-pine-cabbage palm habitat type is found in the bifurcated median of I-75, north of the tributary bridges. Within the proposed project area, vegetation includes slash pine (*Pinus elliotii*) and cabbage palm with an understory of Peruvian primrose willow, cattails, and Carolina willow.

Wetland, forested mixed habitat is located near SR 64 at the proposed project's southern limits. This habitat type contains cypress (*Taxodium* sp.), red maple, laurel oak, American elm, slash pine and Peruvian primrose willow.

Freshwater marsh communities located in the proposed project contain maidencane, common ragweed (*Ambrosia artemisiifolia*), saltbush, bahiagrass (*Paspalum notatum*), marsh pennywort (*Hydrocotyle umbellata*), cattails, Carolina willow, Peruvian primrose willow and pickerelweed (*Pontederia cordata*) with scattered red maple and cabbage palm.

Saltwater marshes are located along tidally influenced water bodies within the proposed project area. This habitat type is comprised of black needlerush (*Juncus roemerianus*), red mangroves, salt grass, and sea-purslane.

**PROPOSED WORK:** FDOT District 1 proposes to construct roadway improvements along I-75 from north of SR 64 to north of US 301 interchange in Bradenton and Ellenton, Manatee County, Florida. The project entails constructing two additional lanes, widening bridges, two new bridges over Manatee River, and associated roadway improvements. The proposed project also includes the improvement of the interchange at US 301 and I-75 and a segment of US 301 extending from 51<sup>st</sup> Avenue East to east of 60<sup>th</sup> Avenue East. The total proposed project area is approximately 299.73 acres, and requires dredging/filling of 3.03 acres of freshwater wetlands, 1.36 acres of estuarine wetlands, and 2.8 acre of other surface waters (OSW). Potential secondary wetland impacts have been assessed for 1.47 acres of adjacent wetlands. Temporary wetland impacts resulting from construction activities have been assessed for 1.21 acres of estuarine wetlands.

**AVOIDANCE AND MINIMIZATION INFORMATION:** The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

The project is in conformance with Executive Order 11990. During field investigations for the subject Project Development & Environment Study (PD&E) completed in 2011 and updated through reevaluations in 2013, 2015, 2016, 2019 and again in 2020, project environmental data was used to develop the current alignment that provides necessary roadway improvements, satisfies acceptable traffic engineering design standards, and avoids/minimizes impacts to significant environmental features to the greatest extent possible.

The use of silt screens, and other turbidity prevention measures during construction will minimize impacts to adjacent wetlands, surface waters and other surface waters.

**COMPENSATORY MITIGATION:** The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

Compensation for freshwater impacts would be mitigated at the Duette Preserve through the purchase of 2.05 herbaceous, freshwater credits and 0.98 forested, freshwater credits. All estuarine wetland impacts would be mitigated through the purchase of mitigation credits from a state and federal-approved mitigation bank. The project is within the Mangrove Point Mitigation Bank service area. A Mitigation Justification Package was prepared to justify mitigation credits outside the mitigation basin at Tampa Bay Mitigation Bank. The proposed wetland mitigation would provide compensation for unavoidable functional loss and wetland impacts associated with the construction of I-75 roadway improvements. A total of 1.54 herbaceous estuarine credits and 3.17 forested estuarine credits would be purchased from either Mangrove Point Mitigation Bank or Tampa Bay Mitigation Bank. A credit reservation letter will be provided prior to permit issuance.

**CULTURAL RESOURCES:** Pursuant to 23 United States Code §327 and the implementing Memorandum of Understanding (MOU) executed on December 14, 2016, the FDOT has assumed and Federal Highway Administration (FHWA) has assigned its responsibilities under National Environmental Policy Act (NEPA) for highway projects. Consistent with law and the MOU, FDOT will be the Lead Federal Agency for highway projects with approval authority resting in the Office of Environmental Management (OEM). As the lead agency with assigned NEPA authority, FDOT has assessed the project site for historic property/properties within, or in close proximity to, the permit area and determined there are no historic properties. FDOT prepared a Cultural Resources Assessment Survey (CRAS) and consulted with the State Historic Preservation Office (SHPO) and Florida Division of Historical Resources and received concurrence that the project will not affect cultural resources dated November 7, 2018. FDOT prepared a preferred pond site CRAS Technical Memorandum and consulted with the SHPO and received concurrence that pond sites will not affect cultural resources dated April 25, 2013.

#### **ENDANGERED SPECIES:**

As the lead agency with delegated NEPA authority, FDOT has assessed the project site for Federally listed species using the FWS Information for Planning and Consultation (IPaC) web site, plus information provided by the applicant, and all available Programmatic Keys for protected species for purposes of compliance with Section 7 of the ESA of 1973 (as amended).

FDOT has determined that the proposed project may affect, but is not likely to adversely affect, the Eastern indigo snake (*Drymarchon corais couperi*), American wood stork (*Mycteria americana*), Gulf sturgeon (*Acipenser oxyrinchus desotoi*), West Indian manatee (*Trichechus manatus*), smalltooth sawfish (*Pristis pectinata*), bald eagle (*Haliaeetus leucocephalus*), and American alligator (*Alligator mississippiensis*).

The Eastern Indigo Snake Programmatic Effect Determination Key, August 2013. Use of this key resulted in the sequence A-B-C-may affect, but is not likely to adversely affect,



as the applicant has agreed to implement the Standard Protection Measures for the Eastern Indigo Snake, August 12, 2013.

The Corps of Engineers, Jacksonville District, U.S. Fish and Wildlife Service, Jacksonville Ecological Services Field Office and State of Florida Effect Determination Key for the Wood Stork in Central and North Peninsular Florida, September 2008, to determine potential effects upon this species. Use of this key resulted in the sequence A-B-C-D-E- may affect, but is not likely to adversely affect.

The Corps of Engineers, Jacksonville District, and the State of Florida Effect Determination Key for the Manatee in Florida, April 2013 to determine potential effects upon this species. Use of this key resulted in the sequence A-B-C-G-N-O-P- may affect, but is not likely to adversely affect.

FDOT has also determined that the proposed project would have “no effect” on the piping plover (*Charadrius melodus*) and Florida scrub-jay (*Aphelocoma coerulescens*).

FDOT consulted with the FWS for the effect determinations on the above listed species and received concurrence dated September 10, 2019.

FDOT has determined that the proposed project may affect, but is not likely to adversely affect, the green sea turtle (*Chelonia mydas*), Kemp’s ridley (*Lepidochelys kempii*), loggerhead (*Caretta caretta*) and smalltooth sawfish (*Pristis pectinata*).

FDOT consulted with the National Marine Fisheries Service (NMFS) on for the effect determinations for the above listed species and received concurrence dated October 9, 2019.

**ESSENTIAL FISH HABITAT (EFH):** As the lead agency with delegated NEPA authority, FDOT has assessed the project site for EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. FDOT has determined the site contains EFH and determined that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico Region.

FDOT consulted with the National Marine Fisheries Service (NMFS) on EFH for the effect determination and received concurrence dated October 9, 2019.

**NOTE:** This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional lines have not been verified by Corps personnel.

**AUTHORIZATION FROM OTHER AGENCIES:** Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the North Branch, Panama City Permits Section, 415 Richard Jackson Boulevard, Suite 411, Panama City Beach, Florida, 32407 within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this proposal should be directed to the project manager, Cynthia Ovdenk, in writing at 415 Richard Jackson Boulevard, Suite 411, Panama City Beach, Florida, 32407; by electronic mail at [cynthia.d.ovdenk@usace.army.mil](mailto:cynthia.d.ovdenk@usace.army.mil); or, by telephone at (850) 287-2045.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

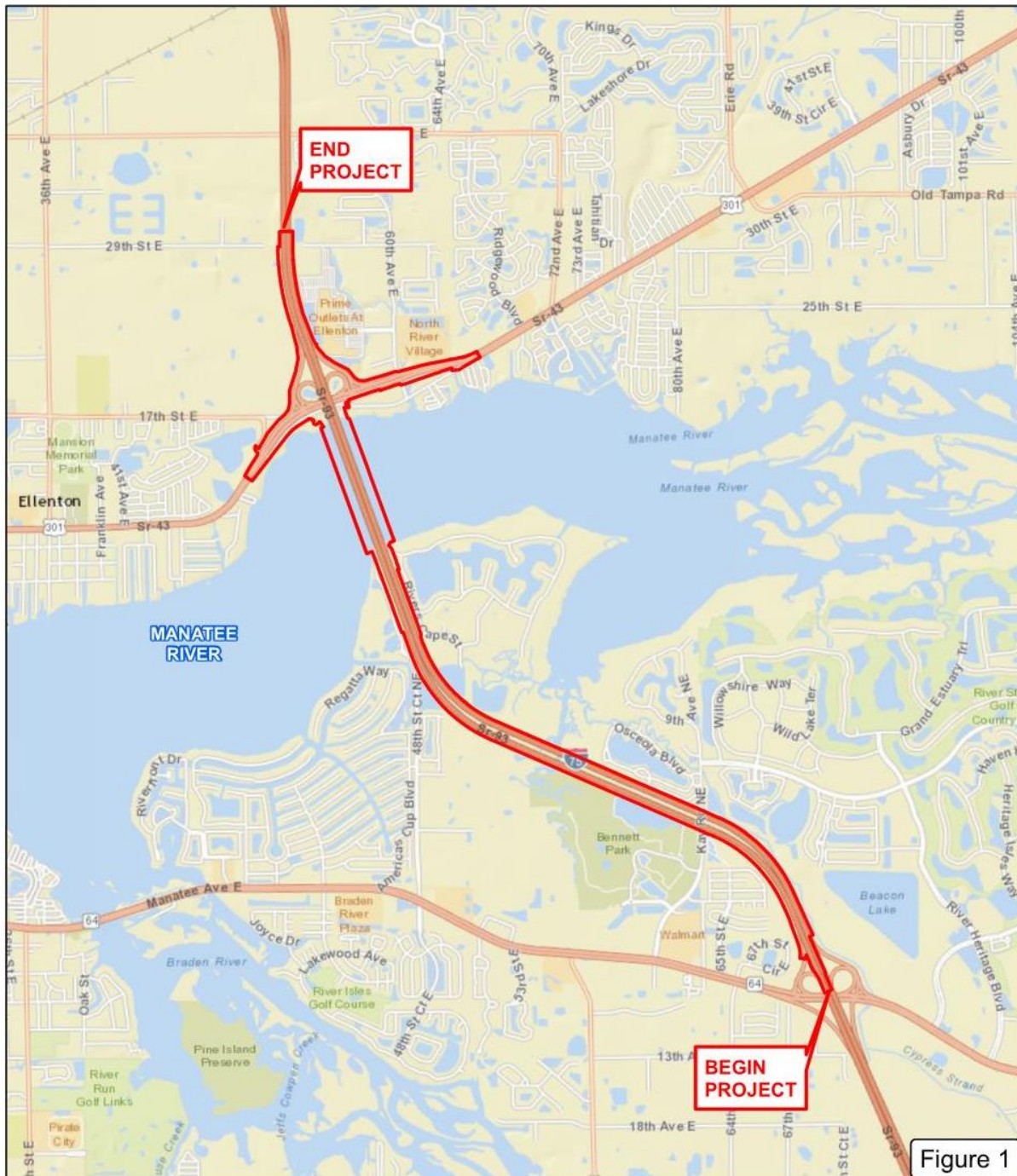
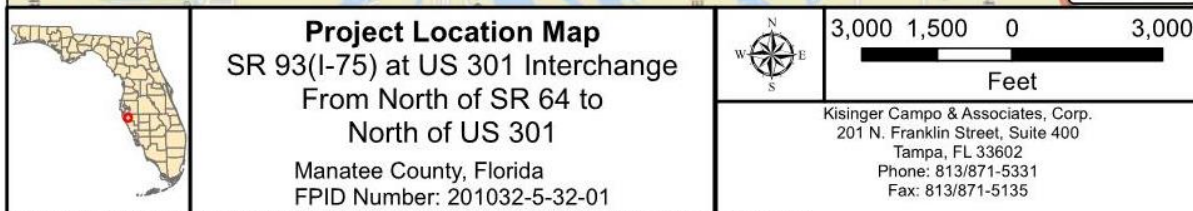
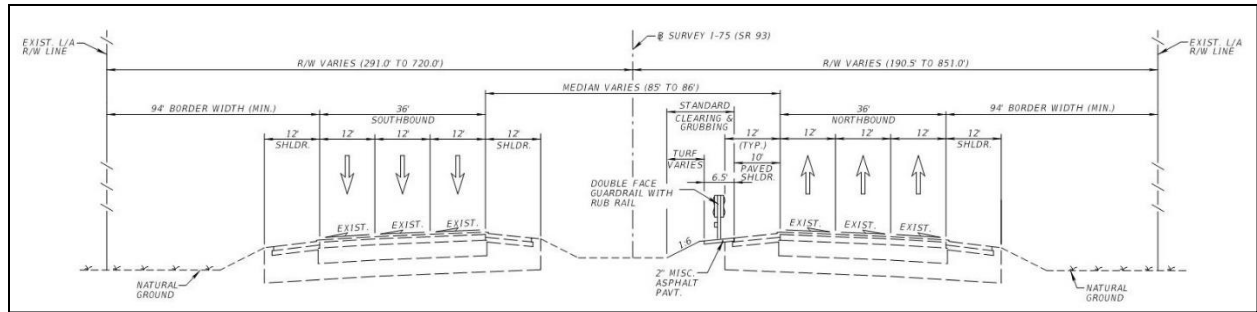


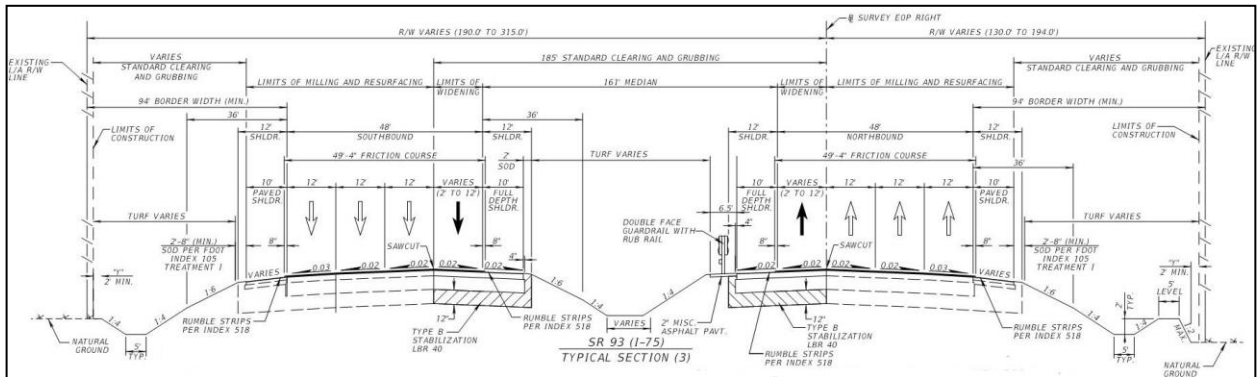
Figure 1



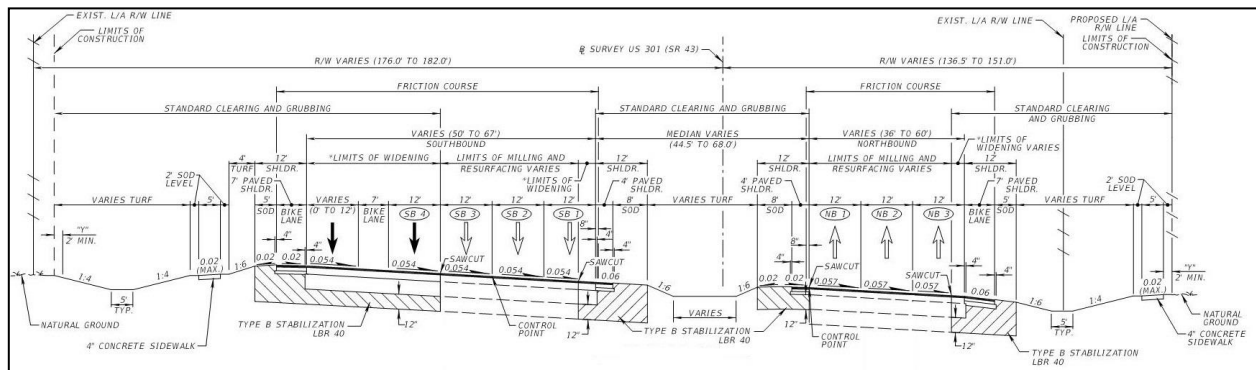
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**Figure 1-2 EXISTING I-75 RURAL SIX LANE ROADWAY TYPICAL SECTION**

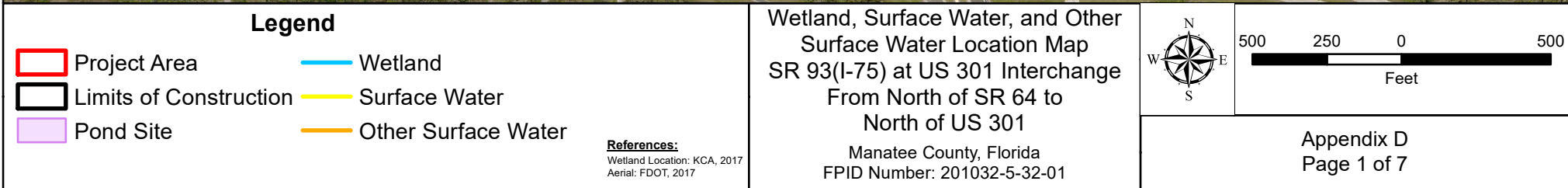


**Figure 1-3 PROPOSED I-75 RURAL EIGHT LANE ROADWAY TYPICAL SECTION**

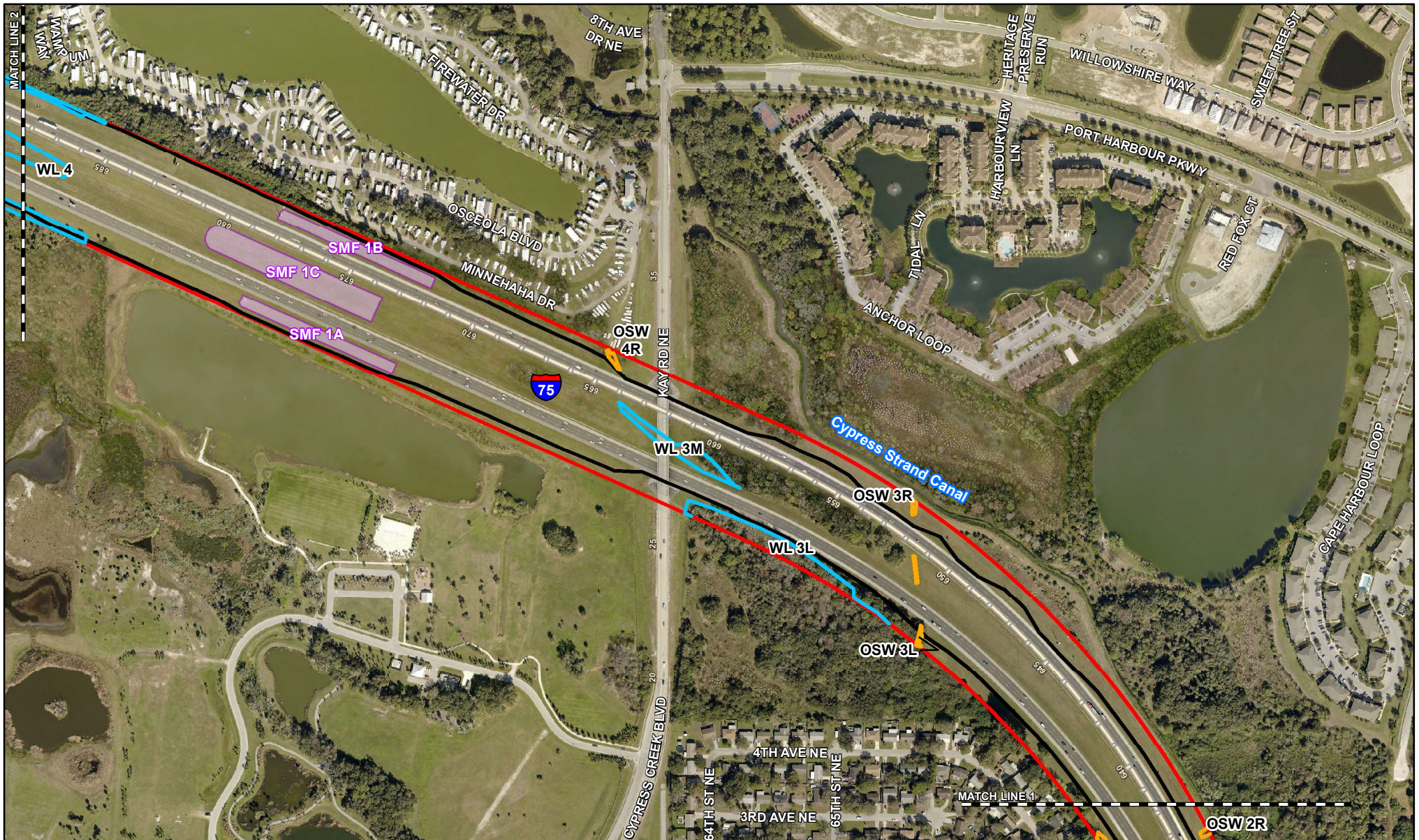


**Figure 1-4 EXISTING US 301 SIX LANE ROADWAY TYPICAL SECTION**









### Legend

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|---|--|
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| <span style="border: 2px solid black; display: inline-block; width: 20px; height: 10px;"></span> Limits of Construction               | <span style="border-bottom: 2px solid yellow; display: inline-block; width: 20px;"></span> Surface Water       |
| <span style="background-color: #e0e0ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> Pond Site | <span style="border-bottom: 2px solid orange; display: inline-block; width: 20px;"></span> Other Surface Water |

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

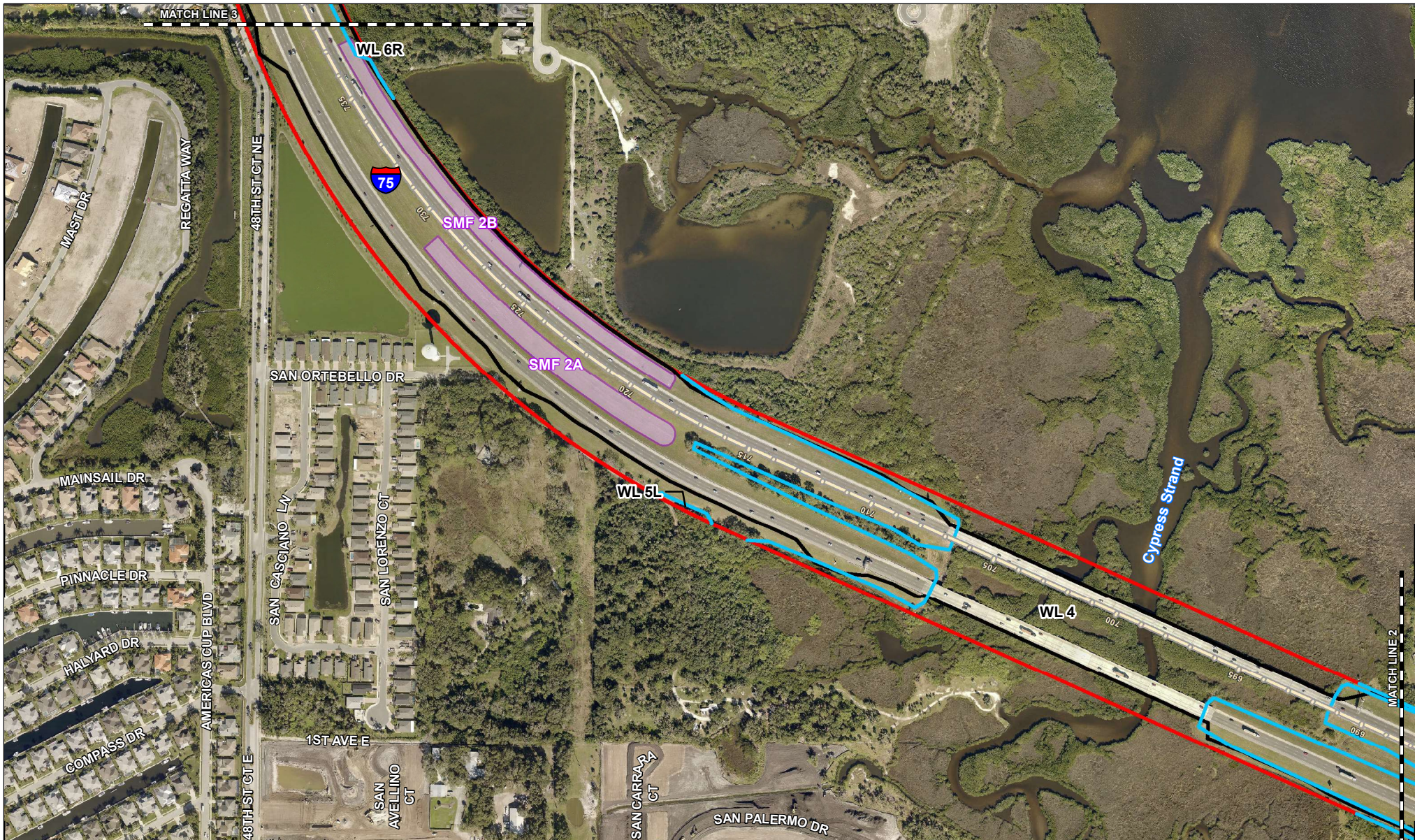
Wetland, Surface Water, and Other  
Surface Water Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



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### Legend

- Project Area
- Limits of Construction
- Pond Site
- Wetland
- Surface Water
- Other Surface Water

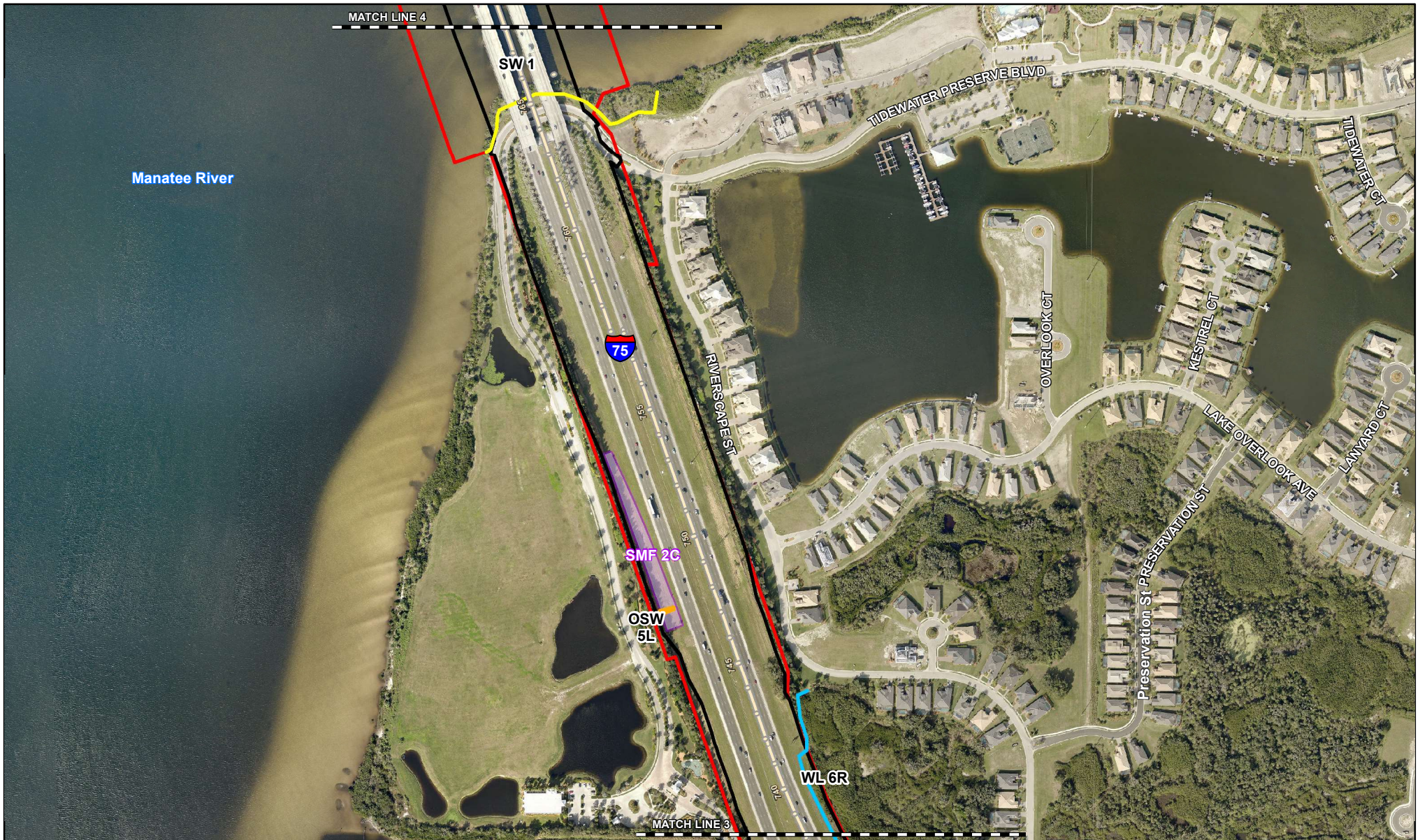
#### References:

Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
Surface Water Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
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### Legend

- |  |   |
|--|---|
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| <span style="background-color: purple; display: inline-block; width: 20px; height: 10px; margin-right: 5px;"></span> Pond Site             | <span style="color: orange; font-weight: bold; margin-right: 5px;">—</span> Other Surface Water |

#### References:

Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
Surface Water Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



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### Legend

- Project Area
- Limits of Construction
- Pond Site
- Wetland
- Surface Water
- Other Surface Water

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

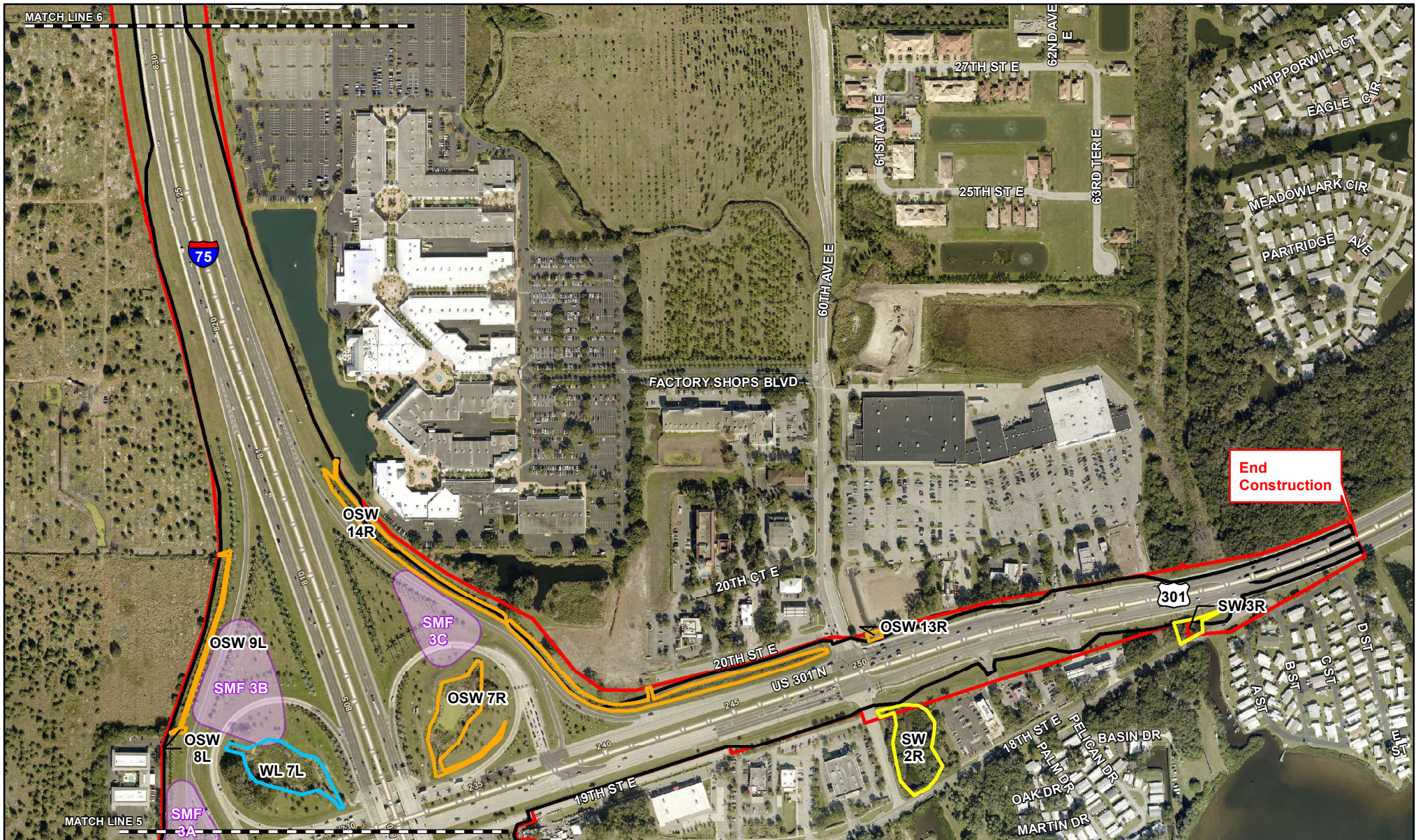
Wetland, Surface Water, and Other  
Surface Water Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



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### Legend

- Project Area
- Limits of Construction
- Pond Site
- Wetland
- Surface Water
- Other Surface Water

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

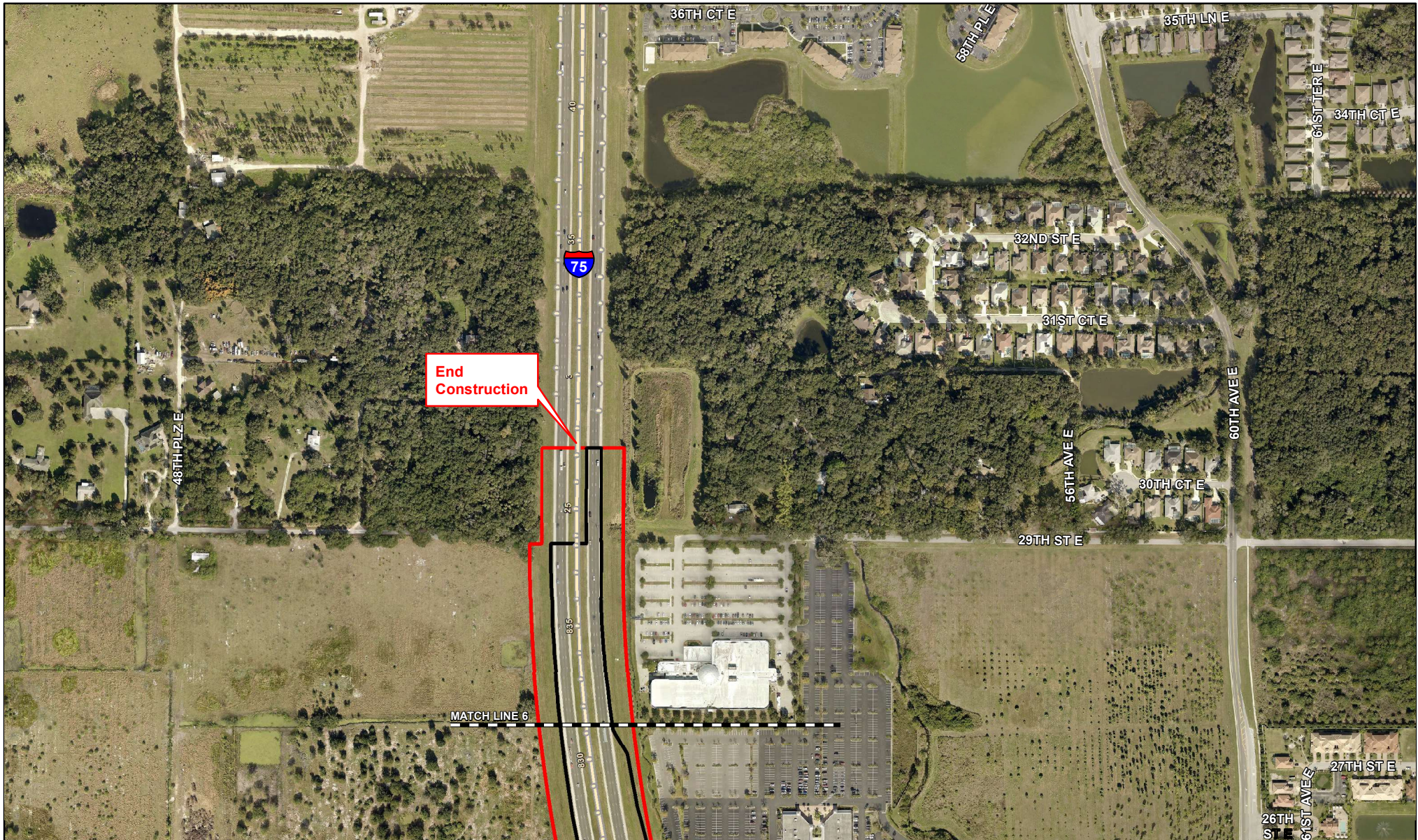
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SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



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### Legend

- Project Area
- Limits of Construction
- Pond Site
- Wetland
- Surface Water
- Other Surface Water

#### References:

Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
Surface Water Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



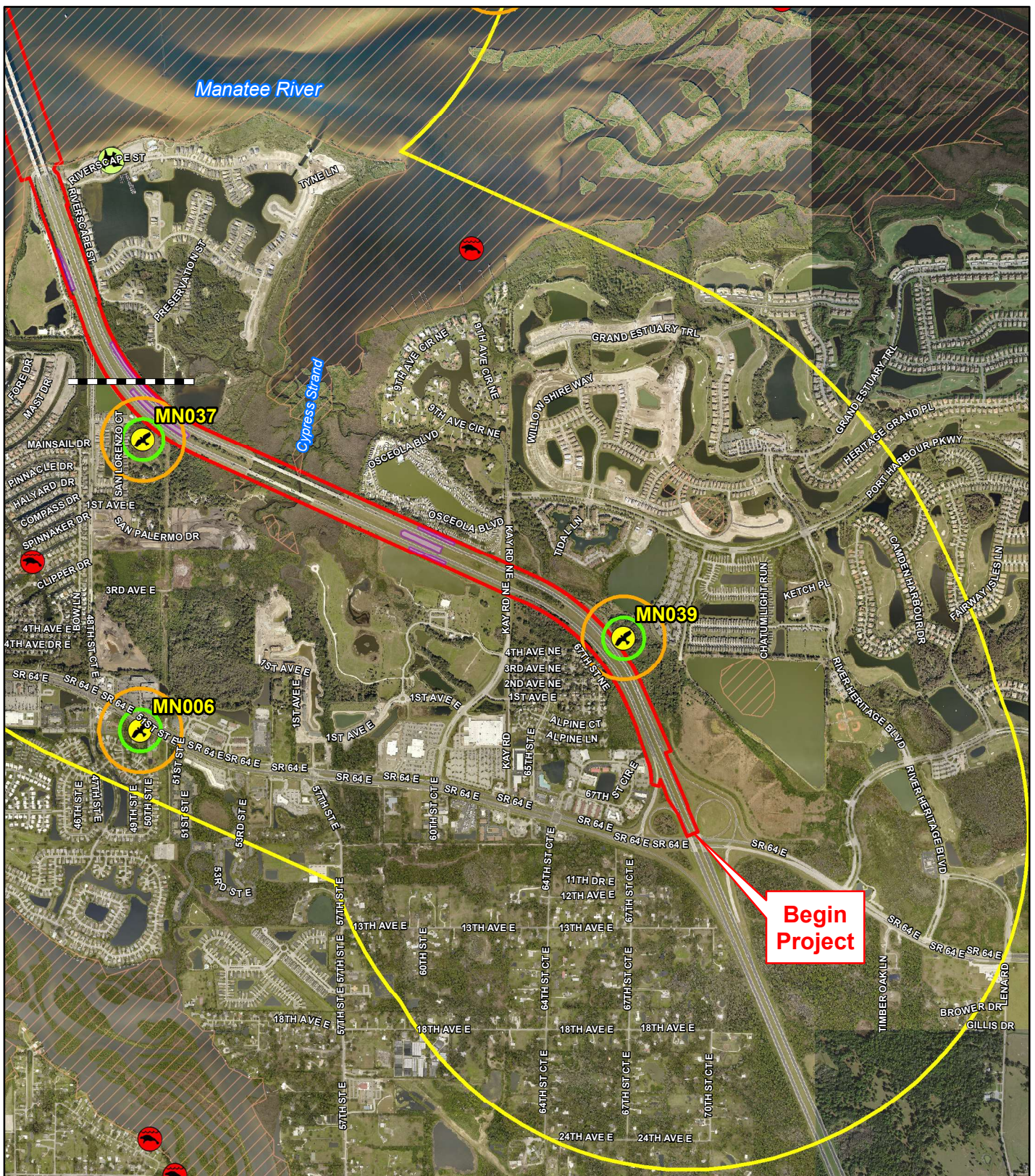
Appendix D  
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







## ***Appendix G***

### **PROTECTED SPECIES LOCATION MAP**





## Legend

- |   |                       |  |
|---|-----------------------|--|
|  | Project Boundary      | <b>FWC Documented</b>  |
|  | 1 Mile Project Buffer |  Manatee Mortality        |
|  | Pond Site             |  Least Tern               |
| <b>KCA Observed (2012)</b>  |                       |  Bald Eagle Nest          |
|  | American Alligator    |  330' Eagle Nest Buffer   |
|  | Little Blue Heron     |  660' Eagle Nest Buffer   |
|   |                       |  Manatee Critical Habitat |

**References:**  
Species: FWC  
Aerials: FDOT, 2017



2,500 1,250 0 2,500  
Feet

**Protected Species Location Map**  
**SR 93(I-75) at US 301 Interchange**  
**From North of SR 64 to North of US 301**  
**Manatee County, Florida**  
**FPID Number: 201032-5-32-01**

Kisinger Campo & Associates, Corp.  
201 N. Franklin Street, Suite 400  
Tampa, FL 33602  
Phone: 813/871-5331  
Fax: 813/871-5135

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## Legend

- Project Boundary**  
**1 Mile Project Buffer**  
**Pond Site**

**KCA Observed (2012)**  
**American Alligator**  
**Little Blue Heron**

**FWC Documented**  
**Manatee Mortality**  
**Least Tern**  
**Bald Eagle Nest**  
**330' Eagle Nest Buffer**  
**660' Eagle Nest Buffer**  
**Manatee Critical Habitat**



2,500 1,250 0 2,500

Feet

**Protected Species Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to North of US 301  
Manatee County, Florida  
FPID Number: 201032-5-32-01**

**Kisinger Campo & Associates, Corp.**  
201 N. Franklin Street, Suite 400  
Tampa, FL 33602  
Phone: 813/871-5331  
Fax: 813/871-5135

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Path: M:\20103253201 I-75 at US 301 PM Folder\7 PERMITS KCA\GIS\May 2014 reboot\Maps\2017 Figures\I75 at US301 - Protected Species.mxd Date: 12/13/2017



## ***APPENDIX H***

### **ESSENTIAL FISH HABITAT ANALYSIS**



## **Appendix H**

### **Essential Fish Habitat Assessment**

#### **1.1 Introduction**

The Magnuson-Stevens Fishery Conservation and Management ACT (16 USC 1801 et seq. Public Law 104-208) reflects the Secretary of Commerce and Fishery Management Council's authority and responsibilities for the protection of essential fishery habitat. The Act specifies that each federal agency shall consult with the Secretary with respect to any action authorized, funded, or undertaken, or proposed to be authorized, funded, or undertaken, by such agency that may adversely affect any Essential Fish Habitat (EFH) identified under this Act. EFH is defined by the Act as "...those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." The National Marine Fisheries Service (NMFS) review potential impacts to EFH.

The proposed project is within the Gulf of Mexico Fishery Management Council's (GMFMC) area of jurisdiction, which extends from the Texas/Mexico border to the Florida Keys and seaward to the limit of the Exclusive Economic Zone (200 nautical miles from the baseline of the territorial sea).

#### **1.2 Project Description**

The Florida Department of Transportation (FDOT), District One, is proposing roadway improvements to a segment of SR 93 (I-75) from north of SR 64 to north of SR 25 (US 301), in Manatee County, Florida, a distance of approximately 4.45 miles. The proposed improvements will also include the interchange at US 301 and I-75 and a segment of US 301 extending from 51<sup>st</sup> Avenue East to east of 60<sup>th</sup> Avenue East, a distance of approximately 1.21 miles. The project is located in Sections 8, 9, 16, 21, 22, 26, and 27 of Township 34 South and Range 18 East.

The proposed project will widen the existing roadway from a six-lane section to an eight-lane section. The existing I-75 roadway includes three (3) 12-foot travel lanes, a 12-foot inside shoulder (10 foot paved), and a 12-foot wide outside shoulder (10-foot paved) with a depressed grass median and roadside ditches. The median width varies from approximately 85 feet to 184 feet. The existing right-of-way (ROW) width varies from approximately 348 feet to 447 feet and to 1,193 feet at the I-75 / US 301 interchange. The roadway will be widened to an eight-lane section with four (4) 12-foot travel lanes, 12-foot wide inside and outside shoulders (10-foot paved) with a depressed median and roadside ditches. South of the Manatee River Bridges, the proposed improvements along I-75 include widening primarily toward the median for approximately 2.4 miles.

The proposed project will reconfigure the existing I-75 / US 301 Interchange facility from a partial cloverleaf to a diamond interchange and will provide for the future 10-lane ultimate design configuration along the I-75 mainline. The Interchange improvements will also require the widening / reconstruction of US 301 including the 51<sup>st</sup> Avenue East intersection, 60th Avenue intersection, and improvements to 19th Street East. The existing US 301 roadway consists of a six-lane section, three (3) eastbound and three (3) westbound lanes, which will be modified to meet the new I-75 / US 301 interchange design configuration and to accommodate an additional westbound lane throughout the limits of the interchange. All design elements will be analyzed to satisfy current FDOT design standards. These improvements also include milling and resurfacing of this segment of roadway.

The proposed project will require stormwater management for water quality (treatment) and water quantity (attenuation). Stormwater will be conveyed to treatment ponds which will be designed for the 8-lane configuration up to US 301 and the 10-lane ultimate at the US 301 interchange. Nine stormwater ponds will be constructed for the proposed project. Floodplain compensation will be provided in roadside ditches along the project.

The proposed project includes the widening of the existing Salt Marsh bridge structures as well as the addition of four proposed bridges crossing the Manatee River.

### **Manatee River Bridges**

The existing Manatee River bridge structures (southbound #130103 and northbound #130104), are located at mile 7.7 on the Manatee River. Each structure is 58 feet 9 inches wide, and 3,814.7 feet in length and consists of three (3) 12-foot travel lanes with an inside and outside shoulder width of 10 feet.

As part of the I-75 / US 301 interchange reconfiguration, the proposed project will install new structures to carry I-75 auxiliary lanes, and entrance / exit ramp lanes connecting directly with US 301. These new structures will be independent of the existing Manatee River bridges and will be built to the outside. In the ultimate condition, the existing I-75 bridges over the Manatee River will be converted for express lane use and the entrance / exit ramp bridges built with this project will accommodate the I-75 general use lanes which will require extensions of the bridges over the Manatee River. In the interim condition the proposed bridges over the Manatee River will carry Ramps A1 (exit ramp from I-75 northbound to US 301) and Ramp C1 (entrance ramp from US 301 to southbound I-75).

The proposed improvements will require the installation of 1,035 24-inch square pilings. The existing I-75 bridges and fender system only accommodate a 75 foot horizontal channel; however, the proposed bridges will be set to accommodate a 100 foot channel. This will ensure the channel requirement will be met for future bridge replacements. The existing 75-foot-wide

fender system will be extended and the vertical clearance will be maintained at 40 feet over the channel.

### **Salt Marsh Bridges**

The Salt Marsh bridge structures (southbound #130101 and northbound #130102), are located approximately one (1) mile upstream from the confluence with the Manatee River. Each structure is 58 feet 9 inches wide and consists of three (3) 12-foot travel lanes with an inside and outside shoulder width of 10 feet. The northbound and southbound structures are 1,560 feet and 1,140 feet in length, respectively. The bridge structures will be widened to the inside to accommodate four (4) 12 foot lanes with an inside and outside shoulder width of 10 feet. The resulting bridges will measure 70 feet 11 inches wide and the length will remain the same.

The proposed improvements will require the installation of 94 24-inch square pilings. These pilings will be collocated with the existing bridge piles and will not result in any change to the structure's existing horizontal clearance. In addition, widening of the bridge deck will not result in any change to the structure's existing vertical clearance.

For purposes of this report, the project study area (project area) is defined as the proposed I-75 right-of way from north of SR 64 to north of US 301.

## **1.3 Existing Essential Fish Habitat**

The Gulf of Mexico Fisheries Management Council (GMFMC) has identified and described EFH for 56 managed species and the coral complex. Although not managed by the GMFMC, 49 species of highly migratory species found within the Gulf of Mexico have NMFS-designated EFH requirements. The species accounts of each of the 56 representative managed species and the coral complex and the 49 highly migratory species were reviewed to assess the potential occurrence of these species within the proposed project area during any stage of their life cycle. Table 1 lists each managed species, coral species, and highly migratory species and its potential to occur within the project area.

The proposed project is located within an area designated as EFH for five (5) Fishery Management Plans (FMP): Shrimp, Red Drum, Reef Fish, Stone Crab, and Coastal Migratory Pelagic management plans.

Various life stages of twenty-three (23) managed species and the coral complex have a potential to occur within the project area. As a result, ESF is identified and described based on the areas where the managed or protected species commonly occur. The GMFMC separates the EFH into estuarine and marine components. In marine waters of the Gulf of Mexico, EFH is defined as all marine waters and substrates (mud, sand, shell, rock, hardbottom, and associated biological

communities) from the shoreline to the seaward limit of the Exclusive Economic Zone (200 nautical miles from the baseline of the territorial sea). For the estuarine component, EFH is defined as all estuarine waters and substrates (mud, sand, shell, rock and associated biological communities), including sub-tidal vegetation (seagrasses and algae) and adjacent inter-tidal vegetation (marshes and mangroves) (GMFMC, 1998). Thus, all tidal waters and substrates within the Manatee River and adjoining wetlands, including intertidal zone, are considered estuarine EFH by the GMFMC.

EFH within the project area includes the Manatee River and Salt Marsh (tributary to the Manatee River). EFH at the Manatee River consists of a tidally influenced open water channel with a thin sporadic littoral fringe of red and black mangroves. There is no submerged aquatic vegetation within this segment of the river. Salinities in the Manatee River at the project location vary between 0 and 30 parts per thousand (ppt) depending on water depth and time of year. EFH within Salt Marsh consists of a tidal creek and adjacent saltmarsh habitat dominated by black needlerush with pockets of red mangroves and black mangroves, and tidal flats under the existing bridge.

**TABLE 1**  
**GULF OF MEXICO EFH – MANAGED SPECIES**  
**POTENTIAL OCCURRENCE WITHIN PROJECT AREA**

<b>Fishery Management Plan</b>	<b>Species</b>	<b>Potential Occurrence in Project Area<sup>3</sup></b>	<b>Comments</b>
Shrimp <sup>1</sup>	Brown shrimp ( <i>Farfantepenaeus aztecus</i> )	None	More common in central and western Gulf of Mexico.
	Pink shrimp ( <i>F. duorarum</i> )	High	Found in Tampa Bay/ Boca Ciega Bay. EFH for the Shrimp FMP is found in project area.
	Royal red shrimp ( <i>Pleoticus robustus</i> )	None	An off-shore/deep-water species (180 – 730 meters).
	White shrimp ( <i>Litopenaeus setiferus</i> )	None	More common in central and western Gulf of Mexico.
Red Drum <sup>1</sup>	Red drum ( <i>Sciaenops ocellatus</i> )	High	Occurs throughout Tampa Bay and the Manatee River. EFH for the Red Drum FMP is found in project area.
Reef Fish <sup>1</sup>	Almaco jack ( <i>Seriola rivoliana</i> )	None	Found in off shore waters.
	Anchor tilefish ( <i>Caulolatilus intermedius</i> )	None	Found in off shore waters.
	Banded rudderfish ( <i>S. zonata</i> )	None	Found in near and off shore waters over hard bottom and reefs and deep inshore channels.

Fishery Management Plan	Species	Potential Occurrence in Project Area <sup>3</sup>	Comments
	Blackfin snapper ( <i>Lutjanus buccanella</i> )	None	Found in off shore waters (30+ feet).
	Blackline tilefish ( <i>C. cyanops</i> )	None	Found in off shore waters.
	Black grouper ( <i>Mycteroperca bonaci</i> )	None	Generally an off-shore species; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent.
	Blueline tilefish ( <i>C. microps</i> )	None	Found in off shore waters.
	Cubera snapper ( <i>L. cyanopterus</i> )	None	Found in near and off shore waters; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent. Not common in Gulf of Mexico.
	Dog snapper ( <i>L. jocu</i> )	None	Found in near and off shore waters; juveniles may inhabit estuarine areas but are not estuarine-dependent.
	Dwarf sand perch ( <i>Diplectrum bivittatum</i> )	Low	Found in near and off shore waters.
	Gag grouper ( <i>M. microlepis</i> )	Low	Adults inhabit water over 60 feet deep and juveniles may inhabit estuarine areas but are not estuarine-dependent.
	Goldface tilefish ( <i>C. chrysops</i> )	None	Found in off shore waters.
	Goliath grouper ( <i>Epinephelus itajara</i> )	High	Found in near and off shore waters; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent.
	Gray (mangrove) snapper ( <i>L. griseus</i> )	High	Found in near and off shore waters; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent.
	Gray triggerfish ( <i>Balistes capriscus</i> )	Low	Found in near and off shore waters.
	Greater amberjack ( <i>S. dumerili</i> )	None	Found in off shore waters.
	Hogfish ( <i>Lachnolaimus maximus</i> )	None	Found in off shore waters.
	Lane snapper ( <i>L. synagris</i> )	Low	Found in near and off shore waters; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent.
	Lesser amberjack ( <i>S. fasciata</i> )	None	Found in off shore waters.

Fishery Management Plan	Species	Potential Occurrence in Project Area <sup>3</sup>	Comments
	Mahogany snapper ( <i>L. mahogoni</i> )	None	Found in near and off shore waters in clear, highly saline water.
	Marbled grouper ( <i>E. inermis</i> )	None	Found in off shore waters at depths of 700 feet.
	Misty grouper ( <i>E. mystacinus</i> )	None	Found in off shore waters.
	Mutton snapper ( <i>L. analis</i> )	Low	Found in near and off shore waters; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent. EFH for the Reef Fish FMP is found in project area.
	Nassau grouper ( <i>E. striatus</i> )	None	Found in near and off shore waters in the Keys.
	Queen snapper ( <i>Etelis oculatus</i> )	None	Found in off shore waters.
	Red hind ( <i>Epinephelus guttatus</i> )	None	Found in near and off shore waters. Usually in quiet, deep waters in Florida.
	Red grouper ( <i>E. morio</i> )	None	Juveniles are found offshore along with adults greater than 6 yrs old. Fish from 1 to 6 occupy nearshore reefs.
	Red snapper ( <i>L. campechanus</i> )	Low	Found in near and off shore waters.
	Rock hind ( <i>E. adscensionis</i> )	Low	Found in near and off shore waters.
	Sand perch ( <i>Diplectrum formosum</i> )	High	Found in near shore waters.
	Scamp grouper ( <i>M. phenax</i> )	None	Found in near and off shore waters. Project is out of species range.
	Schoolmaster ( <i>L. apodus</i> )	None	Found in off shore waters.
	Silk snapper ( <i>L. vivanus</i> )	None	Found in off shore waters.
	Snowy grouper ( <i>E. niveatus</i> )	None	Young in shallow waters near reefs; adults off shore in waters 800-1600 ft.
	Speckled hind ( <i>E. drummondhayi</i> )	None	Found in off shore waters
	Tilefish (Golden ) ( <i>Lopholatilus chamaeleonticeps</i> )	None	Found in off shore waters.
	Vermilion snapper ( <i>Rhomboplites aurorubens</i> )	None	Found in off shore waters.

Fishery Management Plan	Species	Potential Occurrence in Project Area <sup>3</sup>	Comments
	Warsaw grouper ( <i>E. nigrilus</i> )	None	Found in off shore waters. Project out of species range.
	Wenchman ( <i>Pristipomoides aquilonaris</i> )	None	Found in off shore waters.
	Yellowedge grouper ( <i>E. flavolimbatus</i> )	None	Found in off shore waters.
	Yellowfin grouper ( <i>M. venenosa</i> )	None	Found in near and off shore waters in the southern Gulf of Mexico.
	Yellowmouth grouper ( <i>M. interstitialis</i> )	None	Found in near and off shore waters; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent. Rare in Florida.
	Yellowtail snapper ( <i>Ocyurus chrysurus</i> )	None	Juveniles found inshore on grassbeds and back reefs; adults near shore and off shore over sandy areas near reefs.
Stone Crab <sup>1</sup>	Florida stone crab ( <i>Menippe mercenaria</i> )	High	Found in estuarine and near shore waters. EFH for the Stone Crab FMP is found in project area.
	Gulf stone crab ( <i>M. adina</i> )	High	Found in estuarine and near shore waters. EFH for the Stone Crab FMP is found in project area.
Spiny Lobster <sup>1</sup>	Spiny lobster ( <i>Panulirus argus</i> )	None	Found in South Florida waters. No habitat or EFH within project area.
	Slipper lobster ( <i>Scyllarides nodife</i> )	None	Found in South Florida waters. No habitat or EFH within project area.
Coral and Coral Reef <sup>1</sup>	Varied coral species and coral reef communities comprised of several hundred species	None	No habitat or EFH within project area.
Coastal Migratory Pelagic <sup>1</sup>	Cobia ( <i>Rachycentron canadum</i> )	High	A near and off-shore species. EFH for the Coastal Migratory Pelagics FMP is found in project area.
	King mackerel ( <i>Scomberomorus cavalla</i> )	Low	A near and off-shore species. EFH for the Coastal Migratory Pelagics is found in project area.
	Spanish mackerel ( <i>S. maculatus</i> )	Low	A near shore species; juveniles and adults may inhabit estuarine areas but are not estuarine-dependent. EFH for the Coastal Migratory Pelagics FMP is found in project area.
Highly Migratory Species - Tuna <sup>2</sup>	Albacore ( <i>Thunnus alalunga</i> )	None	Found in off shore waters.
	Atlantic bigeye ( <i>T. Obesus</i> )	None	Found in off shore waters. Rare in Gulf of Mexico.

Fishery Management Plan	Species	Potential Occurrence in Project Area <sup>3</sup>	Comments
	Atlantic bluefin ( <i>T. thynnus</i> )	None	Found in off shore waters.
	Atlantic yellowfin ( <i>T. albacares</i> )	None	Found in off shore waters.
	Skipjack ( <i>Katsuwonus pelamis</i> )	None	Found in off shore waters.
Highly Migratory Species - Swordfish <sup>2</sup>	Swordfish ( <i>Xiphias gladius</i> )	None	Found in off shore waters.
Highly Migratory Species - Billfish <sup>2</sup>	Blue marlin ( <i>Makaira nigricans</i> )	None	Found in off shore waters.
	Sailfish ( <i>Istiophorus platypterus</i> )	None	Found in off shore waters.
	White marlin ( <i>T. albidus</i> )	None	Found in off shore waters.
	Longbill spearfish ( <i>Tetrapturus pfluegeri</i> )	None	Found in off shore waters.
Highly Migratory Species - Large Coastal Sharks <sup>2</sup>	Basking shark ( <i>Cetorhinus maximus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Great hammerhead shark ( <i>Sphyrna mokarran</i> )	Medium	Found in shallow coastal waters and estuaries. EFH identified in project area.
	Scalloped hammerhead shark ( <i>S. lewini</i> )	None	Found in shallow coastal waters. EFH for neonates includes shallow coastal bays and estuaries less than 5 m deep from Apalachee Bay to St. Andrews Bay.
	Smooth hammerhead shark ( <i>S. zygaena</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	White shark ( <i>Carcharodon carcharias</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Nurse shark ( <i>Ginglymostoma cirratum</i> )	Medium	Found in shallow coastal waters.
	Bignose shark ( <i>Carcharhinus altimus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Blacktip shark ( <i>C. limbatus</i> )	Medium	Found in shallow coastal waters. EFH for neonates and juveniles identified in vicinity of project.
	Bull shark ( <i>C. leucas</i> )	Medium	Found in shallow coastal waters and estuaries, and often enters fresh water. EFH for juveniles identified in the project area.
	Caribbean reef shark ( <i>C. perezi</i> )	None	Found in coastal water of South Florida and the Caribbean.
	Dusky shark ( <i>C. obscurus</i> )	None	Found in near and off shore waters, primarily in the Atlantic.
	Galapagos shark ( <i>C. galapagensis</i> )	None	Found in off shore waters.



Fishery Management Plan	Species	Potential Occurrence in Project Area <sup>3</sup>	Comments
	Lemon shark ( <i>Negaprion brevirostris</i> )	Low	Found in shallow coastal waters and estuaries. Primarily found in Peninsular Florida and the Keys.
	Narrowtooth shark ( <i>C. brachyurus</i> )	None	Found in off shore waters.
	Night shark ( <i>C. signatus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Sandbar shark ( <i>C. plumbeus</i> )	None	Found in shallow coastal waters.
	Silky shark ( <i>C. falciformis</i> )	None	Found in off shore waters.
	Spinner shark ( <i>C. brevipinna</i> )	None	Found in shallow coastal waters. EFH for neonates includes shallow coastal bays and estuaries less than 5 m deep from Apalachee Bay to St. Andrews Bay.
	Tiger shark ( <i>Galeocerdo cuvieri</i> )	None	Found in shallow coastal and off shore waters. EFH identified in vicinity of project.
	Bigeye sand tiger shark ( <i>Odontaspis noronhai</i> )	None	Found in off shore waters.
	Sand tiger shark ( <i>O. taurus</i> )	None	Found in shallow coastal waters. Primarily found in the Atlantic.
	Whale shark ( <i>Rhinocodon typus</i> )	None	Found in off shore waters.
	Atlantic angel shark ( <i>Squatina dumerili</i> )	None	Found in shallow coastal waters.
	Bonnethead shark ( <i>Sphyrna tiburo</i> )	Low	Found in shallow coastal waters, inlets, and estuaries of peninsular Florida and Texas.
Highly Migratory Species - Small Coastal Sharks <sup>2</sup>	Atlantic sharpnose shark ( <i>Rhizoprionodon terraenovae</i> )	None	Found in shallow coastal waters including bays and estuaries. EFH for neonates includes shallow coastal bays and estuaries less than 5 m deep from Apalachee Bay to St. Andrews Bay.
	Blacknose shark ( <i>C. acronotus</i> )	None	Found in shallow coastal waters. EFH for juveniles includes shallow coastal bays and estuaries less than 5 m deep with expanses of seagrasses from Apalachee Bay to St. Andrews Bay.
	Caribbean sharpnose shark ( <i>R. porosus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.

Fishery Management Plan	Species	Potential Occurrence in Project Area <sup>3</sup>	Comments
	Finetooth shark ( <i>C. isodon</i> )	None	Found in shallow coastal waters. EFH for neonates, juveniles, and adults includes, waters less than 5 m deep on the seaward side of coastal islands from Apalachee Bay to St. Andrews Bay.
	Smalltail shark ( <i>C. porosus</i> )	None	Found in shallow coastal waters and estuaries.
Highly Migratory Species - Pelagic Sharks <sup>2</sup>	Bigeye sixgill shark ( <i>Hexanchus vitulus</i> )	None	Found in off shore waters.
	Sevengill shark ( <i>Hepttranchias perlo</i> )	None	Found in off shore waters.
	Sixgill shark ( <i>H. griseus</i> )	None	Found in off shore waters.
	Longfin mako shark ( <i>Isurus paucus</i> )	None	Found in off shore waters.
	Porbeagle shark ( <i>Lamna nasus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Shortfin mako shark ( <i>I. oxyrinchus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Blue shark ( <i>Prionace glauca</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Oceanic whitetip shark ( <i>C. longimanu</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Bigeye thresher shark ( <i>Alopias superciliosus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.
	Common thresher shark ( <i>A. vulpinus</i> )	None	Found in off shore waters. Primarily found in the Atlantic.

**Notes:**

1. Fishery Management Plans and Managed Species for the Gulf of Mexico. Appendix 2, Essential Fish Habitat: A Marine Fish Habitat Conservation Mandate for Federal Agencies. Gulf of Mexico Region. National Marine Fisheries Service, Habitat Conservation Division, Southeast Regional Office. Revised 08/2008/
2. Species Managed in the Gulf of Mexico under Federally Implemented Fishery Management Plans. Appendix 3, Essential Fish Habitat: A Marine Fish Habitat Conservation Mandate for Federal Agencies. Gulf of Mexico Region. National Marine Fisheries Service, Habitat Conservation Division, Southeast Regional Office. Revised 08/2008/
3. Ratings are low, medium, and high. Ratings based on presence of suitable habitat as follows:  
None – suitable habitat does not occur within the Project Area.  
Low – suitable habitat present in Project Area.  
Medium – suitable habitat present in Project Area and EFH for managed species is present near Project Area.  
High – suitable habitat present in Project Area and the Project Area is within the species range. The species is commonly known to exist in the area.

### 1.4.1 Summary

The EFH review indicates that seven (7) of the representative managed Reef Fish species, two (2) of the coastal migratory pelagic species and two (2) highly migratory species have a low potential for occurrence in the project area. This potential occurrence determination has been made because: 1) there is suitable habitat for these species found near the project area, i.e., estuarine waters, as some stage in their life cycles.

Four (4) highly migratory species – four (4) large coastal sharks have a medium potential for occurrence in the project area. This potential occurrence determination has been made because: 1) there is suitable habitat for these species found near the project area, i.e., estuarine waters, at some stage in their life cycles, and 2) EFH for managed species is present in the project area.

One (1) of the shrimp species, one (1) red drum species, three (3) of the representative managed Reef Fish species, two (2) of the stone crab species, and one (1) coastal migratory pelagic species have a high potential for occurrence in the project area. This potential occurrence determination has been made because: 1) there is suitable habitat for these species found near the project area, i.e., estuarine waters, at some stage in their life cycles, and 2) the project area is within the species range and it is commonly known to exist in the area.

## **1.4.2 Potential Impacts to Essential Fish Habitat**

### **Direct Impacts**

Direct impacts resulting from the new bridge structures over the Manatee River include 0.09 acres of fill from the installation of 997 new 24-inch square bridge pilings within the open water portion of the river. These impacts are *de minimus* and not expected to adversely affect the EFH resources in the project area. Due to the height of the bridges, shading impacts are not anticipated at this location.

Direct impacts resulting from the widening of the existing bridge structures over Salt Marsh include 0.01 acres of fill from the installation of 86 new 24-inch bridge pilings and 0.67 acres of shading of the existing vegetated area (mangroves and saltmarsh). Shading impacts from low bridges have been shown to result in decreased vegetative growth beneath the bridge (Broome *et al.*, 2005). The decrease in aboveground and belowground plant biomass can result in a change of invertebrate density in the affected area as a result of fewer food resources and available refuges from predators. Direct impacts resulting from the widening of the roadway include 0.36 acres of WL 6R and 0.02 acres of SW 3R. Within the project area, the shaded areas will convert from mangrove habitat to tidal flats. The forested component of this habitat will be mitigated through the acquisition of mitigation credits from a state and federal-approved mitigation bank. In addition, compared to the overall available EFH within the area, the proposed impact to EFH as a result of shading is minimal and represents a small percentage of the total amount of the EFH present within the regional landscape. **Table 2** provides a summary of the proposed direct, temporary, secondary, and shading impacts to the Salt Marsh and Manatee River by habitat type.

### **Temporary Impacts**

It is anticipated that there will be approximately 2.34 acres of temporary, construction related impacts to wetlands as a result of the project.

It is anticipated that temporary trestles will be used at the southern and northern banks of the Manatee River bridges due to shallow water depths, while barges will be used where water depths are adequate. The resulting area of temporary wetland impacts for all trestle bridges at the

Manatee River is anticipated to be 0.19 acres of mangrove swamp. Trestles will also be placed over 1.23 acres of shallow open water areas of the river. Once the trestles are removed, the mangroves and any submerged aquatic vegetation will be allowed to revegetate naturally.

Temporary trestles are also anticipated to be used for construction of the Salt Marsh bridges. Use of trestles at this location will result in 0.86 acres of mangrove swamp impacts and 0.06 acres of saltwater marsh; total impacts 0.92 acres. Trestles will also be placed over 0.05 acres of shallow open water areas channels, however, these impacts are expected to be insignificant. The trestle bridges are anticipated to be constructed adjacent and parallel to the existing bridges and would remain in place until construction is complete. The width of the trestle bridges is anticipated to be a minimum of 16 feet. The low member of the trestles will maintain two feet of clearance above mean high water (MHW). Due to their minimal height, construction will result in the removal of existing mangroves located within the area of the trestles. While the wetland will remain reestablishment of the mangroves after project construction will require an extended amount of time.

### **Secondary Impacts**

Indirect or secondary effects are a by-product of direct effects or impacts. Indirect effects are manifested in the reasonably foreseeable future and are some distance away from the location of the direct impact. Potential indirect effects to EFH associated with this project could include water quality degradation from Stormwater runoff or roadway spills. To minimize potential water quality impacts, the project will be constructed in accordance with all permit conditions for maintaining water quality during construction and operation of the facility. As a result, no water quality impacts to EFH or EFH-dependent species are anticipated.

**Table 2**  
**EFH Impact Summary**

Name	FLUCFS	USFWS Classification*	Description	Impact Type	Wetland Impact (Acres)
WL 4	510	E1UB3	Streams and Waterways	Direct (Pilings)	0.01
	612	E2FO3N	Mangrove Swamps	Direct	0.11
	612	E2FO3N	Mangrove Swamps	Shading	0.60
	612	E2FO3N	Mangrove Swamps	Temporary	0.86
	642	E2EM1N	Saltwater Marsh	Direct	0.75
	642	E2EM1N	Saltwater Marsh	Shading	0.07
	642	E2EM1N	Saltwater Marsh	Temporary	0.06
WL 6R	612	E2FO3N	Mangrove Swamps	Direct	0.36
<b>Subtotal Wetland</b>					<b>2.82</b>

SW 1	510	E1UB23	Streams and Waterways	Direct (Pilings)	0.09
	510	E1UB3	Streams and Waterways	Temporary	1.23
	612	E2FO3N	Mangrove Swamps	Temporary	0.19
SW 3R	510	E1UB2	Streams and Waterways	Direct	0.02
<b>Subtotal Surface Water</b>					1.53
<b>Total Impacts</b>					4.35

\*Cowardin, et al., 1979

E1UB3 Estuarine, Subtidal, Unconsolidated Bottom, Mud

E2FO3N Estuarine, Intertidal, Forested, Broad-leaved Evergreen, Regularly Flooded

E2EM1N Estuarine, Intertidal, Emergent, Persistent, Regularly Flooded

E1UB23 Estuarine, Subtidal, Unconsolidated Bottom, Sand, Mixhaline

## 1.4 EFH Conclusion

Construction of the proposed project will impact approximately 4.35 acres of wetlands and/or surface waters designated as EFH. The wetland habitats being directly impacted include 0.47 acres of mangrove swamp, 0.75 acres of saltwater marsh, and 0.12 acres of tidal streams and waterways. Additionally, there will be shading impacts of approximately 0.67 acres, including 0.60 acres of mangrove swamps and 0.07 acres of saltwater marsh. The project will also result in and 2.34 acres of temporary impacts (1.05 acres of mangrove swamp, 0.06 acres of saltwater marsh, and 1.23 acres of streams and waterways). The potential impact to EFH in the project area has been minimized through the use of bridge structure over large tidal wetlands and waterways in place of filled causeways.

Since the proposed project will not have significant direct or indirect impacts on EFH, based on the relatively minor impact to EFH within its local surroundings, no representative species or life stages of a species will be significantly impacted. As stormwater treatment will address water quality degradation, and mitigation will be provided for any impacts to EFH, the proposed project will have minimal adverse effect on EFH.

## 1.5 References

Broome, et al., 2005. Broome, S.W.. C.B. Craft, S.D. Struck, and M. SanClements, 2005. Effects of Shading from Bridges on Estuarine Wetlands, Final Report. U.S. Department of Transportation, Research and Special Programs Administration. Report No. FHWA/N/3003-07.

Gulf of Mexico Fishery Management Council Essential Fish Habitat Amendments (website)  
[http://www.gulfcouncil.org/fishery\\_management\\_plans/essential\\_fish\\_habitat.php](http://www.gulfcouncil.org/fishery_management_plans/essential_fish_habitat.php)

GMFMC. 1998. Generic amendment for addressing essential fish habitat requirements in the following Fishery Management Plans of the Gulf of Mexico: Shrimp Fishery of the Gulf of Mexico, Red Drum Fishery of the Gulf of Mexico, Reef Fish Fishery of the Gulf of Mexico, Coastal Migratory Pelagic Resources of the Gulf of Mexico and South Atlantic, Stone Crab Fishery of the Gulf of Mexico, Spiny Lobster Fishery of the Gulf of Mexico, Coral and Coral Reefs of the Gulf of Mexico,. Gulf of Mexico Fishery Management Council, Tampa, FL. (Revised 2002 and 2005).

GMFMC. 2004. Final Environmental Impact Statement for the Generic Essential Fish Habitat Amendment to the Fishery Management Plans of the Gulf of Mexico (GOM): Shrimp Fishery of the Gulf of Mexico, Red Drum Fishery of the Gulf of Mexico, Reef Fish Fishery of the Gulf of Mexico, Stone Crab Fishery of the Gulf of Mexico, Coral and Coral Reef Fishery of the Gulf of Mexico, Spiny Lobster Fishery of the Gulf of Mexico and South Atlantic, Coastal Migratory Pelagic Resources of the Gulf of Mexico and South Atlantic. Gulf of Mexico Fishery Management Council, Tampa, FL.

National Oceanic and Atmospheric Administration Essential Fish Mapper tool (website)  
<http://www.habitat.noaa.gov/protection/efh/habitatmapper.html>

## ***APPENDIX I***

### **WETLAND, SURFACE WATER, AND OTHER SURFACE WATER IMPACT LOCATION MAP**





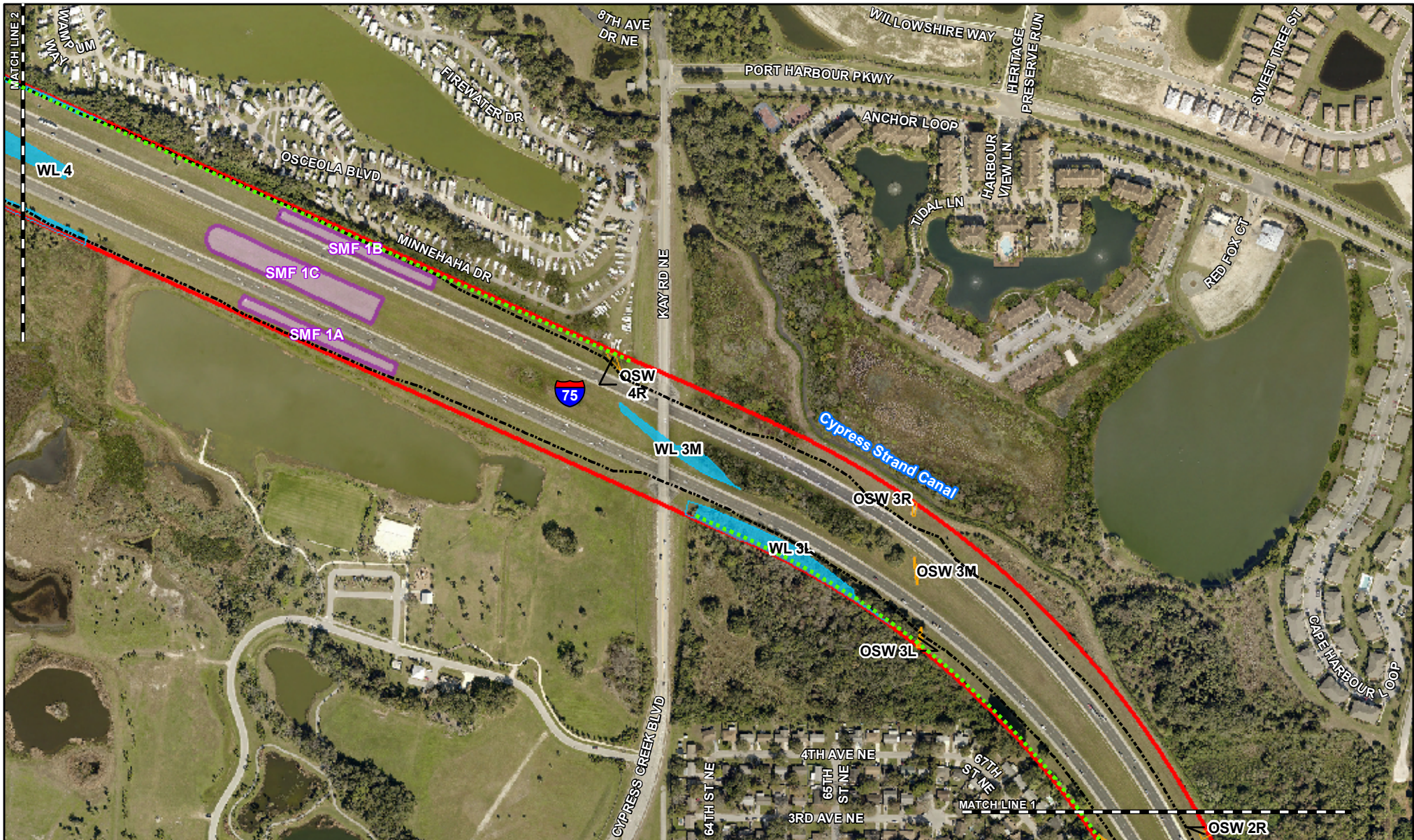
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|------------------------|----------------------------|
| Project Area           | Wetland Impact             |
| Limits of Construction | Surface Water Impact       |
| Pond Site              | Other Surface Water Impact |
| Noise Wall             | Temporary Impact           |
| Wetland                | Shading Impact             |
| Surface Water          |                            |
| Other Surface Water    |                            |

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
Surface Water Impact Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



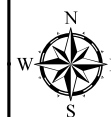


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|---|---|
| <span style="border: 2px solid red; padding: 2px;"> </span> Project Area                                | <span style="background-color: lightblue; border: 1px solid blue; padding: 2px;"> </span> Wetland Impact            |
| <span style="border: 2px dashed black; padding: 2px;"> </span> Limits of Construction                   | <span style="background-color: yellow; border: 1px solid yellow; padding: 2px;"> </span> Surface Water Impact       |
| <span style="background-color: lightpurple; border: 1px solid purple; padding: 2px;"> </span> Pond Site | <span style="background-color: orange; border: 1px solid orange; padding: 2px;"> </span> Other Surface Water Impact |
| <span style="color: green;">.....</span> Noise Wall   | <span style="background-color: lightgreen; border: 1px solid green; padding: 2px;"> </span> Temporary Impact        |
| <span style="color: blue;">———</span> Wetland   | <span style="background-color: purple; border: 1px solid purple; padding: 2px;"> </span> Shading Impact             |
| <span style="color: yellow;">———</span> Surface Water   |   |
| <span style="color: orange;">———</span> Other Surface Water   |   |

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

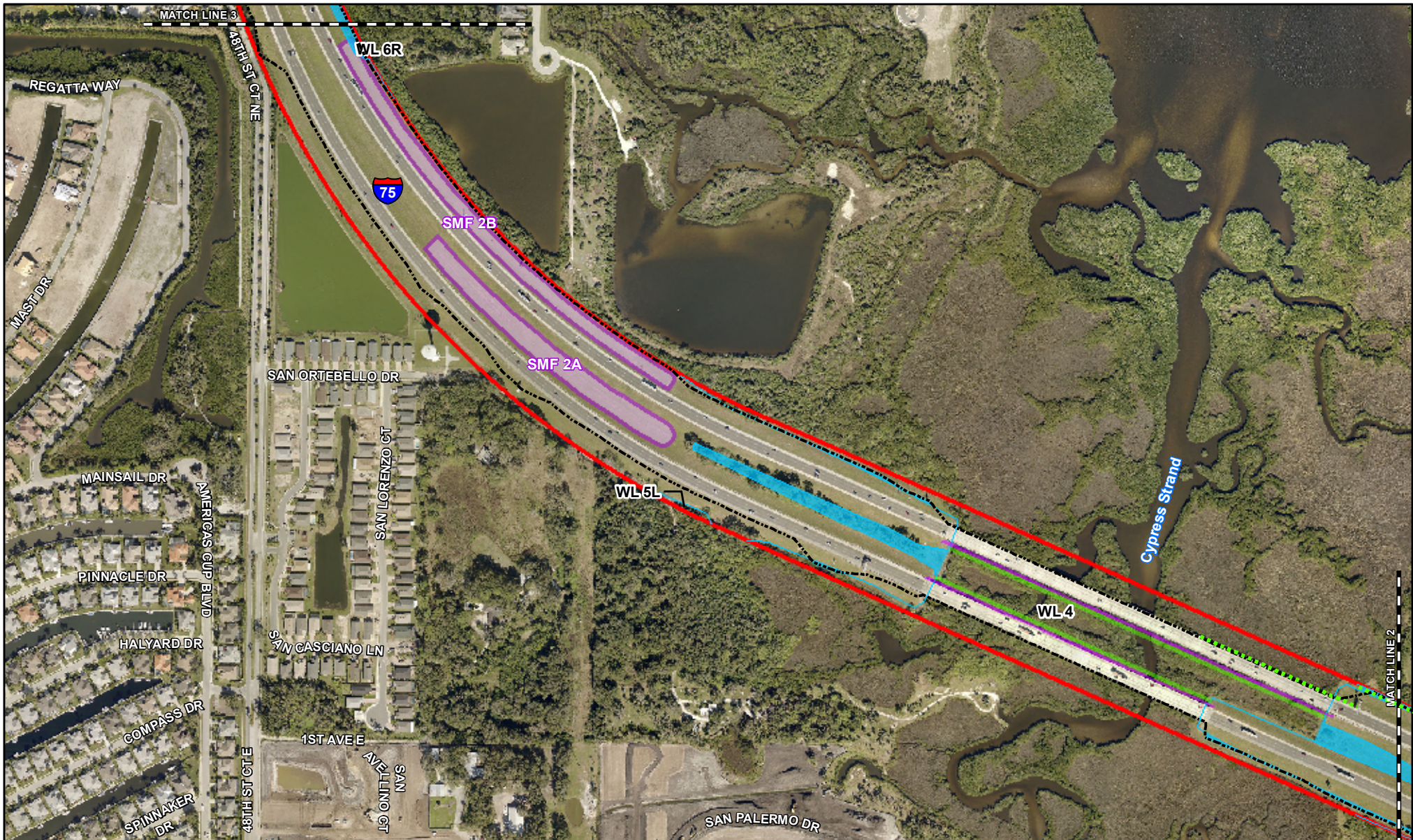
Wetland, Surface Water, and Other  
Surface Water Impact Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



Appendix I  
Page 2 of 7



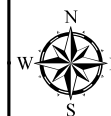


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| <span style="border: 1px dashed black; display: inline-block; width: 15px; height: 10px;"></span> Limits of Construction | <span style="background-color: yellow; display: inline-block; width: 15px; height: 10px;"></span> Surface Water Impact       |
| <span style="background-color: lightpurple; display: inline-block; width: 15px; height: 10px;"></span> Pond Site         | <span style="background-color: orange; display: inline-block; width: 15px; height: 10px;"></span> Other Surface Water Impact |
| <span style="border-top: 1px dotted green; display: inline-block; width: 15px;"></span> Noise Wall                       | <span style="background-color: lightgreen; display: inline-block; width: 15px; height: 10px;"></span> Temporary Impact       |
| <span style="border-bottom: 1px solid blue; display: inline-block; width: 15px;"></span> Wetland                         | <span style="background-color: purple; display: inline-block; width: 15px; height: 10px;"></span> Shading Impact             |
| <span style="border-bottom: 1px solid yellow; display: inline-block; width: 15px;"></span> Surface Water                 |  |
| <span style="border-bottom: 1px solid orange; display: inline-block; width: 15px;"></span> Other Surface Water           |  |

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

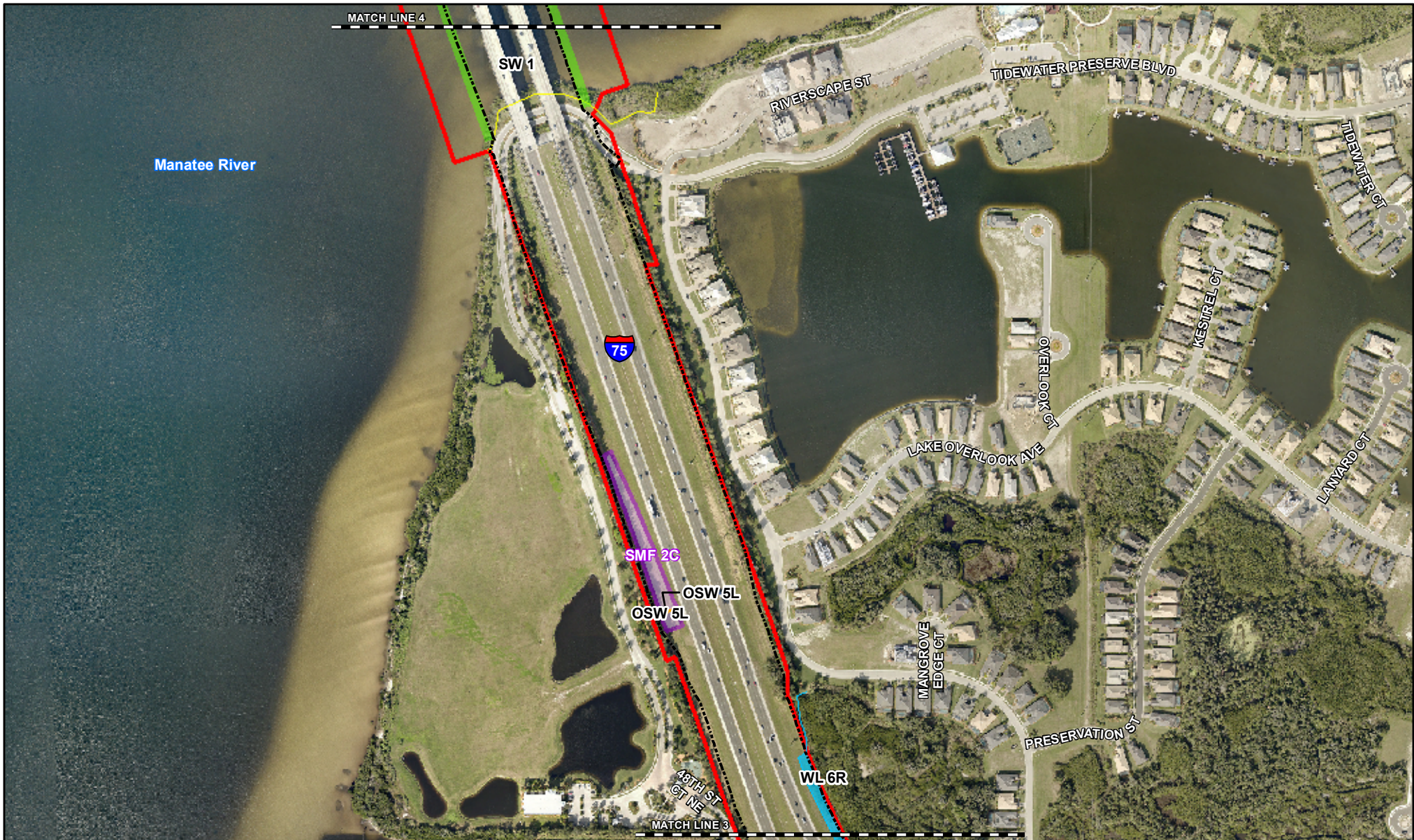
**Wetland, Surface Water, and Other  
Surface Water Impact Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301**

Manatee County, Florida  
FPID Number: 201032-5-32-01



Appendix I  
Page 3 of 7





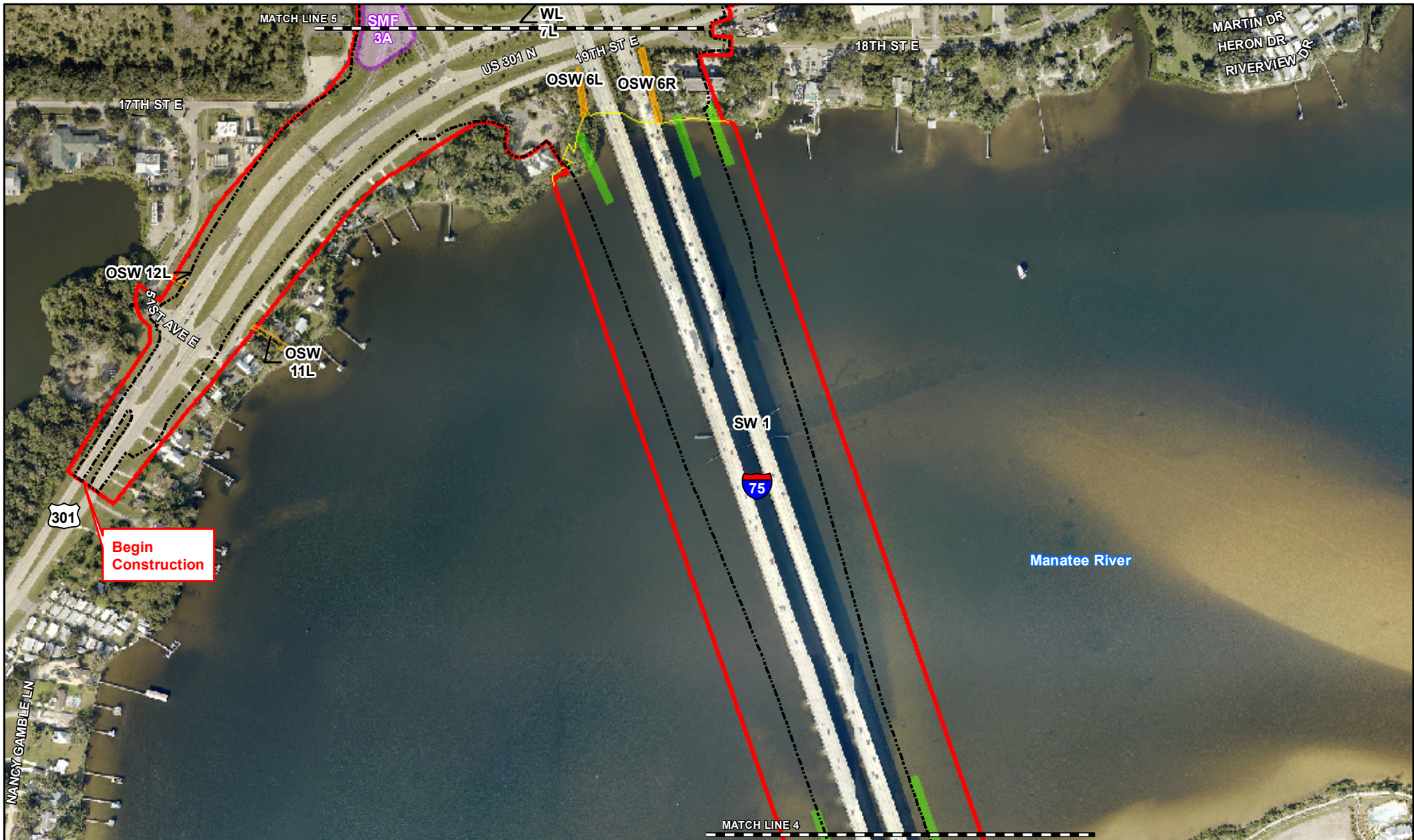
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|--|--|
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| <span style="border: 2px dashed black; display: inline-block; width: 15px; height: 10px;"></span> Limits of Construction | <span style="background-color: yellow; display: inline-block; width: 15px; height: 10px;"></span> Surface Water Impact       |
| <span style="background-color: purple; display: inline-block; width: 15px; height: 10px;"></span> Pond Site              | <span style="background-color: orange; display: inline-block; width: 15px; height: 10px;"></span> Other Surface Water Impact |
| <span style="color: green; font-weight: bold;">⋯</span> Noise Wall   | <span style="background-color: lightgreen; display: inline-block; width: 15px; height: 10px;"></span> Temporary Impact       |
| <span style="color: blue; font-weight: bold;">—</span> Wetland   | <span style="background-color: magenta; display: inline-block; width: 15px; height: 10px;"></span> Shading Impact            |
| <span style="color: yellow; font-weight: bold;">—</span> Surface Water   |  |
| <span style="color: orange; font-weight: bold;">—</span> Other Surface Water   |  |

**References:**  
 Wetland Location: KCA, 2017  
 Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
 Surface Water Impact Location Map  
 SR 93(I-75) at US 301 Interchange  
 From North of SR 64 to  
 North of US 301

Manatee County, Florida  
 FPID Number: 201032-5-32-01





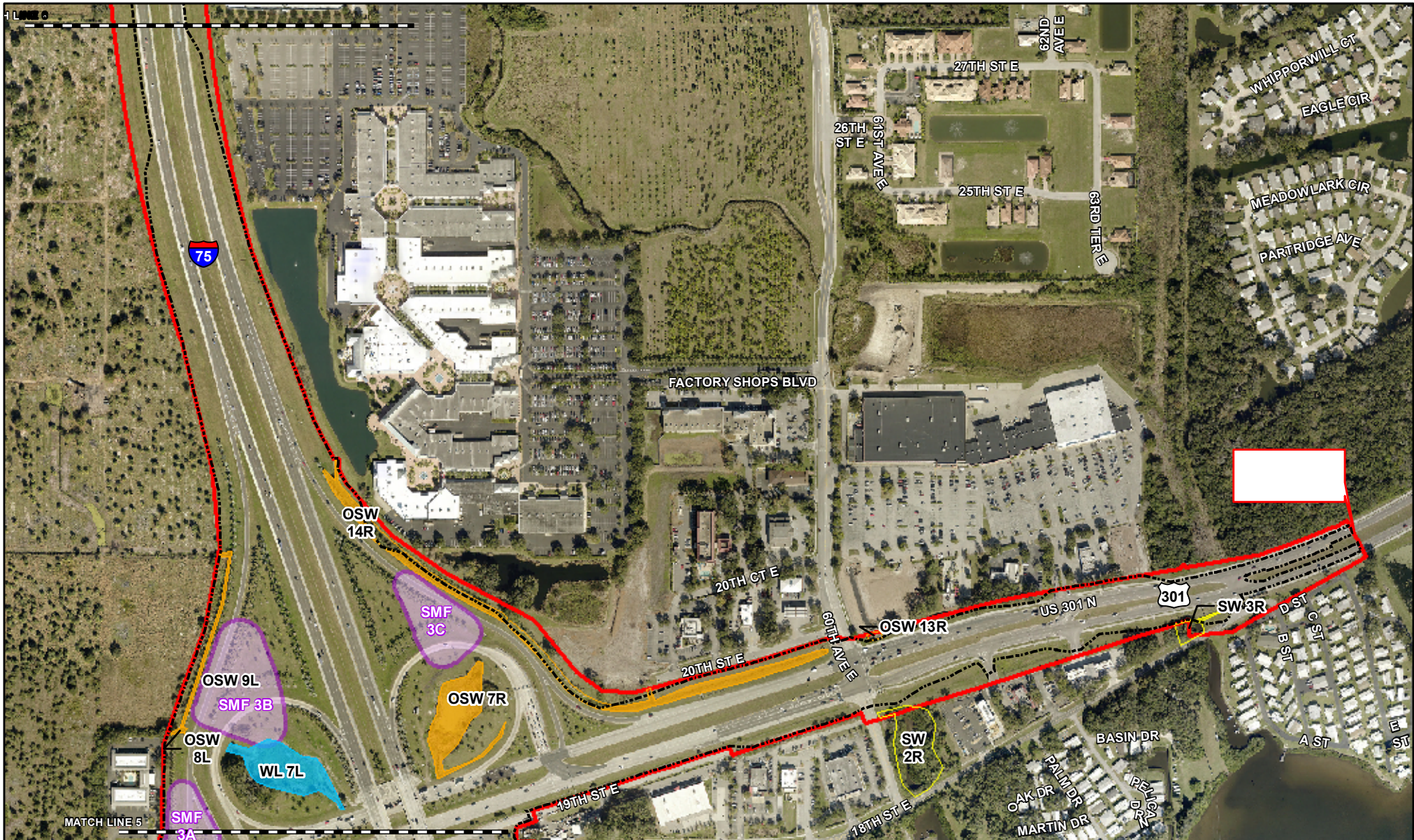
- |  |  |
|--|--|
| <span style="border: 2px solid red; padding: 2px;"> </span> Project Area                               | <span style="background-color: lightblue; border: 1px solid black; padding: 2px;"> </span> Wetland Impact          |
| <span style="border: 2px dashed black; padding: 2px;"> </span> Limits of Construction                  | <span style="background-color: yellow; border: 1px solid black; padding: 2px;"> </span> Surface Water Impact       |
| <span style="background-color: lightpurple; border: 1px solid black; padding: 2px;"> </span> Pond Site | <span style="background-color: orange; border: 1px solid black; padding: 2px;"> </span> Other Surface Water Impact |
| <span style="color: green;">----</span> Noise Wall   | <span style="background-color: lightgreen; border: 1px solid black; padding: 2px;"> </span> Temporary Impact       |
| <span style="color: blue;">—</span> Wetland  | <span style="background-color: purple; border: 1px solid black; padding: 2px;"> </span> Shading Impact             |
| <span style="color: yellow;">—</span> Surface Water  |  |
| <span style="color: orange;">—</span> Other Surface Water  |  |

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
Surface Water Impact Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01





- |  |   |
|--|---|
| <span style="border: 2px solid red; padding: 2px;"> </span> Project Area                                     | <span style="background-color: lightblue; border: 1px solid blue; padding: 2px;"> </span> Wetland Impact            |
| <span style="border: 2px dashed black; padding: 2px;"> </span> Limits of Construction                        | <span style="background-color: yellow; border: 1px solid yellow; padding: 2px;"> </span> Surface Water Impact       |
| <span style="background-color: lightpurple; border: 1px solid purple; padding: 2px;"> </span> Pond Site      | <span style="background-color: orange; border: 1px solid orange; padding: 2px;"> </span> Other Surface Water Impact |
| <span style="border-top: 2px dotted green; padding: 2px;"> </span> Noise Wall                                | <span style="background-color: lightgreen; border: 1px solid green; padding: 2px;"> </span> Temporary Impact        |
| <span style="background-color: lightblue; border: 1px solid blue; padding: 2px;"> </span> Wetland            | <span style="background-color: lightpurple; border: 1px solid purple; padding: 2px;"> </span> Shading Impact        |
| <span style="background-color: yellow; border: 1px solid yellow; padding: 2px;"> </span> Surface Water       |   |
| <span style="background-color: orange; border: 1px solid orange; padding: 2px;"> </span> Other Surface Water |   |

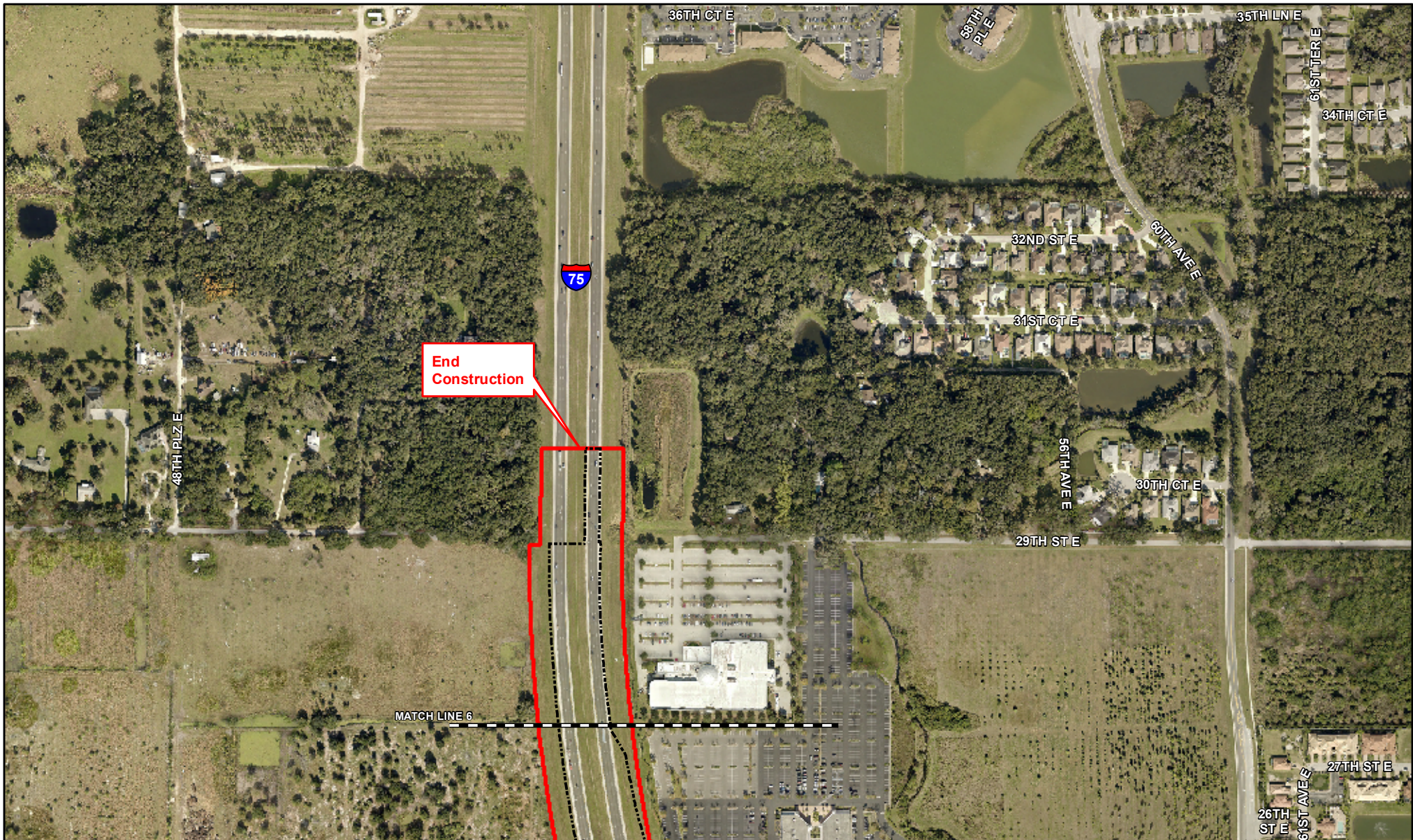
**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

**Wetland, Surface Water, and Other  
Surface Water Impact Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301**

Manatee County, Florida  
FPID Number: 201032-5-32-01







End  
Construction

MATCH LINE 6

- |  |  |
|--|--|
| <span style="border: 2px solid red; display: inline-block; width: 15px; height: 10px;"></span> Project Area              | <span style="background-color: lightblue; display: inline-block; width: 15px; height: 10px;"></span> Wetland Impact          |
| <span style="border: 1px dashed black; display: inline-block; width: 15px; height: 10px;"></span> Limits of Construction | <span style="background-color: yellow; display: inline-block; width: 15px; height: 10px;"></span> Surface Water Impact       |
| <span style="background-color: lightpurple; display: inline-block; width: 15px; height: 10px;"></span> Pond Site         | <span style="background-color: orange; display: inline-block; width: 15px; height: 10px;"></span> Other Surface Water Impact |
| <span style="color: green; font-weight: bold;">.....</span> Noise Wall   | <span style="background-color: lightgreen; display: inline-block; width: 15px; height: 10px;"></span> Temporary Impact       |
| <span style="color: blue; font-weight: bold;">———</span> Wetland   | <span style="background-color: purple; display: inline-block; width: 15px; height: 10px;"></span> Shading Impact             |
| <span style="color: yellow; font-weight: bold;">———</span> Surface Water   |  |
| <span style="color: orange; font-weight: bold;">———</span> Other Surface Water   |  |

**References:**  
Wetland Location: KCA, 2017  
Aerial: FDOT, 2017

Wetland, Surface Water, and Other  
Surface Water Impact Location Map  
SR 93(I-75) at US 301 Interchange  
From North of SR 64 to  
North of US 301

Manatee County, Florida  
FPID Number: 201032-5-32-01



## ***APPENDIX J***

### **WETLAND IMPACT DRAWINGS**





## GENERAL NOTES

1. THE FLORIDA DEPARTMENT OF TRANSPORTATION PROPOSES TO RECONSTRUCT AND WIDEN BOTH US 301 AND I-75 IN THE AREA OF THE US 301/I-75 INTERCHANGE FROM SIX TO EIGHT LANES. THE PROJECT IS LOCATED IN MANATEE COUNTY, FLORIDA. THE IMPROVEMENTS WILL RESULT IN WETLAND AND SURFACE WATER IMPACTS.
2. STRICT ADHERENCE TO SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION USED IN CONJUNCTION WITH THIS APPLICATION PROVIDE REASONABLE ASSURANCE THAT WATER QUALITY WILL NOT BE VIOLATED.
3. TYPES OF EQUIPMENT INVOLVED IN THE CONSTRUCTION WILL INCLUDE: GRADE ALL, DUMP TRUCKS, AND FRONT END LOADER. THE EQUIPMENT WILL BE TRUCKED OR SELF PROPELLED TO THE SITE.
4. TURBIDITY CURTAINS, SILT FENCES, SAND BAGS, SYNTHETIC BALES OR SOME COMBINATION OF THESE ITEMS WILL BE USED AS DIRECTED BY THE PROJECT ENGINEER TO MAINTAIN STATE WATER QUALITY STANDARDS.
5. ANY UNSUITABLE MATERIAL EXCAVATED DURING THE INSTALLATION OF THE FILL MATERIAL WILL BE DISPOSED OF AND CONTAINED IN UPLAND SITES PROVIDED BY THE CONTRACTOR.
6. TRAFFIC WILL BE MAINTAINED ON US 301 AND I-75 DURING CONSTRUCTION.
7. FILL MATERIAL SHALL BE COMPRISED OF CLEAN, SUITABLE BORROW MATERIAL.
8. DURING THE CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS, THE CONTRACTOR, AS DIRECTED BY THE PROJECT ENGINEER, SHALL BE REQUIRED TO MAINTAIN WATER FLOW AND ACCOMMODATE RAINFALL EVENTS.
9. ALL ELEVATIONS SHOWN IN THIS PERMIT APPLICATION ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
10. JURISDICTIONAL IMPACTS PROPOSED BY THIS PROJECT:

	AREA
WETLAND IMPACTS	5.08 AC
SURFACE WATER IMPACTS	0.11 AC
IMPERVIOUS SURFACE COVER (ISC) 2.79 AC	

FLORIDA DEPARTMENT OF TRANSPORTATION

STATE ROAD NO. 93

MANATEE COUNTY

	BY	INTERCHANGE RECONSTRUCTION	
DRAWN	MRM		
CHECKED	CS	F.P.I.D. 201032-5-52-01	SHEET 2

<i>TOTAL SURFACE WATER &amp; WETLAND IMPACTS</i>					
<i>SURFACE WATER &amp; WETLAND</i>	<i>FILL</i>	<i>EXCAVATION</i>	<i>TOTAL DIRECT IMPACTS</i>	<i>SHADING</i>	<i>TEMPORARY</i>
<i>WETLAND 3M</i>	<i>0.36</i>	<i>0.05</i>	<i>0.41</i>		
<i>WETLAND 3L</i>	<i>0.86</i>		<i>0.86</i>		
<i>WETLAND 4</i>	<i>1.70</i>	<i>0.65</i>	<i>2.35</i>	<i>0.67</i>	<i>0.92</i>
<i>WETLAND 6R</i>	<i>0.32</i>	<i>0.04</i>	<i>0.36</i>		
<i>WETLAND 7L</i>	<i>1.10</i>		<i>1.10</i>		
<i>SURFACE WATER 1</i>	<i>0.09</i>		<i>0.09</i>		<i>1.42</i>
<i>SURFACE WATER 3R</i>	<i>0.02</i>		<i>0.02</i>		
<i>OTHER SURFACE WATER 1L</i>	<i>0.07</i>		<i>0.07</i>		
<i>OTHER SURFACE WATER 2L</i>	<i>0.12</i>		<i>0.12</i>		
<i>OTHER SURFACE WATER 3L</i>		<i>0.001</i>	<i>0.001</i>		
<i>OTHER SURFACE WATER 3M</i>	<i>0.02</i>		<i>0.02</i>		
<i>OTHER SURFACE WATER 4R</i>	<i>0.03</i>		<i>0.03</i>		
<i>OTHER SURFACE WATER 5L</i>	<i>0.01</i>		<i>0.01</i>		
<i>OTHER SURFACE WATER 6L</i>	<i>0.08</i>		<i>0.08</i>		
<i>OTHER SURFACE WATER 6R</i>		<i>0.14</i>	<i>0.14</i>		
<i>OTHER SURFACE WATER 7R</i>	<i>1.06</i>		<i>1.06</i>		
<i>OTHER SURFACE WATER 8L</i>	<i>0.02</i>		<i>0.02</i>		
<i>OTHER SURFACE WATER 9L</i>	<i>0.04</i>	<i>0.10</i>	<i>0.14</i>		
<i>OTHER SURFACE WATER 12L</i>	<i>0.002</i>		<i>0.002</i>		
<i>OTHER SURFACE WATER 14R</i>	<i>1.10</i>		<i>1.10</i>		
<i>TOTAL</i>	<i>7.00</i>	<i>0.98</i>	<i>7.98</i>	<i>0.67</i>	<i>2.34</i>

Kisinger Campo & Associates Corp.  
201 N. Franklin Street, Suite 400  
Tampa, Florida 33602  
Florida Certificate of Authorization No. 02317

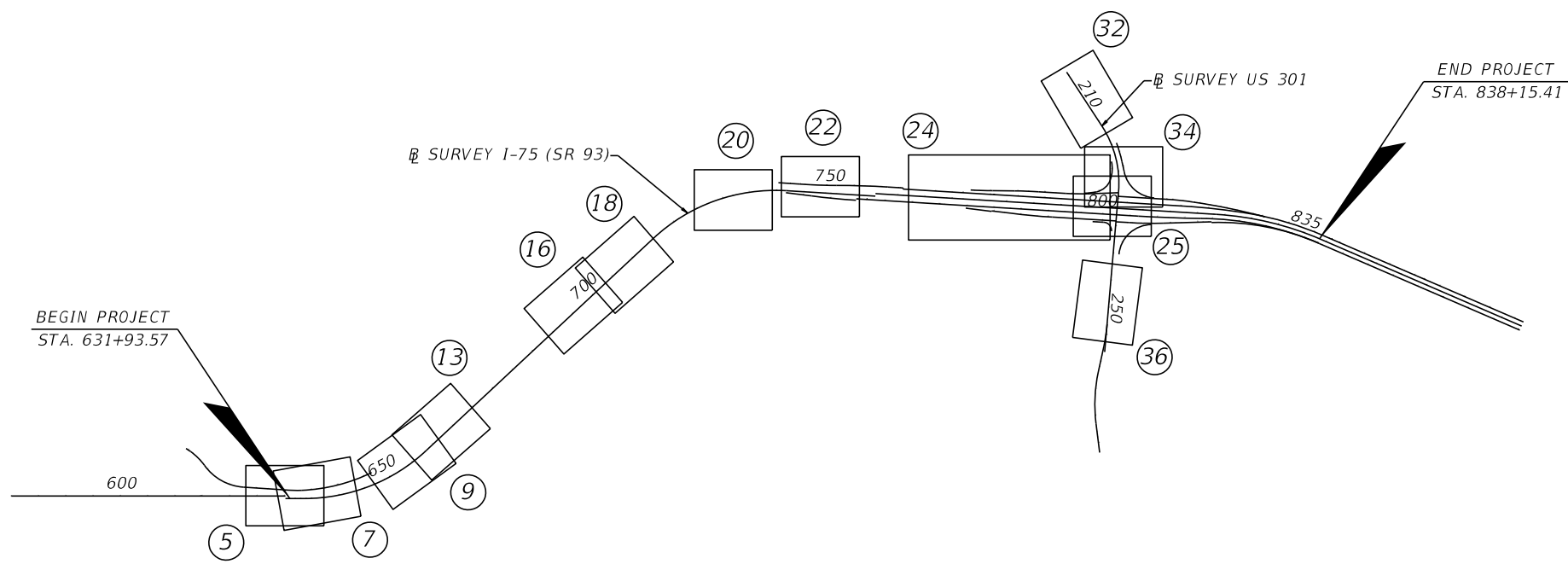
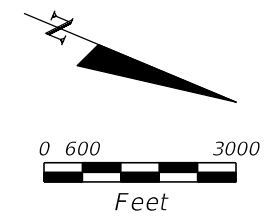
*MANATEE COUNTY*

*STATE RD NO. 93 (I-75)  
FROM SR 64 TO US 301*

*TOTAL SURFACE  
WATER &  
WETLAND IMPACTS*

*SHEET*

*3*



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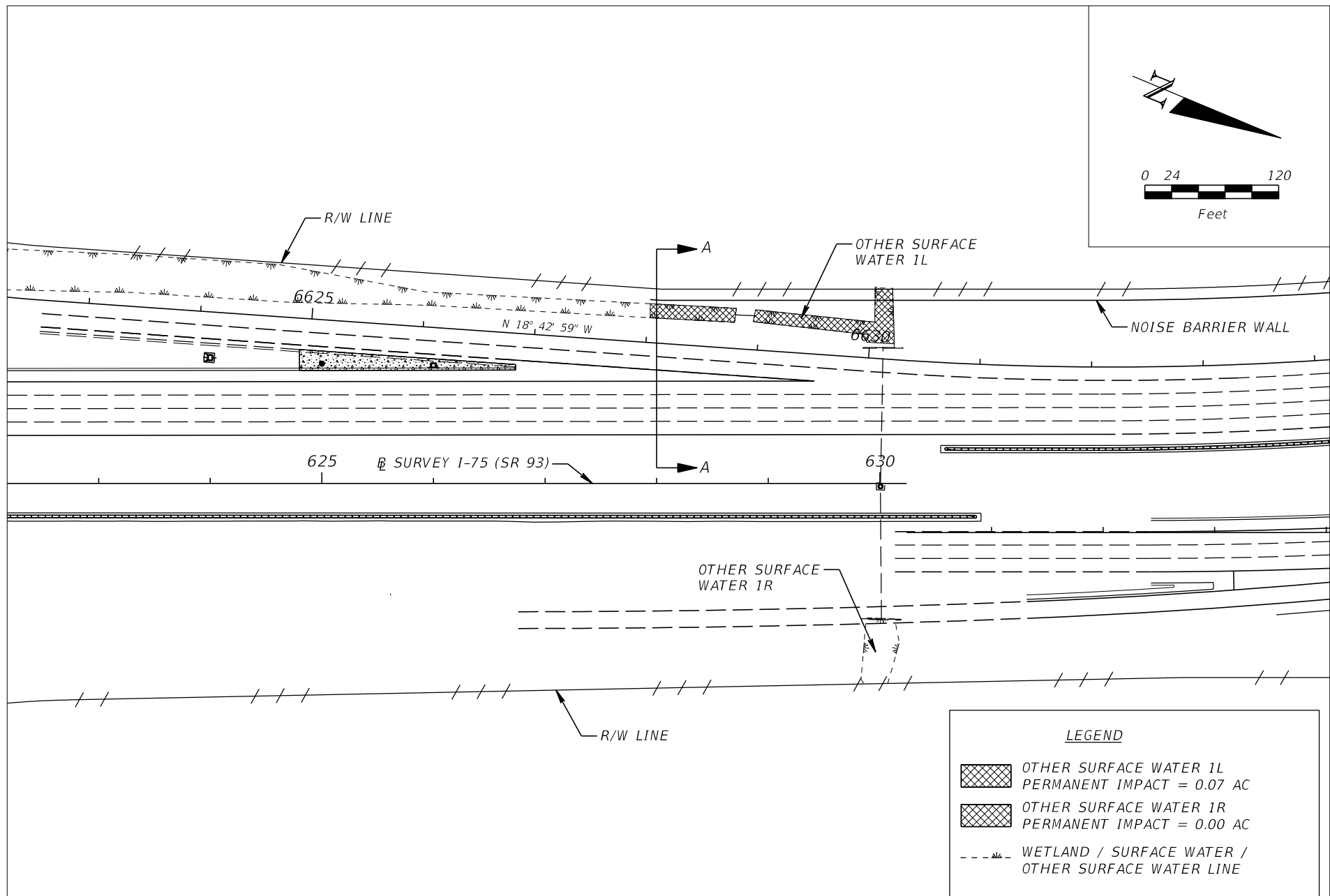
MANATEE COUNTY

STATE RD NO. 93 (I-75)  
FROM SR 64 TO US 301

SHEET LAYOUT

SHEET

4

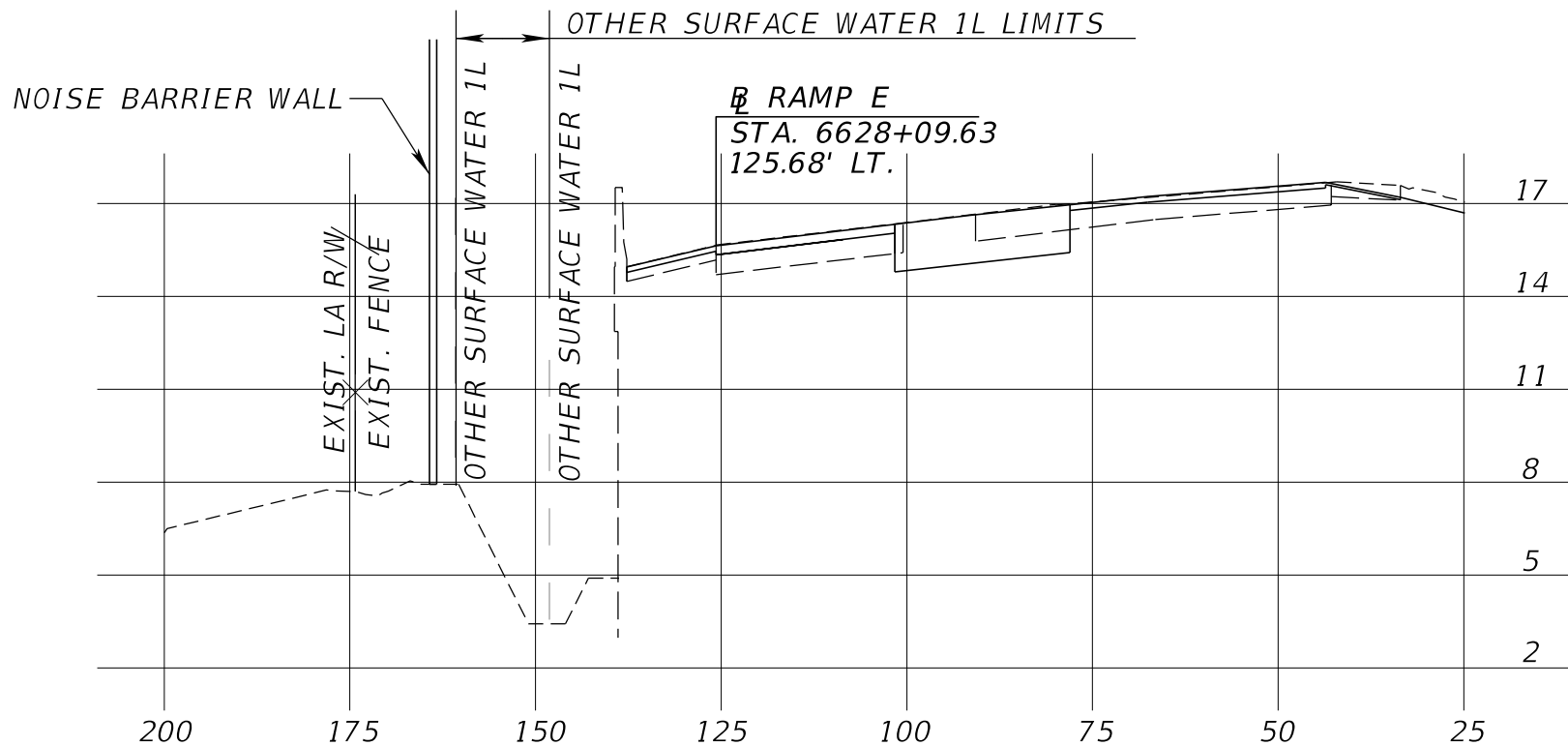


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MANATEE COUNTY  
 STATE ROAD NO. 93 (I-75)  
 FROM SR 64 TO US 301

PLAN VIEW  
 OTHER SURFACE  
 WATER 1L AND 1R

SHEET  
 5



JURISDICTIONAL FILL (0.07 AC)

OTHER SURFACE WATER 1L  
SECTION A-A  
STA 628+00.00  
OFFSET 0' LT.

SCALE: 6' VERT  
25' HORIZ

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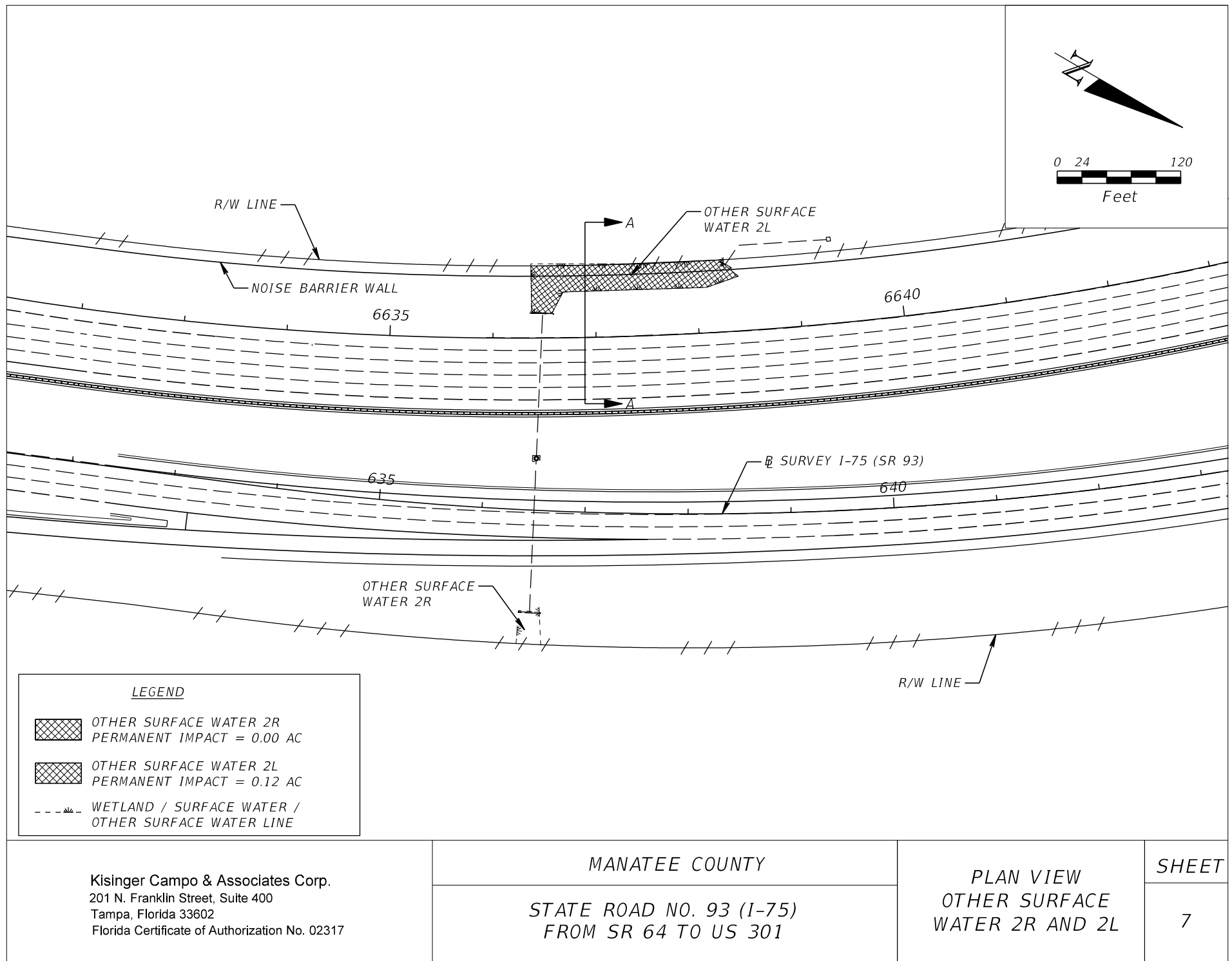
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 1L

SHEET

6



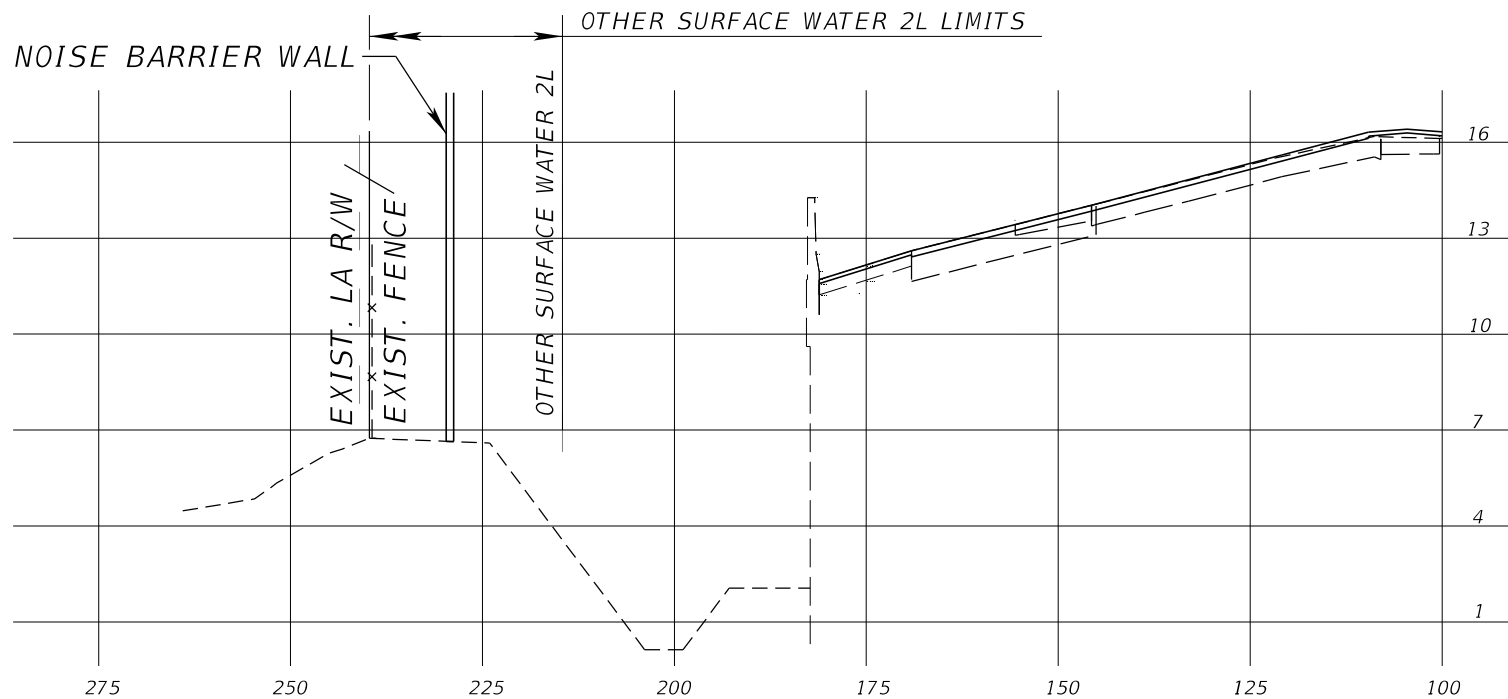
Kisinger Campo & Associates Corp.  
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Tampa, Florida 33602  
Florida Certificate of Authorization No. 02317

MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
OTHER SURFACE  
WATER 2R AND 2L

SHEET  
7



JURISDICTIONAL FILL (0.12 AC)

OTHER SURFACE WATER 2L  
SECTION A-A  
STA 637+00.00  
OFFSET @ LT.

SCALE: 6' VERT  
25' HORIZ

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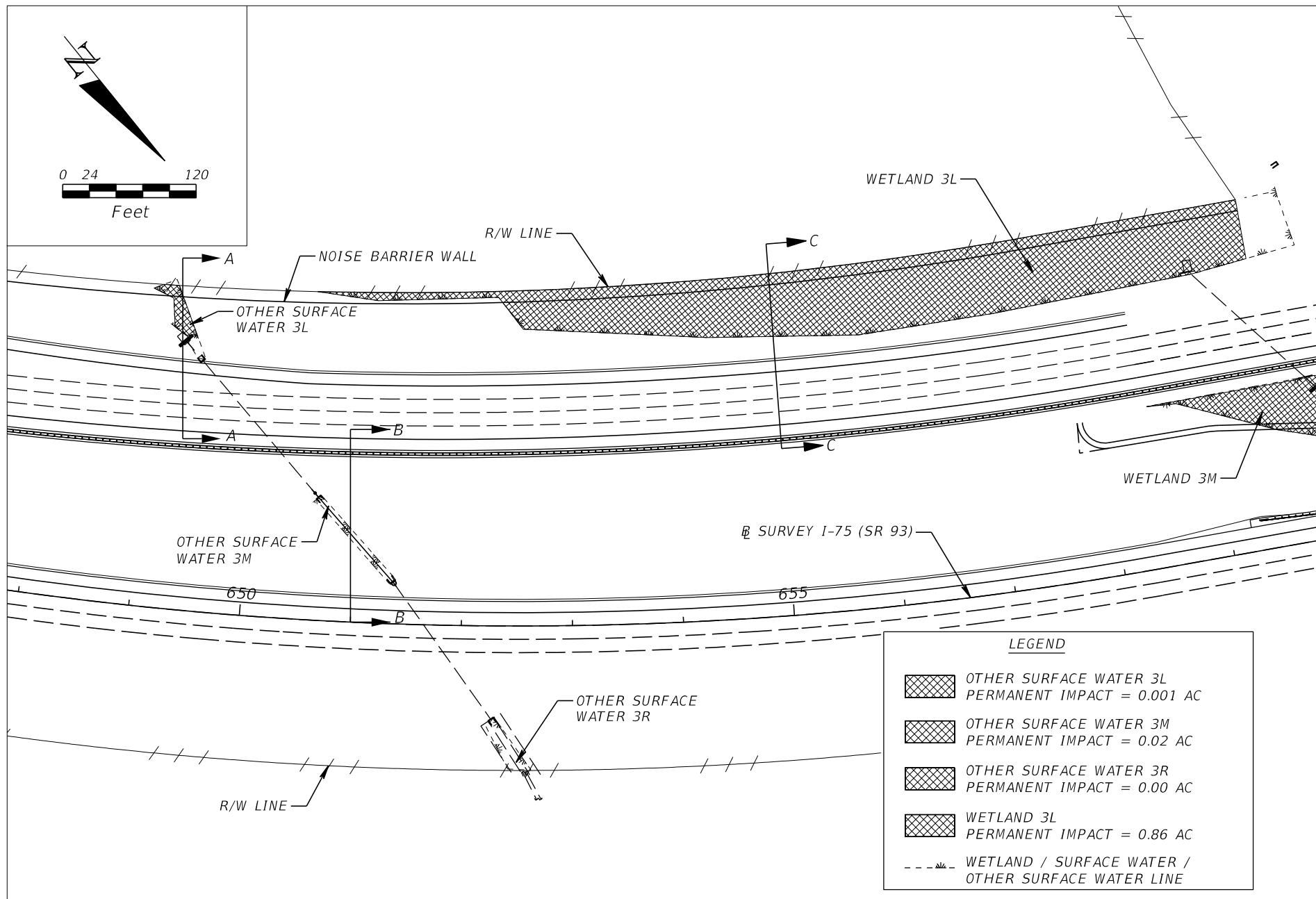
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 2L

SHEET

8



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MANATEE COUNTY  
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
OTHER SURFACE  
WATER 3L, 3M, 3R  
AND WETLAND 3L

SHEET

9

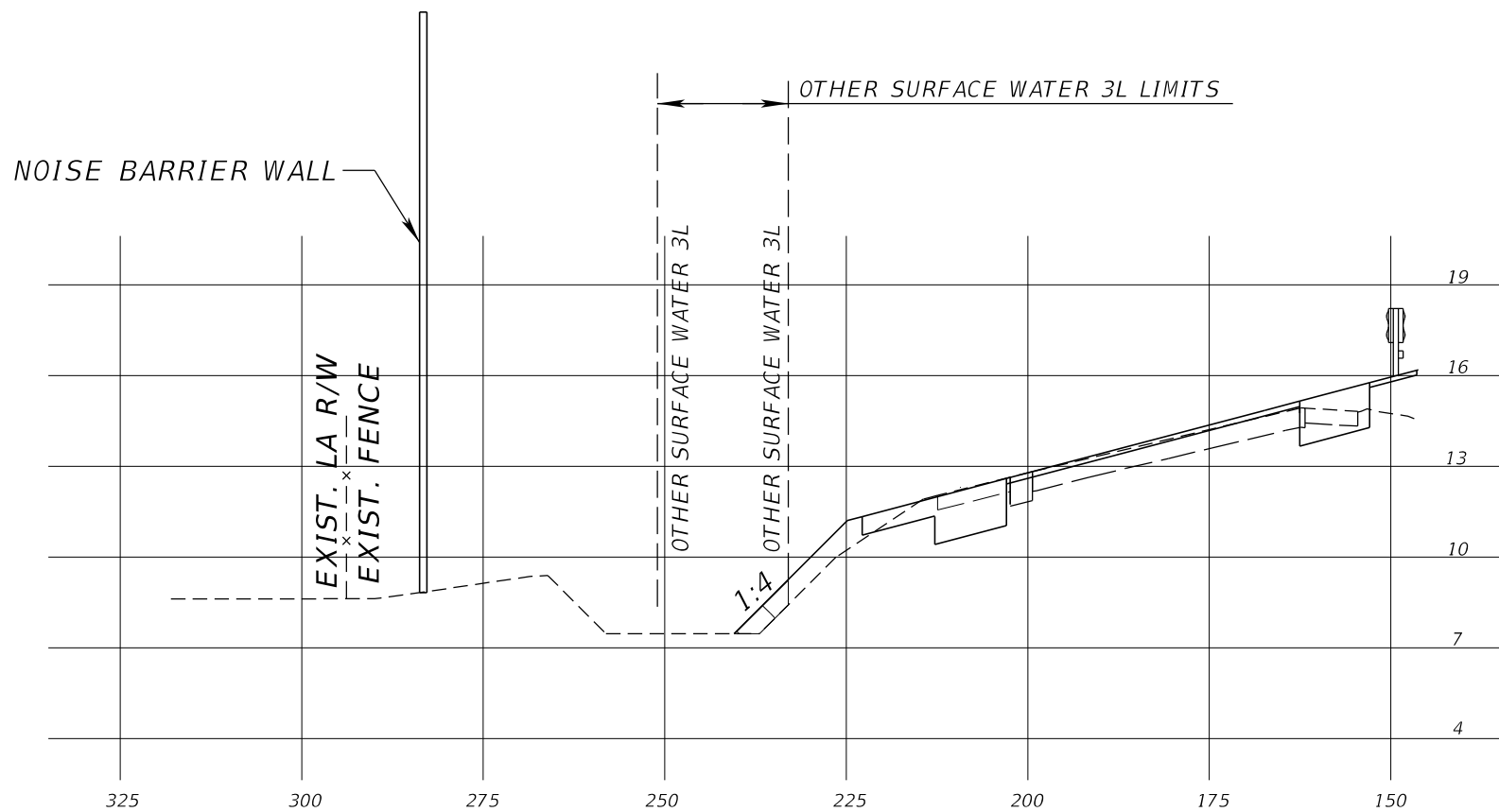
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JURISDICTIONAL FILL (0.00 AC)



JURISDICTIONAL EXCAVATION (0.01 AC)

OTHER SURFACE WATER 3L  
SECTION A-A  
STA 649+50.00  
OFFSET @ LT.

SCALE: 6' VERT  
25' HORIZ

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Florida Certificate of Authorization No. 02317

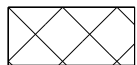
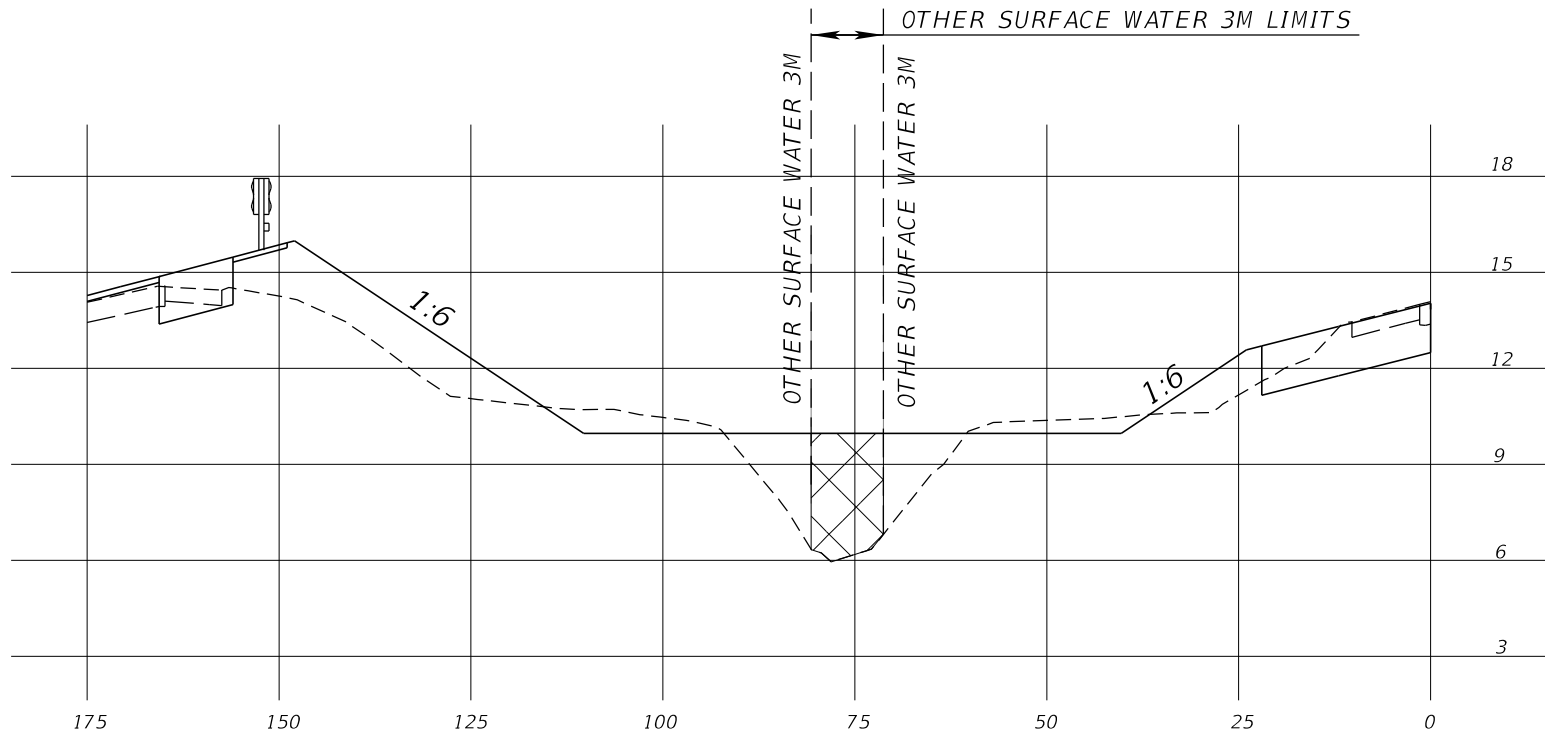
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 3L

SHEET

10



JURISDICTIONAL FILL (0.02 AC)

OTHER SURFACE WATER 3M  
SECTION B-B  
STA 651+00.00  
OFFSET @ LT.

SCALE: 6' VERT  
25' HORIZ

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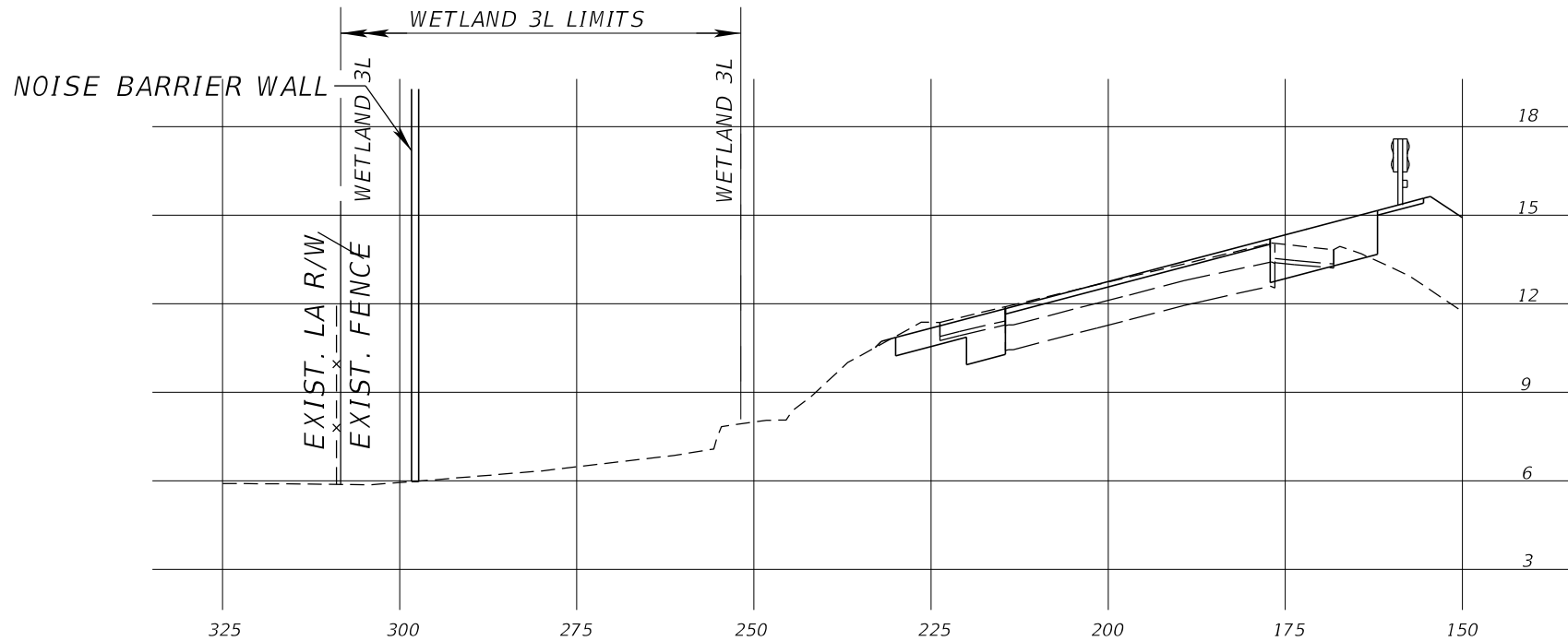
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 3M

SHEET

11



JURISDICTIONAL FILL (0.86 AC)

WETLAND 3L  
SECTION C-C

STA 655+00.00

OFFSET @ LT.

SCALE: 6' VERT  
25' HORIZ

Kisinger Campo & Associates Corp.  
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Tampa, Florida 33602  
Florida Certificate of Authorization No. 02317

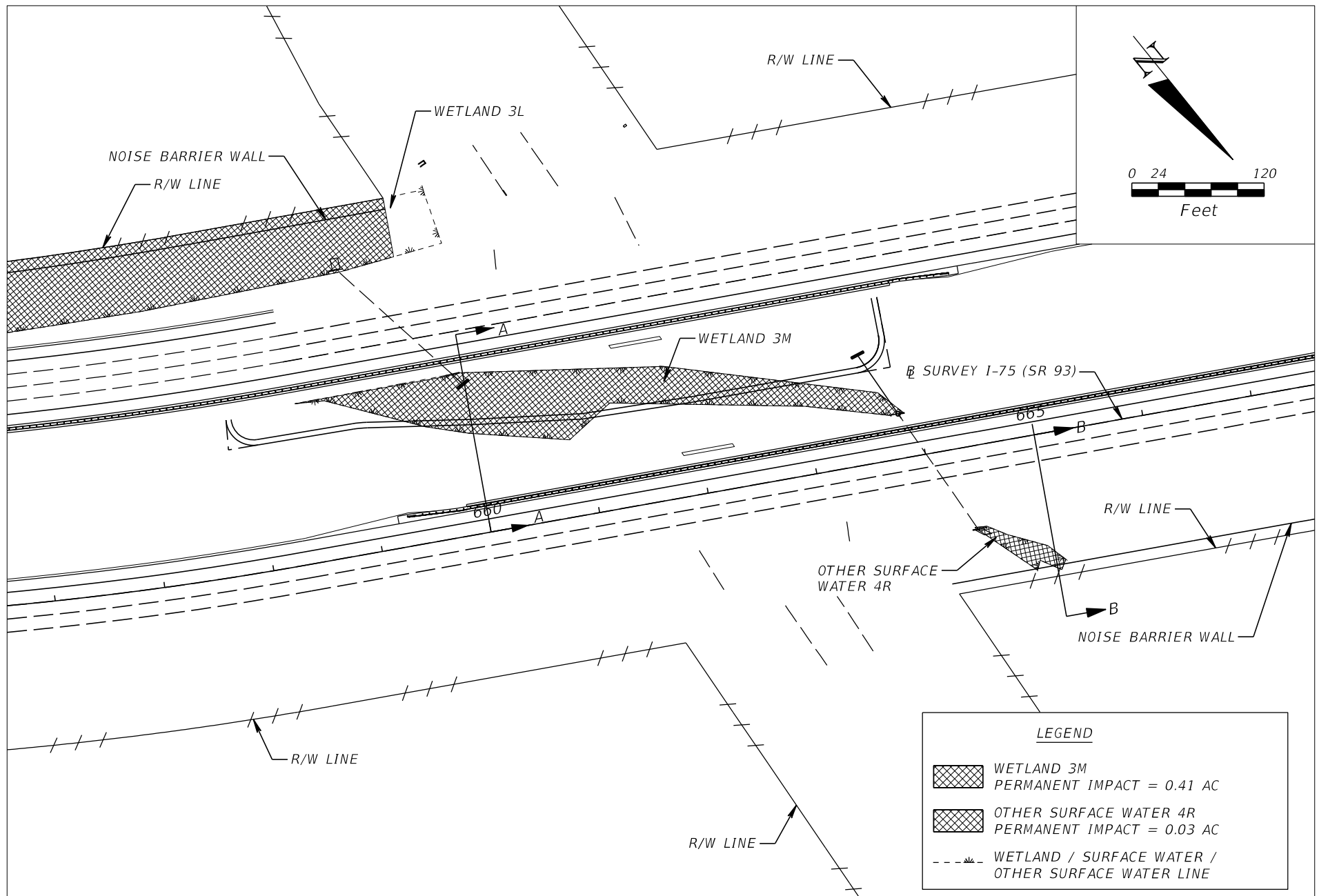
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
WETLAND 3L

SHEET

12



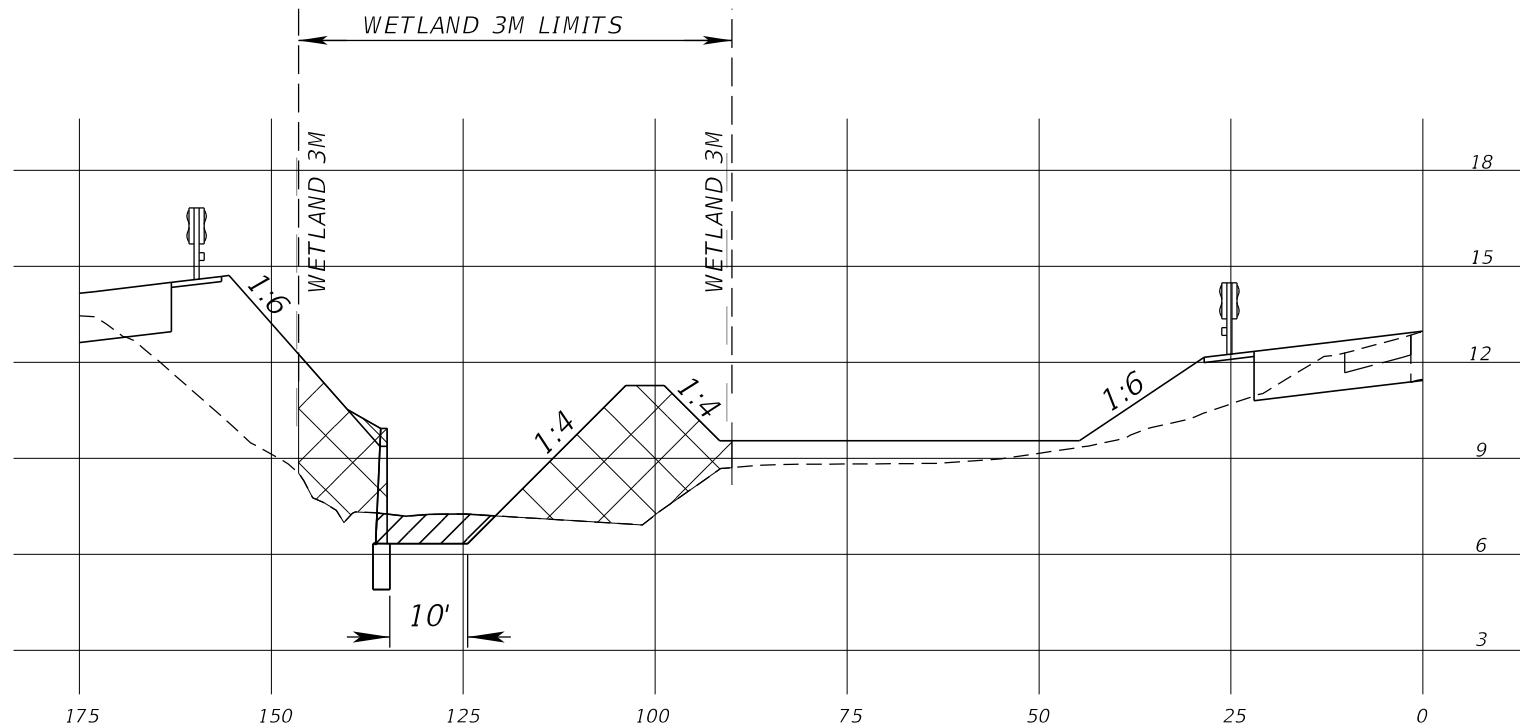
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MANATEE COUNTY  
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
WETLAND 3M AND  
OTHER SURFACE  
WATER 4R

SHEET

13



JURISDICTIONAL FILL (0.36 AC)



JURISDICTIONAL EXCAVATION (0.05 AC)

WETLAND 3M  
SECTION A-A  
STA 660+00.00  
OFFSET  $\frac{1}{2}$  LT.

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

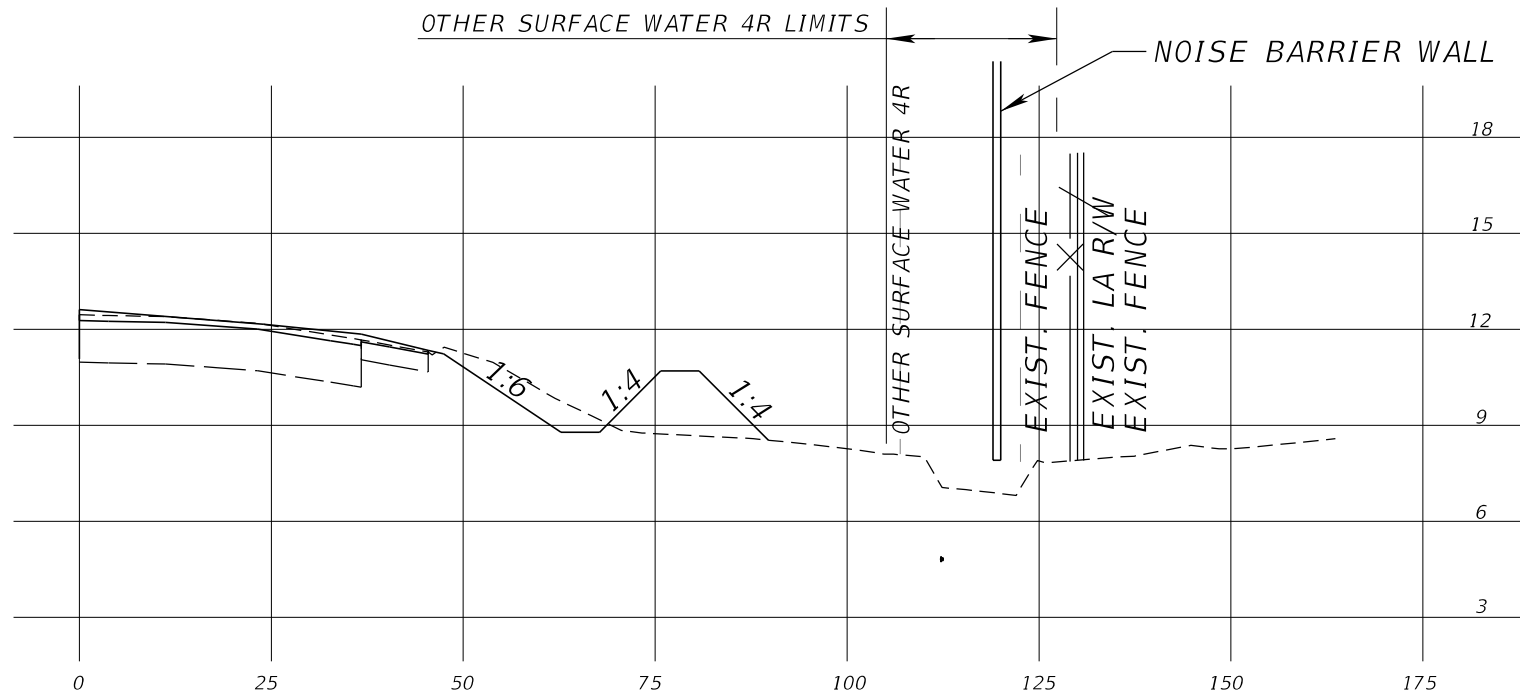
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
WETLAND 3M

SHEET

14





JURISDICTIONAL FILL (0.03 AC)

OTHER SURFACE WATER 4R  
SECTION B-B  
STA 665+00.00  
OFFSET @ RT.

SCALE: 6' VERT  
25' HORIZ

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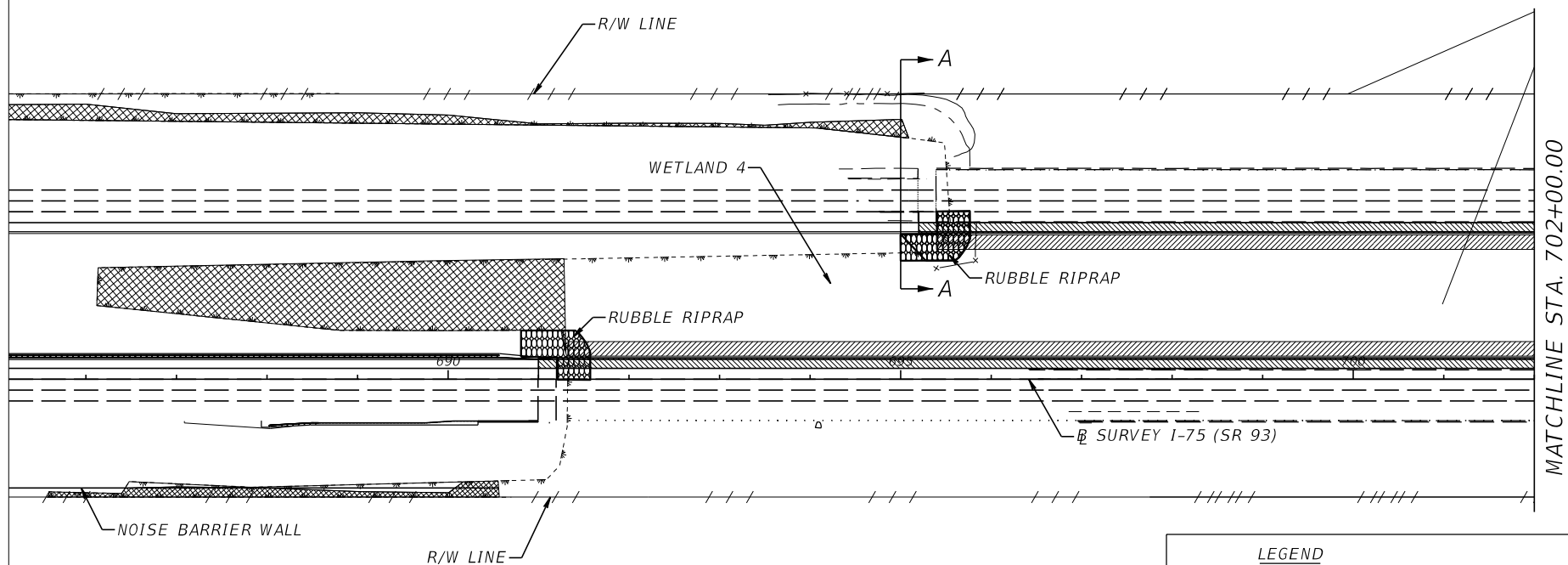
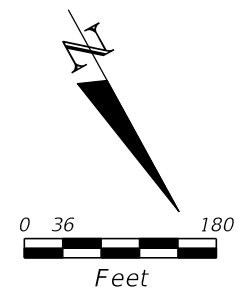
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 4R

SHEET

15



LEGEND	
	WETLAND 4 PERMANENT IMPACT = 2.35 AC,
	SHADING IMPACT = 0.67 AC
	WETLAND 4 TEMPORARY IMPACT = 0.92 AC
	WETLAND / SURFACE WATER / OTHER SURFACE WATER LINE

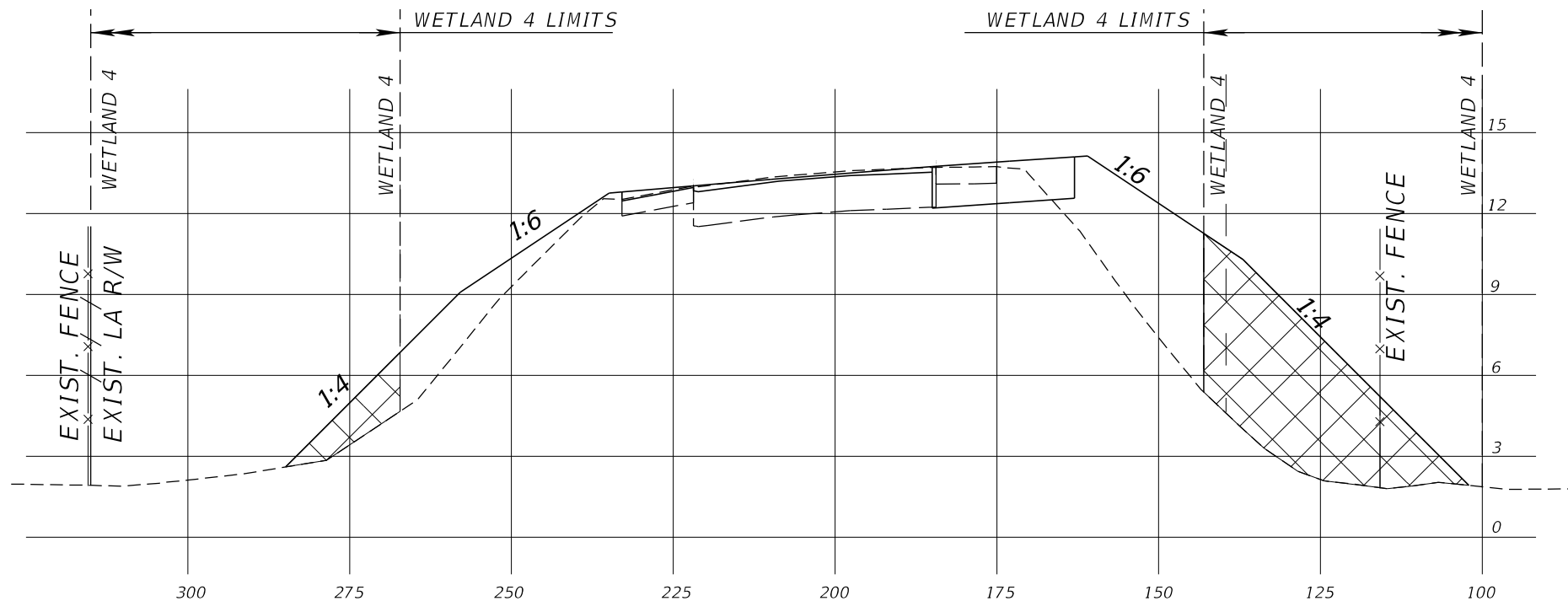
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MANATEE COUNTY  
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
WETLAND 4

SHEET

16



JURISDICTIONAL FILL (1.70 AC)



JURISDICTIONAL EXCAVATION (0.65 AC)

WETLAND 4  
SECTION A-A  
STA 695+00.00  
OFFSET @ LT.

SCALE: 6' VERT  
25' HORIZ

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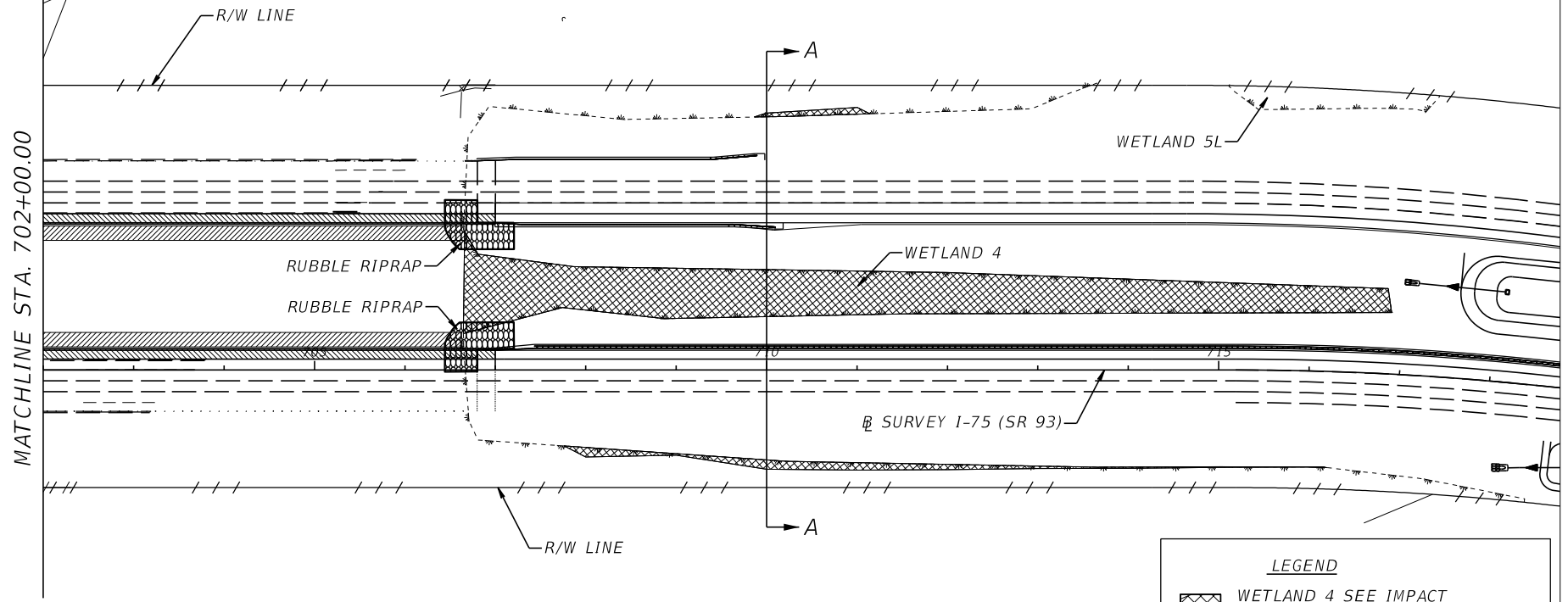
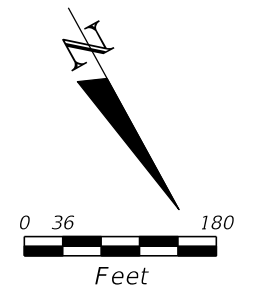
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
WETLAND 4

SHEET

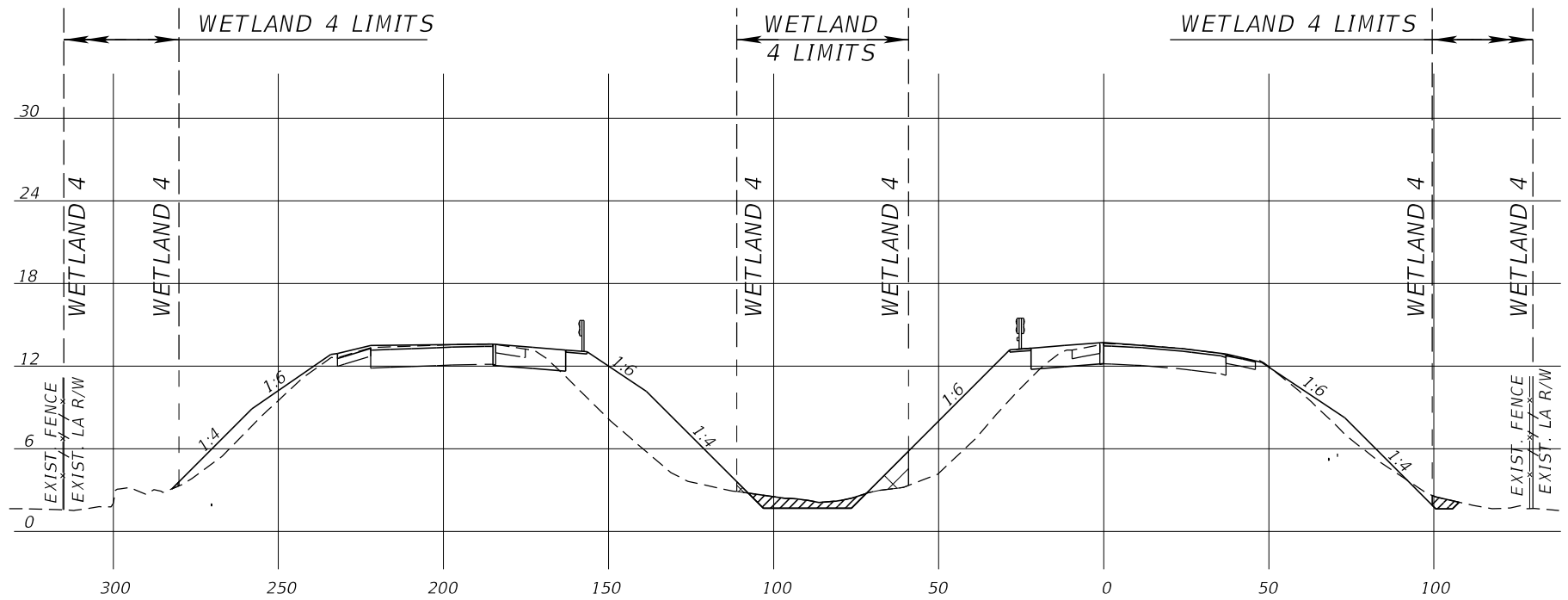
17



**LEGEND**

- WETLAND 4 SEE IMPACT INFORMATION IN SHEET 15
- WETLAND 5L PERMANENT IMPACT = 0.00 AC
- WETLAND / SURFACE WATER / OTHER SURFACE WATER LINE

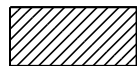
Kisinger Campo & Associates Corp. 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Florida Certificate of Authorization No. 02317	MANATEE COUNTY	PLAN VIEW WETLAND 4 AND 5L	SHEET
	STATE ROAD NO. 93 (I-75) FROM SR 64 TO US 301		18



WETLAND 4  
SECTION A-A  
STA 710+00.00  
B SURVEY I-75 (SR 93)



JURISDICTIONAL FILL (1.70 AC)



JURISDICTIONAL EXCAVATION (0.65 AC)

SCALE: 12' VERT  
50' HORIZ

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MANATEE COUNTY

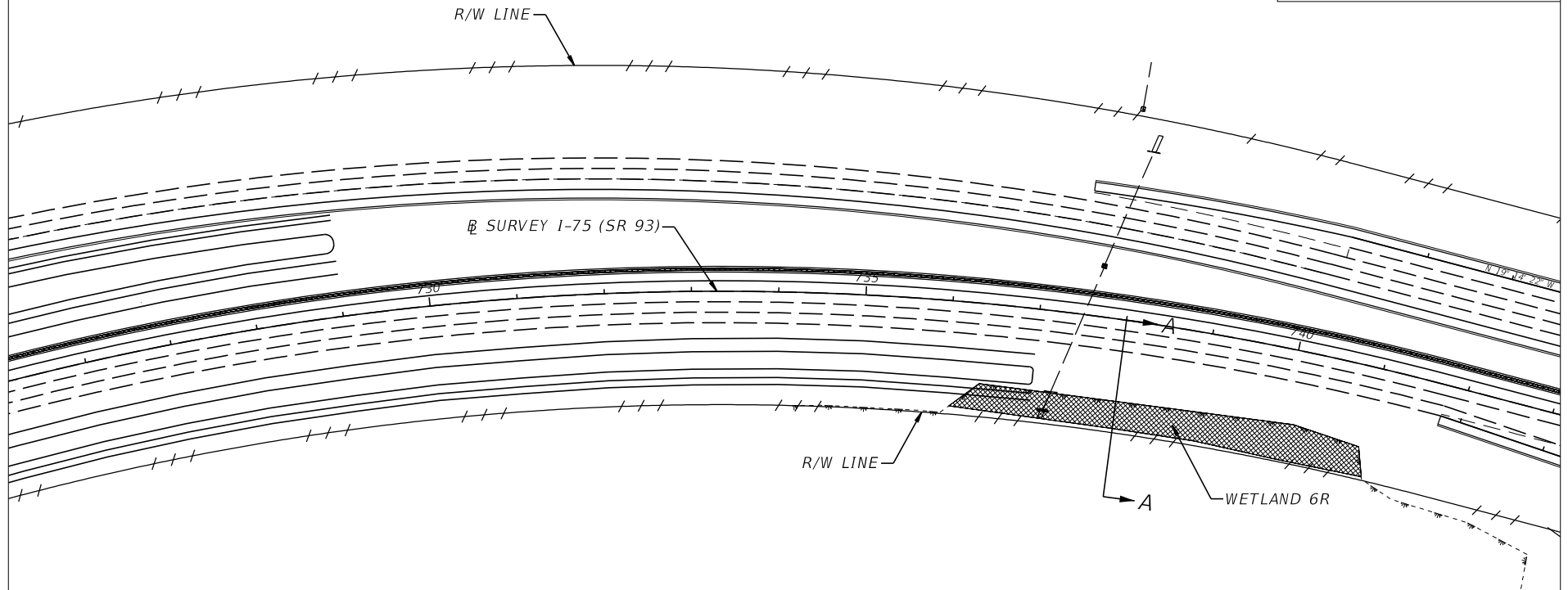
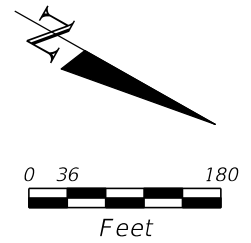
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
WETLAND 4

SHEET

19





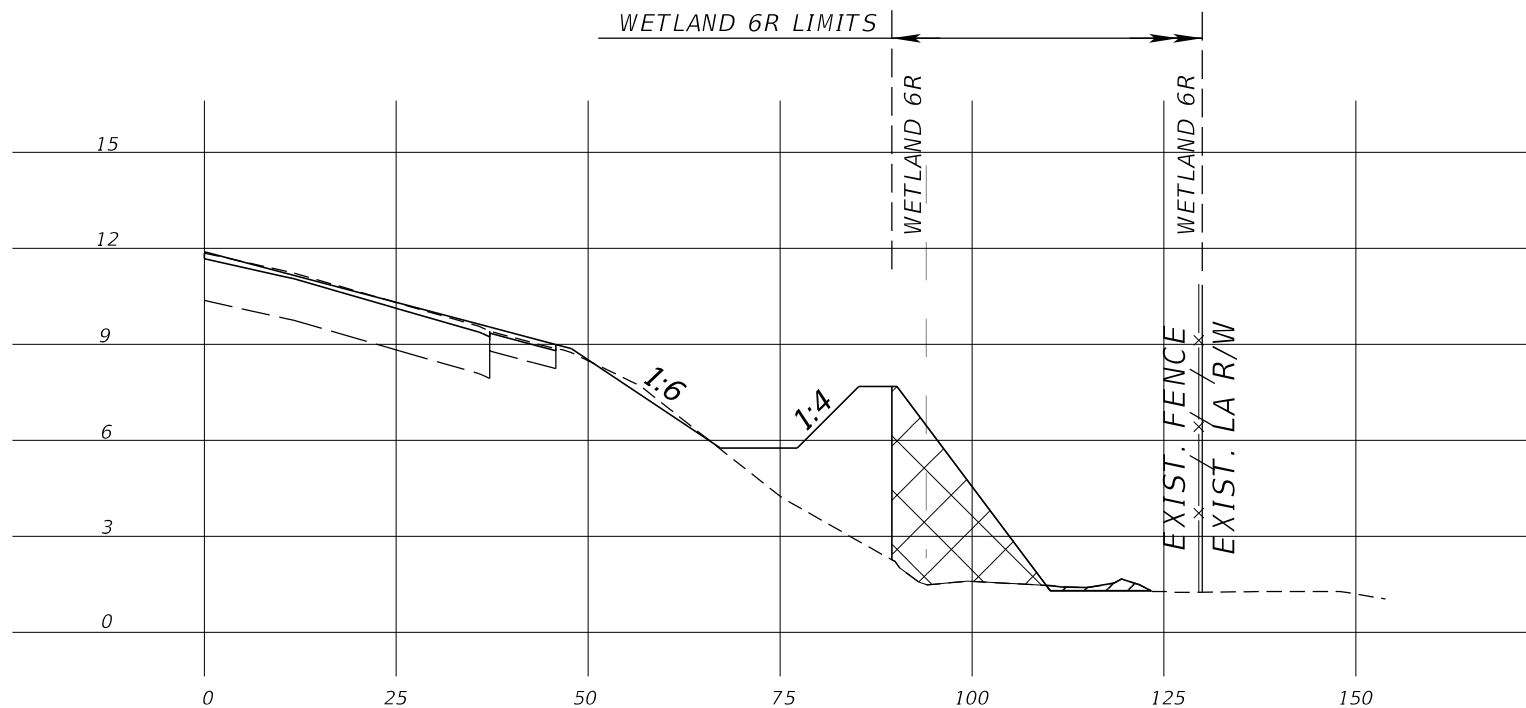
LEGEND	
	WETLAND 6R PERMANENT IMPACT = 0.36 AC
	WETLAND / SURFACE WATER / OTHER SURFACE WATER LINE

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MANATEE COUNTY  
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
WETLAND 6R

SHEET  
20



JURISDICTIONAL FILL (0.32 AC)



JURISDICTIONAL EXCAVATION (0.04 AC)

WETLAND 6R  
SECTION A-A

STA 738+00.00  
OFFSET 8' RT.

SCALE: 6' VERT  
25' HORIZ

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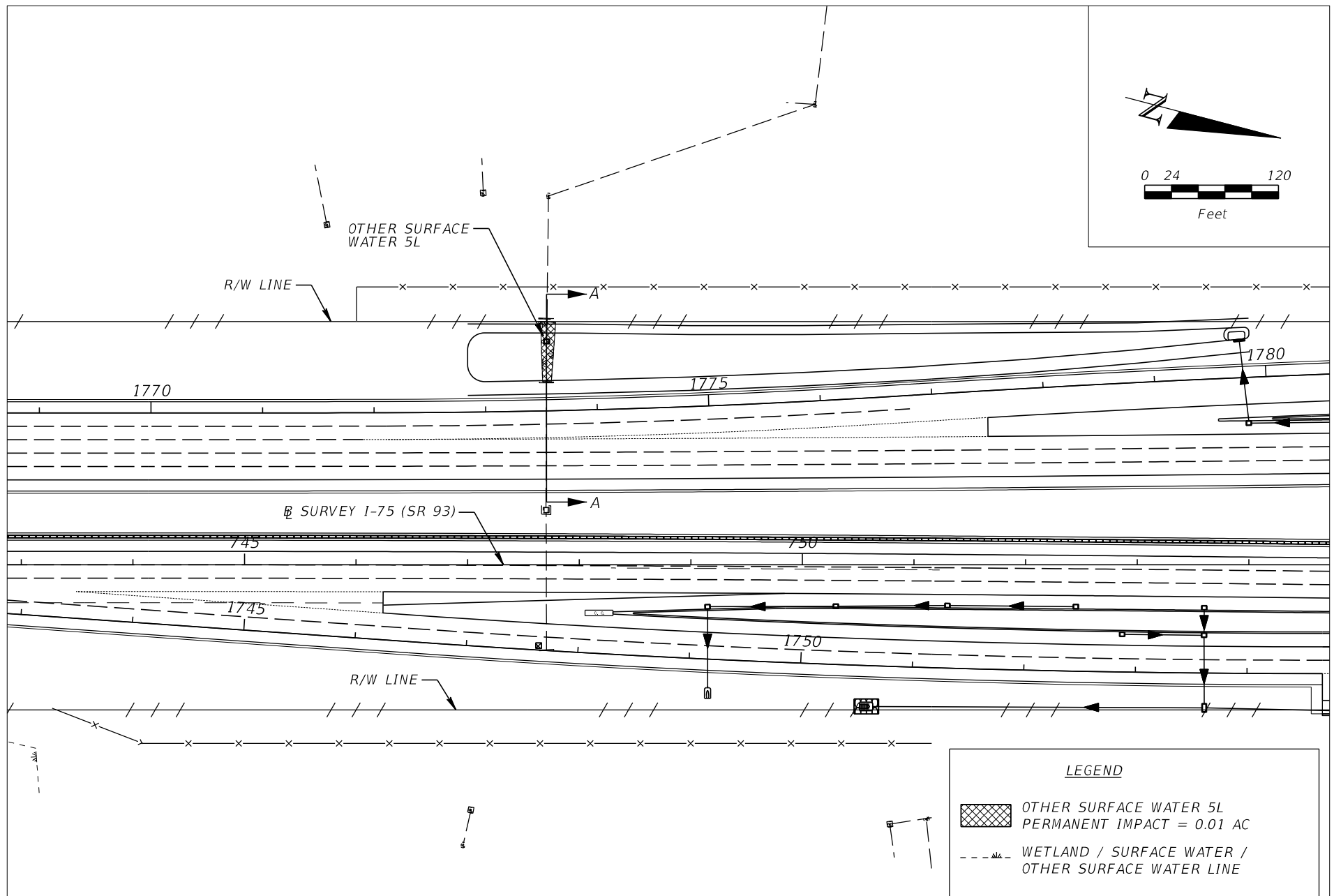
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
WETLAND 6R

SHEET

21



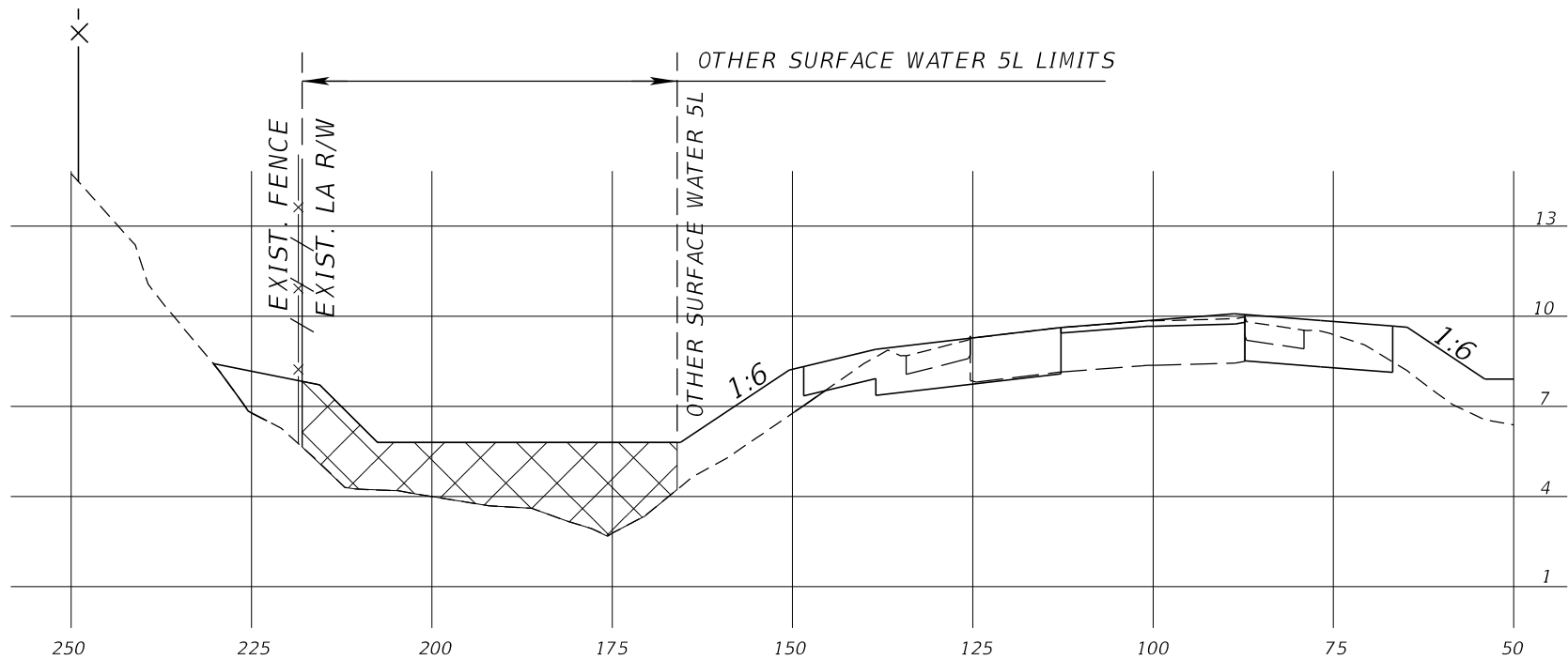
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MANATEE COUNTY  
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
OTHER SURFACE  
WATER 5L

SHEET  
22





JURISDICTIONAL FILL (0.01 AC)

OTHER SURFACE WATER 5L  
SECTION A-A  
STA 747+70.00  
OFFSET 8' LT.

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

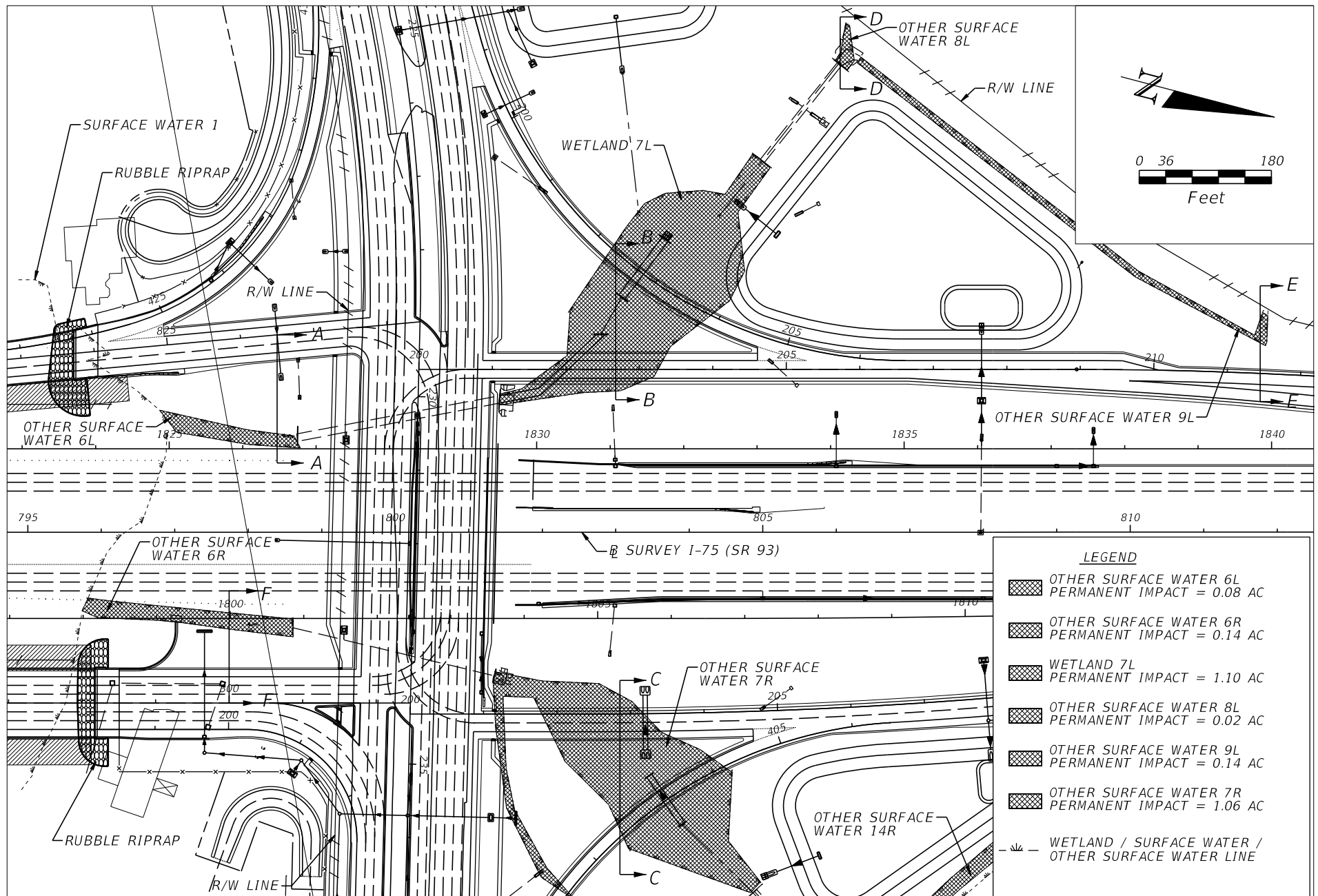
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 5L

SHEET

23





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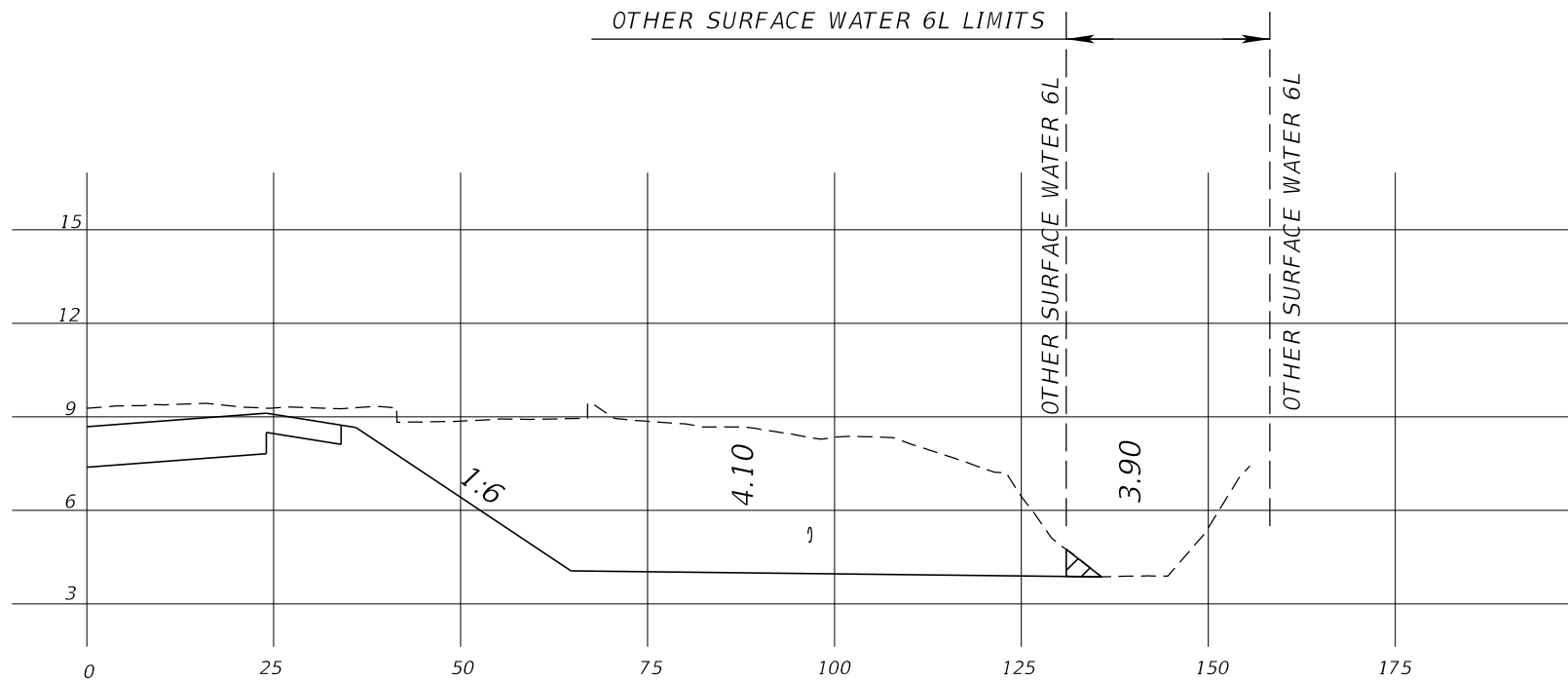
MANATEE COUNTY  
 STATE ROAD NO. 93 (I-75)  
 FROM SR 64 TO US 301

PLAN VIEW  
 WETLAND 7L, 8L, 9L  
 AND OTHER SURFACE  
 WATER 6L, 6R, 7R.

SHEET

25





OTHER SURFACE WATER 6L  
SECTION A-A  
STA 826+50.00  
@ RAMP C1



JURISDICTIONAL EXCAVATION (0.08 AC)

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

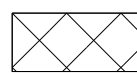
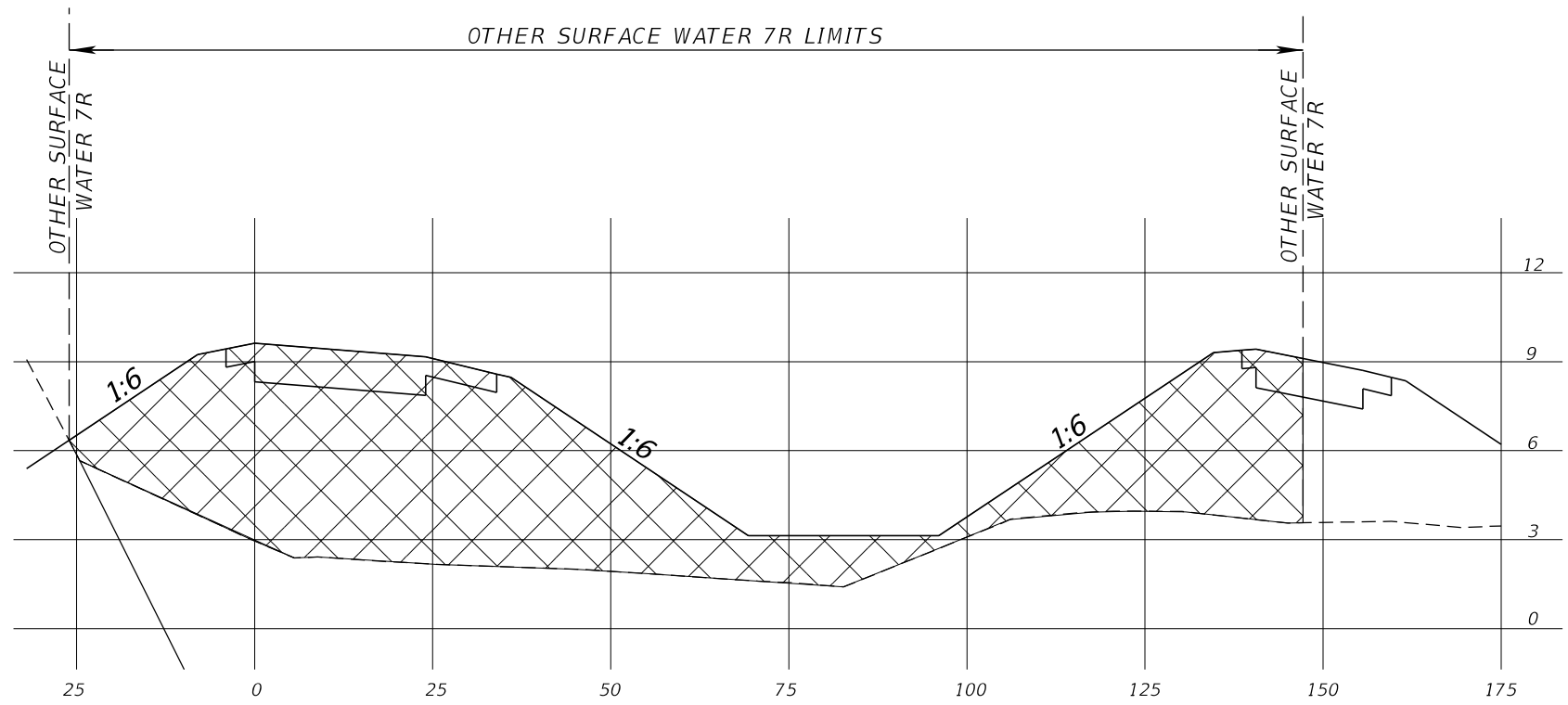
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 6L

SHEET

26





JURISDICTIONAL FILL (1.06 AC)

OTHER SURFACE WATER 7R  
SECTION C-C  
STA 202+80.26  
RAMP D1

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

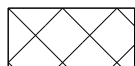
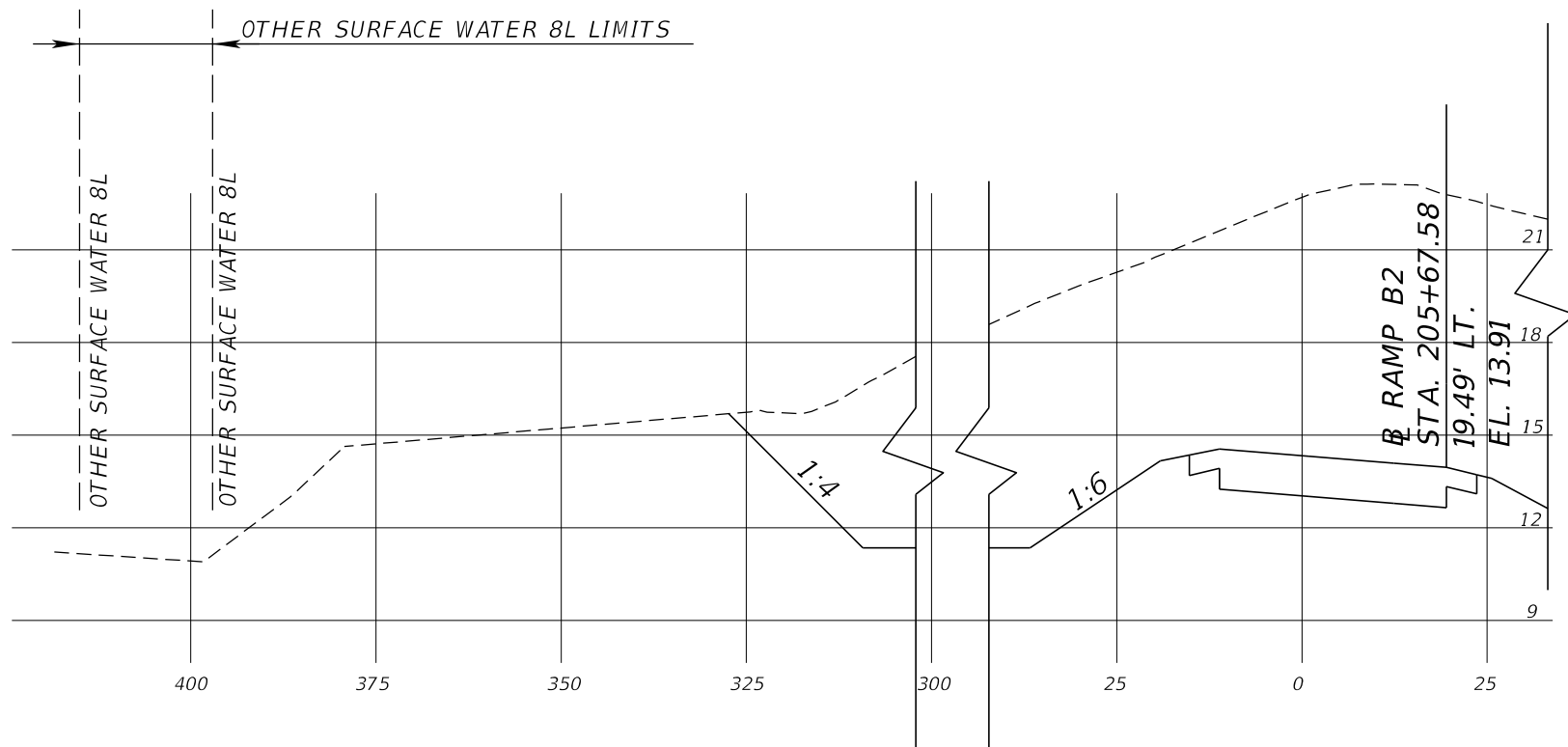
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 7R

SHEET

28





JURISDICTIONAL FILL (0.02 AC)

OTHER SURFACE WATER 8L  
SECTION D-D

STA 205+68.00

OFFSET 19.49' LT.

SCALE: 6' VERT  
25' HORIZ

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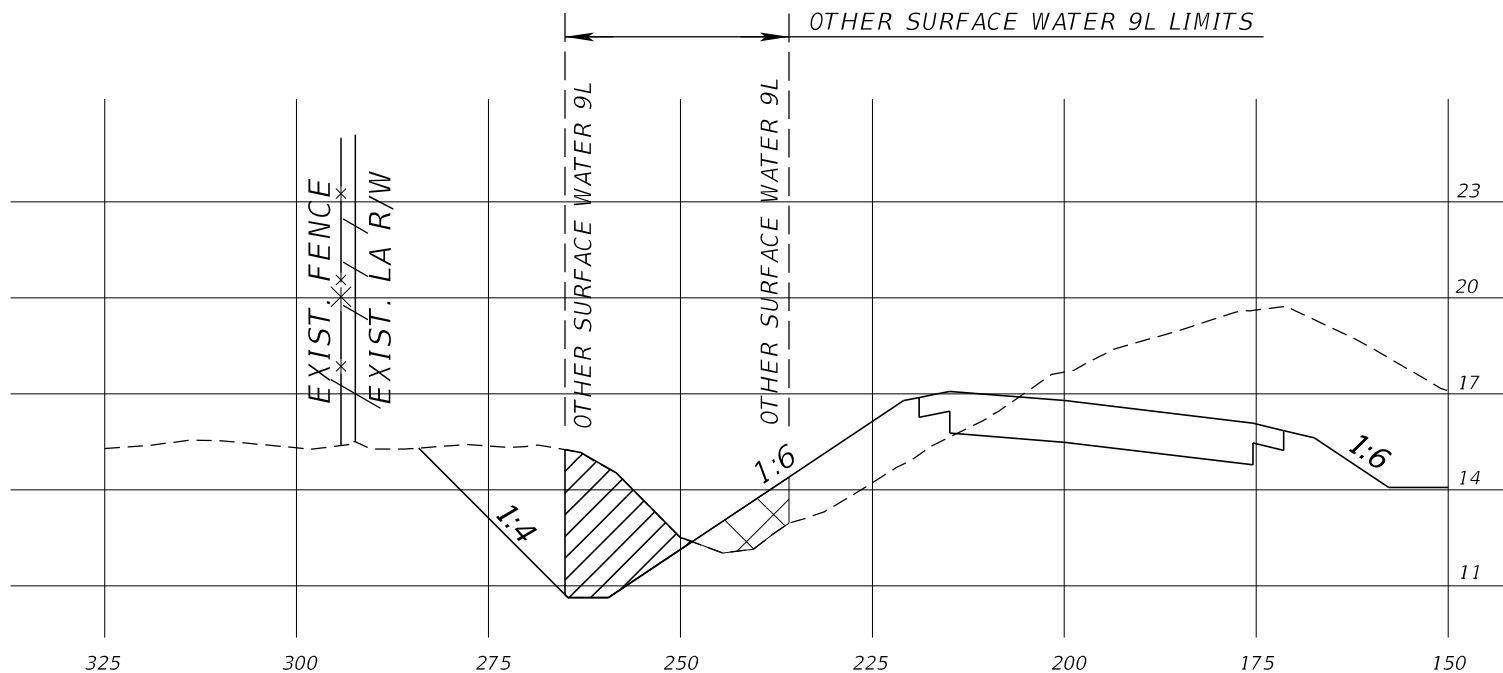
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 8L

SHEET

29



JURISDICTIONAL FILL (0.04 AC)



JURISDICTIONAL EXCAVATION (0.10 AC)

OTHER SURFACE WATER 9L

SECTION E-E

STA 211+50.00

OFFSET @ LT.

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 9L

SHEET

30



*JURISDICTIONAL FILL (0.00 AC)*



*JURISDICTIONAL EXCAVATION (0.14 AC)*

OTHER SURFACE WATER 6R

SECTION F-F

STA 300+00.00

*B<sub>L</sub> RAMP A1*

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

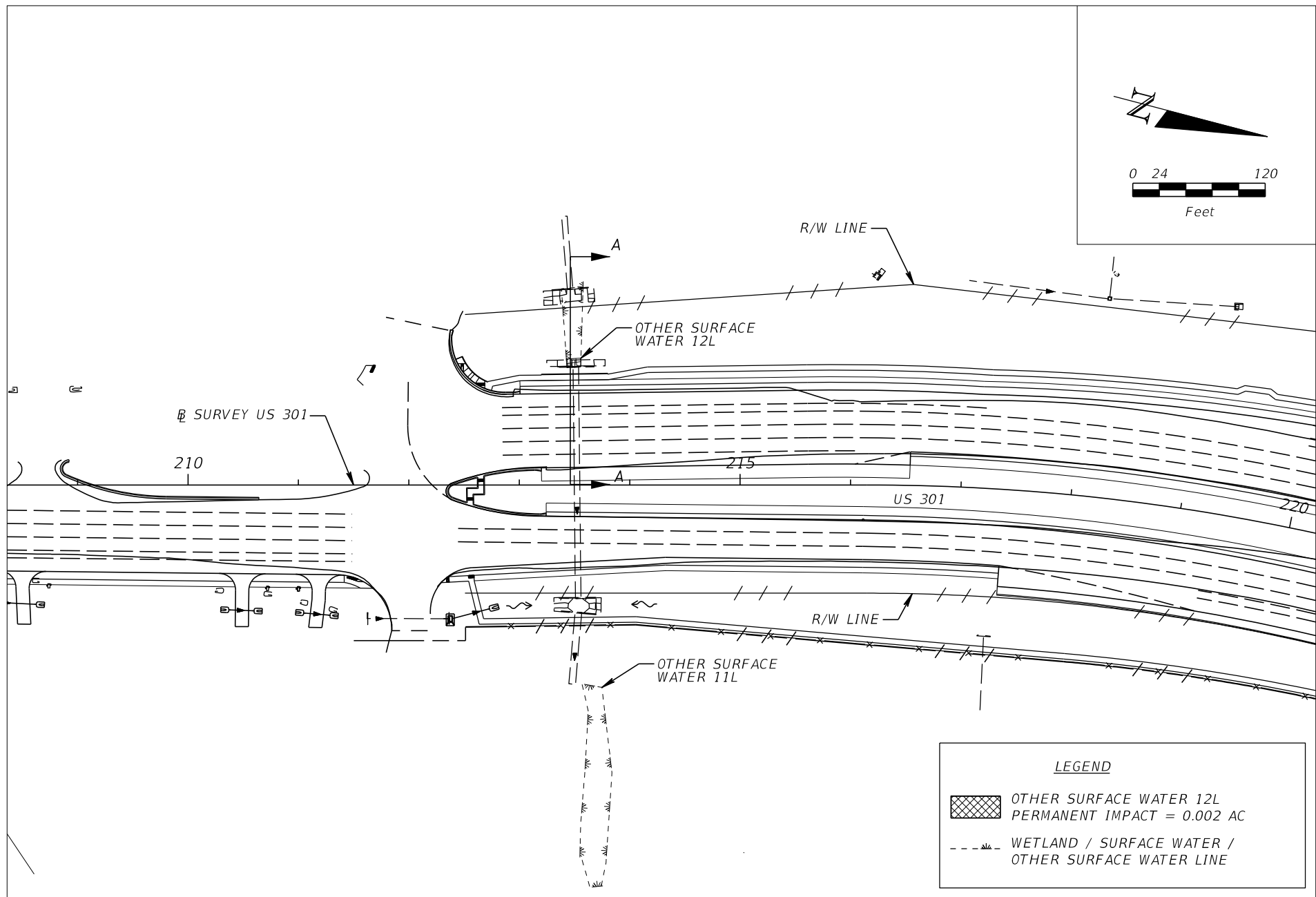
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 6R

SHEET |

31





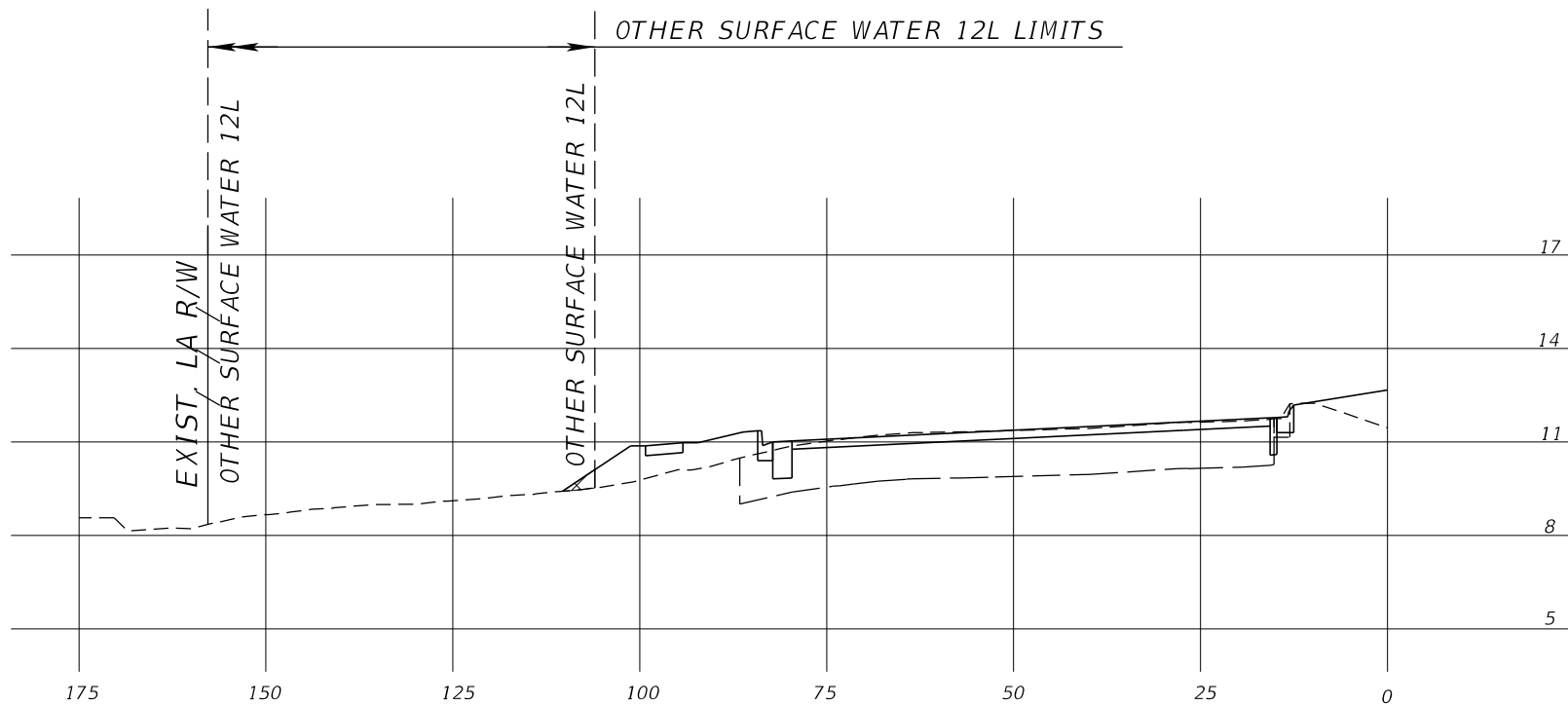
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MANATEE COUNTY  
 STATE ROAD NO. 93 (I-75)  
 FROM SR 64 TO US 301

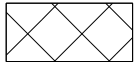
PLAN VIEW  
 OTHER SURFACE  
 WATER 12L

SHEET

32



OTHER SURFACE WATER 12L  
SECTION A-A  
STA 213+50.00  
OFFSET @ LT.



JURISDICTIONAL FILL (0.002 AC)

SCALE: 6' VERT  
25' HORIZ

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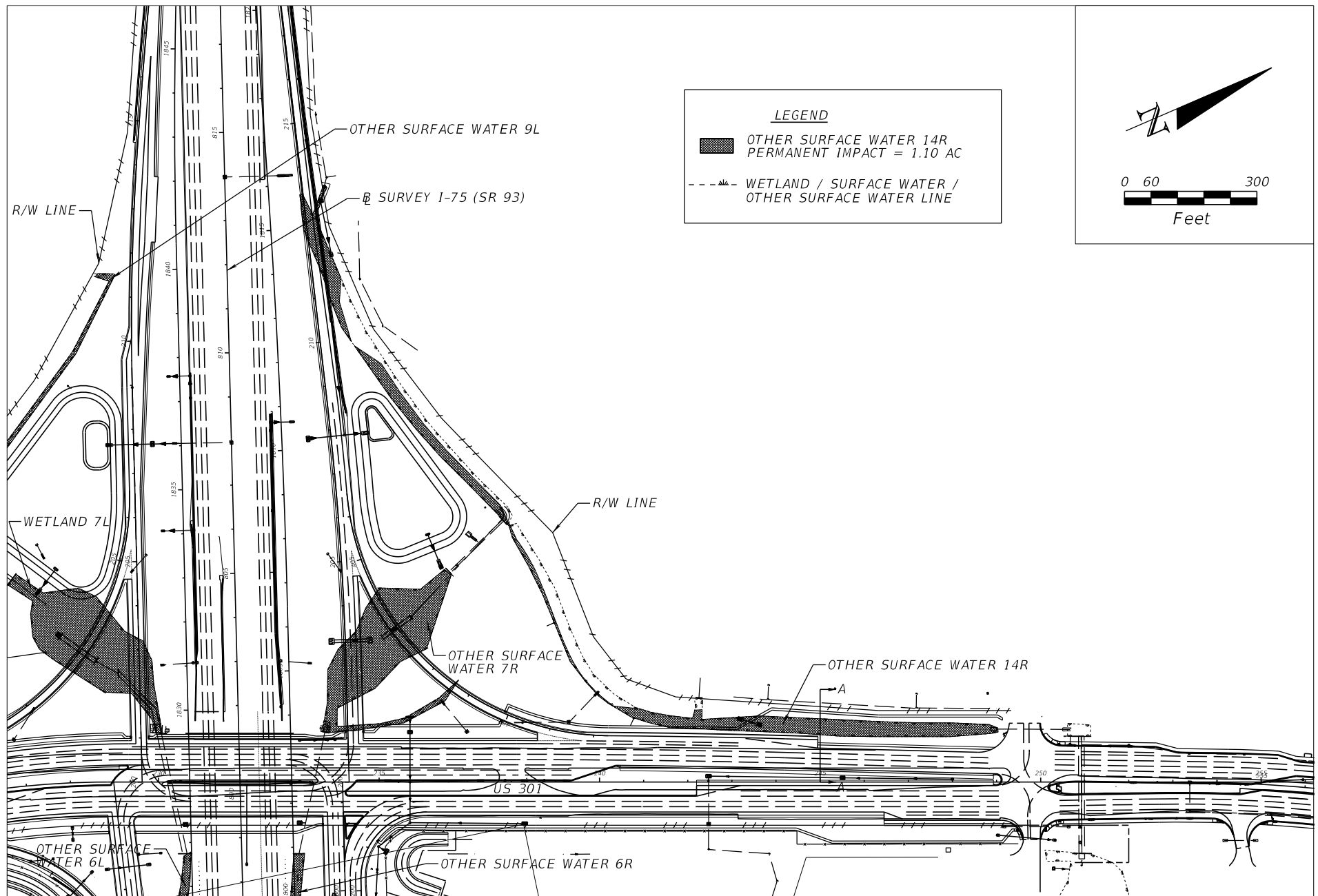
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 12L

SHEET

33



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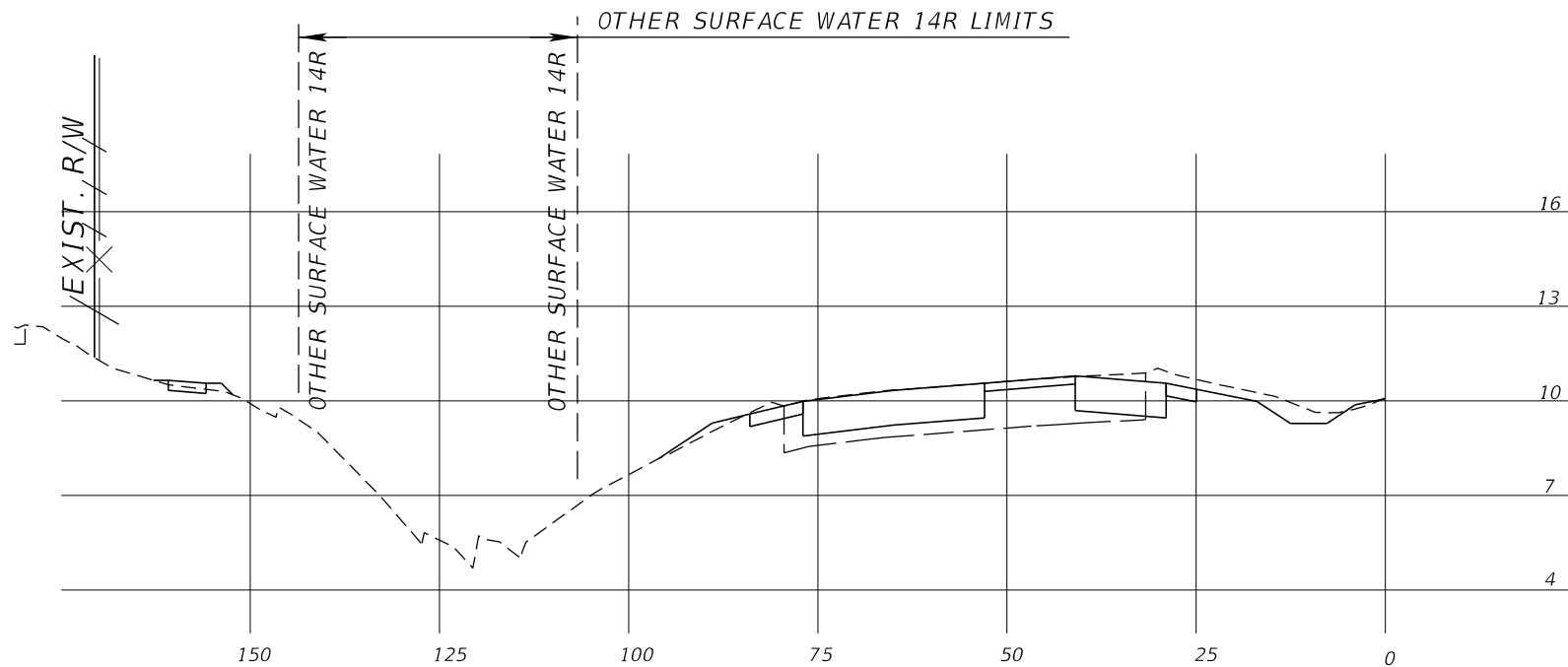
MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
WETLAND 4  
AND 5L

SHEET  
34





OTHER SURFACE WATER 14R  
SECTION A-A

STA 245+00.00

§ SURVEY US 301



JURISDICTIONAL FILL (0.00 AC)

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

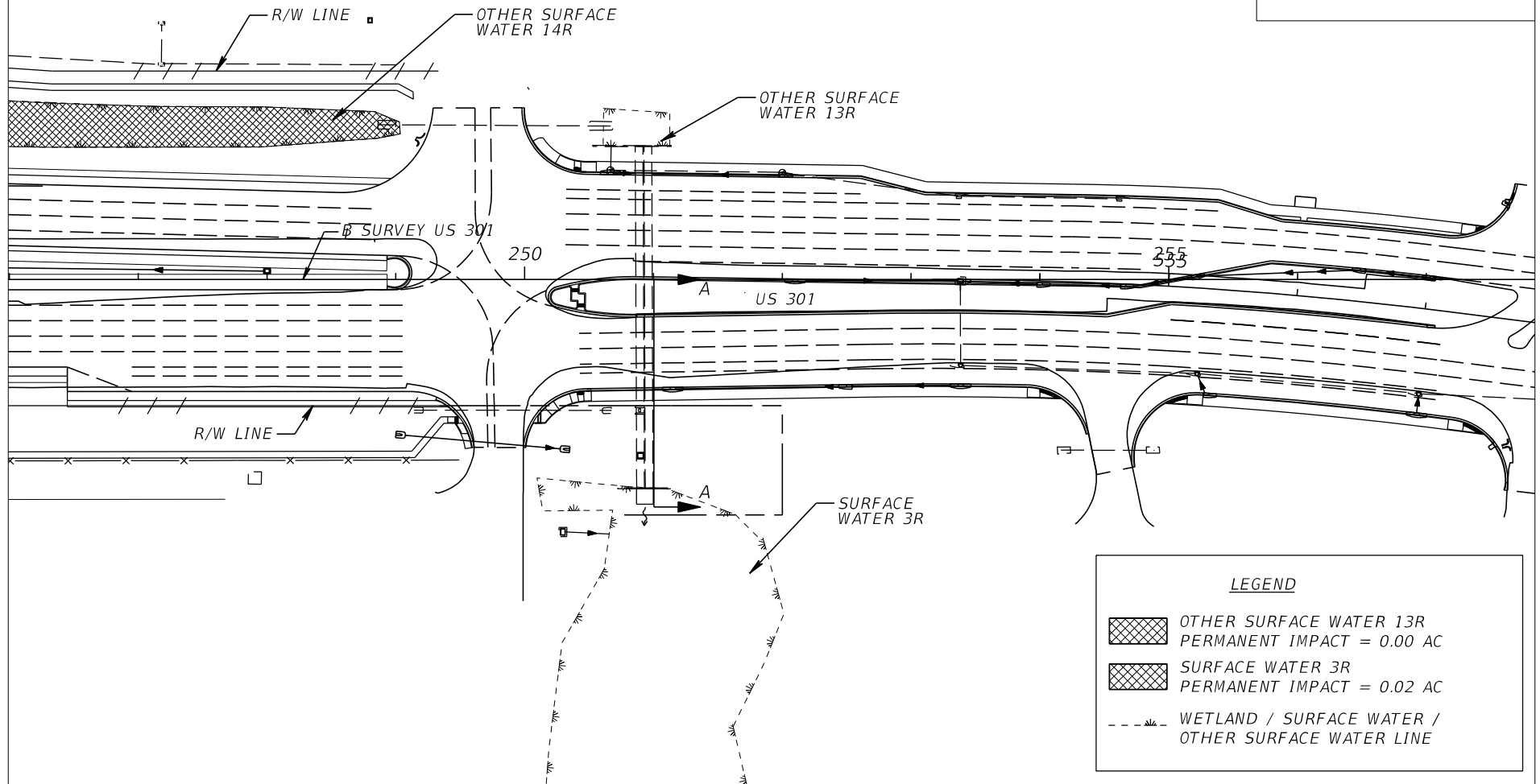
SECTION  
OTHER SURFACE  
WATER 14R

SHEET

35



0 24 120  
Feet

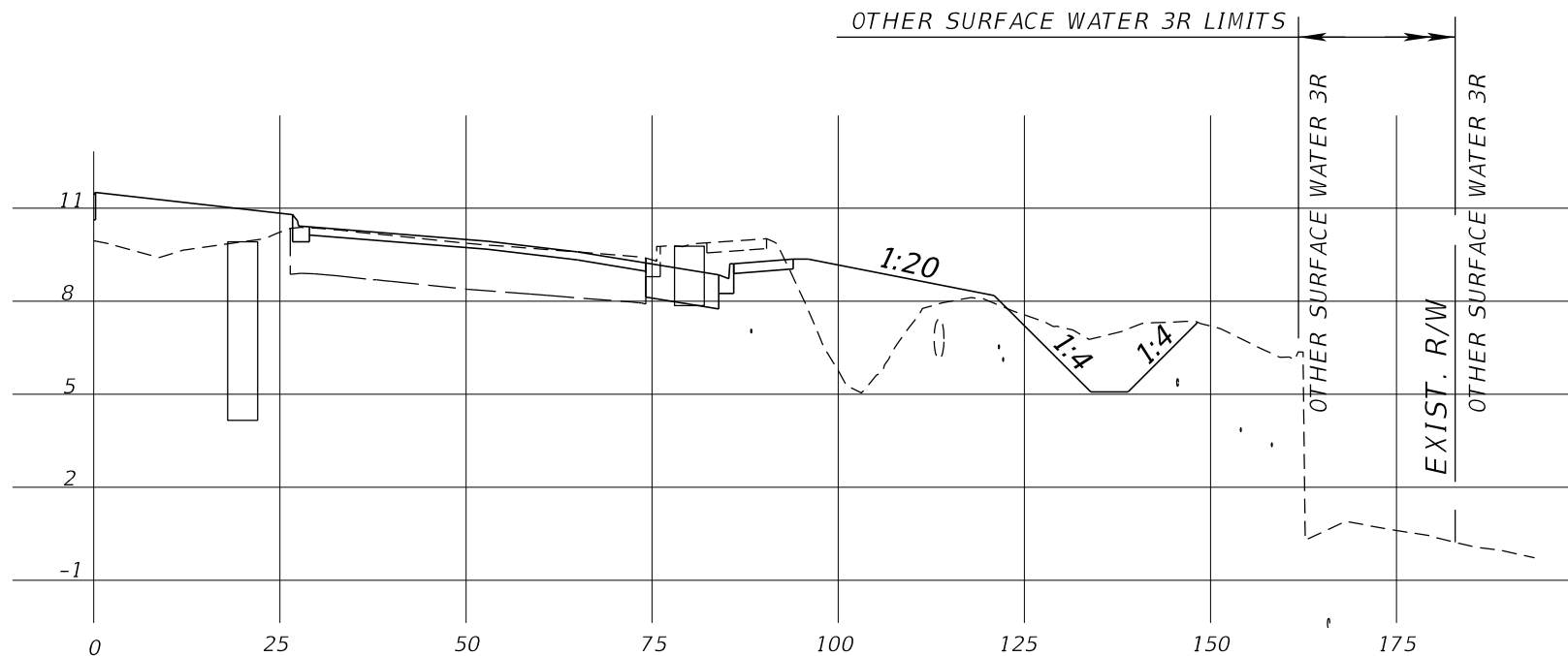


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MANATEE COUNTY  
STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

PLAN VIEW  
OTHER SURFACE  
WATER 13R AND 3R

SHEET  
36



JURISDICTIONAL FILL (0.02 AC) OTHER SURFACE WATER 3R  
SECTION A-A  
STA 251+00.00  
B SURVEY US 301

SCALE: 6' VERT  
25' HORIZ

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MANATEE COUNTY

STATE ROAD NO. 93 (I-75)  
FROM SR 64 TO US 301

SECTION  
OTHER SURFACE  
WATER 3R

SHEET

37