FINAL
ENVIRONMENTAL TECHNICAL COMPENDIUM

SR 50 (CORTEZ BOULEVARD)
PROJECT DEVELOPMENT AND ENVIRONMENT STUDY

SR 50 (Cortez Boulevard)
from West of I-75 to US 301 (SR 35/Treiman Boulevard)
Hernando County, Florida

ETDM Project Number: 3391
Work Program Item Segment Number: 416732-2
Federal-Aid Project Number: TBD

Prepared for:

Florida Department of Transportation
11201 North McKinley Drive
Tampa, Florida 33612

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TABLE OF CONTENTS

APPENDICES

LIST OF TABLES

LIST OF FIGURES

1.0 INTRODUCTION

The Florida Department of Transportation (FDOT), District Seven, conducted a Project Development and Environment (PD&E) study to determine the engineering and environmental effects of the proposed improvement to State Road (SR) 50 [Cortez Boulevard] from west of Interstate 75 (I-75) to US 301 (SR 35/Treiman Boulevard) in Hernando County, Florida.

This *Final Environmental Technical Compendium* (ETC) is intended to serve as a support document to the *Type 2 Categorical Exclusion*[1] (Type 2 CE), dated January 2014. It is a comprehensive document that covers the environmental analysis performed for wetlands (Section 2), threatened and endangered species (Section 3), contamination (Section 4), and location hydraulics (Section 5). In addition, the following technical support documents are also available for review under separate cover: *Final Noise Study Report*[2], *Historic Structures Survey Update*[3], *Final Preliminary Alternative Stormwater Management Report*[4], *Final Traffic Report*[5] and the *Final Preliminary Engineering Report*[6].

1.1 PURPOSE

The purpose of the study was to provide documented environmental and engineering analyses to assist FDOT in reaching a decision on the type, location, and conceptual design of the necessary improvements in order to accommodate future traffic demand in a safe and efficient manner. The study also satisfied the requirements of FDOT and followed the process outlined in the FDOT *Project Development and Environment Manual*[7].

The Type 2 CE, this ETC, and other technical reports documented the need for the improvements and presented the procedures that were utilized to develop and evaluate various improvement alternatives. The study team collected essential information relating to the engineering and environmental characteristics to develop alternative alignments and make analytical decisions. Design criteria were established that served as a foundation for the preliminary alternative alignments, which were compared on a variety of parameters utilizing a matrix format. This process identified a Preferred Alternative that minimized natural, physical, and socio-economic impacts, while providing the necessary future transportation improvements that met the project's purpose and need. The study also solicited input from the local agencies, community, and users of the facility. The design year for the analysis is 2035.

1.2 PROJECT DESCRIPTION

SR 50 (Cortez Boulevard) is proposed to be widened from four to six lanes from west of I-75 to US 98 (SR 700/Treiman Boulevard) and from two to four lanes from US 98 (SR 700/Treiman Boulevard) to US 301 (SR 35/Treiman Boulevard) within Hernando County, Florida (Roadway ID 08 070 000). The study limits extend from west of I-75 easterly to US 301 (SR 35/Treiman Boulevard), as shown in **Figure 1**. Interstate 75 (I-75) ramp terminal intersections and approaching segments (length 0.9 miles [mi]) were exempted out of this study since those improvements were analyzed as part of the I-75 PD&E Study, Work Program Item Segment (WPIS) No. 411014-1. The total length of the project (including the I-75 interchange area) is approximately 6.3 mi. The project is within the

Figure 1: Project Location Map

Brooksville SE and Saint Catherine United States Geological Survey (USGS) quadrangle maps (map numbers 3719 and 3718, respectively).The project is within Township 22 South, Range 20 East, Section 36; Township 22 South, Range 21 East, Sections 31, 32, and 33; and Township 23 South, Range 21 East, Sections 1, 2, 3, 4, 5, 6, 10, 11, and 12 of the Public Land Survey System (PLSS).

A prior PD&E study was approved on September 28, 1989, for the segment of SR 50 (Cortez Boulevard) from SR 50/SR 50A to US 301 (SR 35/Treiman Boulevard). That study recommended the roadway be widened to four lanes. The only segment that has not been improved to four lanes is from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard), which remains a two-lane undivided rural roadway.

1.2.1 Existing Conditions

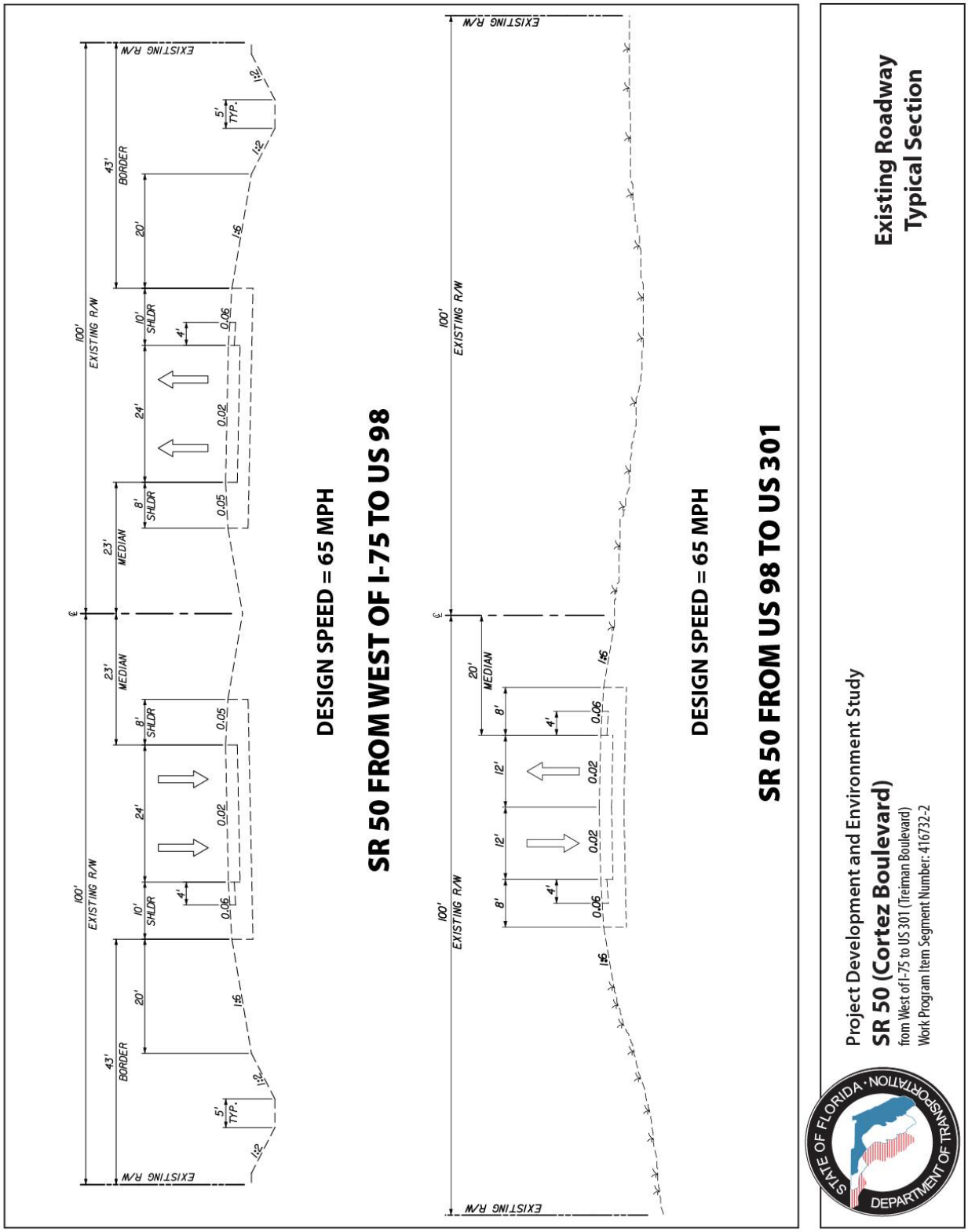
SR 50 (Cortez Boulevard) is a four-lane divided rural roadway from west of I-75 to east of US 98 (SR 700/McKethan Road). Two 12-foot (ft) lanes, an 8-ft inside shoulder, and a 10-ft outside shoulder (4 ft paved) is provided in each direction, separated by a 46-ft depressed, grassed median. Exclusive left and right turn lanes are provided at major intersections. No sidewalks are present. Bicyclists are accommodated on the 4-ft paved outside shoulders.

Not including I-75 ramp terminals, 16 median openings are provided at ¼-mi average spacing; one of these, at Parkland Avenue, is a directional median opening. Traffic signals are provided at I-75 ramp terminals, Bronson Road/Windmere Road, Kettering Road, and US 98 (SR 700 / McKethan Road). Runoff is collected in roadside swales and conveyed to stormwater management facilities (SMFs). SR 50 (Cortez Boulevard) from County Road (CR) 541 [Spring Lake Highway, 3 mi west of Lockhart Road] to the Ridge Manor Campground entrance was resurfaced in 2008 (FPID 415185-1-52-01). SR 50 (Cortez Boulevard) from east of Kettering Road to US 98 (SR 700/McKethan Road) was widened from two to four lanes in 2001 (FPID 254808-1-52-01).

As shown in **Figure 2**, SR 50 (Cortez Boulevard) transitions to a two-lane undivided rural roadway approximately ¼ mi east of US 98 (SR 700/McKethan Road). One 12-ft lane and an 8-ft shoulder (4-ft paved) are provided in each direction from US 98 (SR 700/McKethan Road) to east of US 301 (SR 35/Treiman Boulevard). No sidewalks are present. Bicyclists are accommodated on the 4-ft paved outside shoulders. Runoff is collected in roadside swales. The US 301 (SR 35/Treiman Boulevard) intersection is signalized. This section was resurfaced in 2009 (FPID 406545-1-52-01).

The typical existing right-of-way (ROW) width is a minimum of 200 ft wide; however, some wider areas exist throughout the corridor. Limited access ROW exists in the vicinity of the I-75 interchange. Existing controlled and limited access ROW lines were illustrated with width dimensions on the preliminary conceptual design plans for the Build Alternative. Existing offsite SMFs are fenced within existing ROW along the project between I-75 and US 98 (SR 700/McKethan Road). Property lines, specific land uses, and other features along the corridor were also illustrated on the preliminary concept plans located in the *Preliminary Engineering Report* (July 2012).

Figure 2: Existing Roadway Typical Section



There are three existing bridge structures within the project limits. The Withlacoochee State Trail carries a shared-use path over SR 50 (Cortez Boulevard) on structure (Bridge No. 0809001) approximately 800 ft east of Kettering Road. No changes were necessary for the Withlacoochee State Trail Bridge since the proposed roadway improvements would fit beneath the bridge. In addition, SR 50 (Cortez Boulevard) is carried over the Withlacoochee River on two bridges (Bridge Nos. 080011 and 080064) (**Figure 3**). These bridges would require widening to accommodate proposed improvements.

1.2.2 Proposed Improvement

Figure 4 shows the existing and proposed typical sections that were evaluated for the Build Alternative from west of I-75 to Kettering Road. The proposed typical section is a six-lane divided suburban roadway with a 46-ft median, which includes a 33-ft raised grass median, including Type E curb and gutter. Three 12-ft travel lanes with 6.5-ft inside shoulders and 8-ft flush outside shoulders (5 ft paved), are provided in each direction. This typical section also contains open drainage ditches that parallel both sides of the roadway. Sidewalks, 5 ft wide, are provided adjacent to the ROW line. The proposed design speed for this typical section is 50 miles per hour (mph), the minimum design speed for a Strategic Intermodal System facility. This typical section fits within the existing 200 ft of ROW.

Figure 5 shows the existing and proposed typical sections that were evaluated for the Build Alternative between Kettering Road and US 98 (SR 700/McKethan Road). The proposed typical section includes both inside and outside widening to result in a six-lane divided rural roadway with a 40-ft depressed grass median and flush inside and outside shoulders. Since the Annual Average Daily Traffic (AADT) volumes are considered low volume east of Kettering Road, 8-ft inside unpaved shoulders and 8-ft outside shoulders (5-ft paved), are provided in each direction. This typical section also contains open drainage ditches and 5-ft sidewalks adjacent to the ROW line. The proposed design speed for this typical section is 65 mph. This typical section fits within the existing 200 ft of ROW if a Design Variation is granted for the substandard border width (36 ft of 40 ft required). A preliminary drainage review supports the reduced border width. In some areas, the existing ROW width would allow the standard 40-ft border. In other areas where right turn lanes are needed, the standard border width would be reduced to stay within existing ROW.

Figure 6 shows the widening of the two existing bridges over the Withlacoochee River. In order to facilitate maintenance of traffic (MOT) and limit the bridge widening to just one side of each bridge, the proposed roadway median width would transition from 40 ft to 54 ft on each approach. The outside concrete barrier of each bridge would be removed, along with the deck to the center of the first beam. Each bridge would then be widened to accommodate three 12-ft lanes, 10-ft inside and outside shoulders, and a 5-ft sidewalk separated from the shoulder with a concrete barrier. Florida I-Beams would support the widened portion of the deck.

Figure 7 shows the existing and proposed typical sections from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard). The proposed improvement in this segment consists of widening SR 50 (Cortez Boulevard) from a two-lane undivided rural roadway to a

Figure 3: Existing Bridge Typical Section

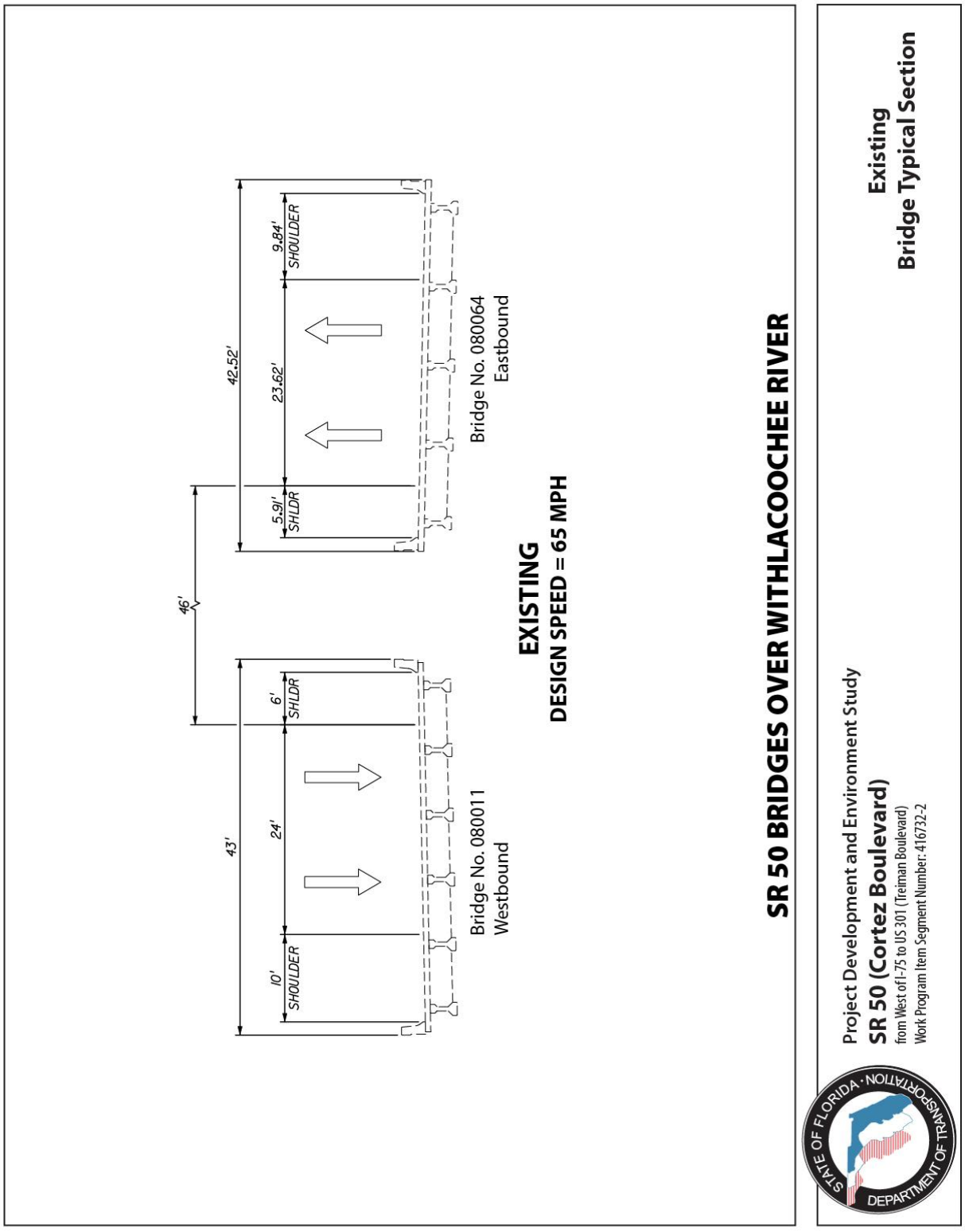


Figure 4: Proposed Typical Section from West of I-75 to Kettering Road

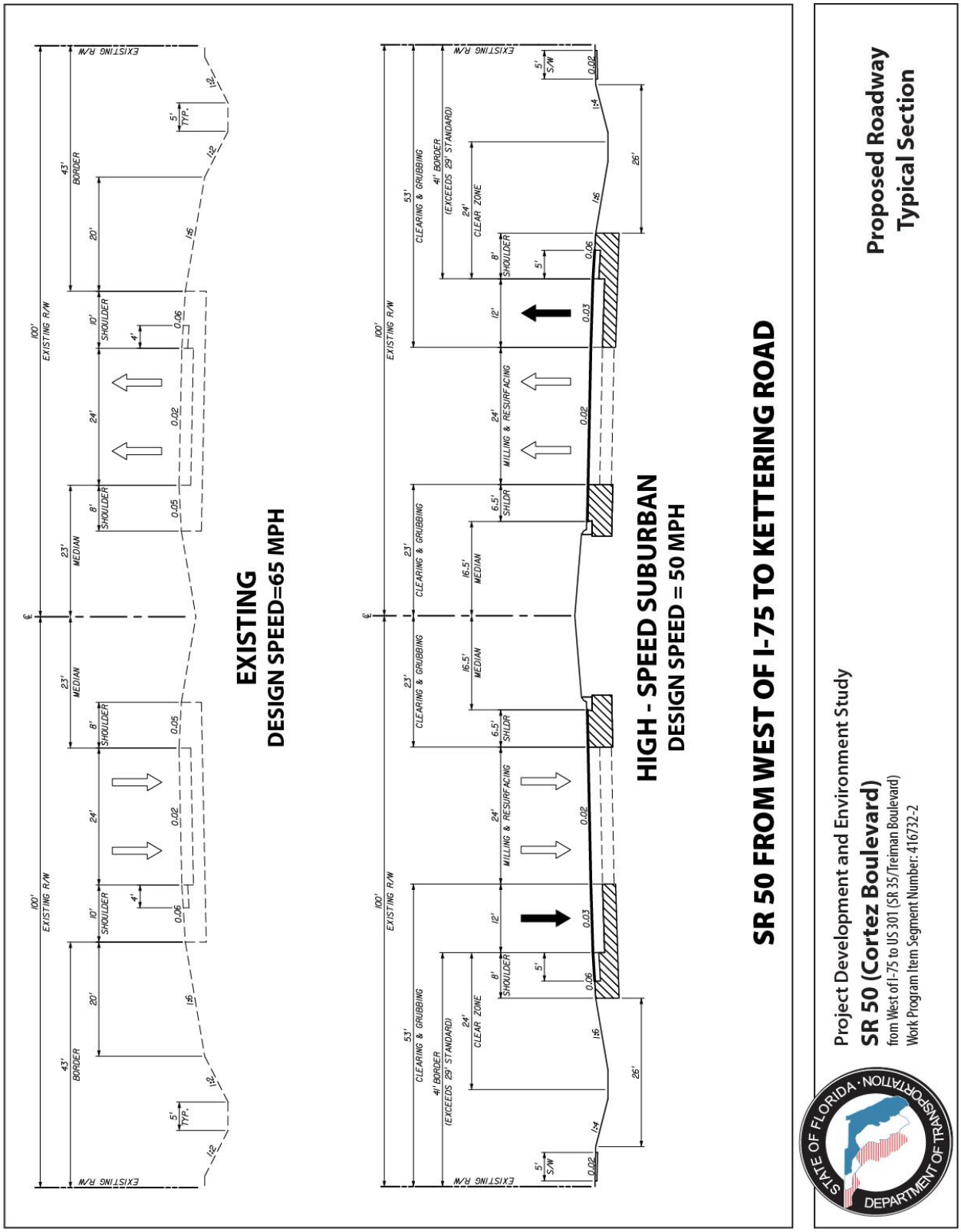


Figure 5: Proposed Typical Section from Kettering Road to US 98 (SR 700/McKethan Road)

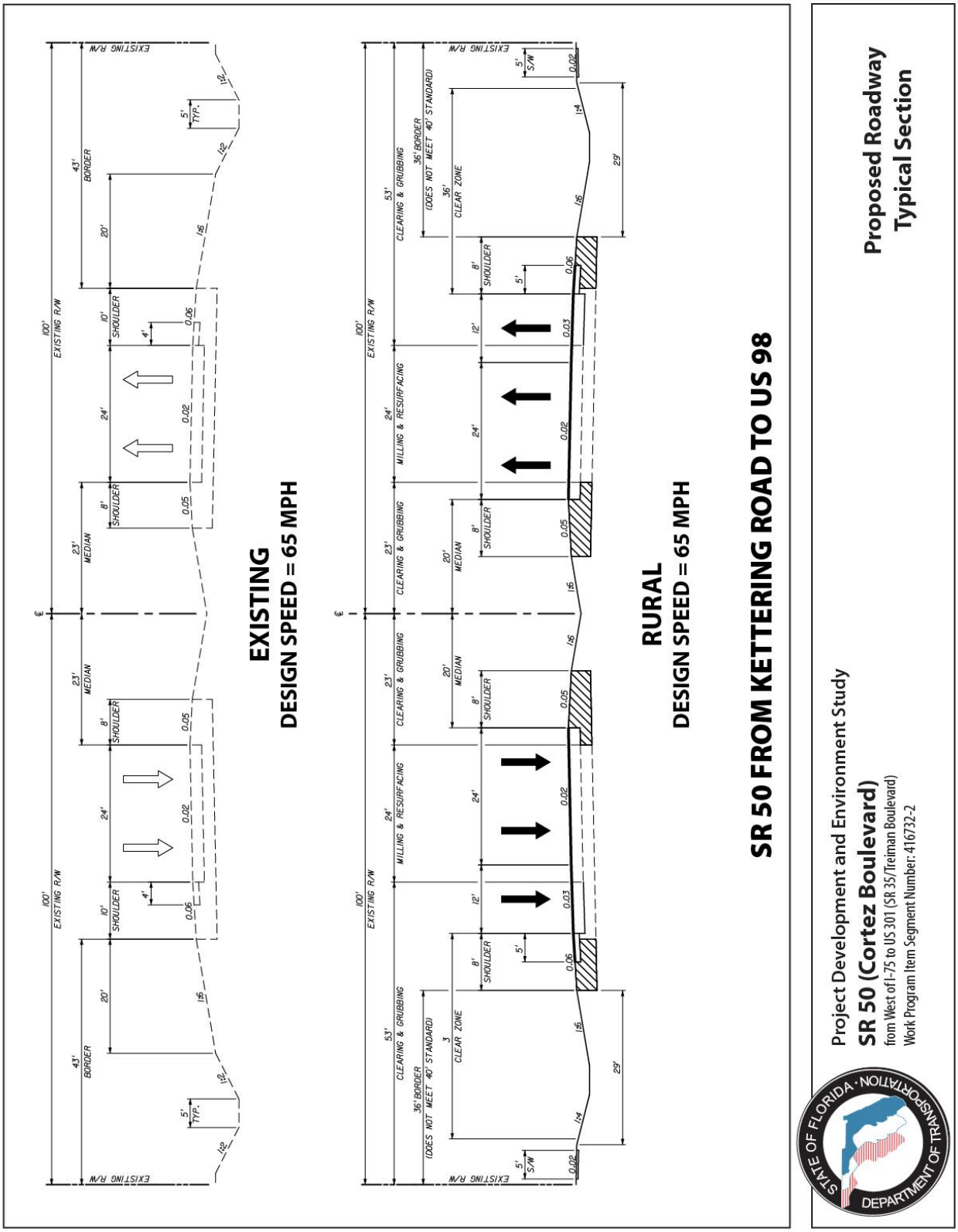


Figure 6: Proposed Bridge Typical Section

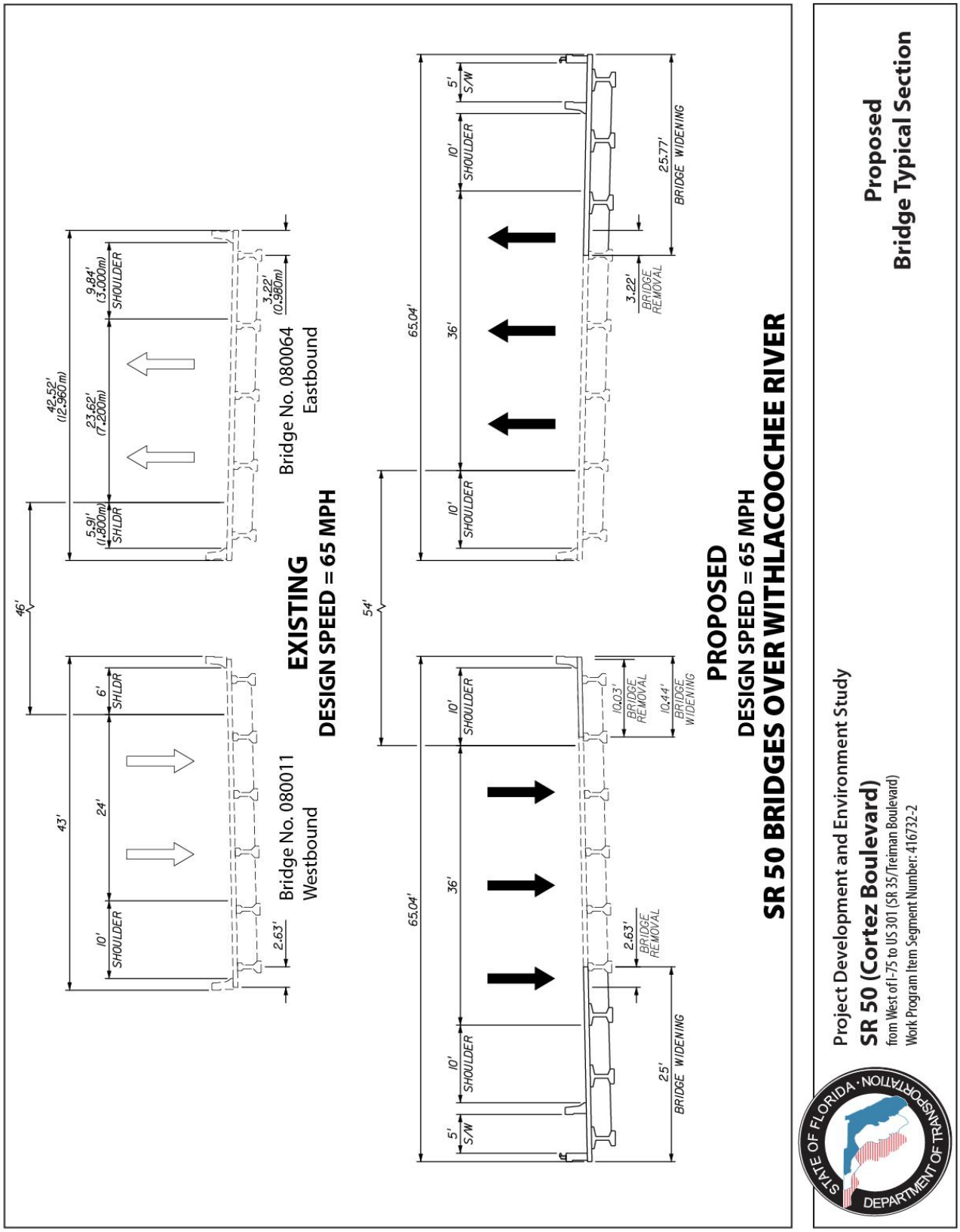
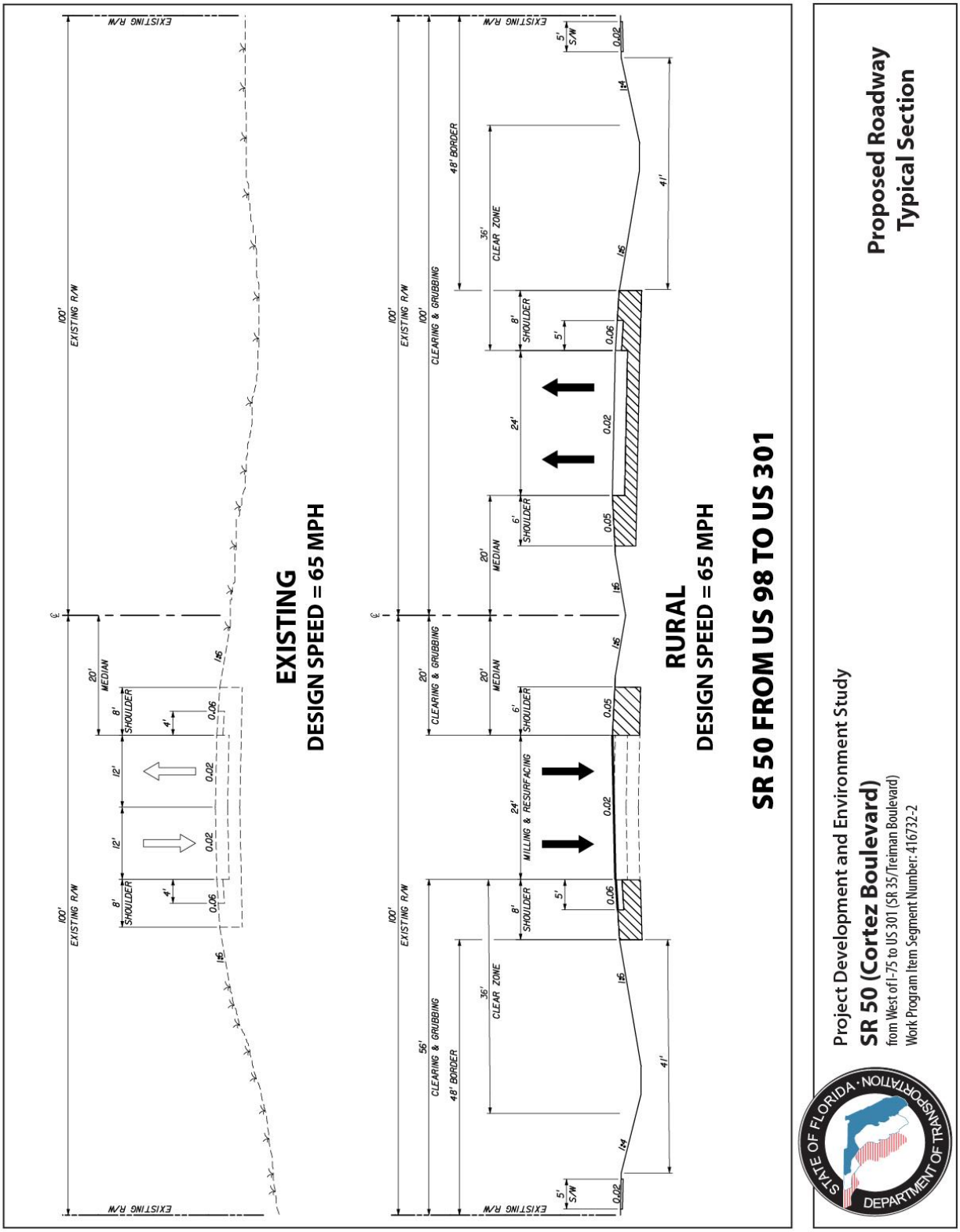


Figure 7: Proposed Typical Section from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard)



four-lane divided roadway by removing the crown from the existing roadway, which would become the new westbound lanes. New pavement, 24 ft wide, would be constructed 40 ft south of the existing roadway, to become the new eastbound roadway. The completed four-lane rural roadway would have a 40-ft depressed grass median, flush 6-ft inside shoulders (0 ft paved), and 8-ft outside shoulders (5 ft paved). This typical section also contains open drainage ditches and 5-ft sidewalks adjacent to the ROW line. The proposed design speed for this typical section is 65 mph. This typical section fits within the existing 200 ft of ROW which is consistent with the previously approved PD&E study.

The proposed improvements would follow the existing horizontal alignment, which is generally centered within the existing 200-ft ROW. The existing two-lane undivided section from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard) was originally constructed such that future widening to a rural divided multilane highway would accommodate a 40-ft median centered within the ROW.

Since construction improvements are not currently programmed and concepts have not yet been developed by others for the planned frontage roads, Lockhart Road, or Kettering Road, these improvements are considered in this study for planning purposes and information only. Future studies would determine the specific typical sections, lane configuration, and alignments.

2.0 NATURAL COMMUNITIES

2.1 HABITAT EVALUATION METHODOLOGY

In order to determine the approximate location and boundaries of existing upland, wetland and surface water communities within the project study area, available site-specific data was collected and reviewed:

- U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS), Soil Survey of Hernando County, Florida
- Florida Department of Transportation Handbook, Florida Land Use, Cover and Forms Classification System (FLUCFCS), 3rd edition 1999.
- Southwest Florida Water Management District (SWFWMD) Land Use database
- U.S. Fish and Wildlife Service (USFWS), Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, et.al, 1979)
- Hydric Soils of Florida Handbook (Hurt, 2007)
- Aerial derived photographs

Upland, wetland and other surface water area estimates within 300 ft of the existing edge of pavement were developed using Geographic Information Systems (GIS) technology. This boundary (300-ft from edge of pavement) also defines the limits of the study area referenced throughout this document (**Appendix G**). Wetland type descriptions are based on wetland types detailed in the FLUCFCS Handbook (FDOT, January 1999) and the USFWS Classification of Wetlands and Deepwater Habitats of the United States. A field review was conducted on April 20, 2011, and the FLUCFCS codes adjusted based on the review. A second field review was conducted on January 16, 2012, to review additional areas not included in the original study area. Formal wetland delineations were not conducted during these site inspections.

More accurate wetland boundaries will be recorded during field ground-truthing efforts for the future design of the Recommended Alternative. Ground-truthing of wetland boundaries will be accomplished by implementing the State of Florida wetland delineation methodology (Florida Administrative Code [*F.A.C.] 62-340)* and the United States Army Corps of Engineers [USACE] methodology *(Corps of Engineers Wetlands Delineation Manual*[8]*, 1987*). During the ground-truthing effort associated with permitting and design, updated functional analyses will be performed on each wetland based on the state and federal Uniform Mitigation Assessment Method (UMAM).

2.2 UPLANDS

A portion of the project study area is comprised of residential (FLUCFCS 110,120, and 130), commercial (FLUCFCS 140), industrial (FLUCFCS 150), institutional (FLUCFCS 170), golf courses (182), disturbed lands (FLUCFCS 740), and transportation (FLUCFCS 810) land uses. These land uses make up 222.4 acres (ac) [42.3 percent] of the project study area and

have low to no potential of supporting protected wildlife species. The remainder of the project is comprised of undeveloped uplands and wetlands. The undeveloped upland communities are summarized in **Table 1** and described below. The presence of wildlife indicators or wildlife directly observed in the preliminary field review was noted with each land use code. Specifics on protected species are provided in Section 3.0. An initial field review was conducted on April 20, 2011. A field review on January 16, 2012 covered additional areas added subsequent to the original inspection. Additional field review occurred August 6-7, 2013, specifically targeted to evaluate potential impacts to federally-listed species.

Table 1: Upland Communities in the Study Area

FLUCFCS CODE	FLUCFCS DESCRIPTION	Acres in ROW	Acres in Study Area
110	Residential Low Density < 2 Dwelling Units	0.96	4.16
120	Residential Med Density 2->5 Dwelling Unit	0.00	0.38
130	Residential High Density	0.67	3.49
140	Commercial And Services	11.35	55.61
150	Industrial	5.84	20.26
170	Institutional	0.90	2.08
182	Golf Courses	1.33	6.62
190	Open Land	7.05	22.22
210	Cropland And Pastureland	5.99	64.50
260	Other Open Lands <Rural>	1.49	21.99
412	Longleaf Pine - Xeric Oak	22.25	89.04
420	Upland Hardwood Forest	3.97	25.23
434	Hardwood Conifer Mixed	1.67	53.85
438	Mixed Hardwoods	0.68	0.68
440	Tree Plantations	0.00	8.09
740	Disturbed Land	0.00	0.40
810	Transportation	121.47	129.41
Total		185.63	508.00

2.2.1 Upland Descriptions

2.2.1.1 FLUCFCS 190 (Open Land)

This habitat type represents 22.22 ac of the study area and is described as undeveloped land. Open lands comprise approximately 4.2 percent of the study area. Within the existing ROW, open lands comprise 7.05 ac. Vegetation species observed within this community type in the project area included cottonweed (*Froelichia floridana*), bigflower pawpaw (*Asimina obovata*), partridge pea (*Chamaecrista fasciculata*), sand square (*Paronychia rugelii*), live oak (*Quercus virginiana*), common persimmon (*Diospyros virginiana*), bahia grass (*Paspalum notatum*) and other *Paspalum* species. No federal listed species were observed utilizing this habitat type during the field review. However, several portions of the project

corridor with this habitat type supported gopher tortoise burrows and other mammal burrows. There is the potential for eastern indigo snake (*Drymarchon couperi*) due to the presence of gopher tortoise burrows and other refugia in this habitat type.

2.2.1.2 FLUCFCS 210 (Cropland and Pastureland)

Cropland and pastureland represent 64.5 ac of the study area, generally described as agricultural lands that are managed for the production of row or field crops and improved, unimproved, and woodland pastures. Cropland and pastures comprise approximately 12.3 percent of the study area. Within the existing ROW, cropland and pastureland comprise 5.99 ac. The vegetative community for this habitat type within the project area includes panic grasses (*Panicum* spp.), paspalum grasses, ragweed (*Ambrosia artemisiifolia*), and dogfennel (*Eupatorium capillifolium*). Although no federal listed species were observed utilizing this habitat type, gopher tortoise burrows were present within several portions of the project corridor. There is the potential for eastern indigo due to the presence of gopher tortoise burrows and other refugia in this habitat type.

2.2.1.3 FLUCFCS 260 (Other Open Lands, Rural)

Rural open lands represent 21.99 ac of the study area and are generally described as agricultural lands whose intended use cannot be determined. Open lands comprise approximately 4.2 percent of the study area. Within the existing ROW, rural open lands comprise 1.49 ac. No listed species or indicators of wildlife were observed within this habitat during the field review. However, this is potential habitat for gopher tortoises.

2.2.1.4 FLUCFCS 412 (Longleaf Pine-Xeric Oak)

Longleaf pine and xeric oak communities represent 89.04 ac (approximately 17 percent) of the project corridor. Within the existing ROW, longleaf pine and xeric oak communities comprise 22.25 ac. Vegetation within this community type in the project corridor includes longleaf pine (*Pinus palustris*), live oak, sand live oak (*Quercus geminata*) and turkey oak (*Quercus laevis*). No federal listed species were observed utilizing this habitat type during the field review. However, this habitat type has the potential presence of gopher tortoise burrows and mammal burrows, thus providing potential refugia for eastern indigo snake.

2.2.1.5 FLUCFCS 420 (Upland Hardwood Forest)

Upland hardwood forest communities represent 25.23 ac of the study area. These communities have a crown canopy with a 66 percent dominance of hardwood species. Within the study area, this community is comprised of dense canopy and mid-story species including live oak, sand live oak, turkey oak, pignut hickory (*Carya glabra*), common persimmon, lyonia (*Lyonia* sp.), saw palmetto (*Serenoa repens*) and winged sumac (*Rhus copallinum*). Upland hardwood forest communities comprise approximately 4.8 percent of the study area. Within the existing ROW, upland hardwood forest communities comprise 3.97 ac. No listed species or indicators of wildlife were observed within this habitat during the field review. However, this habitat type has the potential presence of gopher tortoise burrows and mammal burrows, thus providing potential refugia for eastern indigo snake.

2.2.1.6 FLUCFCS 434 (Hardwood Conifer Mixed)

Hardwood conifer mixed communities represent 53.85 ac of the study area and are described as upland forests in which neither canopy type is dominant. Mixed hardwood conifer communities comprise approximately 10.2 percent of the study area. Within the existing ROW, hardwood conifer mixed communities comprise 1.67 ac. Dominant vegetation observed throughout the project corridor includes live oak, turkey oak, common persimmon, winged sumac, lyonia, saw palmetto, slash pine (*Pinus elliottii*), and loblolly pine (*Pinus taeda*). Although no federal listed species were observed utilizing this habitat type, gopher tortoise burrows were present within several portions of the project corridor. There is the potential for eastern indigo snake due to the presence of gopher tortoise burrows and other refugia in this habitat type.

2.2.1.7 FLUCFCS 440 (Tree Plantations)

Tree plantations are managed timber monocultures and represent 8.09 ac of the study area. Tree plantations comprise approximately 1.5 percent of the study area. Tree plantations were not located within the existing ROW. Although no listed species were observed utilizing this habitat during the field reviews, indications of wildlife utilization (two potentially occupied gopher tortoise burrows) were observed. The gopher tortoise burrows and potential presence of mammal burrows provide potential refugia for Eastern indigo snakes.

2.3 WETLANDS AND OTHER SURFACE WATERS

Pursuant to Presidential Executive Order 11990 entitled "Protection of Wetlands," the United States Department of Transportation (USDOT) has developed a policy, (USDOT Order 5660.1A), Preservation of the Nation's Wetlands, dated August 24, 1978, which requires all federally funded highway projects to protect wetlands to the fullest extent possible. In accordance with this policy, as well as Part 2, Chapter 18 Wetlands of the FDOT PD&E Manual, the study area was evaluated for any wetlands that have potential involvement with the proposed improvements.

Eight wetland or surface water community types were identified on the corridor. The location of the wetlands and surface waters are included on the Concept Plans in the *Final Preliminary Engineering Report*. The eight wetland or surface water community types with associated proposed impacts were identified within the corridor as follows in **Table 2**. The location of the wetlands and surface waters are included on the Concept Plans.

A total of approximately 527 ac of all land uses occur within the project study area utilizing the FDOT FLUCFCS. Wetlands and surface waters comprise 17.66 ac, approximately 3.3 percent of the total acreage.

The area represented by each FLUCFCS and USFWS code is shown in **Table 2** and in the descriptions as follows.

Table 2: Wetland and Surface Water Communities in the Study Area

FLUCFCS Code	FLUCFCS Description	USFWS Code	Acreage in Study Area	Acreage in Proposed ROW
510	Streams and Waterways	R2UB	1.88	1.16
530	Reservoirs	PUBx	0.58	0.58
615	Stream and Lake Swamps	PF02C	1.07	0
621	Cypress	PFO2	5.04	0.10
641	Freshwater Marshes	PEM1	2.10	0
643	Wet Prairie	PEM1	0.35	0
644	Emergent Aquatic Vegetation	PAB4	1.19	0
653	Intermittent Ponds	PUBJx	5.45	5.45
		TOTAL	**17.66**	**7.29**

2.3.1 Surface Waters and Other Surface Waters Descriptions

FLUCFCS: 510 (Streams and Waterways)
USFWS: R2UB (Riverine,Lower Perennial, Unconsolidated Bottom)

This land use type includes rivers, creeks, canals, and other linear water bodies. The Withlacoochee River system, identified as SW-1, was within the project area with 1.88 ac within the 300-ft buffer evaluated. Within the existing ROW, the Withlacoochee River comprises 1.16 ac. No listed species or indicators of wildlife were observed within this habitat during the field reviews.

FLUCFCS 530 (Reservoirs)
USFWS: PUBx (Palustrine, Unconsolidated Bottom, Excavated)

Reservoirs are generally described as water impoundments that are used for irrigation, flood control, municipal and rural water supplies, recreation and hydro-electric power generation. The 0.58 ac of reservoir within the study area was associated with an inundated stormwater pond adjacent to the existing roadway, identified as other surface water (OSW)-1. This is located entirely within existing ROW. No listed species or indicators of wildlife were observed within this habitat during the field reviews. However, during seasonal inundation, this habitat type can be utilized for foraging by wood storks (*Mycteria americana*) and other wading birds.

2.3.2 Wetland Descriptions

FLUCFCS 615 (Stream and Lake Swamps)
USFWS: PFO2C (Palustrine, Forested, Needle-Leaved Deciduous

This community, often referred to as bottomland or stream hardwoods, is usually found on but not restricted to river, creek and lake flood plain or overflow areas. This category has a wide variety of predominantly hardwood species. Within the project area, 1.07-ac W-9 is an isolated bottomland system with red maple (*Acer rubrum*), buttonbush (*Cephalanthus occidentalis*), coastalplain willow (*Salix caroliniana*), elderberry (*Sambucus canadensis*), and bald cypress (*Taxodium distichum*).

FLUCFCS 621 (Cypress)

USFWS: PFO2 (Palustrine, Forested, Needle-Leaved Deciduous)

This community type is composed of pond cypress and/or bald cypress as the predominant vegetative species. Cypress wetlands are the most abundant type of wetland community on the corridor with 5.04 ac of bald cypress dominated bottomland located entirely within the ROW. This wetland was identified as W-2. No listed species or indicators of wildlife were observed within this habitat during the field review. This wetland does not have relatively open areas, and therefore is not a suitable foraging habitat (SFH) for wood storks and provides limited foraging for other wading birds.

FLUCFCS 641 (Freshwater Marshes)

USFWS: PEM1 (Palustrine, Emergent, Persistent)

Freshwater marshes are primarily herbaceous vegetation. Within the study area, freshwater marshes comprise 2.10 ac., none of which is within the existing ROW. Freshwater marsh systems located adjacent to the ROW in the 300-ft study area were identified as W-5, W-11, and W-13, dominated by sedges (*Cyperus* sp), rushes (*Juncus* sp.) and smartweed (*Polygonum* sp.). No listed species or indicators of wildlife were observed within this habitat during the field review. However, portions of these wetlands are relatively open and meet hydrological requirements as SFH for wood storks and foraging for other wading birds.

FLUCFCS 643 (Wet Prairie)

USFWS: PEM1 (Palustrine, Emergent, Persistent)

Wet prairie habitats are similar to freshwater marshes, but typically have less water, shorter hydroperiods, and shorter herbaceous vegetation. Within the project study area, wet prairie comprises 0.35 ac. No wet prairie community was identified within the existing ROW. One wet prairie system is located adjacent to the ROW in the 300-ft study area and is identified as W-6. Dominant vegetation within this wetland includes sedges and broom grasses (*Andropogon* spp.). No listed species or indicators of wildlife were observed within this habitat during the field review. However, based on vegetation and hydrological indicators, this habitat provides short-hydroperiod SFH for wood storks and foraging for other wading birds.

FLUCFCS 644 (Emergent Aquatic Vegetation)

USFWS: PAB4 (Palustrine, Aquatic Bed, Rooted Vascular)

This community type is comprised of floating vegetation and vegetation which is found either partially or completely above the water surface. There are 1.19 ac of emergent aquatic vegetation within the project study area. There are no emergent aquatic vegetated wetlands in the existing ROW. These emergent aquatic vegetated communities adjacent to the existing ROW in the study area are identified as W-2, W-3, W-4, and W-12. No listed species or indicators of wildlife were observed within this habitat during the field review. Based on vegetation and other hydrological indicators, this habitat provides long-hydroperiod SFH for wood storks and foraging for other wading birds.

FLUCFCS 653 (Intermittent Ponds)

Intermittent ponds are defined as water bodies which exist for only a portion of the year. Within the project area, five stormwater retention ponds represent 5.45 ac, and all are within

the ROW. Because these are storm water management facilities, in order to assure proper identification of their state and federal jurisdictional status for permitting purposes, they are classified as other surface waters and are labeled as OSW-7, OSW-8, OSW-10, OSW-14, and OSW-15. These ponds are vegetated with sedges, rushes, smartweed, and water primrose (*Ludwigia* sp.). These areas have non-hydric soils and were excavated. No listed species or indicators of wildlife were observed within this habitat during the field review. During the August 2013 field review (characterized by higher-than-average antecedent rainfall conditions), the sites contained less than 2 inches of standing water. Therefore, these areas are not classified as SFH for wood storks and provide limited foraging for other wading birds.

2.3.3 Hydric Soils

The NRCS Soil Survey of Hernando County, Florida, (**Appendix A**) was reviewed to determine the types of soils present in the corridor, particularly in the wetland and surface water areas. Six soil types were identified in the areas identified as wetlands or surface waters: 2-Anclote Fine Sand, 8-Astatula Fine Sand, 10-Basinger Fine Sand Depressional, 14-Candler Fine Sand (0-5 percent slope), 43-Pomello Find Sand, and 47-Sparr Fine Sand. Of these soil types, all but Candler Fine Slope, Astatula Fine Sands, and Sparr Fine Sands are classified as hydric by the *Soils of Florida Handbook*[9] (Hurst, 2007).

Anclote Fine Sand consists of low, nearly level, very poorly drained soils that formed in sandy, marine sediments. They are typically found in low depressional areas. Under natural conditions, the water table is above the surface for 3 to 6 months during the wet season. This soil series is classified as hydric.

The Astatula soils series consists of well drained, sandy soils typically with water table below 80 inches. This soil is typically found in uplands and is classified as non-hydric.

Basinger Fine Sand consists of nearly level, poorly drained soils typically found in poorly defined drainage ways, wet depressions, and sloughs in flatwoods. The water table is at a depth of less than 10 inches for two to six months and at a depth of 10 inches to 30 inches for the remainder of the year. This soil series is classified as hydric.

The Candler Series are excessively drained, sandy soils found typically in uplands. The water table is below a depth of 80 inches for much of the year. This soil type was identified in the areas classified by FLUCFCS as 653 (Intermittent Ponds). These areas were excavated to utilize for storm water management. This soil series is classified as non-hydric.

Pomello soils are nearly level to sloping, moderately drained sandy soils. This series is typically found in low ridges in flatwoods with the water table at 24 to 40 inches for one to four months of the year and at 40 to 60 inches the remainder of the year. This soil type is classified as hydric.

The Sparr soil series are nearly level to sloping, poorly drained soils typically found in seasonally wet uplands. The water table is at a depth of 20 inches to 40 inches for two to six

months a year and perched on the surface of the loamy layers for the remainder of the year. Sparr soils are classified as non-hydric.

2.4 IMPACT ASSESSMENT

2.4.1 Anticipated Impacts

The project corridor is an existing roadway alignment with wetlands and surface waters within the ROW. Therefore, impacts to wetlands and other surface waters are unavoidable. Measures to minimize and avoid impacts to the greatest extent practicable will be implemented both in the design phase and the construction phase of the project. It is anticipated that impacts will primarily occur in the existing ROW. Facilities to treat, convey, or attenuate surface waters will be designed at a later phase of the project. Impacts due to the construction of stormwater treatment facilities were not reviewed during this study.

The acreages are provided as both impacts resulting from the entire study area that included a 300-ft buffer from the edge of pavement being impacted and those resulting from just the habitat within the existing ROW being impacted. Both of these acreages may be reduced during design of the project. For instance, the existing pond sites will largely remain intact; impacts to SW-1 (Withlacoochee River) will only be pilings rather than the entire area; and the project will not impact the entire study area. The wetland and surface water habitats identified within the study area totaled 17.66 ac (**Table 3**). The wetland and surface water habitats identified within the proposed ROW totaled 7.29 ac. The UMAM value (**Appendix H**) of wetlands within the study area ranged from 0.3 to 0.8 per acre, with differences based on degree of isolation and degradation due to the adjacent existing roadway. A UMAM value of 0.3 per ac was also calculated for one of the existing stormwater pond sites (OSW-1), since any permanent impact to this pond would require compensation for wood stork SFH within their CFA. The other five stormwater pond sites do not have SFH based on hydrology and were therefore not evaluated via UMAM.

Table 3: Potential Wetland and Other Surface Waters Impact

Wetland or Surface Water	FLUCFCS Code	USFWS Code	Acres Within Study Area (AC)	Acres Within Proposed ROW (AC)	UMAM Value per Acre	UMAM Value within Study Area	UMAM Value within ROW
SW-1	510	R2UB	1.88	1.16	0.8	1.50	0.93
OSW-1	530	PUBx	0.58	0.58	0.3	0.17	0.17
W-2	644	PAB4	0.42	0	0.6	0.25	0.00
W-2	621	PFO2	5.04	0.10	0.6	3.02	0.06
W-3	644	PAB4	0.42	0	0.5	0.21	0.00
W-4	644	PAB4	0.33	0	0.5	0.17	0.00
W-5	641	PEM1	0.78	0	0.3	0.23	0.00
W-6	643	PEM1	0.35	0	0.3	0.11	0.00
OSW-7	653	PUB1x	1.60	1.60	n/a	n/a	n/a

WETLAND OR SURFACE WATER	FLUCFCS CODE	USFWS Code	Acres Within Study Area (AC)	Acres Within Existing ROW (AC)	UMAM Value per Acre	UMAM Value within Study Area	UMAM Value within ROW
OSW-8	653	PUB1x	0.92	0.92	n/a	n/a	n/a
W-9	615	PFO2C	1.07	0	0.4	0.43	0.00
OSW-10	653	PUBJx	1.21	1.21	n/a	n/a	n/a
W-11	641	PEM1	0.44	0	0.5	0.22	0.00
W12	644	PEM1	0.02	0	0.5	0.01	0.00
W-13	641	PEM1	0.88	0	0.3	0.26	0.00
OSW-14	653	PUB1x	0.64	0.64	n/a	n/a	n/a
OSW-15	653	PUB1x	1.08	1.08	n/a	n/a	n/a
TOTAL			**17.66**	**7.29**		**6.59**	**1.16**

2.5 CONCEPTUAL MITIGATION PLAN

2.5.1 Conceptual Mitigation Plan

No mitigation requirements were anticipated for impacts to the other surface waters based on current regulations. Mitigation for wetland impacts will be provided through the purchase of mitigation bank credits, if available at the time of permitting or through the FDOT Mitigation Program in accordance with Chapter 373.4137 of the Florida Statutes (F.S.) [Program]. Recent cost estimates of the Green Swamp Mitigation Bank are $180,000 per UMAM credit for freshwater forested impacts. There are currently no bank credits available for freshwater herbaceous impacts. Mitigation through the Program is currently available at a cost of $109,599 per acre of impact for FY 2013/14. Therefore, the estimated cost of mitigation for the project ranges from $1,019,580 (combination of bank/Program) to $1,068,590 (Program only) for impacts within study area. The mitigation cost estimate ranges from $543,600.00 (Bank) to $552,379.00 (Program) for impacts within the existing ROW. Other alternatives may develop prior to or during permitting of this project. In any instance, the mitigation for wetlands should also include the purchase of sufficient additional credits to offset impacts to wood stork SFH within their CFA (see Endangered Species Biological Assessment, Section 3.0 below).

2.6 COORDINATION AND PERMITS REQUIRED

The United States Army Corps of Engineers (USACE) and SWFWMD regulate wetlands and surface waters within the project area. Other agencies, including USFWS, the U.S. Environmental Protection Agency (EPA), and the Florida Fish and Wildlife Conservation Commission (FWC), review and comment on the wetland permit applications. In addition, the Florida Department of Environmental Protection (FDEP), through a delegation from EPA, regulates stormwater discharges from the construction sites. It is anticipated that the following permits will be required for this project:

PERMITS	ISSUING AGENCY
Section 404 Dredge/Fill Permit	USACE
Environmental Resource Permit (ERP)	SWFWMD
National Pollutant Discharge Elimination System (NPDES) Permit	FDEP

SWFWMD requires an ERP when construction of any project results in the creation of a water management system or in impacts to waters of the State. In addition to wetland and surface water impacts, SWFWMD reviews water quality and water quantity issues related to the project related changes in land use and the placement of additional impervious surfaces. The complexity and level of the ERP permitting process would depend on the extent of wetland impacts as well as the extent of water quality and quantity concerns. Because the impacts were estimated at greater than 1 ac of impact, it was anticipated that an Individual permit would be required.

USACE will review the project for compliance with Section 404(b)(1) guidelines including verification that all wetland impacts have first been avoided to the greatest extent possible, that unavoidable impacts have been minimized to the greatest extent possible, and that unavoidable impacts have been mitigated in the form of wetlands creation, restoration, and/or enhancement. Because the impacts were estimated as greater than 1 ac, it is anticipated that the project would require an Individual level permit. Any project that results in the clearing of one or more acres of land requires a NPDES Permit from the FDEP, pursuant to Title 40 of the Code of Federal Regulations (CFR) Parts 122 and 124. Under the State of Florida's delegated authority to administer the NPDES program, the contractor awarded this project would be required to file a Notice of Intent to utilize the Generic Permit contained in Chapter 62-621, F.A.C. In association with this permit, a Stormwater Pollution Prevention Plan (SWPPP) would also be required. The primary function of the NPDES requirements is to assure that sediment and erosion is controlled during construction of the project. These permits typically utilize Best Management Practices to assure compliance.

3.0 ENDANGERED SPECIES BIOLOGICAL ASSESSMENT

3.1 INTRODUCTION

This project was evaluated for potential impacts to wildlife and habitat resources, including protected species in accordance with 50 CFR 402 of the Endangered Species Act of 1973 (ESA), as amended; 50 CFR 17 (federal animal list); 379.2291 F.S., Endangered and Threatened Species Act(ETSA); Chapter 68A-27.003 F.A.C. (Endangered species list); 68A-27.004 F.A.C. (Threatened species list); 68A-27.005 F.A.C. (Species of Special Concern list), and Chapter 27 of the FDOT *Project Development and Environment Manual,* Wildlife and Habitat Impacts.

3.2 METHODOLOGY

Agency database searches and a preliminary field review of potential habitat areas were conducted to identify state and federally protected wildlife species and/or critical habitat occurring or potentially occurring within the project area. Project scientists conducted the general wildlife field review on April 20, 2011. A second field review was conducted on January 16, 2012, to review additional areas not included in the original study area. Further evaluation of federally-listed species occurred through discussions with conservation land managers at Withlacoochee State Forest and Cypress Lake Preserve, followed by field reviews August 6-7, 2013. The following resources were utilized to determine this assessment:

- FDOT FLUCFCS, 3rd edition 1999.
- SWFWMD Land Use Data
- Aerial derived photographs
- FWC, Florida's Endangered Species and Threatened Species, November 2010
- Florida Natural Areas Inventory (FNAI), Hernando County, Florida
- FWC Bald Eagle Nest locator website
- Breeding Atlas of Herons and their Allies Database
- Wood Stork Colony Location Database (GIS/FWS data)

Several state and federally protected wildlife species occur or have the potential to occur within the study area. During the field verification, the presence of protected species was noted. However, species specific surveys were not conducted and the field review was limited to what could be observed from within the ROW.

3.3 POTENTIAL PROTECTED PLANT SPECIES

The database review conducted for the FNAI protected plant list for Hernando County resulted in a list of twenty potential species that could possibly occur in the habitat types on this project (**Table 4)**. Of the twenty species identified, seventeen are designated as Endangered by the state and three are designated as Threatened by the state. Only three of the species are designated as federally protected (Endangered), as well as being listed by the state: Britton's beargrass (*Nolina brittoniana*), Robin's Bellflower (*Companula robinsiae*),

and Cooley's Water-willow (*Justicia cooleyi*). Potential habitat for these plants occurs within the study area based on FNAI data and field evaluation. Britton's beargrass generally occurs on scrub, sandhill, scrubby flatwoods, and xeric hammock, flowering March through May. Robin's bellflower is typically found along the margins of ponds and marshes with fluctuating water levels and moist seepage areas surrounded by pastures, and has been documented at sites in Hernando and Hillsborough counties flowering as water levels recede following the rainy season. Cooley's water-willow occurs on hardwood hammocks over limestone, flowering from August to December. Scientists equipped with a field guide for these species did not observe them in the field during any of the field reviews, and the managers of nearby conservation lands (Withlacoochee State Forest and Cypress Lake Preserve) also were not aware of their presence in this vicinity. Based on this information, the project "may affect, not likely to adversely affect" these three species. However, portions of the study area were not accessible due to access constraints. Therefore, to assure that these plant species are not present in the project area, additional surveys would be undertaken during design of the future SR 50 (Cortez Boulevard) widening projects.

Table 4: Protected Plant Species Potentially Present in Project Study Area

Scientific Name	Common Name	Federal Status	State Status
Adiantum tenrum	Brittle Maidenhair Fern	NL	E
Agrimonia incise	Incised Groove-Bur	NL	E
Asplenium erosum	Auricled Spleenwort	NL	E
Asplenium pumilum	Dwarf Spleenwort	NL	E
Blechnum occidentale	Sinkhole Fern	NL	E
Campanula robinsiae	Robin's Bellflower	E	E
Centrosema arenicola	Sand Butterfly Pea	NL	E
Coelorachis tuberculosa	Piedmont Jointgrass	NL	T
Justicia cooleyi	Cooley's Water-Willow	E	E
Lechea divaricata	Drysand Pinweed	NL	E
Monotropsis reynoldsiae	Pygmy Pipes	NL	E
Nolina brittoniana	Britton's Beargrass	E	E
Pecluma dispersa	Widespread Polypody	NL	E
Pecluma plumula	Plume Polypody	NL	E
Pecluma ptilodon	Swamp Plume Fern	NL	E
Pepeomia humilis	Terrestrial Peperomia	NL	E
Pteroglossaspis ecristata	Giant Orchid	NL	T
Pycnanthemum floridanum	Florida Mountain-Mint	NL	T
Schizachyrium niveum	Scrub Bluestem	NL	E
Triphora craigheadii	Craighead's Nodding-Caps	NL	E

Legend: T=Threatened; E=Endangered; NL=Not Listed

3.4 POTENTIAL PROTECTED WILDLIFE SPECIES

Potential species were preliminarily identified with a data search of the FNAI website. Based on habitats identified with the SWFWMD land use data and preliminary field reviews, this list was modified to show only the species that were observed or are known to utilize the habitat types present on the corridor. The species with the potential to occur in the study area based on habitat type are listed in **Table 5** with the likelihood of occurrence rated as low, moderate, high, or none. A low rating indicated that the species was known to occur in Hernando County, but preferred habitat was not present or limited on the corridor. The low

rating also was utilized for species for which preferred habitat was present, but current databases provided strong evidence that the species was not present in the corridor. A moderate rating indicated the species is known to occur in Hernando County and that suitable habitat for that species is well represented on the project corridor, but that no observations or positive indicators were observed during field reviews to verify the species' presence. Species with a moderate rating may require Standard Construction Precautions during construction. A high rating indicated the species occurs in Hernando County, is suspected within the project corridor based on known ranges and existence of sufficient preferred habitat on the corridor, is known to occur adjacent to the corridor, was observed during field reviews, or has been previously observed or documented in the vicinity. A high rating also indicated that the project is located within a Consultation Area for the species.

Table 5: Potentially Occurring Protected Wildlife Species

Scientific Name	Common Name	State Status	Federal Status	Preferred Habitat	Probability of Involvement
Rana capito	Gopher Frog	SSC	_	Various habitats, gopher tortoise burrows	Moderate
Drymarchon couperi	Eastern Indigo Snake	FT	T	Various habitats, gopher tortoise burrows	Moderate
Gopherus polyphemus	Gopher Tortoise	ST	C	Xeric habitats	High
Lampropeltis extenuata	Short-tailed Snake	ST	_	Xeric habitats	Low
Pituophis melanoleuccus mugitus	Florida Pine Snake	SSC	___	Xeric habitats	Low
Pseudemys concinna suwanniensis	Suwannee Cooter	SSC	_	Freshwater rivers and lakes	Moderate
Aphelocoma coerulescens	Florida Scrub Jay	FT	T	Sand pine scrub	Low
Aramus guarauna	Limpkin	SSC	___	Freshwater marshes, wet prairies, cypress swamps, hardwood swamps	Low
Athene cunicularia floridana	Florida Burrowing Owl	SSC	___	Dry prairies, open grassland	Moderate
Egretta caerulea	Little Blue Heron	SSC	___	Freshwater and salt marshes, wet prairies, cypress swamps, hardwood swamps	Low
Egretta thula	Snowy Egret	SSC	___	Freshwater and salt marshes, wet prairies, cypress swamps, hardwood swamps	Low
Egretta tricolor	Tricolored Heron	SSC	___	Freshwater and salt marshes, wet prairies, cypress swamps, hardwood swamps	Low
Eudocimus albus	White Ibis	SSC	___	Freshwater and salt marshes, wet prairies, various habitats	Low
Falco sparverius paulus	Southeastern American Kestrel	ST	___	Open habitats, dry prairies, agriculture habitats	Moderate
Grus canadensis pratensis	Florida Sandhill Crane	ST	___	Dry prairies, freshwater marshes, wet prairies	Moderate

Table 5: Potentially Occurring Protected Wildlife Species

Scientific Name	Common Name	State Status	Federal Status	Preferred Habitat	Probability of Involvement
Haliaeetus leucocephalus	Bald Eagle	*	*	Various habitats	Low
Pandion haliateus	Osprey	—	*	Various habitats	Moderate
Mycteria americana	Wood stork	FE	E	Freshwater marshes, wet prairies, cypress swamps, hardwood swamps	Moderate
Picoides borealis	Red-Cockaded Woodpecker	FE	E	Pine flatwoods	Moderate
Platalea ajaja	Roseate Spoonbill	SSC	–	Freshwater and salt marshes, wet prairies, cypress swamps, hardwood swamps	Moderate
Podomys floridanus	Florida Mouse	SSC	–	Various habitats, gopher tortoise burrows	Moderate
Sciurus niger shermani	Sherman's Fox Squirrel	SSC	—	Pine flatwoods	Low

* The bald eagle is no longer protected by the Endangered Species Act (ESA). However, it is protected under the Bald and Golden Eagle Protection Act, the Migratory Bird Treaty Act (MBTA), and state Bald Eagle rule. The osprey is also not protected under state or federal ESA, but is protected under the MBTA.

Legend: FE- Federally-Designated Endangered; FT-Federally-Designated Threatened; ST – State-Designated Threatened; SSC –State Species of Special Concern; C-Candidate for Federal listing

3.5 PROJECT IMPACTS

3.5.1 Federally Listed Species

Species protected both federally and by the state with the potential to occur in the study area include the Eastern indigo snake (*Drymarchon couperi*), Florida scrub jay (*Aphelocoma coerulescens*), wood stork (*Mycteria americana*), and red-cockaded woodpecker (*Picoides boreali*).

The Eastern indigo snake is a federally and state listed threatened species. The project was evaluated in accordance with the Eastern Indigo Snake Programmatic Effect Determination Key (USFWS, 2010 and 2013). The study area includes several types of habitat with potential for Eastern indigo snake, including presence of gopher tortoise burrows and mammal burrows within mesic and xeric habitats. Further, staff at the Withlacoochee State Forest (Vince Morris) and Cypress Lake Preserve (Jim King) indicated during telephone discussions that Eastern indigo snakes have been frequently observed in this vicinity. Therefore, standard FDOT construction precautions (**Appendix I**) will be implemented. Thirty-three (33) gopher tortoise burrows were observed during field evaluations within the 300-ft study area of the approximate 6.3 mile long study corridor. The USFWS key indicates a "may affect" determination for the indigo snake if there are 25 or more burrows present within a project's limits of construction. In accordance with the USFWS key (couplet D), the project corridor "may affect" the Eastern indigo snake since more than twenty-five burrows were observed within the study corridor . However, the study corridor is to be divided up into multiple future design segments. These separate design segments are anticipated to be

constructed primarily within the existing ROW. Therefore, the number of borrow locations will vary within each design segment. As fewer than 25 borrows are likely to be affected within each design segment, this outcome should allow for a "may affect, not likely to adversely affect" determination to be made. It should be noted that the field evaluations did not include a 100% burrow survey of gopher tortoise habitat. Formal gopher tortoise surveys will be conducted during design within the construction limits of each design project. Additional USFWS consultation will occur at that time, once each project's impacts are better-defined and a more thorough gopher tortoise survey is conducted.

The Florida scrub jay is a federally and state listed threatened species. The red-cockaded woodpecker is a federally and state listed endangered species. The project area was within USFWS Consultation Areas for both of these species, and a letter from FWC on May 16, 2013 recommends pre-construction surveys for these species. Discussions with the conservation land managers at the Withlacoochee State Forest and Cypress Lake Preserve indicated that the nearest known locations of red-cockaded woodpecker colonies are approximately 4 mi northwest of the SR 50 (Cortez Boulevard) intersection with I-75, and 1 mile east of the SR 50 (Cortez Boulevard) intersection with U.S. 301. Long-leaf pine (*Pinus palustris*) and slash pine (*Pinus elliottii*) trees that are 60 years or older based on increment-boring or with a diameter at breast height (dbh) greater than 6 inches are assumed to be suitable for nesting. Based on field evaluation, suitable long-leaf pine and slash pine occur within portions of the project area, although no nest sites were observed. Based on these discussions and field reviews, red-cockaded woodpeckers are not anticipated in the project area. Field reviews and discussions with the conservation land managers also determined that scrub jays are not likely to occur within the project area. Areas with potential scrub jay habitat based on FLUCFCS data were evaluated during the August 6-7 field reviews. These areas were determined to have limited potential as scrub jay habitat due to vegetation that is too densely forested to support scrub jay nesting sites. Therefore, it is anticipated that the project "may affect, not likely to adversely affect" red-cockaded woodpeckers and Florida scrub jays.

The wood stork is a federally and state listed endangered species. The project was evaluated in accordance with the Wood Stork Key for Central and North Peninsular Florida (USFWS, 2008). The project is located within the 15.0 mi Core Foraging Area (CFA) of three wood stork colonies. Wood stork colony 61104 is located 12.0 mi north of the project study area, colony 611305 is located 11.1 mi west of the project study area, and colony 611021 is located 8.2 mi east of the project study area. Because the study corridor area is within these three CFAs, compensation of any impacted habitat within a future design segment that is suitable foraging habitat (SFH) for this species will be evaluated during its design and the appropriate mitigation will be provided to compensate for the loss of SFH within the CFA. The FDOT will coordinate with the USACE and USFWS during the future projects' design and permitting activities to determine the quantity of the impacts and compensate for SFH in accordance with the wood stork key, concurrent with mitigation for wetland impacts. Mitigation is anticipated to be required only for permanent impacts to SFH within the CFA. In-kind relocation or replacement of a ditch or stormwater pond containing SFH is generally considered only a temporary impact, not requiring compensatory mitigation. With appropriate mitigation provided for permanent impacts at the time of permitting, the project "may affect, not likely to adversely affect" the wood stork.

The Florida manatee (*Trichechus manatus latirostris*), a federally listed endangered species, is not present within the project but is included here for purposes of discussion. The Withlacoochee River crosses under SR 50 between Cyril Dr/Amelia Ln and Ridge Manor Blvd. Portions of the Withlacoochee River support manatees; however, based on a review of manatee survey and mortality data, those areas are significantly downstream of the project, west of US 41 (SR 45). Numerous water management structures within the Withlacoochee River between SR 45 and SR 50 (Cortez Boulevard) prevent manatee movement. Therefore, the proposed project will have "no effect" on the manatee.

The gopher tortoise (*Gopherus polyphemus*), a state listed threatened species and candidate for federal listing within the southeastern U.S., is located within the project area. During the field reviews a total of thirty-three (33) gopher tortoise burrows were identified within the existing ROW; however, the field reviews were not a formal gopher tortoise burrow survey. During a project's design and prior to construction, FDOT will conduct the appropriate gopher tortoise survey, coordinate with the FWC to permit and relocate gopher tortoises located within a project's limits of construction, and provide compensation as required through that permitting process.

3.5.2 State Listed Species

State-designated protected species with the potential to occur included the gopher frog (*Rana capito*), short-tailed snake (*Lampropeltis extenuate*), Suwannee cooter (*Pseudemys concinna suwanniensis*), Florida mouse (*Podomys floridanus*), gopher tortoise (*Gopherus polyphemus*), Florida pine snake (*Pituophis melanoleuccus mugitus*), limpkin (*Aramus guarauna*), Florida burrowing owl (*Athene cunicularia floridana*), Southeastern American kestrel (*Falco sparverius paulus*), Florida sandhill crane (*Grus canadensis pratensis*), and state-protected wading birds. The potential of occurrence was based primarily on habitat types and database information. Of these, the only species directly observed during field reviews was the gopher tortoise.

Of the species that occurred in the vicinity, the short-tailed snake, the Florida pine snake, and the Suwannee cooter are not anticipated to be impacted by the project due to a lack of suitable habitat. The project is anticipated to have no effect on these species as described below.

The **short-tailed snake** is a state protected threatened species. This species is typically found in xeric habitats such as sandhill or sand pine scrub areas. Because of the lack of appropriate habitat, this species would not be affected by the project. In addition, protective measures in place for the Eastern indigo snake would also benefit this species. The **Florida pine snake** is a state protected species of special concern. This species is typically found in xeric habitats such as turkey oak communities, sandhill, and scrub. Because of a lack of this type of habitat, this species would not be affected by the project. In addition, protective measures in place for the Eastern indigo snake would also benefit this species. The **Suwannee cooter** is a state protected species of special concern that inhabits freshwater waterways. However, due to the anticipated limited work in the water, as well as the transient nature of this species, this species would not be affected by the project.

Limited foraging and/or nesting habitat is present in the corridor for the state protected wading birds and the **Florida sandhill crane**. Because mitigation will be provided for all impacts to wetlands and surface waters suitable for foraging or nesting, the impacts to these species, if any, will be minimal. The state-protected wading bird species in the project area include the **limpkin, little blue heron** (*Egretta caerulea*), **snowy egret** (*Egretta thula*), **tricolored heron** (*Egretta tricolor*), **roseate spoonbill** (*Platalea ajaja)*, and **white ibis** (*Eudocimus albus*), which are all state listed species of special concern. While small foraging areas utilized by these species may be affected by this project, there would be no permanent impacts to nesting areas or rookeries. The FWC in a letter to FDOT dated May 16, 2013 (**Appendix J**) recommended that potential impacts to wading birds be rated as "moderate" rather than "low" due to foraging habitat within the shoreline area of the Withlacoochee River. However, impact to this area is not anticipated other than potential placement of bridge piling(s) in order to widen the bridges. With appropriate mitigation for wetlands as described above, the project may affect, but is not likely to adversely affect, the state-protected wading birds.

The **Florida sandhill crane** is a state protected threatened species. This species is primarily affected from the disruption of nesting and the destruction of nesting habitat. Sandhill cranes were not observed during field reviews and habitat for nesting was very limited. Because no impacts to nesting or foraging habitat are anticipated, this species will not be affected by the project. The **gopher tortoise**, a state listed threatened species, was observed within the corridor's study area. During the field reviews a total of thirty-three (33) gopher tortoise burrows were identified within the approximate 6.3 mile long study corridor; however, the field review was not a formal gopher tortoise survey. During a project's future design and prior to construction, FDOT will conduct the appropriate gopher tortoise survey, coordinate with the FWC to permit and relocate gopher tortoises located in the project area, and provide compensation as required through that permitting process. This permitting effort should also afford protection to the gopher tortoises' commensals, the **gopher frog** and **Florida mouse**. With the appropriate permitting and relocation effort, the project may affect but is not likely to adversely affect the gopher tortoise, Florida mouse, and gopher frog.

The following species were not observed in the project area. However, due to the limited nature of the surveys conducted and FWC comments (**Appendix J**), additional surveys to reevaluate these species are planned to be done during the future design of the projects.

The **Southeastern American kestrel** nests in the spring (March through June), typically using snags (dead standing trees) containing abandoned woodpecker-created cavities. From the fall through the spring, the more northern, migratory American kestrel (*F. s. sparverius*) also occurs. This subspecies of kestrel does not nest in Florida and is not protected by the USFWS or the FWC. However, it is not easily distinguishable from the southeastern American kestrel and occurs in similar habitat. To avoid misidentification, the FWC recommends that surveys for the southeastern subspecies occur from April through August, when the American kestrel does not occur in Florida. Some suitable foraging and nesting habitat occurs within the project study area. However, during field evaluations, no kestrels, nest sites, or nest cavities were observed. Direct impacts to the kestrel occur when the nest cavity is removed. However, due to the limited nature of the field evaluations,

additional surveys during the design phase of the project are recommended by FWC in a letter dated May 16, 2013.

The **Florida burrowing owl** is a state protected species of special concern. Additional surveys during design were recommended by FWC in their May 16, 2013 letter to determine if burrows are located within the areas to be impacted as a result of this project. Suitable habitat for burrowing owl burrows exists within the project study area for this species, although none were observed. However, portions of the study area were not available for survey. It was anticipated that the project is not likely to adversely affect this species, and the Department plans to conduct an additional survey for burrows during design of the projects.

Sherman's fox squirrel (*Sciurus niger shermani*), is a state protected species of special concern. Nest surveys during design were recommended in the FWC letter. Although this species' preferred habitat (mature longleaf pine-turkey oak sand hills and flatwoods) does not occur within the study area, the presence of longleaf and slash pine in portions of the project provide potential nesting sites. No nests were observed during field observations. It is anticipated that this project may affect but is not likely to adversely affect this species, and the Department plans to conduct an additional survey during design of the projects.

3.5.3 Non-Listed Protected Species

The **bald eagle** (*Haliaeetus leucocephalus*) is not listed as threatened, endangered, or special concern by the USFWS or FWC; however, this species is protected at the federal level by the Bald and Golden Eagle Protection Act and Migratory Bird Treaty Act (MBTA), and in Florida by the Bald Eagle rule (68A-16.002, F.A.C). The FWC letter dated May 16, 2013 recommends a nest survey prior to construction. Bald eagles use forested habitats for nesting, particularly large trees within densely forested areas within 1.8 mi of open bodies of water (FWC). No bald eagle nests are mapped by FWC within 660 feet of the project area, and none were observed during the field reviews. It is anticipated that the project would not affect this species. However, visual observation will be conducted prior to construction activities during the bald eagle nesting season (October 1 to May 15) to confirm the absence of active eagle nests within 660 feet of construction activities, and implement protective measures in accordance with the FWC Bald Eagle Management Plan (FWC, 2008) in the event that active nests are observed. The **osprey** (*Pandion haliateus*) is protected under the MBTA. No nests were observed during field evaluations; however, in the event that nests are observed prior to or during construction, a nest removal permit will be obtained.

3.6 RECOMMENDATIONS AND COMMITMENTS

FDOT will coordinate with the appropriate agencies during the design and permitting phase of the project, including SWFWMD, USACE, USFWS and FWC. FWC reviewed a previous version of this ETC as an attachment to the State Environmental Impact Report (SEIR) (see **Appendix J**). Further agency coordination will include evaluation (and mitigation as necessary) of impacts to wetlands, other surface waters, wood stork SFH, and further evaluation of the species below. The project includes 7.29 ac of wetlands and other surface waters in the existing ROW. Of this acreage, 0.10 ac is wetland (W-2), 1.16 ac is surface water (SW-1) and the remainder is OSW. Permanent, unavoidable impacts to wetlands and to wood

stork SFH will be mitigated through the purchase of wetland mitigation credits from available mitigation banks based on UMAM evaluation or through the FDOT Mitigation Program in accordance with 373.4137 (F.S.). Based on field evaluation, this would not include impacts to the stormwater facilities OSW-7, OSW-8, OSW-10, OSW-14 and OSW-15, as these sites are not wetlands and have insufficient hydrology to provide wood stork SFH.

The FDOT has established the following commitments to assure that there will be no adverse impacts to protected species

- Gopher tortoise: Due to the presence of gopher tortoise habitat and burrows within and adjacent to the existing ROW, a gopher tortoise survey in appropriate habitat within construction limits (including roadway footprint and stormwater management ponds) will be performed prior to construction. The FDOT will secure any relocation permits needed for this species during the project permitting and construction phases of the project.
- Eastern indigo snake: Additional consultation with USFWS will occur upon gopher tortoise survey based on design-level impacts. The standard FDOT Construction Precautions for the Eastern Indigo Snake will be adhered to during construction of the project (Appendix I).
- Wood stork: FDOT will evaluate impacts to SFH during design and permitting, and provide any additional wetland mitigation necessary to offset permanent impacts to SFH through the USACE permit.
- The FDOT will resurvey for Sherman's fox squirrel nests, southeastern American kestrel nest cavities, burrowing owl burrows and bald eagle nests during the design phase and prior to permitting the project. Coordination with the USFWS and FWC will be initiated as appropriate.
- The FDOT will resurvey for Britton's beargrass, Robin's Bellflower, and Cooley's Water-willow prior to construction. Coordination with the USFWS and FWC will be initiated as appropriate.

4.0 CONTAMINATION SCREENING EVALUATION

4.1 INTRODUCTION

This section of the ETC presents the results of a Contamination Screening Evaluation for the proposed project area. The possible impacts to the project caused by sites with potential contamination issues are discussed, and recommendations based on the possible impacts are provided. This evaluation was prepared in accordance with the FDOT *Project Development and Environment Manual*, Part 2, Chapter 22.

4.2 HYDROLOGICAL FEATURES

The primary surface water feature in the project area is the Withlacoochee River. With regard to the geology of the area, Hernando County features areas of Pliocene- to recent-aged sands of variable thickness, which overlie Cretaceous and Tertiary carbonates and clays. In many areas, the sandy layer is absent, so that the clay or carbonate sediments are exposed at the surface. The sandy sediments, which form the shallow Surficial Aquifer, were believed to have been deposited during higher stands of sea level. Clayey sands, clays, and some limestone layers, which geographically appear to be remnants of the Hawthorn Group (including the Tampa Limestone), underlie the surficial sands in varying thicknesses and compositions. The Hawthorne sediments are thickest in the central part of the county, reaching up to 30 ft thick. This clayey confining unit is absent in many areas of Hernando County, resulting in the Floridan Aquifer system being unconfined in most areas of the county.

Beneath the surficial sands and clays (if present) lies a thick sequence of sedimentary rocks, which make up the Floridan Aquifer system. The thickness of the Floridan Aquifer system in central Hernando County is greater than 2,600 ft. The system consists primarily of chemically-precipitated sedimentary rocks, mainly limestone and dolomite, which contain shells and shell fragments of marine origin. The upper limestone units consist of the Suwanee, Ocala, and Avon Park Formations. There are several moderate to large freshwater springs in Hernando County, which derive their water source from the upper Floridan formations. Beneath the upper Floridan units are limestones and dolomites of the Oldsmar Formation and Cedar Keys Formation. The base of the Floridan Aquifer system consists of the nearly impermeable anhydrite beds in the Cedar Keys Formation. The close proximity of soluble limestone rocks to the surface in Hernando County has resulted in a higher-than-typical frequency of sinkhole occurrences.

The Floridan Aquifer system is the principal source of water for domestic, agricultural, and industrial purposes within Hernando County. Transmissivity in the Floridan Aquifer system is up to 2,000,000 square feet (sq ft) per day in Hernando County. Regional groundwater flow within the Floridan Aquifer system in the county is toward the west and northwest. Due to the development in the Hernando County area and the numerous lakes, ponds, and manmade drainage features, it is difficult to determine the local (surficial and Floridan aquifer system) groundwater flow direction without site-specific studies.

4.3 METHODOLOGY

A preliminary evaluation of SR 50 (Cortez Boulevard) from Lockhart road to US 301 (SR 35/Treiman Boulevard), was conducted to determine potential contamination concerns from properties or operations located with 1/8 mi of the SR 50 (Cortez Boulevard) ROW. Since improvements to I-75 would be done as a separate project, the I-75/SR 50 interchange ROW was excluded from the study area.

The initial step in the contamination evaluation was the review of a database provided by Environmental Data Management (EDM) as shown in **Appendix B**. The following EPA and state database listings, among others, were reviewed and listed in the EDM Report:

- The National Priorities (Superfund) List (NPL) is EPA's list of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program. To be included on the NPL, a site must either meet or surpass a predetermined hazard ranking systems score, be chosen as a state's top priority site, or meet all three of the following criteria: (1) the United States Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure; (2) EPA determines that the site represents a significant threat; and (3) EPA determines that remedial action is more cost-effective than removal action.
- The RCRIS Handlers with Corrective Actions (CORRACTS) database is a listing of hazardous waste handlers that have undergone Resource Conservation and Recovery Act (RCRA) corrective action activity. This information is compiled by the EPA Regional and State RCRA program personnel, as well as the RCRA facilities themselves.
- The Comprehensive Environmental Response, Compensation, and Liability Information List (CERCLIS) is the EPA's compilation of the sites for which EPA has investigated or is investigating a release or threatened release of hazardous substances. These sites may be subject to review in accordance with the terms and conditions of the Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund Act).
- The No Further Remedial Action Planned List (NFRAP) identifies facilities and/or locations that were previously listed in the EPA CERCLIS database, but have since been assessed and designated as requiring no further remedial action.
- The Emergency Response Notification System List (ERNS) is used to store information on the notification of oil discharges and hazardous substance releases.
- The Resource Conservation and Recovery Information System Lists (NONTSD and TSD) identify and track hazardous waste from the point of generation to the point of disposal. The EPA's NONTSD and TSD Databases contain reporting facilities that generate, store, treat, or dispose of hazardous waste. They range from Small Quantity Generators (SQGs) to waste treatment facilities.

- The State Sites List (STCERC) is a historical listing of sites that FDEP compiled to track suspect contamination sites. This list was known as the Florida SITES list and was last updated in 1989.
- The Florida Dry Cleaners List (DRY) is comprised of data from the FDEP Storage Tank and Contamination Monitoring database and the Drycleaning Solvent Cleanup Priority Ranking List. It contains a list of those Dry Cleaner sites (and suspected historical Dry Cleaning sites) who have registered with the FDEP for the Dry Cleaning Solvent Cleanup Program.
- The State Funded Action Sites List (STNPL) contains facilities and/or locations that have been identified by FDEP as having known environmental contamination and are currently being addressed through State funded cleanup action.
- The Solid Waste Facilities List (SLDWST) identifies locations that have been permitted to conduct solid waste landfilling activities or other waste handling activities such as those conducted at transfer stations.
- The Leaking Underground Storage Tank List (LUST) identifies facilities and/or locations that have notified FDEP of a possible release of contaminants from petroleum storage systems.
- The Storage Tanks Report (TANKS) identifies those facilities or locations that have registered aboveground and/or underground storage tanks pursuant to the notification requirements found in applicable chapters of the F.A.C.
- The State Designated Brownfield Areas (BRWNFLDS) identifies State Brownfields areas, which are typically abandoned, idled, or underused industrial or commercial facilities, where redevelopment is complicated by real or perceived environmental, contamination.

As shown in **Appendix B**, MAPIDs #1 through #17 (excluding MAPID #3) from the EDM Report were located within the immediate vicinity of the project. MAPID #3 is located within the I-75/SR 50 interchange ROW, which was not considered part of this project. It should be noted that MAPID #3 represents two incidents where fuel was spilled during truck roll-over accidents on I-75. After review of the EDM Report, the contamination evaluation included the following tasks:

- A search of files available from the FDEP, which maintains a database of contaminated sites and files. The FDEP provides on-line viewing of site-specific contamination files as part of their Oculus database. Petroleum storage tank inspection files for Hernando County, the storage tanks of which are inspected by the Citrus County Department of Environmental Health, are provided via the Oculus system.
- A review of historical aerial photographs of the project area was conducted via on-line and other sources of aerial photographs. Photographs for the following years were available: 1944, 1951/1952, 1959, 1965, 1973, 1977, 1982, 1984, 1995, 2006, and 2010. The aerial photographs were provided via the following websites: University of Florida Map and Digital Imagery Library and Mapquest. They were also provided by FDOT, and some years were also purchased from the Hernando

County Property Appraiser. The photographs from the above-listed years provided an effective summary of the development within the project area. The aerial photos from 1965, 1982, and 1984 contained only selected portions of the project corridor.

- Visual reconnaissance on April 8, 2011, to identify sites or areas with indications of past or present contaminant storage, use, generation, or disposal. Potential sites were visually examined to the extent of available access for evidence of possible contaminant presence. A brief reconnaissance of the project corridor was also conducted on January 25, 2012, to confirm that no significant changes to the corridor had occurred since April 2011.
- Determining the contamination potential for each property within the project limits.

The final step in the evaluation process was to determine the site rating. The contamination rating system is divided into four degrees of risk: **No, Low, Medium,** and **High**. This system expresses the degree of concern for potential contamination problems. A site with a High ranking might not necessarily present a significant cause for concern if the regulatory agencies involved with that site are aware of the situation and if clean-up activities are complete or under way at such a site. Sites were ranked in accordance with Part 2, Chapter 22 of the *Project Development and Environment Manual* and are summarized as follows:

- **No** - After a review of all available information, there was nothing to indicate contamination would be a problem. It is possible that contaminants could have been handled on the property; however, all information indicates problems should not be expected.
- **Low** - The former or current operation has a hazardous waste generator identification (ID) number or deals with hazardous materials; however, based on all available information, there is no reason to believe there would be any involvement with contamination. This is the lowest possible rating a gasoline station operating within current regulations could receive. This could also be applied to a retail hardware store that blends paint.
- **Medium** - After a review of all available information, indications are found that identify known soil and/or water contamination and that the problem does not need remediation, is being remediated (i.e., air stripping of ground water, etc.), or that continued monitoring is required. The complete details of remediation requirements are important to determine what must be done if the property were to be acquired. A recommendation should be made on each property falling into this category to its acceptability for use within the proposed project, what actions might be required if the property is acquired, and the possible alternatives if there is a need to avoid the property.
- **High** - After a review of all available information, the potential for contamination problems exists. Further assessment would be required after alignment selection to determine the actual presence and/or levels of contamination and the need for remedial action. A recommendation must be included for what further assessment is required. This would also be the case where the analyst "strongly suspects contamination" at the site. Conducting the actual assessment is not expected to begin

until the alignment is defined; however, circumstances may require additional screening assessments (soil or groundwater sampled for laboratory analysis) to begin earlier. Properties that were previously used as gasoline stations and have not been evaluated or assessed would probably receive this rating.

Based on the review of aerial photos, there may have been a gas station at the Denny's restaurant location (just east of the I-75 intersection) during the 1970s. By 1984, the Denny's restaurant location did not have any features suggestive of a gas station. Since there was no other information confirming that the potential gas station had been present, it was not considered a potential contamination site. There were 17 sites evaluated within the immediate vicinity of the project limits.

4.4 PROJECT IMPACTS

This section describes the potential contamination issues associated with each of the 17 sites in the vicinity of the project. The sites are summarized in **Table 6** and each site location is indicated on the aerials in **Appendix C**.

Site 1:
Former Shaw's Service Station, Facility ID 27-8736442
30312 Cortez Boulevard

Station 993
This site was a gasoline station, which had four Underground Storage Tanks (USTs). It is now a facility known as "A&Y Tires (Used and New)". Review of aerial photographs indicates this site was not present in 1965, but it was present by 1973. The USTs were installed in April 1972 and were removed in June 2007. Soil investigations during the tank closure did not identify any impacted soil, and groundwater was at a depth of greater than 20 ft. No petroleum discharges have been reported for this site. Minor RCRA hazardous waste violations were noted for this site in 1986. The site rating is **Low**.

Site 2:
Sunrise Food Mart No. 12, Facility ID 27-8508794
30328 Cortez Boulevard

Station 995
This site is an active Chevron gasoline station, which had three prior USTs and has two current USTs. The prior USTs were installed in July 1982 and were removed in February 2007, at which time the new USTs were installed. Since the gas station facility was first noted on the 1973 aerial photo, there may have been undocumented USTs installed prior to 1982. Soil investigations during the closure of the previous (1982) USTs did not identify any impacted soil, and groundwater was at a depth of greater than 20 ft. A petroleum discharge was reported for this site on November 12, 1993. However, no cleanup was required, and no further assessment was required at this site. The site rating is **Low**.

Table 6: Potential Contamination Sites

Site No.	EDM Map ID #	Site Name and Address	Facility ID No(s).	Distance from SR 50 (Cortez Boulevard)	Contamination Concern	Preliminary Ranking
1	1	Former Shaw's Service Station, 30312 Cortez Boulevard	27-8736442 FLD 049760101	Adjacent - S	USTs removed in 2007; no discharges reported; RCRA violations in 1986	Low
2	2	Sunrise Food Mart No. 12 30328 Cortez Boulevard	27-8508794	Adjacent - S	Active UST site; former USTs removed in 2007; 11/12/1993 discharge did not require cleanup	Low
3	4	Former Texaco #203-132 30436 Cortez Boulevard	27-8508743	Adjacent - S	Leaking UST site; No Further Action approved in 2005 and 2009	Low
4	5	Sunshine Food Mart #188 30431 Cortez Boulevard	27-8508762 FLR 000016741	Adjacent - N	Active gas station; Leaking UST site; SRCO approved in Feb. 2009	Low
5	6	Former Exxon #5285 30435 Cortez Boulevard	27-8508731	Adjacent - N	Leaking UST site; currently in monitoring; No Further Action recommended/pending	Medium
6	7	RaceTrac #451 30480 Cortez Boulevard	27-9300174	Adjacent - S	Active UST site; no discharges reported; some violations of State UST requirements	Low
7	8	Former Quality #192 31001 Cortez Boulevard	27-8508795	Adjacent - N	Leaking UST site; No Further Action approved in 1995; USTs removed in 2009	Low
8	9	Winn Dixie #652 31100 Cortez Boulevard	FLR 000011601	Adjacent - S	SQG of hazardous waste; no RCRA violations	No
9	None	Withlacoochee State Trail/ Former Railroad Line, approx. 32000 Cortez Boulevard	None	Within ROW	Former railroad lines are frequently impacted by arsenic and PAHs	High
10	10	Hernando County Fire Station #22, 32460 Cortez Boulevard	27-9807856	Adjacent - N	Leaking AST site; No Further Action approved in 2008	Low
11	11	East Hernando Transfer Station, ½ Mi West of US 98/SR 50 Intersection	00040743	Adjacent - S	Solid waste transfer station; no on-site disposal of waste	Low
12	12	Ridge Manor Disposal Service Landfill, US 98 at SR 50	00040775	Adjacent - N	Closed solid waste landfill; groundwater monitoring not being performed	Medium
13	13	Quick Check 33191 Cortez Boulevard	27-9501826	Adjacent - N	Active UST facility; no discharges reported; minor violations of State UST requirements	Low
14	14	Former BP-Ridge Manor 34508 Cortez Boulevard	27-9100010	Adjacent - S	Leaking UST site; Monitoring Only Program from 1993-1994; No Further Action approved in 1994	Low
15	15	Former Circle K #7296 5235 Treiman Boulevard	27-8508842 FLD 984255141	Adjacent - N	Leaking UST site; USTs removed in 2001; No Further Action approved in 2002; groundwater flow to the south	Medium
16	16	Former Carl's Standard SR 50 at US 301	27-8508756	Adjacent - E	Leaking UST site; no cleanup required, but site received a score of 30 from FDEP	Medium
17	17	Circle K #2705937 35075 Cortez Boulevard	27-9802190	Adjacent - E	Discharges at site related to a spill and a leak; soil and groundwater assessment ongoing; soil removal planned in ditch/swale area	Low

AST – Above-ground Storage Tank; E – East; N – North; PAHs – Polynuclear Aromatic Hydrocarbons; RCRA – Resource Conservation and Recovery Act;
ROW – SR 50 (Cortez Boulevard) ROW; SQG – Small Quantity Generator of Hazardous Waste; SRCO = Site Rehabilitation Completion Order; UST – Underground Storage Tank; S- South

Site 3:
Former Texaco #203-132, Facility ID 27-8508743
30436 Cortez Boulevard

Station 1005+50
This site is an abandoned building, which was formerly a gas station. The facility was first noted on the 1965 aerial photo. It had 14 different USTs on-site over the time period beginning in 1965. All of the USTs had been removed by April 2001. Petroleum discharges were reported for this site on September 12, 1988, and on June 6, 2003. Investigations regarding the 1988 discharge were completed in 2005, and a Site Rehabilitation Completion Order (SRCO) was approved. Six monitoring wells were left on the site to monitor the impacts of the 2003 discharge. The most recent soil and groundwater sampling activities were conducted from February to December 2008. No petroleum-impacted soil was identified, and the localized groundwater did not appear to have been impacted by the June 6, 2003 incident. No Further Action was approved for this site in March 2009, and the remaining monitoring wells were subsequently abandoned. The site rating is **Low**.

Site 4:
Sunshine Food Mart #188, Facility ID 27-8508762
30431 Cortez Boulevard

Station 1005
This site is an active Sunoco gasoline station, which had three prior USTs and has one current UST. Review of aerial photographs indicates this site was not present in 1965, but it was present in 1973. The three previous USTs were installed in February 1973 and were closed-in-place in March 2006, at which time the current UST was installed. A petroleum discharge was reported for this site on February 15, 1995. Remediation of the site was conducted in 2002 and 2003. Post-active remedial monitoring was conducted at this site from May 2003 until November 2007. Depth to groundwater is approximately 35 ft at this site. The most recent groundwater sampling activities, conducted in November 2007, did not identify any elevated concentrations of petroleum constituents in the groundwater. The on-site monitoring wells were abandoned, and the remedial treatment system was de-commissioned in September and November 2008. An SRCO was approved for this site in February 2009. The site rating is **Low**.

Site 5:
Former Exxon #5285, Facility ID 27-8508731
30435 Cortez Boulevard

Station 1007
This site is a closed Arby's restaurant, but was formerly a gas station. Review of aerial photographs indicates this site was not occupied in 1965, but the former gas station building was present by 1973. The facility had five USTs, which were installed in July 1966 and were removed in February 1986. A petroleum discharge was reported for this site on November 19, 1990. A remediation system was operated at the facility from April 2007 until November 2008, and it was re-activated for two months in 2010. Periodic operation of the system, alternating with post-active remediation monitoring, has been conducted at this site since May 2009. Depth to groundwater is more than 30 ft at this site. The remediation system was

operated during 2011 due to a rebound (significant increase) of the petroleum contaminant concentrations in MW-14. The most recent groundwater sampling activities, conducted in October 2011, again did not identify any elevated concentrations of petroleum constituents in the groundwater (i.e., greater than FDEP criteria). The most recent report recommended continuation of the post-remediation monitoring. The site rating is **Medium**.

Site 6:
Race Trac #451, Facility ID 27-9300174
30480 Cortez Boulevard

Station 1009
This site is an active Race Trac gasoline station, which has three current USTs. Review of aerial photographs indicates this site was not present in 1984, but it was present in 1995. The USTs were installed in January 1993 and remain in service. No petroleum discharges have been reported for this site. Annual County UST inspection reports from 2010 and 2011 indicate that the site has had several violations of State UST regulations. It appeared that minor spills had occurred at the dispensers, system alarms had gone off (but were not reported to the regulatory agency), and release detection was not being performed properly. However, there was no indication that a release of petroleum had occurred, which would impact the site's soil or groundwater. The site rating is **Low**.

Site 7:
Former Quality #192, Facility ID 27-8508795
31001 Cortez Boulevard

Station 1012
This site is an auto repair and tire shop, but it was an active BP gas station until 2009. Review of aerial photographs indicates this site was not occupied in 1965, but it was occupied by a gas station building by 1973. The facility had four USTs, which were installed in December 1972 and December 1980, and were removed in October 1984 and December 2009. A petroleum discharge was reported for this site on September 18, 1987. A site assessment was conducted from February 1995 through March 1995. Sampling of soil borings and sampling of groundwater from four monitoring wells did not identify any petroleum impacts greater than FDEP criteria. Depth to groundwater is more than 39 ft at this site. No Further Action was recommended. The site was granted No Further Action status in August 1995. Site soils were assessed again in December 2009 as part of the UST closure activities. No petroleum-impacted soil was identified. The site rating is **Low**.

Site 8:
Winn Dixie #652, Facility ID FLR 000011601
31100 Cortez Boulevard

Station 1024
This Winn Dixie grocery store is a registered Small Quantity Generator of hazardous waste. The grocery store building was present on the 1995 aerial photo, but the building was not present on the 1984 aerial photo. No RCRA violations have been reported for this facility. The facility generates very small volumes of photographic waste (containing silver) and waste fluorescent bulbs (containing mercury). There was no indication in the EDM Report

of any spills or releases of hazardous wastes that could impact the soil or groundwater in the SR 50 (Cortez Boulevard) project area. The site rating is **No**.

Site 9:
Withlacoochee State Trail/Former Railroad Line, no Facility ID
approximately 32000 Cortez Boulevard

Station 1063
This is a state-owned recreation trail that passes over SR 50 (Cortez Boulevard) on a bridge. It occupies a former railroad line ROW. The railroad line (and later the trail) was present on all aerial photographs since 1944, inclusive. Soils in current railroad lines and former railroads are known to be frequently impacted by elevated concentrations of arsenic and Polynuclear Aromatic Hydrocarbons (PAHs). The site rating is **High**.

Site 10:
Hernando County Fire Station #22, Facility ID 27-9807856
32406 Cortez Boulevard

Station 1103
This site is an active County fire/rescue facility. This site was not occupied in 1984, but the fire station building was present in the 1995 aerial photo. The facility has one 500-gallon Above-ground Storage Tank (AST) for fuel. No installation date was provided. A petroleum discharge was reported for this site on October 20, 2005 due to diesel fuel spillage observed near the AST. Site assessment activities were conducted from March 2006 through April 2008. Petroleum-impacted soil was identified near the AST, and an interim source removal was completed in November 2006. Subsequently, No Further Action was recommended. The site was granted SRCO status in May 2008. The single on-site monitoring well was abandoned in July 2008. The site rating is **Low**.

Site 11:
East Hernando Transfer Station, Facility ID 00040743
½ Mi west of US 98/SR 50 (Cortez Boulevard) Intersection.

Station 1134
This site is a county-operated solid waste transfer facility. The transfer station facility was present on the 1995 aerial photo, but it was not present on the 1984 aerial photo. The facility handles household solid waste, yard waste, and recyclable materials. Certain items of recyclable materials, such as lead-acid batteries, fluorescent lamps, used motor oil, and scrap metals, contain hazardous constituents. The recyclable materials are segregated and transferred to other facilities for disposal. All of the wastes/materials at this site are stored above ground, and none are disposed of at this site. No significant spills have been reported for this facility. The site rating is **Low**.

Site 12:
Ridge Manor Disposal Service Landfill, Facility ID 00040775
US 98 at SR 50

Station 1150
This site is a closed Class II solid waste landfill. Review of aerial photos suggests that the disposal activities at the landfill occurred mainly in the 1970s. The majority of landfilling activities appeared to have ceased by the late 1980s. As of 1995, it appeared that all landfilling activities had ceased, and the site was covered with vegetation. The facility is indicated as having "no groundwater monitoring". The site was confirmed as a Solid Waste Disposal facility in the FDEP's Solid Waste Facility Locator database. However, no information regarding this site was available in the FDEP Oculus database, and it appears that there is no on-going monitoring or assessment of this facility. Due to the general lack of information about this site and the potential for groundwater impacts that are commonly associated with such landfills, the site rating is **Medium**.

Site 13:
Quick Check, Facility ID 27-9501826
33191 Cortez Boulevard

Station 1157
This site is an active Shell gasoline station, which has three current USTs. The gas station facility appeared to be under construction as viewed on the 1995 aerial photo. The USTs were installed in February 1995 and remain in service. No petroleum discharges have been reported for this site. The most recent annual County UST inspection for this site, conducted in April 2011, found the facility to be "In Compliance" with UST regulations. During the period from 2004 through 2008, the site had numerous, mostly minor, violations of UST requirements. The most significant of these violations included failure to repair certain system components, failure to maintain release detection systems, and product found in the dispenser piping sumps. However, there was no indication that a release of petroleum had occurred, which would impact the site's soil or groundwater. The site rating is **Low**.

Site 14:
Former BP-Ridge Manor, Facility ID 27-9100010
34508 Cortez Boulevard

Station 1237
This site is a former gas station, located along the south side of Cortez Boulevard at US 301 (SR 35/Treiman Boulevard). The building is now used as a real estate office. The gas station building appeared to be present on the 1965 aerial photo. The facility had eight USTs, which were installed in the 1960s and were removed in October 1990. A petroleum discharge was reported for this site on October 23, 1990. Excessively contaminated soil was identified during removal of the 8 USTs. Two-hundred tons of petroleum-impacted soil were removed off-site for disposal. Contamination assessment activities were initiated in November 1991 and completed in December 1992. Depth to water was approximately 9 ft at this site, and groundwater flow was to the south and southwest. A Monitoring Only Plan was approved for the site in January 1993, and quarterly monitoring was conducted from February 1993 through November 1993. A Site Rehabilitation Completion Report (SRCR) was approved for

this site in January 1994, and the FDEP determined that No Further Action was necessary. It should be noted that the No Further Action criteria in 1994 were less stringent than current standards. The site rating is **Low**.

Site 15:
Former Circle K #7296, Facility ID 27-8508842
5235 Treiman Boulevard (US 301)

Station 1237+50
This site is a closed business that sold "Cook Sheds", but it was formerly a gasoline station, located along the north side of Cortez Boulevard at US 301 (SR 35/Treiman Boulevard). A building was present on this site in 1965, but it did not appear to be the former Circle K gas station building. The gas station building was present on the 1984 aerial photo, but it was not present on the 1977 aerial photo. The facility had two USTs, which were installed in October 1977 and were removed in May 2001. A petroleum discharge was reported for this site on September 17, 1988 due to the discovery of groundwater impacts. Contamination assessment activities were conducted in 1994 and 1995, which included sampling of 8 monitoring wells and 7 soil borings. No impacted soil was identified, but a small area of impacted groundwater was identified near the USTs. Depth to groundwater was 8 to 14 ft, and the groundwater flow direction was toward the south. Additional site assessment activities were completed from 1995 to 2001, including additional soil borings and groundwater sampling. No impacted soil was identified, and petroleum-impacted groundwater had not been detected at the site after 1996. No Further Action was requested for this site, and a SRCO was approved by FDEP in January 2002. The site rating is **Medium,** since the groundwater flow direction is toward the SR 50 (Cortez Boulevard) project.

Site 16:
Former Carl's Standard, Facility ID 27-8508756
SR 50 (Cortez Boulevard) and US 301 (SR 35/Treiman Boulevard)

Station 1240
This site is a vacant, grass-covered lot, which was formerly a gasoline station at the southeast corner of the intersection of SR 50 (Cortez Boulevard) and US 301 (SR 35/Treiman Boulevard). The gas station building at the site was present in the 1965 aerial photo. A former gas station building (surrounded by trailer-type vehicles) was present at this site in the 1995 aerial photo. However, the site was a cleared, dirt-covered, vacant lot by 2006. The four USTs were installed in 1968 or 1969 and were removed in November 1990. Soil investigations during the closure of the USTs did not identify any impacted soil, and the groundwater was not tested because the depth to groundwater was assumed to be greater than 20 ft. A petroleum discharge was reported for this site on October 23, 1990. No cleanup was required as of April 2001, and no further assessment was required at this site. However, the site received a facility cleanup score of 30 from FDEP in March 2001, which implied that the site's groundwater had been impacted and that further cleanup or assessment may be needed. The site rating is **Medium,** due to the uncertain FDEP cleanup status of the site.

Site 17:
Circle K #2705937, Facility ID 27-9802190
35075 Cortez Boulevard

Station 1242
This site is an active Circle K/Shell gasoline station, which currently has four USTs, located on the northeast corner of SR 50 (Cortez Boulevard) at US 301 (SR 35/Treiman Boulevard). This gas station facility was not present on the 1995 aerial photo, but it appeared in its current configuration on the 2006 aerial photo. The USTs were installed in October 1999 and remain in service. Petroleum discharges were reported for this site on May 14, 2003 and March 2, 2004. The 2003 discharge involved a release of 140 gallons of fuel into the storm drain system and into the retention pond/swale. Petroleum-impacted soil was found at the stormwater system outfall, but no groundwater impacts were identified. The 2004 discharge was related to leaks from the spill containment buckets, which had to be replaced in March 2004. Soil samples from the bucket areas had elevated petroleum concentrations, and groundwater impacts were also identified. Depth to groundwater was between 5 and 15 ft below surface. Groundwater flow was variable. During a site assessment in 2007, groundwater samples were collected, and no elevated groundwater petroleum concentrations were identified. Natural Attenuation Monitoring was continued through 2010. FDEP assigned this site a facility cleanup score of 64 in February 2009. Additional soil and groundwater assessment activities occurred between March and August 2010. Elevated concentrations of PAHs were detected in the shallow soils of the site, near the stormwater system outfall into the retention area/swale. No elevated groundwater petroleum concentrations were detected. The FDEP requested the removal of petroleum-impacted soil in the retention area resulting from the 2003 discharge. In February 2011, approximately 192 tons of petroleum-impacted soil were removed from the site and were replaced with clean fill. No Further Action was requested for this site after completion of the soil removal. The FDEP approved a SRCO for both petroleum discharges on June 30, 2011. On August 5, 2011 the 8 remaining on-site monitoring wells were abandoned. The site rating is **Low**.

Appendix D provides photographs of the potential contamination sites. Documentation of contaminant information was available for all of the sites that had FDEP identification numbers.

4.5 CONCLUSIONS AND RECOMMENDATIONS

A total of 17 potential contamination sites were identified along the project corridor, with risk evaluation ratings ranging from No to High Risk. A summary of the risk assessments for the project is presented in **Table 7**.

Table 7: Summary of Potential Contamination Sites Risk Assessments

Risk Assessment Category	Number of Sites
No	1
Low	11
Medium	4
High	1

If construction activities are to occur in an area with contamination concerns, then a site assessment would be performed to the degree necessary during final design to determine levels of contamination and evaluate clean-up options and associated costs. Excavation and/or dewatering for installation of underground structures or utilities in the vicinity of the contaminated sites could potentially encounter or exacerbate contamination. Investigations should not be limited to the areas of roadway expansion but should also include the drainage areas located adjacent to the roadway.

Specific recommendations for the sites ranked Medium or High are as follows:

- Site 5 (Former Exxon #5285) is a former Leaking UST site that continues to exhibit petroleum-related impacts to the groundwater. However, the depth to groundwater is more than 30 ft at this site, so impacts to project construction activities are not likely. A determination would be made as to whether project improvements could impact the monitoring wells and treatment system at this site. FDEP files in Oculus would continue to be reviewed periodically to determine the status of this site.
- Site 9 (the Withlacoochee State Trail) is located on a former railroad line. Excavation activities at this site could potentially encounter soils impacted by arsenic and PAHs. Soil testing for arsenic and PAHs would be conducted in all proposed areas of excavation associated with project improvements at this site.
- Site 12 (Ridge Manor Disposal Service Landfill) is a former landfill, which has very little information about it. The depth to groundwater and the potential impacts to groundwater from the landfill are not known. If project construction activities are expected to occur in the immediate vicinity of the former landfill, soil and groundwater testing would be performed to determine the potential for impacts to the project.
- Site 15 (Former Circle K #7296) and Site 16 (Former Carl's Standard) are former Leaking UST sites that have the potential to impact the project, but they also may be benign or may have been successfully cleaned up. Depth to groundwater can be less than 10 ft in this area. FDEP files in Oculus would be reviewed to determine the status of these sites. If excavation or roadway construction activities are anticipated immediately adjacent to these sites, soil and groundwater investigations would be conducted to rule out any remaining contamination impacts from these sites.

FDOT would coordinate the resolution of problems regarding contamination with the appropriate regulatory agency (FDEP), and actions would be taken by the FDOT or FDEP, where applicable.

Procedures specifying the contractor's responsibilities in regards to encountering petroleum-contaminated soil and/or groundwater are set forth in *FDOT's Standard Specifications for Road and Bridge Construction*[10]. Special provisions to the aforementioned standard specifications may be necessary if the presence of contamination is confirmed, which could impact construction.

FDOT has evaluated the proposed ROW and has identified potentially contaminated sites for the various proposed alternatives. Results of this evaluation would be utilized in the selection of a preferred alternative. When a specific alternative is selected for implementation, a site assessment would be performed to the degree necessary to determine levels of contamination and, if necessary, evaluate the options to remediate along with the associated costs. Resolution of problems associated with contamination would be coordinated with appropriate regulatory agencies and appropriate action would be taken, where applicable.

5.0 LOCATION HYDRAULICS

5.1 INTRODUCTION

The purpose of this section is to provide a location hydraulic study for this project, in accordance with 23 CFR 650 Subpart A, Section 650.111. The National Flood Insurance Program (NFIP) maps were utilized to determine highway location encroachments. This section evaluates risks associated with the implementation of the project, impacts on natural and beneficial floodplain values, the support of incompatible floodplain development, and measures to minimize floodplain impacts. Local, state, and federal water resources and floodplain management agencies were consulted to determine if the proposed project is consistent with existing floodplain management programs.

5.2 ENCROACHMENTS ON 100-YEAR FLOODPLAIN

The Federal Emergency Management Agency (FEMA) completed the Flood Insurance Study (FIS) for Hernando County in 1981. There was a revision made to the FIS in January 2010 and February 2012.

Portions of the study area for the proposed SR 50 (Cortez Boulevard) widening are located within the floodplain limits shown on the FEMA Flood Insurance Rate Map (FIRM) Community Panels 12053C0219D, 12053C0238D, 12053C0239D, and 12053C0243D. Portions of SR 50 (Cortez Boulevard) from Kettering Road to US 301 (SR 35/Treiman Boulevard) lie within Zone AE. Zone AE lies within the 100-yr floodplain, the base elevations have been determined and are shown at selected intervals within the zone on the attached Firmettes in **Appendix E**.

The recent FIRM also delineates floodplains within the existing SR 50 (Cortez Boulevard) ditches, and linear water management systems and SMFs. It is assumed that these stormwater management systems accommodate and treat the ultimate six-lane typical section. These water management systems would be evaluated in the design phase.

The floodplain is primarily from the Withlacoochee River and wetland system associated with it. The existing SR 50 (Cortez Boulevard) alignment is a transverse encroachment to freshwater floodplains. All of the floodplain encroachments would be minimal due to the proposed roadway alignment following the same alignment as the existing roadway. Floodplain compensation for any freshwater encroachments may be required by SWFWMD. Based upon the widening of the roadway footprint into the floodplain, it was estimated that roughly 9.0 acres of floodplain compensation could be required. This estimate will increase if ponds are placed within the 100 year floodplain. There are no floodways within the project limits.

There are approximately nine cross drains and one bridge located within the study limits. The existing cross drains have been identified for the length of the project as shown in **Appendix F**. A cross drain analysis was determined not to be commensurate with the purpose of the study. A cross drain analysis will be performed as part of a full PD&E Study;

however, it is anticipated that most of the cross drains would need to be extended and potentially upsized.

5.3 DRAINAGE PATTERNS

The existing drainage patterns were determined using the USGS quadrangle maps, SWFWMD contour aerials, and FDOT drainage maps for SR 50 (Cortez Boulevard).

From Lockhart Road to Kettering Road, the stormwater runoff from the travel lanes and outside shoulder sheet flows into roadside ditches. The inside shoulder drains to median inlets that discharge to the roadside ditches. The runoff is treated in the ditches using ditch blocks and infiltrates into the ground.

From Kettering Road to US 98 (SR 700/McKethan Road), the stormwater runoff from the travel lanes and the outside shoulder sheet flows into roadside ditches. The inside shoulder drains to median inlets that discharge to the roadside ditches. The roadside ditches then outfall to existing SMFs along SR 50 (Cortez Boulevard). All of the project runoff in this area ultimately drains into the adjacent Withlacoochee River and Withlacoochee River wetland system, which is classified as an OFW by FDEP.

From US 98 (SR 700/McKethan Road) to the end of the project, the stormwater runoff from the travel lanes and the outside shoulder either sheet flows directly into wetland areas or into roadside ditches that then discharge into adjacent wetland areas via cross drains. These wetland areas drain into Lake Geneva and ultimately to the Withlacoochee River.

5.4 DRAINAGE RELATED PROBLEMS

The FDOT District VII Maintenance Yard, located in Brooksville, was contacted concerning any existing flooding problems along SR 50 (Cortez Boulevard) from Lockhart Road to US 301 (SR 35/Treiman Boulevard). According to the FDOT's records there are no known flooding issues within the project limits.

5.5 RECOMMENDED ALTERNATIVES

All of the viable improvement alternatives under consideration by the PD&E Study featured a six-lane roadway to US 98 (SR 700/McKethan Road) and a four-lane roadway from US 98 (SR 700/McKethan Road) to US 301 (SR 35/Treiman Boulevard) on the existing alignment. All cross drain structures would require extensions to meet clear zone requirements. Extending these structures is recommended based on their current condition. However, it is recognized that a few culverts may need to be replaced with hydraulically equivalent structures when they are analyzed in more detail in the design phase.

The proposed project is consistent with the local Comprehensive Plan. The proposed project will not encourage floodplain development due to local FEMA floodplain and SWFWMD regulations. The project drainage design will be consistent with local FEMA, FDOT, and SWFWMD design guides. Therefore, no significant change in the base flood elevation or limits will occur. The proposed roadway would follow the same general alignment as

the existing roadway. Therefore, no natural or beneficial floodplain values would be significantly affected. Based upon the widening of the roadway footprint into the floodplain, it was estimated that roughly 9.0 acres of floodplain compensation could be required. This estimate will increase if ponds are placed within the 100-year floodplain.

5.6 PROJECT STATEMENT

Based on the information collected during this study, the proposed improvements can be categorized as STATEMENT 4: PROJECTS ON EXISTING ALIGNMENT INVOLVING REPLACEMENT OF EXISTING DRAINAGE STRUCTURES WITH NO RECORD OF DRAINAGE PROBLEMS, as defined in Chap. 24 of the FDOT *Project Development and Environment Manual*, Part 2, Figure 24.1.

> The proposed structures will perform hydraulically in a manner equal to or greater than the existing structures, and backwater surface elevations are not expected to increase. As a result, there will be no significant adverse impacts on natural and beneficial floodplain values. There will be no significant change in flood risk, and there will not be a significant change in the potential for interruption or termination of emergency service or emergency management evacuation routes. Therefore, it has been determined that this encroachment in not significant.

6.0 REFERENCES

1. *Type 2 Categorical Exclusion*; Atkins; Tampa, Florida; January 2014.

2. *Final Noise Study Report*; Atkins; Tampa, Florida, January 2014.

3. *Historic Structures Survey Update*; Archaeological Consultants, Inc.; Sarasota, Florida, February 2012.

4. *Final Preliminary Alternative Stormwater Management Report*; Atkins; Tampa, Florida, January 2014.

5. *Final Traffic Report*; Atkins; Tampa, Florida, January 2014.

6. *Final Preliminary Engineering Report*; Atkins; Tampa, Florida, January 2014.

7. *Project Development and Environment Manual*; Florida Department of Transportation; Tallahassee, Florida; 2013.

8. *Corps of Engineers Wetlands Delineation Manual*; United States Army Corps of Engineers; 1987.

9. *Soils of Florida Handbook*; Hurst 2007.

10. *Standard Specifications for Road and Bridge Construction*; Florida Department of Transportation; Tallahassee, Florida; 2014

APPENDIX A

SOIL TYPES PRESENT ALONG PROJECT CORRIDOR

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NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
NRCS Soil -- Natural Resource Conservation Service Soil Classification (SSURGO)
Aerials -- Bing Maps (2012)

Map 1

10, Basinger fine sand depressional
14, Candler fine sand 0 to 5 percent slopes
15, Candler fine sand 5 to 8 percent slopes
2, Anclote fine sand
27, Hydraquents
35, Myakka fine sand
41, Pits
43, Pomello fine sand 0 to 5 percent slopes
47, Sparr fine sand 0 to 5 percent slopes
49, Tavares fine sand 0 to 5 percent slopes
6, Arredondo fine sand 0 to 5 percent slopes
8, Astatula fine sand 0 to 8 percent slopes
99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

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ATKINS

1 inch = 200 feet

0 200 Feet

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REMINGTON RD

LOCKHART RD

CORTEZ BLVD

50 700 98

15 14 15 15 14 15

NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

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Aerials -- Bing Maps (2012)

Map 2

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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

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15
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LA ROSE RD
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700
98
CORTEZ BLVD
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14
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NATURE COAST BLVD
HERNANDO CO I - 75
I75 SB ON RP @ SR50

NRCS Soil Map
FDOT District 7

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Map 3

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Map 4

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Existing ROW
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NRCS Soil Line

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CORTEZ BLVD
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CROOM RITA/NOBLETON
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KETTERING RD
49
WITHLACOOCHEE STATE TRAIL

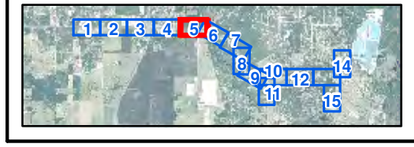
NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
NRCS Soil -- Natural Resource Conservation Service Soil Classification (SSURGO)
Aerials -- Bing Maps (2012)

Map 5



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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

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NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

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Hernando County, Florida

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Map 6

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99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

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Hernando County, Florida

Data:
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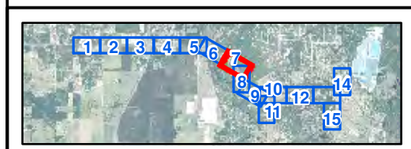
Aerials -- Bing Maps (2012)

Map 7



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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

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NRCS Soil Map
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Map 8

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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

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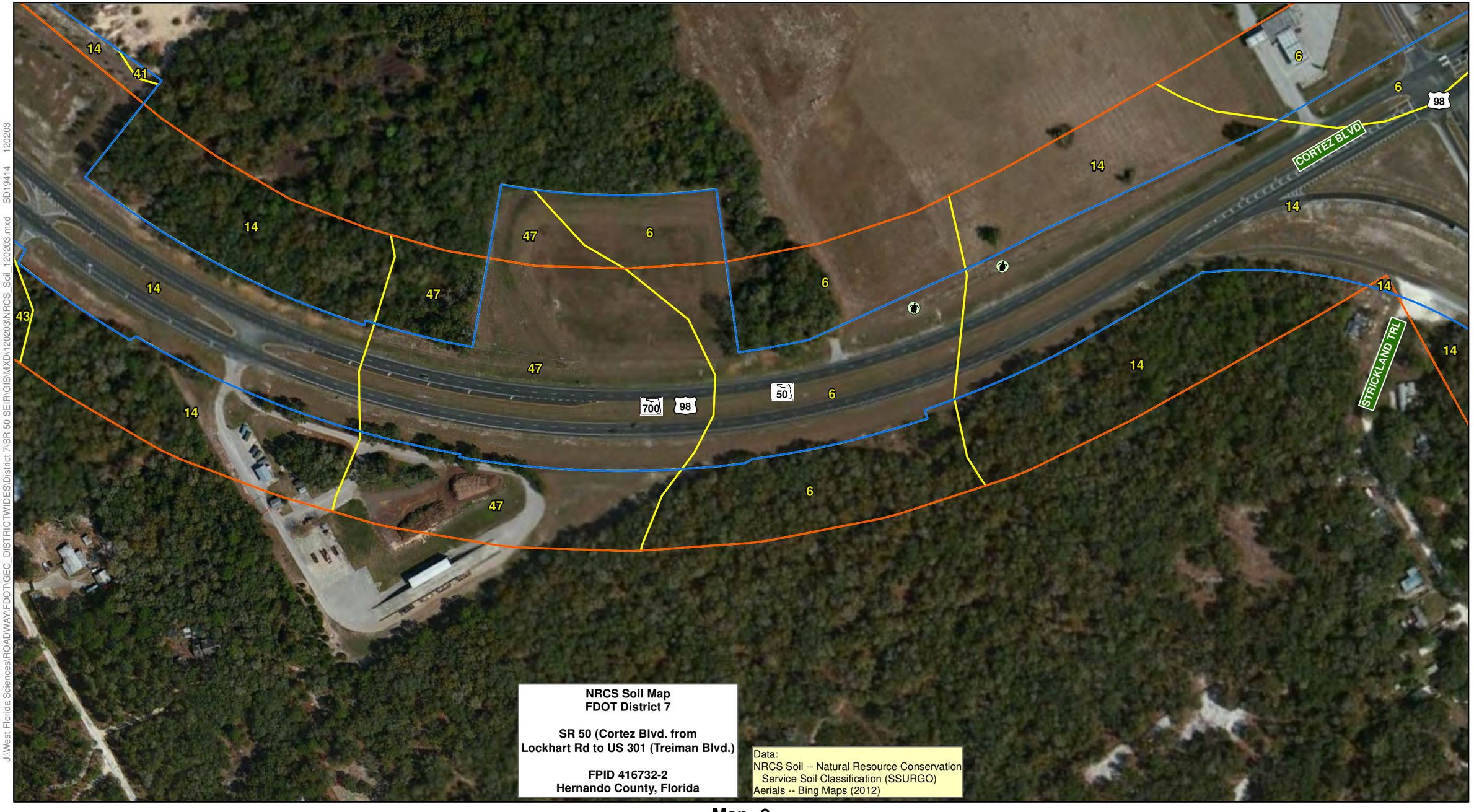

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Map 9

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Project Study Area w/in 300ft Buffer
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OLANCHA RD

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NRCS Soil Map
FDOT District 7

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Map 10

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Project Study Area w/in 300ft Buffer
NRCS Soil Line

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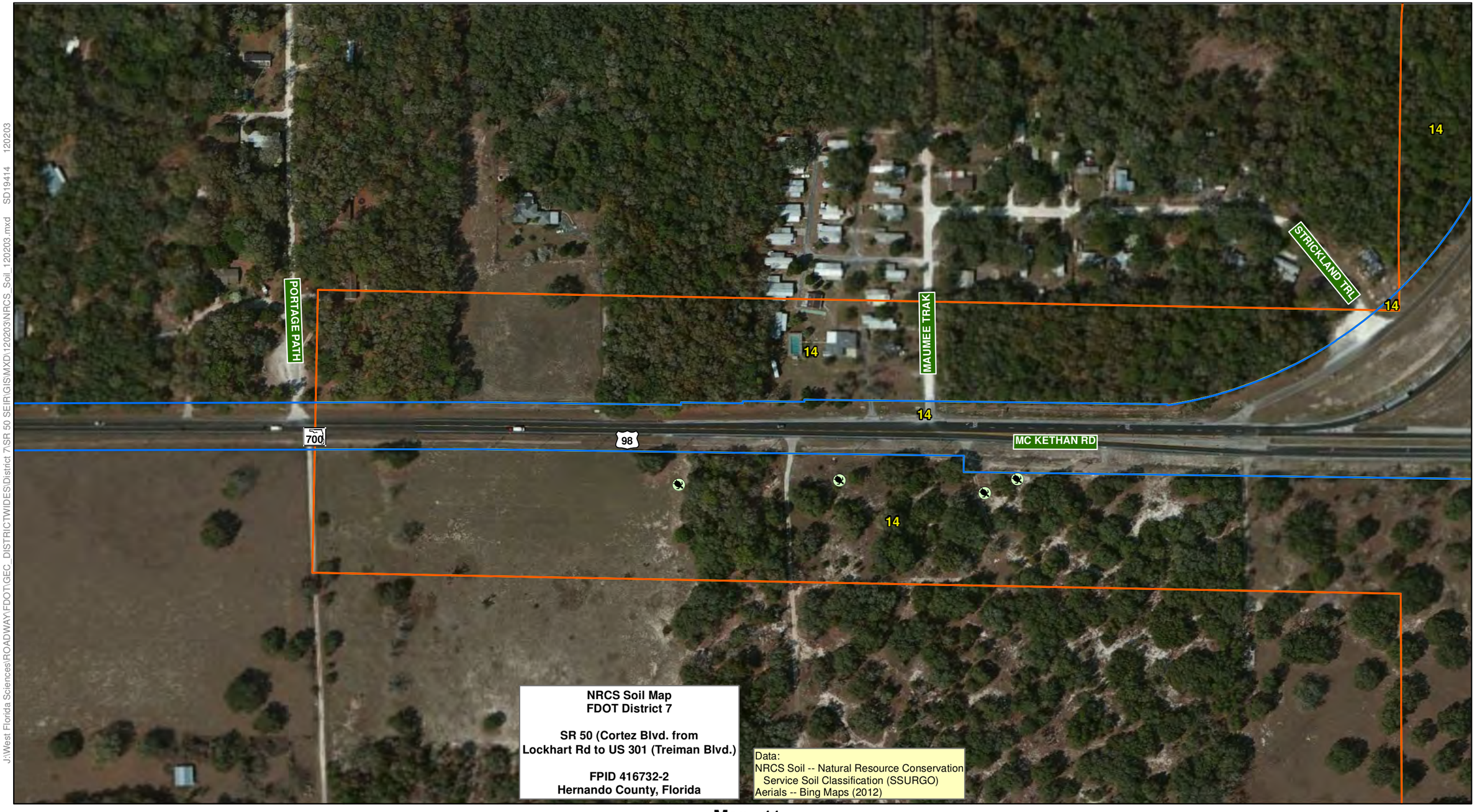

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FDOT District 7

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Data:
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Map 11

10, Basinger fine sand depressional
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41, Pits
43, Pomello fine sand 0 to 5 percent slopes
47, Sparr fine sand 0 to 5 percent slopes
49, Tavares fine sand 0 to 5 percent slopes
6, Arredondo fine sand 0 to 5 percent slopes
8, Astatula fine sand 0 to 8 percent slopes
99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

W S N E

ATKINS

1 inch = 200 feet
0 200 Feet

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120203\NRCS_Soil_120203.mxd SD19414 120203

MADISON AVE

WESTWOOD DR

CORTEZ BLVD

50

47

14

41

47

14

47

14

49

99

49

Lake Geneva

NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
NRCS Soil -- Natural Resource Conservation Service Soil Classification (SSURGO)
Aerials -- Bing Maps (2012)

Map 12

10, Basinger fine sand depressional
14, Candler fine sand 0 to 5 percent slopes
15, Candler fine sand 5 to 8 percent slopes
2, Anclote fine sand
27, Hydraquents
35, Myakka fine sand
41, Pits
43, Pomello fine sand 0 to 5 percent slopes
47, Sparr fine sand 0 to 5 percent slopes
49, Tavares fine sand 0 to 5 percent slopes
6, Arredondo fine sand 0 to 5 percent slopes
8, Astatula fine sand 0 to 8 percent slopes
99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

N
W
E
S

ATKINS

1 inch = 200 feet

0 200 Feet

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120203\NRCS_Soil_120203.mxd SD19414 120203

NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
NRCS Soil -- Natural Resource Conservation Service Soil Classification (SSURGO)
Aerials -- Bing Maps (2012)

Map 13

10, Basinger fine sand depressional
14, Candler fine sand 0 to 5 percent slopes
15, Candler fine sand 5 to 8 percent slopes
2, Anclote fine sand
27, Hydraquents
35, Myakka fine sand
41, Pits
43, Pomello fine sand 0 to 5 percent slopes
47, Sparr fine sand 0 to 5 percent slopes
49, Tavares fine sand 0 to 5 percent slopes
6, Arredondo fine sand 0 to 5 percent slopes
8, Astatula fine sand 0 to 8 percent slopes
99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

N
W
E
S

ATKINS

1 inch = 200 feet

0 200 Feet

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120203\NRCS_Soil_120203.mxd SD19414 120203

NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
NRCS Soil -- Natural Resource Conservation Service Soil Classification (SSURGO)
Aerials -- Bing Maps (2012)

Map 14

10, Basinger fine sand depressional
14, Candler fine sand 0 to 5 percent slopes
15, Candler fine sand 5 to 8 percent slopes
2, Anclote fine sand
27, Hydraquents
35, Myakka fine sand
41, Pits
43, Pomello fine sand 0 to 5 percent slopes
47, Sparr fine sand 0 to 5 percent slopes
49, Tavares fine sand 0 to 5 percent slopes
6, Arredondo fine sand 0 to 5 percent slopes
8, Astatula fine sand 0 to 8 percent slopes
99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

ATKINS

1 inch = 200 feet

0 200 Feet

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120203\NRCS_Soil_120203.mxd SD19414 120203

NRCS Soil Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
NRCS Soil -- Natural Resource Conservation Service Soil Classification (SSURGO)
Aerials -- Bing Maps (2012)

Map 15

10, Basinger fine sand depressional
14, Candler fine sand 0 to 5 percent slopes
15, Candler fine sand 5 to 8 percent slopes
2, Anclote fine sand
27, Hydraquents
35, Myakka fine sand
41, Pits
43, Pomello fine sand 0 to 5 percent slopes
47, Sparr fine sand 0 to 5 percent slopes
49, Tavares fine sand 0 to 5 percent slopes
6, Arredondo fine sand 0 to 5 percent slopes
8, Astatula fine sand 0 to 8 percent slopes
99, Water

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
NRCS Soil Line

W S N E

ATKINS

1 inch = 200 feet

0 200 Feet

APPENDIX B

EDM REPORT

ENVIRONMENTAL DATA REPORT

Standard 1/8 Mile Research

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

Prepared For:

Post, Buckley, Schuh & Jernigan-Tpa
4030 West Boy Scout Blvd Suite 700
Tampa, FL 33607

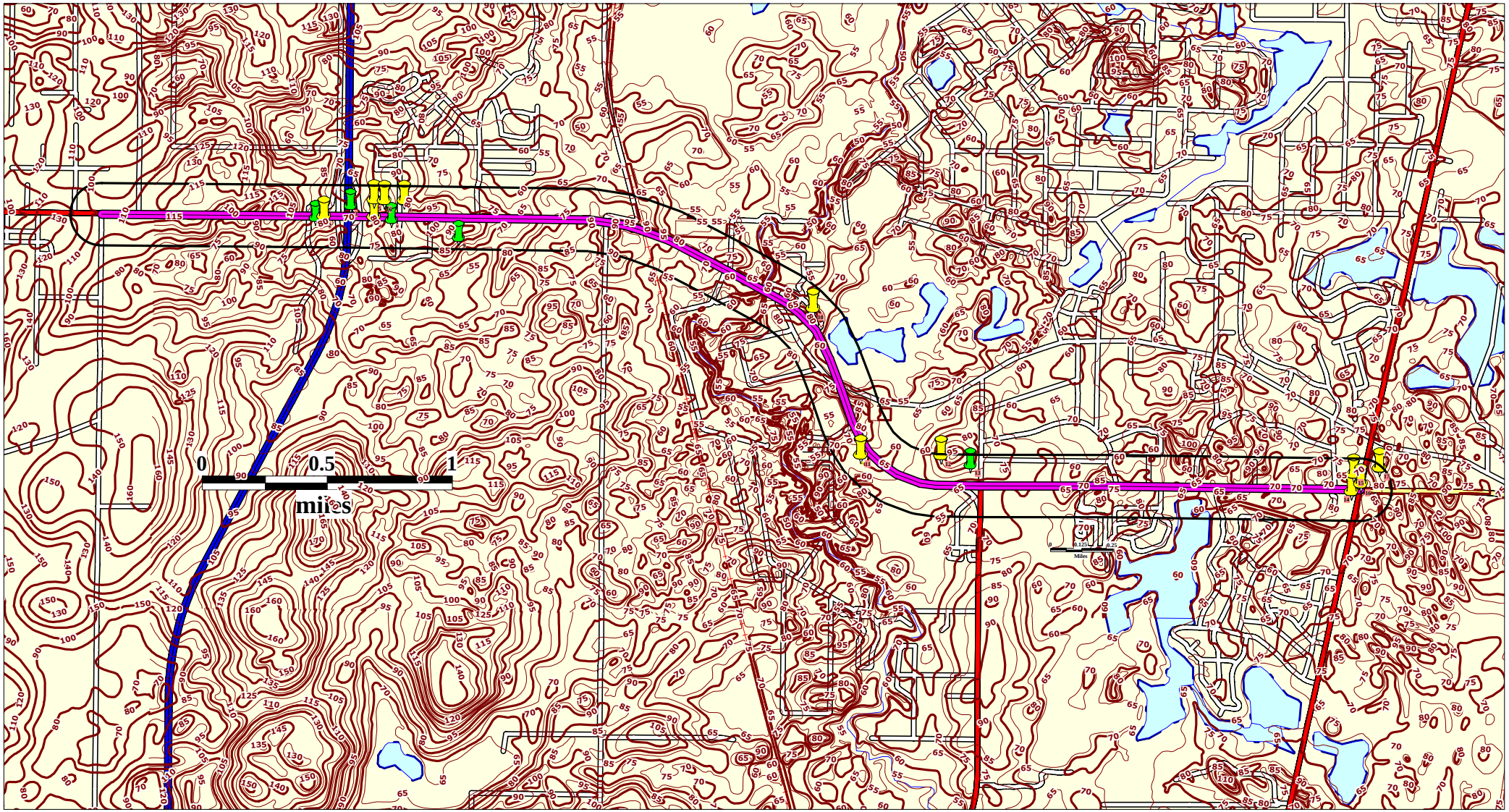
Prepared By:

ENVIRONMENTAL DATA MANAGEMENT, INC.
2840 West Bay Drive, Suite 208
Largo, Florida 33770

March 21, 2011

EDM

Standard 1/8 mile Research
Brownfields & Contaminated Sites Map



Source: Natl Aerial Imagery Program (NAIP)

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

Subject Corridor

NPL, STNPL, CORRACTS & TSD sites

CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

EDM

Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Largo, Florida 33770
Tel. (727) 586-1700 Fax (727) 585-1701
http://www.edm-net.com

March 21, 2011

Brad Bayne
Post, Buckley, Schuh & Jernigan-Tpa
4030 West Boy Scout Blvd
Tampa, FL 33607

Subject: **Standard 1/8 Mile Research - EDM Project #20866**

Dear Mr. Bayne

Thank you for using Environmental Data Management, Inc. The following report provides the results of our environmental data research that you requested for the following location:

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

The following is a summary of the components contained within this report:

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria (*a non-mapped option is available).*
- **Site Summary Table** –displays corresponding sites' Map ID numbers, Permit or Registration numbers, Name/Address and the Government Database(s) on which the site was listed.
- **Detail Reports** – data detail for each record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Agency List Descriptions –** defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.
- **Physical Setting** – includes USGS Contour or Topographic map and a map of statewide American Indian Lands. Recent Aerial Photo, FEMA Flood Map and NWI Wetland Map included with Comprehensive Report. Water Well locations and detail well reports are included where this information is available.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. We accomplish this by manually screening and researching your study area to identify and accurately locate any sites of environmental concern. This manual effort may add more time and effort to your report preparation, but we think a more thorough and accurate result is worth it.

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Report Date: 3/21/2011

Executive Summary

Client Information	Project Information
Post, Buckley, Schuh & Jernigan-Tpa 4030 West Boy Scout Blvd Suite 700 Tampa FL 33607 Client Job No: 010107000 - 07.99.X Client P.O. No:	Standard 1/8 Mile Research SR 50 SEIR Study Lockhart Road to US Hwy 301 Hernando, Florida EDM Job No# 20866

The following table displays the databases that were included in the research provided, the respective search distance for each database and the number of records identified for each database. The distance values indicated are measured from the centroid of the Subject Property. The absence of records in this table and the Site Summary Table indicates that no sites were found within the specified search distances.

	# Found
EPA DATABASES	
National Priorities List(NPL)	0
Comprehensive Env Response, Compensation & Liability Information System List(CERCLIS)	0
Archived Cerclis Sites(NFRAP)	0
Emergency Response Notification System List(ERNS)	2
RCRIS Handlers with Corrective Action(CORRACTS)	0
RCRA-Treatment, Storage and/or Disposal Sites(TSD)	0
RCRA-LQG,SQG,CESQG and Transporters(NONTSD)	5
Tribal Tanks List(TRIBLTANKS)	0
Tribal Lust List(TRIBLLUST)	0
Brownfields Management System(USBRWNFLDS)	0
US Institutional and/or Engineering Controls(USINSTENG)	0
FDEP DATABASES	
State NPL Equivalent(STNPL)	0
State CERCLIS Equivalent(STCERC)	0
Solid Waste Facilities List(SLDWST)	2
Leaking Underground Storage Tanks List(LUST)	11
Underground/Aboveground Storage Tanks(TANKS)	14
State Designated Brownfields(BRWNFLDS)	0
State Voluntary Cleanup List(VOLCLNUP)	0
State Institutional and/or Engineering Controls(INSTENG)	0
State Dry Cleaners List(DRY)	0

***** Disclaimer *****

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Additionally, limitations exist in mapping data detail and accuracy. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used in conjunction with other relevant information to direct your attention at potential problem areas; which should be followed up by site inspections, interviews with relevant personnel and regulatory file review. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. The EDM Service Request Form contains more detailed language with regard to such limitations, the terms of which the reader must accept in their entirety before utilizing this report. If the signed contract is not available to the reader, EDM will gladly furnish a copy upon request. Requests via email authorization are construed to be in accordance with these terms.

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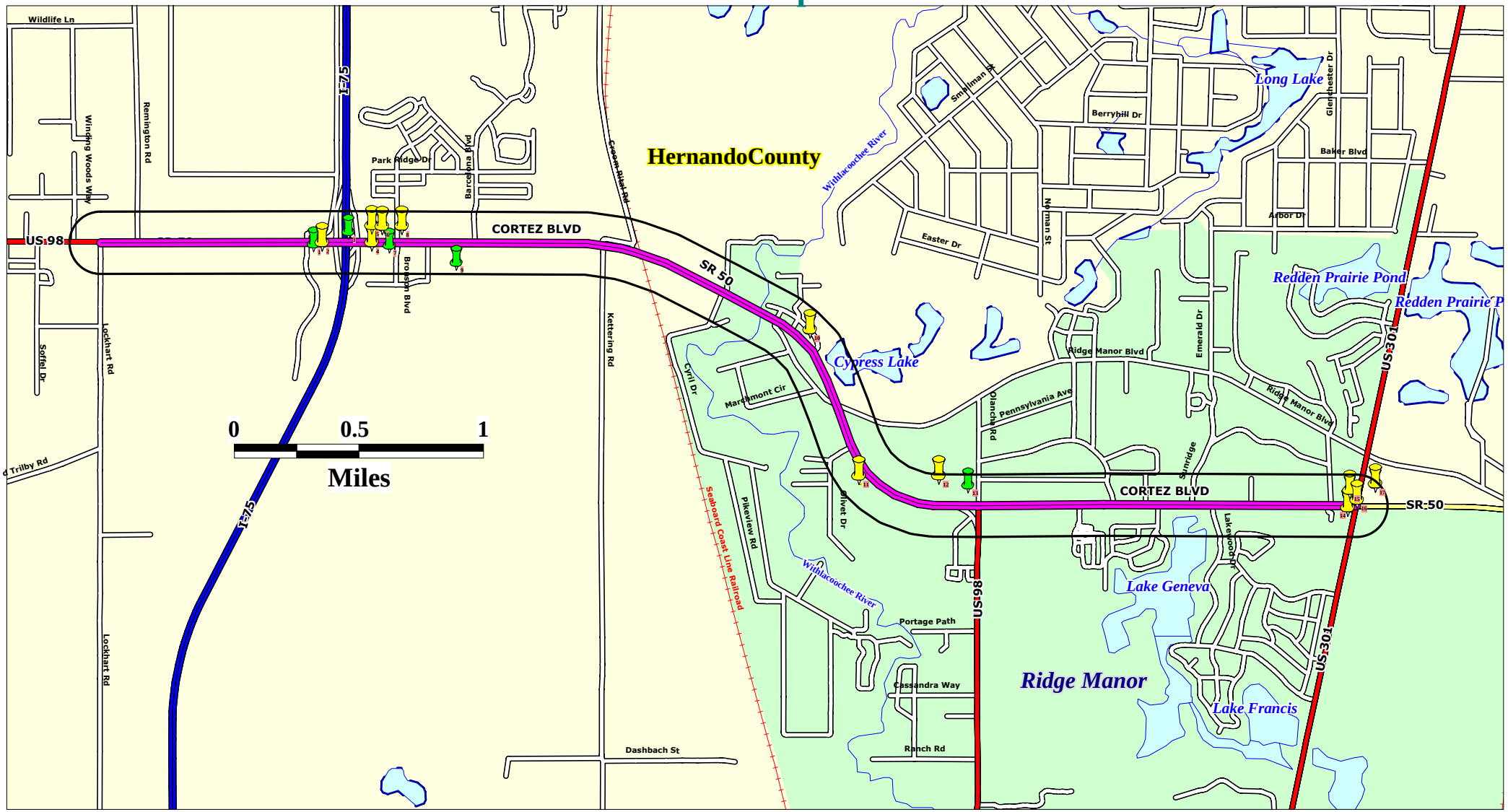
Standard 1/8 mile Research Street Map



Source: US Census Bureau TIGER Files

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

Subject Corridor

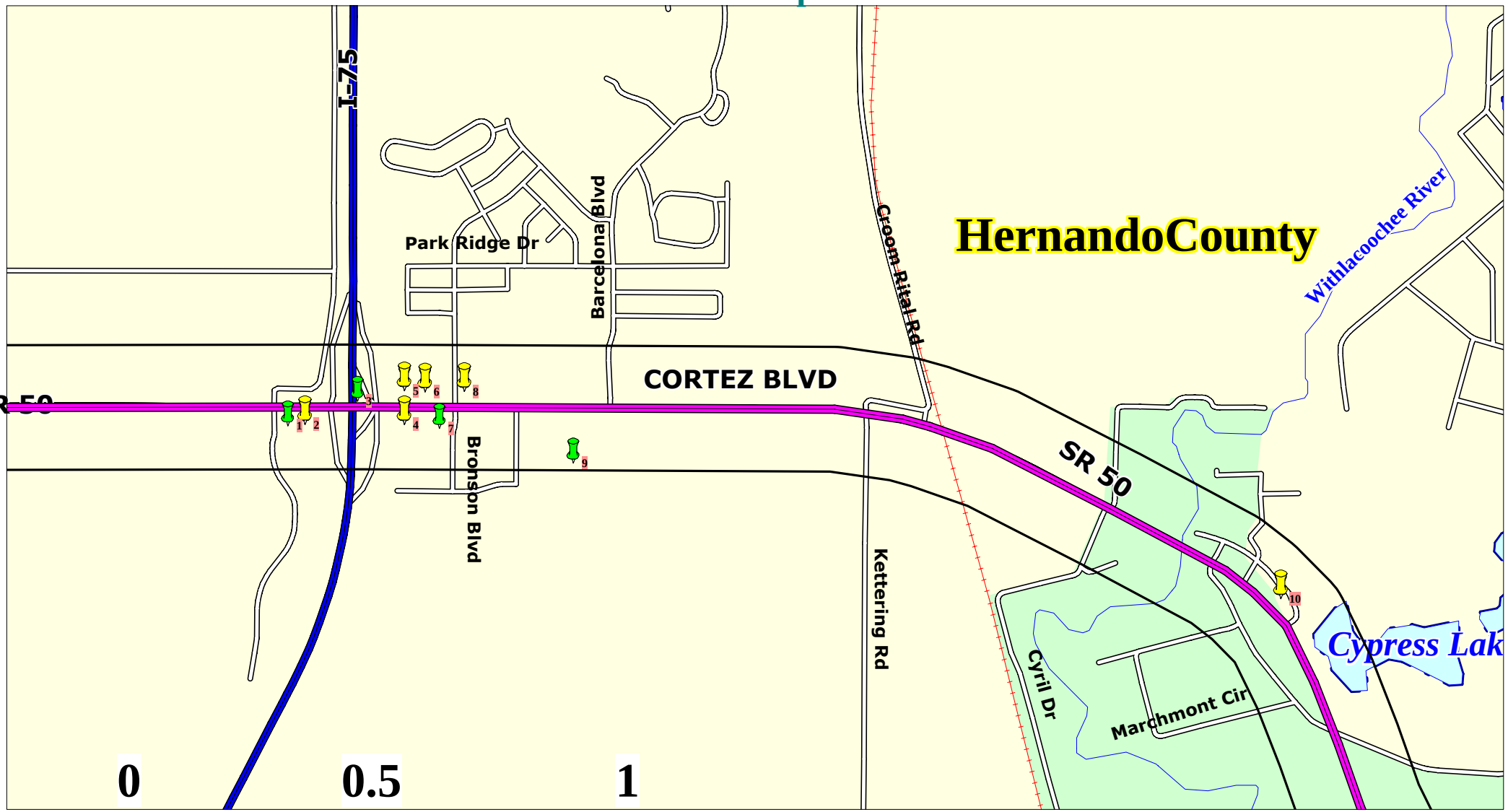
NPL, STNPL, CORRACTS & TSD sites

CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

EDM

Standard 1/8 mile Research Street Map



Source: US Census Bureau TIGER Files

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

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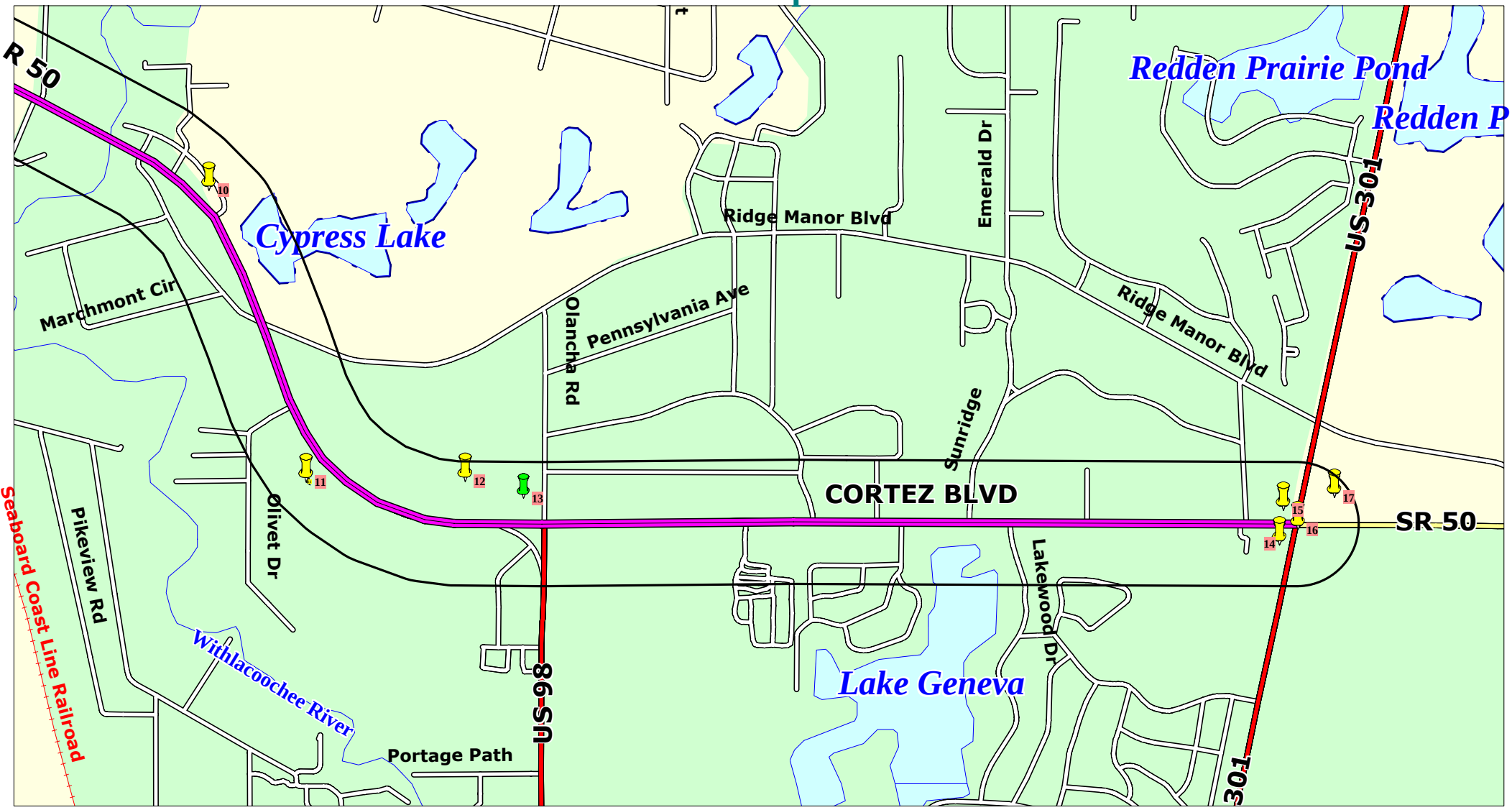
ERNS, NONTSD, TANKS & INSTENG sites

EDM

Standard 1/8 mile Research Street Map



Source: US Census Bureau TIGER Files

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

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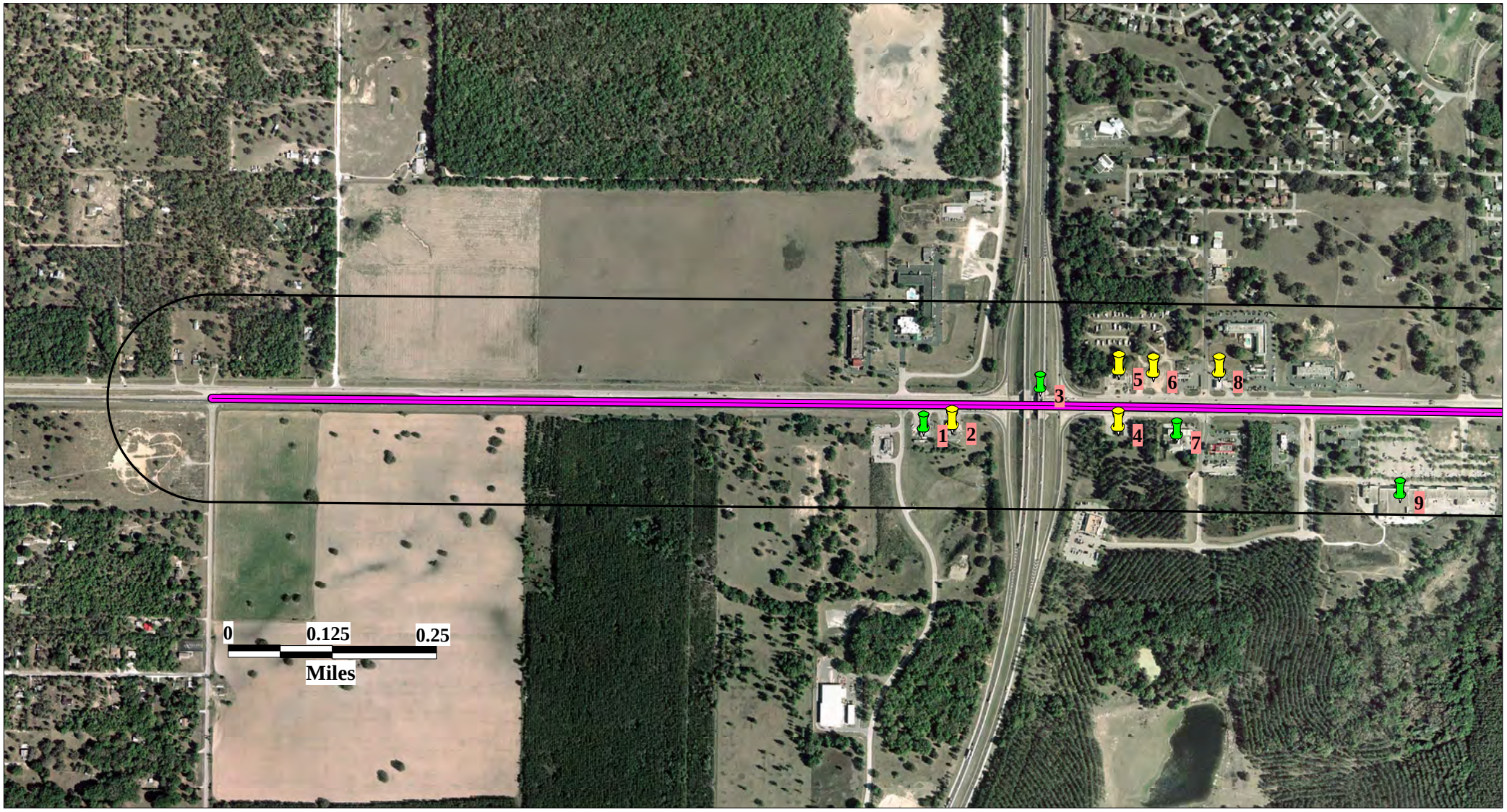
CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

EDM

Standard 1/8 mile Research
2006 Aerial Photograph



Source: Natl Aerial Imagery Program (NAIP)

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

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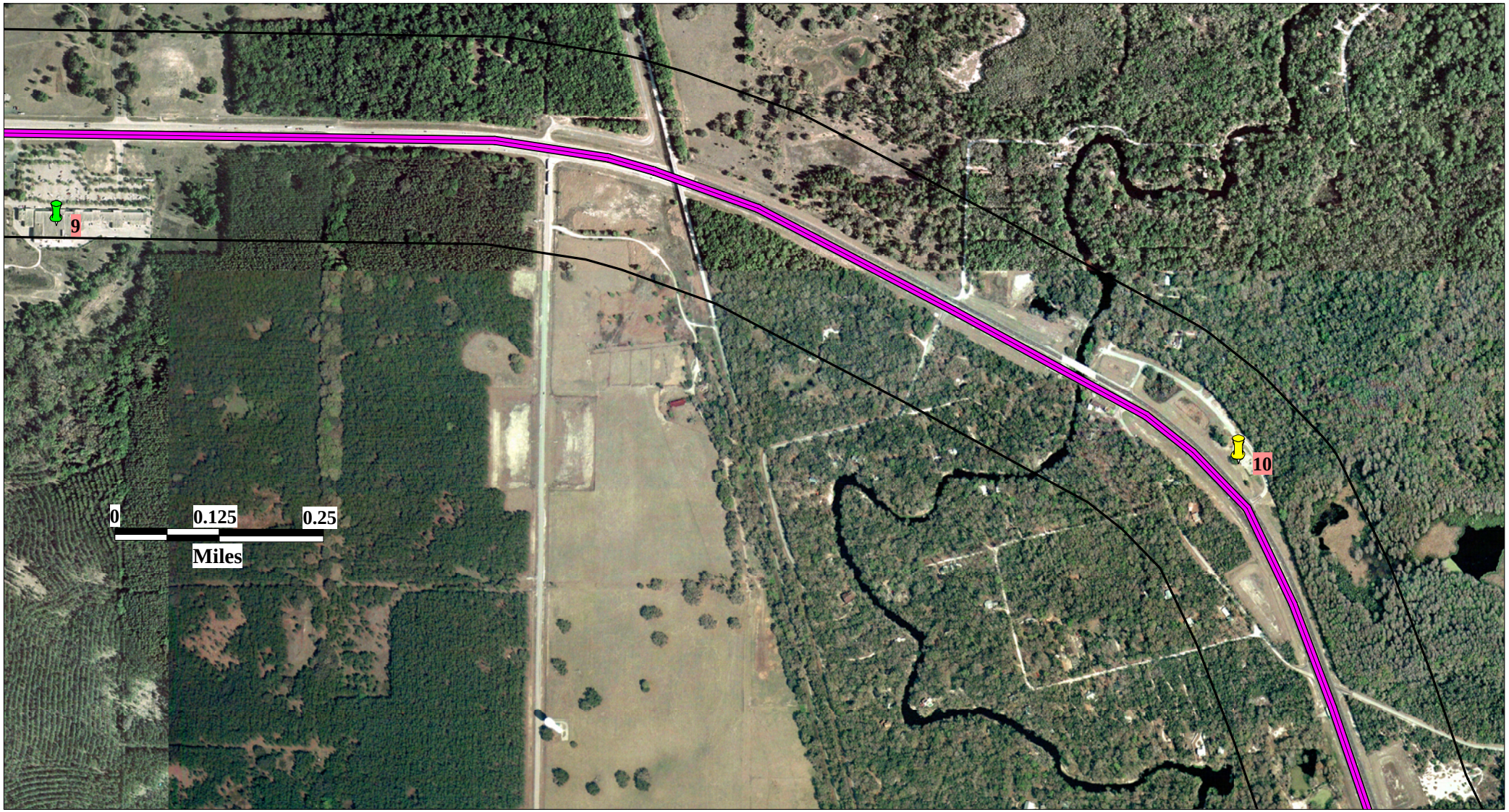
NPL, STNPL, CORRACTS & TSD sites

CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

EDM

Standard 1/8 mile Research
2006 Aerial Photograph



Source: Natl Aerial Imagery Program (NAIP)

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

Subject Corridor

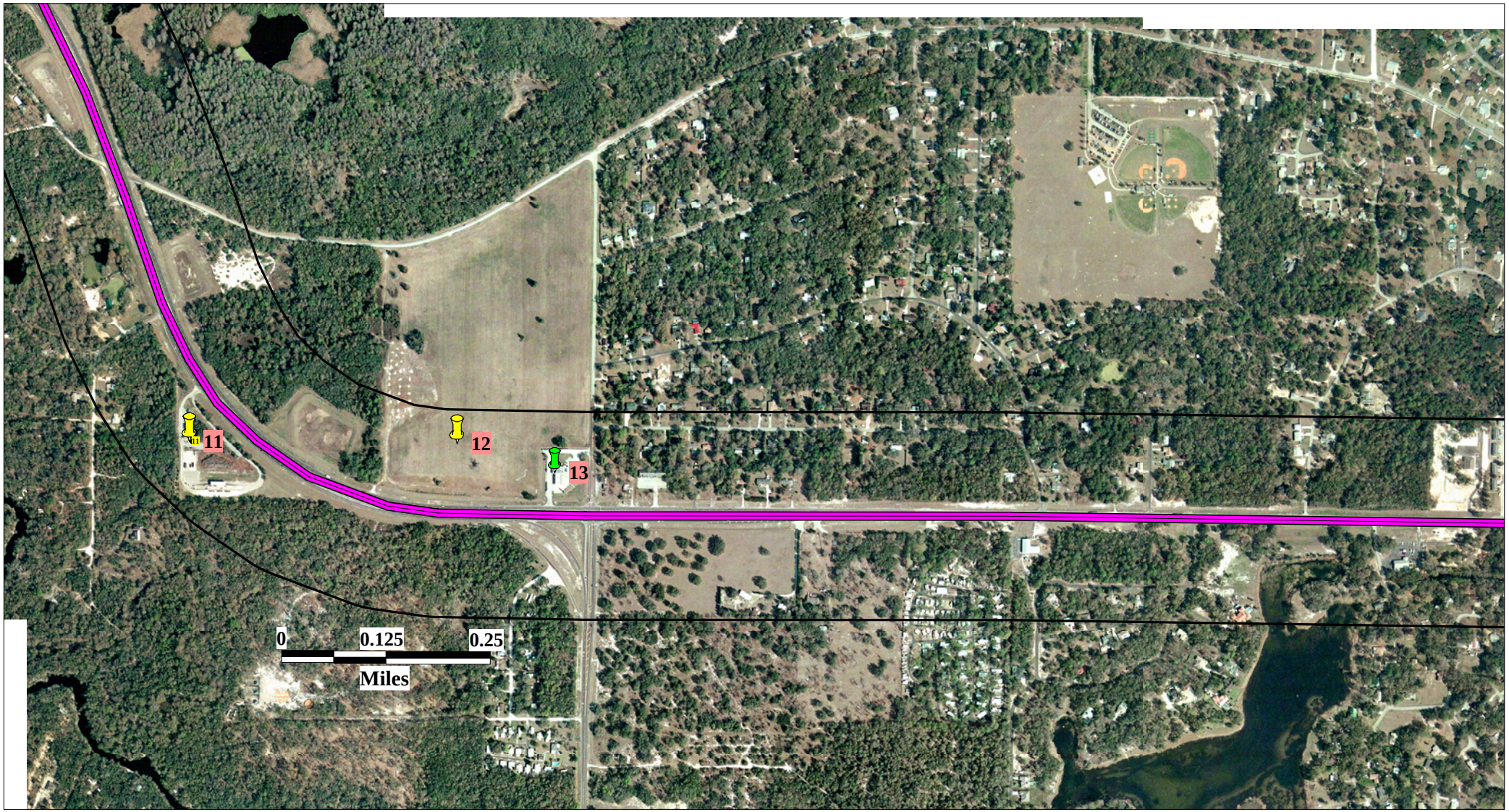
NPL, STNPL, CORRACTS & TSD sites

CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

EDM

Standard 1/8 mile Research
2006 Aerial Photograph



Source: Natl Aerial Imagery Program (NAIP)

Map Scale and Site Locations are Approximate

Subject Property

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Hernando, Florida

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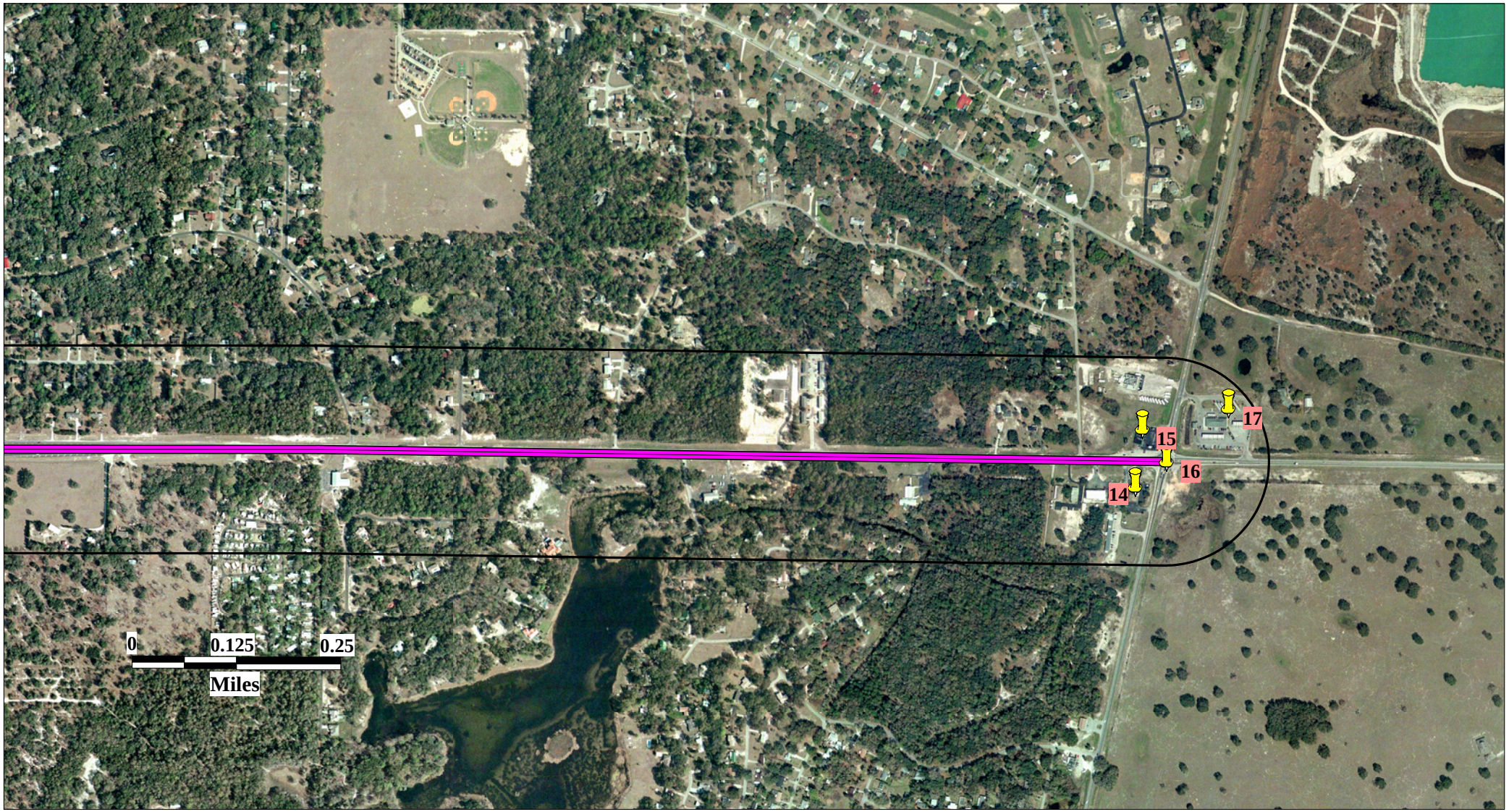
EDM

Standard 1/8 mile Research
2006 Aerial Photograph



Source: Natl Aerial Imagery Program (NAIP)

Map Scale and Site Locations are Approximate

Subject Property

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Lockhart Road to US Hwy 301
Hernando, Florida

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ERNS, NONTSD, TANKS & INSTENG sites

ENVIRONMENTAL DATA MANAGEMENT
Standard 1/8 Mile Research

Report Date: 3/21/2011

SUMMARY TABLE

MAPID#	FAC ID, NAME AND LOCATION	REGULATORY LISTS																			
		NPL	CERCLIS	NFRAP	ERNS	CORRACTS	TSD	NONTSD	TRIBLTANKS	TRIBLLUST	USBRWNFLDS	USINSTENG	STNPL	STCERC	SLDWST	LUST	TANKS	BRWNFLDS	VOLCLNUP	INSTENG	DRY
1)	8736442 SHAWS SERVICE 30312 CORTEZ BLVD BROOKSVILLE, FL. 34602																X				
1)	FLD049760101 SHAWS SUNOCO SERVICE STATION STATE ROAD 50 AND I-75 BROOKSVILLE, FL. 33512							X													
2)	8508794 SUNRISE FOOD MART #12 30328 CORTEZ BLVD BROOKSVILLE, FL. 34602															X	X				
2)	8508794. MOBIL CROOM I-75 & SR 50 BROOKSVILLE, FL. 33512															X	X				
3)	7167 Unknown I 75 OVERPASS ON STATE ROAD 50 BROOKSVILLE, FL.				X																
3)	8696 Unknown HIGHWAY I-75 40 TO 50 MILES NORTH OF TAMPA FL.INTERSECTION ST RD 50 &CN BROOKSVILLE, FL.				X																
4)	8508743 TEXACO #203-132 30436 CORTEZ BLVD BROOKSVILLE, FL. 346027503															X	X				
5)	8508762 BROOKSVILLE FOOD MART 30431 CORTEZ BLVD BROOKSVILLE, FL. 346027504															X	X				
5)	FLR000016741 SUNOCO STATION #573 30431 CORTEZ BLVD BROOKSVILLE, FL. 346027504							X													
6)	8508731 EXXON #5285 30435 CORTEZ BLVD BROOKSVILLE, FL. 34602															X	X				
6)	FLD984241851 EXXON CO USA #49107 I-75 & SR 50 BROOKSVILLE, FL. 33512							X													
7)	9300174 RACETRAC #451 30480 CORTEZ BLVD BROOKSVILLE, FL. 34602																X				
8)	8508795 QUALITY #192 31001 CORTEZ BLVD BROOKSVILLE, FL. 34602															X	X				
9)	FLR000011601 WINN DIXIE #652 31100 CORTEZ BLVD BROOKSVILLE, FL. 346027548							X													
10)	9807856 HERNANDO CNTY FIRE STATION 22 32406 CORTEZ BLVD RIDGE MANOR, FL.															X	X				
11)	00040743 EAST HERNANDO TRANSFER STATION .5MI W JCT US-98S & SR-50E (03 -23S -21E) BROOKSVILLE_, FL. 34614														X						

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ENVIRONMENTAL DATA MANAGEMENT
Standard 1/8 Mile Research

SUMMARY TABLE

MAPID#	FAC ID, NAME AND LOCATION	REGULATORY LISTS																			
		NPL	CERCLIS	NFRAP	ERNS	CORRACTS	TSD	NONTSD	TRIBLLTANKS	TRIBLLUST	USBRWNFLDS	USINSTENG	STNPL	STCERC	SLDWST	LUST	TANKS	BRWNFLDS	VOLCLNUP	INSTENG	DRY
12)	00040775 RIDGE MANOR DISPOSAL SERVICE LF US98 & SR50 (03 -23S -21E) RIDGE MANOR_, FL. 33525														X						
13)	9501826 QUICK CHECK 33191 CORTEZ BLVD RIDGE MANOR, FL. 33525																X				
14)	9100010 BP-RIDGE MANOR 34508 CORTEZ BLVD SR 50 & US 301 RIDGE MANOR, FL. 335258965															X	X				
15)	8508842 CIRCLE K #7296 5235 TREMAIN RD RIDGE MANOR, FL. 33525															X	X				
15)	FLD984255141 CIRCLE K #7296 5235 TREIMAN BLVD RIDGE MANOR, FL. 335238825							X													
16)	8508756 STANDARD-CARLS US 301 & HWY 50 RIDGE MANOR, FL. 33525															X	X				
17)	9802190 CIRCLE K #2705937 35075 CORTEZ BLVD RIDGE MANOR, FL. 35545															X	X				

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USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS)
(NONTSD)

FACILITY ID NUMBER, NAME AND LOCATION:

FLD049760101
SHAWS SUNOCO SERVICE STATION
STATE ROAD 50 AND I-75
BROOKSVILLE, FL 33512

CONTACT INFORMATION:

30312 CORTEZ BLVD
BROOKSVILLE FL 346027501
Contact: LAWERENCE SHAW
Contact Telephone: 9047969791
Contact Email:

MAP ID NUMBER: 1
Dist (Miles): 2.16
Direction: W

NONTSD

RCRIS INFORMATION

NOTIFICATION DATE: 1/27/1987 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDERGROUND INJECTI
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

VIOLATION INFO

Eval Date: 12/22/1986 **Eval Agcy:** STATE **Eval Type Descr:** NON-FINANCIAL RECORD REVIEW
Viol Date: 12/22/1986 **Viol Agcy:** **Enf Type Descr:** DEP WARNING LETTER
Enf Date: 12/22/1986 **Enf Agcy:** STATE **Lead Agcy:**

Viol Type: 262.A Generators - General **Citation:** **Compl Date:** 01/21/1987

Eval Date: 03/03/1986 **Eval Agcy:** STATE **Eval Type Descr:** NON-FINANCIAL RECORD REVIEW
Viol Date: 03/03/1986 **Viol Agcy:** **Enf Type Descr:**
Enf Date: **Enf Agcy:** **Lead Agcy:**

Viol Type: 262.A Generators - General **Citation:** **Compl Date:** 03/13/1986

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8736442
SHAWS SERVICE
30312 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

SHAW, LAWRENCE
30312 CORTEZ BLVD
BROOKSVILLE, FL 34602
CONTACT TEL #: (904) 796-9791
CONTACT:
FACILTY TEL #: (352) 796-9791

MAP ID NUMBER: 1
Dist (Miles): 2.16
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	4000	01-Apr-1972	Unleaded Gas	UNDERGROUND	REMOVED 13-Mar-2009

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** CJK **LEAK MONIT TYPE:** OS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	6000	01-Apr-1972	Unleaded Gas	UNDERGROUND	REMOVED 13-Mar-2009

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** CJK **LEAK MONIT TYPE:** OS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	6000	01-Apr-1972	Unleaded Gas	UNDERGROUND	REMOVED 13-Mar-2009

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** CJK **LEAK MONIT TYPE:** OS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	6000	01-Apr-1972	Unleaded Gas	UNDERGROUND	REMOVED 13-Mar-2009

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** CJK **LEAK MONIT TYPE:** OS

See "Agency List Descriptions" Ssection for Code Definitions

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508794
SUNRISE FOOD MART #12
30328 CORTEZ BLVD
BROOKSVILLE, FL 34602-

COUNTY CODE: 27
FACILITY STATUS: OPEN
FACILITY TYPE: A - Retail Station

OWNERSHIP INFORMATION:

ACCOUNT OWNER
AMERISTAR INVESTMENTS INC
402 HIGHPOINT DR
COCOA, FL 32926-
(407)690-0807
RAJ SHAH

FAC OPERATOR: RAJ SHAH-COMP. SERV.
FAC TEL #: (321)690-0807

MAP ID NUMBER:
Dist (Miles): 2.13
Direction: W

2

LUST

SCORE | **SCORE EFF DT:** | **RANK:** | **SCORE WHEN RANKED:** | **HIGHEST CURR SCORE:** | **SCORE EFF DT:**

DISCHARGE INFORMATION

Mapid: 2

DISCHARGE DATE: 11/12/1993

INSPECTION DATE: | **LEAD AGENCY:** | **TANK OFF:** -
CLEANUP REQUIRED: N - NO CLEANUP REQUIRED | **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: D - DISCHARGE NOTIFICATION
DISCH CLNUP STATUS: 5/29/2001 NREQ - CLEANUP NOT REQUIRED
CONTAMINATED MEDIA?: | **SOIL:** | **SUR WATER:** | **GR WATER:** | **MON WELL:** | **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
-		

CLEANUP INFORMATION

CLNUP ELLIG STAT: -
SRC ACTION: - | **SRC SUBMIT DT:** | **SRC REVW DT:**
SRC COMPL STAT: - | **SRC STAT EFF DT:** | **SRC ISS DT:**

Mapid: 2

CLNUP PROG:
APPL RCVD: | **ELIG STATUS:** | **ELIG STATUS DATE:** | **ELIG REDETERMINED?:**

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: -
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508794. **--HISTORICAL ENTRY--**
MOBIL CROOM
I-75 & SR 50
BROOKSVILLE, FL 33512

COUNTY CODE: 27
FACILITY STATUS: OPEN
FACILITY TYPE: RETAIL STATION

OWNERSHIP INFORMATION:

ACCOUNT OWNER
TILLACK, JACK A
30328 CORTEZ BLVD
BROOKSVILLE, FL 34602
(904) 799-0288
JACK TILLACK

FAC OPERATOR: TILLACK J A
FAC TEL #: (904) 799-0288

MAP ID NUMBER:
Dist (Miles): 2.13
Direction: W

2

LUST

SCORE | **SCORE EFF DT:** | **RANK:** | **SCORE WHEN RANKED:** | **HIGHEST CURR SCORE:** | **SCORE EFF DT:**

DISCHARGE INFORMATION

Mapid: 2

DISCHARGE DATE: 11/12/1993

INSPECTION DATE: | **LEAD AGENCY:** BUREAU OF WASTE CLEANUP | **TANK OFF:**
CLEANUP REQUIRED: NO CLEANUP REQUIRED | **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: DISCHARGE NOTIFICATION
DISCH CLNUP STATUS: 11/12/1993 CLEANUP NOT REQUIRED BY CHAPTER 17-770 RULES
CONTAMINATED MEDIA?: | **SOIL:** N | **SUR WATER:** N | **GR WATER:** N | **MON WELL:** Y | **# DW WELLS CONTAMINATED:** 1

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
UNLEADED GAS		

CLEANUP INFORMATION

CLNUP ELLIG STAT:
SRC ACTION: | **SRC SUBMIT DT:** | **SRC REVW DT:**
SRC COMPL STAT: | **SRC STAT EFF DT:** | **SRC ISS DT:**

Mapid: 2

CLNUP PROG:
APPL RCVD: | **ELIG STATUS:** | **ELIG STATUS DATE:** | **ELIG REDETERMINED?:**

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT
CLNP RESP:
FUND ELLIG:
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN
CLEANUP RESP:
FUND ELLIG:
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION
CLEANUP RESP:
FUND ELLIG:
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT
ACTION TYPE:
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS:
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL
CLEANUP RESP:
FUND ELLIG:
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508794
SUNRISE FOOD MART #12
30328 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

AMERISTAR INVESTMENTS INC
402 HIGHPOINT DR
COCOA, FL 32926
CONTACT TEL #: (407) 690-0807
CONTACT: RAJ SHAH
FACILTY TEL #: (321) 690-0807

MAP ID NUMBER: 2
Dist (Miles): 2.13
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	10000	01-Jul-1982	Unleaded Gas	UNDERGROUND	REMOVED 01-Feb-2007

** CONSTR TYPE: AEMO PIPING TYPE: LEAK MONIT TYPE: 4GL

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	10000	01-Jul-1982	Vehicular Diesel	UNDERGROUND	REMOVED 01-Feb-2007

** CONSTR TYPE: AEMO PIPING TYPE: LEAK MONIT TYPE: 4GL

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	10000	01-Jul-1982	Unleaded Gas	UNDERGROUND	REMOVED 01-Feb-2007

** CONSTR TYPE: AEMO PIPING TYPE: LEAK MONIT TYPE: 4GL

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	16000	01-Feb-2007	Unleaded Gas	UNDERGROUND	IN SERVICE 01-Feb-2007

** CONSTR TYPE: AFMR PIPING TYPE: CFJK LEAK MONIT TYPE: 34FHL

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
5	12000	01-Feb-2007	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Feb-2007

** CONSTR TYPE: AFLMR PIPING TYPE: CFJK LEAK MONIT TYPE: 34FHL

See "Agency List Descriptions" Ssection for Code Definitions

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508794. **--HISTORICAL ENTRY--**
MOBIL CROOM
I-75 & SR 50
BROOKSVILLE, FL 33512

OWNERSHIP INFORMATION:

TILLACK, JACK A
30328 CORTEZ BLVD
BROOKSVILLE, FL 34602
CONTACT TEL #: 9047990288
CONTACT: JACK TILLACK
FACILTY TEL #: 9047990288

MAP ID NUMBER: 2
Dist (Miles): 2.13
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** RETAIL STATION **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	10000	01-Jul-1982	UNLEADED GAS	UNDERGROUND	IN SERVICE

** **CONSTR TYPE:** AE **PIPING TYPE:** K **LEAK MONIT TYPE:** 8

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	10000	01-Jul-1982	UNLEADED GAS	UNDERGROUND	IN SERVICE

** **CONSTR TYPE:** AE **PIPING TYPE:** K **LEAK MONIT TYPE:** 8

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	10000	01-Jul-1982	UNLEADED GAS	UNDERGROUND	IN SERVICE

** **CONSTR TYPE:** AE **PIPING TYPE:** K **LEAK MONIT TYPE:** 8

See "Agency List Descriptions" Ssection for Code Definitions

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USEPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM LIST
(ERNS)

INCIDENT ID NUMBER AND LOCATION:

7167

I 75 OVERPASS ON STATE ROAD 50
BROOKSVILLE, FL

RESPONSIBLE PARTY

,

MAP ID NUMBER: 3
Dist (Miles): 2.04
Direction: W

ERNS

COUNTY: HERNANDO **US EPA ID #:**
STATE AGENCY RPT NO:
AGENCY RECEIVING REPORT: NATIONAL RESPONSE CENTER
FED AGENCY NOTIFIED:
STATE AGENCY NOTIFIED:
STATE AGENCY ON SCENE:

SPILL DATE:	MATERIAL AND QUANTITY SPILLED:		
6/25/1987	DIESEL FUEL	500	GAL

TYPE OF INCIDENT: HIGHWAY RELATED
INCIDENT CAUSE:
MEDIA AFFECTED: LAND SOIL
DESCRIPTION: SAND TRUCK AND TANK TRUCK COLLIDED
RESPONSE: UNK
MISC INFO:

INCIDENT ID NUMBER AND LOCATION:

8696

HIGHWAY I-75 40 TO 50 MILES NORTH OF TAMPA FL,I
BROOKSVILLE, FL

RESPONSIBLE PARTY

,

MAP ID NUMBER: 3
Dist (Miles): 2.04
Direction: W

ERNS

COUNTY: HERNANDO **US EPA ID #:**
STATE AGENCY RPT NO:
AGENCY RECEIVING REPORT: NATIONAL RESPONSE CENTER
FED AGENCY NOTIFIED:
STATE AGENCY NOTIFIED:
STATE AGENCY ON SCENE:

SPILL DATE:	MATERIAL AND QUANTITY SPILLED:		
7/28/1987	BULK OIL	4000	GAL
7/28/1987	DEXTRON TWO,HYDRAULIC OIL	1500	GAL

TYPE OF INCIDENT: HIGHWAY RELATED
INCIDENT CAUSE:
MEDIA AFFECTED: LAND OFF ROAD
DESCRIPTION: TRANSPORT TRUCK TRACTOR TRAILER/ RAN OFF ROAD TURNED OVER NO OTHER VEHICLE INVOLVED
RESPONSE: FIRE DEPT, STATE TROOPERS, ON SCENE STILL BURNING
MISC INFO:

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508743
TEXACO #203-132
30436 CORTEZ BLVD
BROOKSVILLE, FL 34602-7503

COUNTY CODE: 27
FACILITY STATUS: CLOSED
FACILITY TYPE: A - Retail Station

OWNERSHIP INFORMATION:

ACCOUNT OWNER
THE RADIANT GROUP LLC (TRG LLC)
PO BOX 5238 ATTN: JOHN P MYERS JR
TAMPA, FL 33675-
(813)342-3624
JOHN P MYERS JR

FAC OPERATOR:
FAC TEL #:

MAP ID NUMBER:
Dist (Miles): 1.94
Direction: W

4

LUST

SCORE 66 **SCORE EFF DT:** 10/6/2005 **RANK:** 1381 **SCORE WHEN RANKED:** 66 **HIGHEST CURR SCORE:** 66 **SCORE EFF DT:** 10/6/2005

DISCHARGE INFORMATION

Mapid: 4

DISCHARGE DATE: 9/12/1988

INSPECTION DATE: 4/2/1990 **LEAD AGENCY:**
TANK OFF: PCTM5 - PETROLEUM CLEANUP TEAM 5
CLEANUP REQUIRED: R - CLEANUP REQUIRED
CLEANUP WORK STATUS: COMPLETED
INFO SOURCE: E - EDI
DISCH CLNUP STATUS: 6/24/2005 SRCR - SRCR COMPLETE
CONTAMINATED MEDIA?: **SOIL:** Y **SUR WATER:** N **GR WATER:** N **MON WELL:** Y **# DW WELLS CONTAMINATED:** 0

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
Y - UNKNOWN/NOT REPORTED		

CLEANUP INFORMATION

CLNUP ELLIG STAT: P - PARTIAL
SRC ACTION: SRCR - SITE REHABILITATION COMPLETION REPORT **SRC SUBMIT DT:** 5/17/2005 **SRC REVW DT:** 6/1/2005
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 6/24/2005 **SRC ISS DT:** 6/24/2005

Mapid: 4

CLNUP PROG: E - EARLY DETECTION INCENTIVE
APPL RCVD: 9/16/1988 **ELIG STATUS:** P **ELIG STATUS DATE:** 6/5/1991 **ELIG REDETERMINED?:** N

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: OTHER - OTHER
FUND ELLIG: -
ACTUAL COMPLETION DATE: 5/4/1992
PAYMENT DATE: 4/7/1993
ACTUAL COST: $41,140.49

REMEDIAL ACTION PLAN

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ORDER COMPL DATE: 4/19/1993
ACTUAL COMPL DATE: 4/19/1993
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL: 3

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: SRCR - SITE REHABILITATION COMPLETION REPORT
SUBMIT DATE: 5/17/2005
REVIEW DATE: 6/1/2005
ISSUE DATE: 6/24/2005
COMPL STATUS: A - APPROVED
COMPL STATUS DT: 6/24/2005
COMMENTS: 2005-95-W07899

SOURCE REMOVAL

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

DISCHARGE INFORMATION

Mapid: 4

DISCHARGE DATE: 6/6/2003

INSPECTION DATE: **LEAD AGENCY:** **TANK OFF:** PCSWD - SWD STORAGE TANK PROGRAM
CLEANUP REQUIRED: R - CLEANUP REQUIRED **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: Z - OTHER
DISCH CLNUP STATUS: 3/13/2009 NFA - NFA COMPLETE
CONTAMINATED MEDIA?: **SOIL:** **SUR WATER:** **GR WATER:** Y **MON WELL:** Y **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
D - VEHICULAR DIESEL		

CLEANUP INFORMATION

CLNUP ELLIG STAT: -
SRC ACTION: NFA - NO FURTHER ACTION **SRC SUBMIT DT:** 1/14/2009 **SRC REVW DT:** 3/11/2009
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 3/13/2009 **SRC ISS DT:** 3/19/2009

Mapid: 4

CLNUP PROG:
APPL RCVD: **ELIG STATUS:** **ELIG STATUS DATE:** **ELIG REDETERMINED?:**

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: -
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508743
TEXACO #203-132
30436 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

THE RADIANT GROUP LLC (TRG
PO BOX 5238 ATTN: JOHN P MYERS
TAMPA, FL 33675
CONTACT TEL #: (813) 342-3624
CONTACT: JOHN P MYERS JR
FACILTY TEL #:

MAP ID NUMBER: 4
Dist (Miles): 1.94
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	4000	01-May-1965	Unleaded Gas	UNDERGROUND	REMOVED

** CONSTR TYPE: C PIPING TYPE: LEAK MONIT TYPE: H

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
10	10000	01-Apr-1987	Vehicular Diesel	UNDERGROUND	REMOVED 01-Apr-2001

** CONSTR TYPE: FMNO PIPING TYPE: LEAK MONIT TYPE: HS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1R1	10000	01-Apr-1987	UNLEADED GAS	UNDERGROUND	TEMP OUT OF SERVICE 01-Jul-1997

** CONSTR TYPE: FMNO PIPING TYPE: CJ LEAK MONIT TYPE: HT

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	4000	01-May-1965	Unleaded Gas	UNDERGROUND	REMOVED

** CONSTR TYPE: C PIPING TYPE: LEAK MONIT TYPE: H

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2R1	10000	01-Apr-1987	UNLEADED GAS	UNDERGROUND	TEMP OUT OF SERVICE 01-Jul-1997

** CONSTR TYPE: FMNO PIPING TYPE: CJ LEAK MONIT TYPE: HT

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	4000	01-May-1965	Unleaded Gas	UNDERGROUND	REMOVED

** CONSTR TYPE: C PIPING TYPE: LEAK MONIT TYPE: H

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3R1	10000	01-Apr-1987	UNLEADED GAS	UNDERGROUND	TEMP OUT OF SERVICE 01-Jul-1997

** CONSTR TYPE: FMNO PIPING TYPE: CJ LEAK MONIT TYPE: HT

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	4000	01-May-1965	Leaded Gas	UNDERGROUND	REMOVED

** CONSTR TYPE: C PIPING TYPE: LEAK MONIT TYPE: H

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4R1	10000	01-Apr-1987	VEHICULAR DIESEL	UNDERGROUND	TEMP OUT OF SERVICE 01-Jul-1997

** CONSTR TYPE: FMNO PIPING TYPE: CJ LEAK MONIT TYPE: HT

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
5	4000	01-May-1965	Leaded Gas	UNDERGROUND	REMOVED

** CONSTR TYPE: C PIPING TYPE: LEAK MONIT TYPE: H

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
6	4000	01-May-1965	Leaded Gas	UNDERGROUND	REMOVED

** CONSTR TYPE: C PIPING TYPE: LEAK MONIT TYPE: H

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
7	10000	01-Apr-1987	Unleaded Gas	UNDERGROUND	REMOVED 01-Apr-2001

** CONSTR TYPE: FMNO PIPING TYPE: LEAK MONIT TYPE: HS

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FDEP STORAGE TANKS REPORT

(TANKS)

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
8	10000	01-Apr-1987	Unleaded Gas	UNDERGROUND	REMOVED 01-Apr-2001

** CONSTR TYPE: FMNO PIPING TYPE: LEAK MONIT TYPE: HS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
9	10000	01-Apr-1987	Unleaded Gas	UNDERGROUND	REMOVED 01-Apr-2001

** CONSTR TYPE: FMNO PIPING TYPE: LEAK MONIT TYPE: HS

See "Agency List Descriptions" Ssection for Code Definitions

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USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS)
(NONTSD)

FACILITY ID NUMBER, NAME AND LOCATION:

FLR000016741
SUNOCO STATION #573
30431 CORTEZ BLVD
BROOKSVILLE, FL 346027504

CONTACT INFORMATION:

PO BOX 1287
JACKSONVILLE IL 626511287
Contact: BRIAN DYCHE
Contact Telephone: 2172459528
Contact Email:

MAP ID NUMBER: 5
Dist (Miles): 1.96
Direction: W

NONTSD

RCRIS INFORMATION

NOTIFICATION DATE: 10/7/2010 **SOURCE:** INSPECTION

GEN STATUS(Fed): CONDITIONALLY EXEMPT SQG(<100 KG PER MONTH)
GEN STATUS(State): CONDITIONALLY EXEMPT SQG(<100 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDERGROUND INJECTI
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

NOTIFICATION DATE: 5/6/1996 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): SMALL QUANTITY GENERATOR(<1000 KG PER MONTH)
GEN STATUS(State): SMALL QUANTITY GENERATOR(<1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDERGROUND INJECTI
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508762
BROOKSVILLE FOOD MART
30431 CORTEZ BLVD
BROOKSVILLE, FL 34602-7504

OWNERSHIP INFORMATION:

ACCOUNT OWNER
PATEL, RAJENDRA B.
30431 CORTEZ BLVD
BROOKSVILLE, FL 34602-
(813)391-8405
RICK PATEL

MAP ID NUMBER: 5
Dist (Miles): 1.96
Direction: W

LUST

COUNTY CODE: 27
FACILITY STATUS: OPEN
FACILITY TYPE: A - Retail Station

FAC OPERATOR: RICK PATEL
FAC TEL #: (352)796-4636

SCORE 80 **SCORE EFF DT:** 1/2/2008 **RANK:** 1656 **SCORE WHEN RANKED:** 61 **HIGHEST CURR SCORE:** 80 **SCORE EFF DT:** 1/2/2008

DISCHARGE INFORMATION

Mapid: 5

DISCHARGE DATE: 2/15/1995

INSPECTION DATE: 2/22/1995 **LEAD AGENCY:**
TANK OFF: PCTM4 - PETROLEUM CLEANUP TEAM 4
CLEANUP REQUIRED: R - CLEANUP REQUIRED
CLEANUP WORK STATUS: COMPLETED
INFO SOURCE: D - DISCHARGE NOTIFICATION
DISCH CLNUP STATUS: 2/17/2009 SRCR - SRCR COMPLETE
CONTAMINATED MEDIA?: **SOIL:** N **SUR WATER:** N **GR WATER:** Y **MON WELL:** N **# DW WELLS CONTAMINATED:** 0

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
B - UNLEADED GAS		

CLEANUP INFORMATION

CLNUP ELLIG STAT: E - ELIGIBLE
SRC ACTION: SRCR - SITE REHABILITATION COMPLETION REPORT **SRC SUBMIT DT:** 1/12/2009 **SRC REVW DT:** 2/15/2009
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 2/17/2009 **SRC ISS DT:** 2/20/2009

Mapid: 5

CLNUP PROG: P - PETROLEUM LIABILITY AND RESTORATION INSURANCE PROGRAM
APPL RCVD: 4/13/1995 **ELIG STATUS:** E **ELIG STATUS DATE:** 5/22/1995 **ELIG REDETERMINED?:** N

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: ST - STATE
FUND ELLIG: SCR - PRIORITY SCORE ORDER
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: -
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508762
SUNSHINE FOOD MART #188
30431 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

AAYUSH CORPORATION
402-A HIGH POINT DR STE 101 ATT
COCOA, FL 32926
CONTACT TEL #: (321) 631-0245
CONTACT: JOE FIELDS
FACILTY TEL #: (321) 631-0245

MAP ID NUMBER: 5
Dist (Miles): 1.96
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	10000	01-Feb-1973	Unleaded Gas	UNDERGROUND	CLOSED IN PLACE 01-Mar-2006

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** **LEAK MONIT TYPE:** GISU

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	10000	01-Feb-1973	Unleaded Gas	UNDERGROUND	CLOSED IN PLACE 01-Mar-2006

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** **LEAK MONIT TYPE:** GISU

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	10000	01-Feb-1973	Unleaded Gas	UNDERGROUND	CLOSED IN PLACE 01-Mar-2006

** **CONSTR TYPE:** ABCMO **PIPING TYPE:** **LEAK MONIT TYPE:** GISU

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	22000	01-Mar-2006	Unleaded Gas	UNDERGROUND	IN SERVICE 01-Mar-2006

** **CONSTR TYPE:** AFILMR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 134FHK

See "Agency List Descriptions" Ssection for Code Definitions

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USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS)
(NONTSD)

FACILITY ID NUMBER, NAME AND LOCATION:

FLD984241851
EXXON CO USA #49107
I-75 & SR 50
BROOKSVILLE, FL 33512

CONTACT INFORMATION:

1200 TIMBERLOCH PL
THE WOODLANDS TX 773801046
Contact: ALDA POOL
Contact Telephone: 2812963579
Contact Email:

MAP ID NUMBER: 6
Dist (Miles): 1.92
Direction: W

NONTSD

RCRIS INFORMATION

NOTIFICATION DATE: 3/22/2000 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): NOT A GENERATOR-VERIFIED
GEN STATUS(State): NOT A GENERATOR-VERIFIED
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDERGROUND INJECTI
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

VIOLATION INFO

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508731
EXXON #5285
30435 CORTEZ BLVD
BROOKSVILLE, FL 34602-7504

OWNERSHIP INFORMATION:

ACCOUNT OWNER
EXXON MOBIL CORP -* * * * USE #14745
12265 W BAYAUD AVE #300 ATTN: VEEDER-ROOT CMS
LAKEWOOD, CO 80228-
(303)986-8011
ERIC MCPHEE

MAP ID NUMBER: 6
Dist (Miles): 1.92
Direction: W

LUST

COUNTY CODE: 27
FACILITY STATUS: CLOSED
FACILITY TYPE: A - Retail Station

FAC OPERATOR: TERI L ADAMS
FAC TEL #: (904)796-9367

SCORE 81 **SCORE EFF DT:** 6/2/2010 **RANK:** 353 **SCORE WHEN RANKED:** 80 **HIGHEST CURR SCORE:** 81 **SCORE EFF DT:** 6/2/2010

DISCHARGE INFORMATION

Mapid: 6

DISCHARGE DATE: 11/19/1990

INSPECTION DATE: 2/12/1992 **LEAD AGENCY:**
TANK OFF: PCTM4 - PETROLEUM CLEANUP TEAM 4
CLEANUP REQUIRED: R - CLEANUP REQUIRED
CLEANUP WORK STATUS: ACTIVE
INFO SOURCE: A - ABANDONED TANK RESTORATION
DISCH CLNUP STATUS: 2/7/2002 RA - RA ONGOING
CONTAMINATED MEDIA?: **SOIL:** Y **SUR WATER:** N **GR WATER:** Y **MON WELL:** Y **# DW WELLS CONTAMINATED:** 0

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
Y - UNKNOWN/NOT REPORTED		

CLEANUP INFORMATION

CLNUP ELLIG STAT: E - ELIGIBLE
SRC ACTION: -
SRC SUBMIT DT: **SRC REVW DT:**
SRC COMPL STAT: - **SRC STAT EFF DT:** **SRC ISS DT:**

Mapid: 6

CLNUP PROG: A - ABANDONED TANK RESTORATION PROGRAM
APPL RCVD: 3/14/1991 **ELIG STATUS:** E **ELIG STATUS DATE:** 2/26/1992 **ELIG REDETERMINED?:** N

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COMPLETION DATE: 3/12/1992
PAYMENT DATE: 5/12/1993
ACTUAL COST: $77,451.50

REMEDIAL ACTION PLAN

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: SCR - PRIORITY SCORE ORDER
ORDER COMPL DATE: 9/29/1993
ACTUAL COMPL DATE: 7/25/2005
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508731
EXXON #5285
30435 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

EXXON MOBIL CORP -* * * *
12265 W BAYAUD AVE #300 ATTN: V
LAKEWOOD, CO 80228
CONTACT TEL #: (303) 986-8011
CONTACT: ERIC MCPHEE
FACILTY TEL #: (904) 796-9367

MAP ID NUMBER: 6
Dist (Miles): 1.92
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	3000	01-Jul-1966	Unleaded Gas	UNDERGROUND	REMOVED 28-Feb-1986

** CONSTR TYPE: D PIPING TYPE: LEAK MONIT TYPE: Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	3000	01-Jul-1966	Unleaded Gas	UNDERGROUND	REMOVED 28-Feb-1986

** CONSTR TYPE: D PIPING TYPE: LEAK MONIT TYPE: Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	3000	01-Jul-1966	Unleaded Gas	UNDERGROUND	REMOVED 28-Feb-1986

** CONSTR TYPE: D PIPING TYPE: LEAK MONIT TYPE: Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	3000	01-Jul-1966	Leaded Gas	UNDERGROUND	REMOVED 28-Feb-1986

** CONSTR TYPE: D PIPING TYPE: LEAK MONIT TYPE: Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
5	4000	01-Jul-1966	Unleaded Gas	UNDERGROUND	REMOVED 28-Feb-1986

** CONSTR TYPE: D PIPING TYPE: LEAK MONIT TYPE: Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
6	5000		Waste Oil	UNDERGROUND	REMOVED 28-Feb-1986

** CONSTR TYPE: BC PIPING TYPE: LEAK MONIT TYPE: Y

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

9300174
RACETRAC #451
30480 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

RACETRAC PETROLEUM INC
3225 CUMBERLAND BLVD #100 ATTN:
ATLANTA, GA 30339
CONTACT TEL #: (404) 227-0835
CONTACT: BOB ANDERSON/ LISA CIOTOL
FACILTY TEL #: (770) 431-7600

MAP ID NUMBER: 7
Dist (Miles): 1.87
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	12000	01-Jan-1993	Unleaded Gas	UNDERGROUND	IN SERVICE

** **CONSTR TYPE:** AFMOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 124FGK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	12000	01-Jan-1993	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Jul-2009

** **CONSTR TYPE:** AFMOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 124FGK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	12000	01-Jan-1993	Unleaded Gas	UNDERGROUND	IN SERVICE

** **CONSTR TYPE:** AFMOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 124FGK

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508795
QUALITY #192
31001 CORTEZ BLVD
BROOKSVILLE, FL 34602-7505

COUNTY CODE: 27
FACILITY STATUS: CLOSED
FACILITY TYPE: A - Retail Station

OWNERSHIP INFORMATION:

ACCOUNT OWNER
QUALITY PETROLEUM CORP
PO BOX 3889
LAKELAND, FL 33802-
(863)687-2682
STEVE WEEKS

FAC OPERATOR: STEVE WEEKS
FAC TEL #: (863)687-2682

MAP ID NUMBER:
Dist (Miles): 1.84
Direction: W

8

LUST

SCORE 27 **SCORE EFF DT:** 1/6/1998 **RANK:** **SCORE WHEN RANKED:** **HIGHEST CURR SCORE:** 27 **SCORE EFF DT:** 1/6/1998

DISCHARGE INFORMATION

Mapid: 8

DISCHARGE DATE: 9/18/1987

INSPECTION DATE: 4/26/1989 **LEAD AGENCY:** **TANK OFF:** -
CLEANUP REQUIRED: R - CLEANUP REQUIRED **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: E - EDI
DISCH CLNUP STATUS: 8/3/1995 NFA - NFA COMPLETE
CONTAMINATED MEDIA?: **SOIL:** **SUR WATER:** **GR WATER:** **MON WELL:** **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
-		

CLEANUP INFORMATION

CLNUP ELLIG STAT: P - PARTIAL
SRC ACTION: NFA - NO FURTHER ACTION **SRC SUBMIT DT:** 3/27/1995 **SRC REVW DT:** 8/1/1995
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 8/3/1995 **SRC ISS DT:** 8/3/1995

Mapid: 8

CLNUP PROG: E - EARLY DETECTION INCENTIVE
APPL RCVD: 12/8/1988 **ELIG STATUS:** P **ELIG STATUS DATE:** 12/16/1991 **ELIG REDETERMINED?:** N

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COMPLETION DATE: 8/1/1995
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: ST - STATE
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: ST - STATE
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: NFA - NO FURTHER ACTION
SUBMIT DATE: 3/27/1995
REVIEW DATE: 8/1/1995
ISSUE DATE: 8/3/1995
COMPL STATUS: A - APPROVED
COMPL STATUS DT: 8/3/1995
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: ST - STATE
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508795
QUALITY #192
31001 CORTEZ BLVD
BROOKSVILLE, FL 34602

OWNERSHIP INFORMATION:

QUALITY PETROLEUM CORP
PO BOX 3889
LAKELAND, FL 33802
CONTACT TEL #: (863) 687-2682
CONTACT: STEVE WEEKS
FACILTY TEL #: (863) 687-2682

MAP ID NUMBER: 8
Dist (Miles): 1.84
Direction: W

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	8000	01-Dec-1972	Unleaded Gas	UNDERGROUND	REMOVED 30-Dec-2009

** **CONSTR TYPE:** ACHMO **PIPING TYPE:** JKMN **LEAK MONIT TYPE:** 24HS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	8000	01-Dec-1972	Unleaded Gas	UNDERGROUND	REMOVED 30-Dec-2009

** **CONSTR TYPE:** ACHMO **PIPING TYPE:** JKMN **LEAK MONIT TYPE:** 24HS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	6000	01-Dec-1980	Unleaded Gas	UNDERGROUND	REMOVED 30-Dec-2009

** **CONSTR TYPE:** ACHMO **PIPING TYPE:** JKMN **LEAK MONIT TYPE:** 24HS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	550		Waste Oil	UNDERGROUND	REMOVED 31-Oct-1984

** **CONSTR TYPE:** AC **PIPING TYPE:** **LEAK MONIT TYPE:** 8

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USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS)
(NONTSD)

FACILITY ID NUMBER, NAME AND LOCATION:

FLR000011601
WINN DIXIE #652
31100 CORTEZ BLVD
BROOKSVILLE, FL 346027548

CONTACT INFORMATION:

31100 CORTEZ BLVD
BROOKSVILLE FL 346027548
Contact: DALE BERTLING
Contact Telephone: 9047997700
Contact Email:

MAP ID NUMBER: 9
Dist (Miles): 1.59
Direction: W

NONTSD

RCRIS INFORMATION

NOTIFICATION DATE: 1/9/1996 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): SMALL QUANTITY GENERATOR(<1000 KG PER MONTH)
GEN STATUS(State): SMALL QUANTITY GENERATOR(<1000 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDERGROUND INJECTI
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

9807856
HERNANDO CNTY FIRE STATION 22
32406 CORTEZ BLVD
RIDGE MANOR, FL -

OWNERSHIP INFORMATION:

ACCOUNT OWNER
HERNANDO CNTY FIRE & RESCUE
1188 S BROAD ST ATTN: MICHAEL NICHERSON
BROOKSVILLE, FL 34601-
(352)540-4353
MICHAEL NICHERSON

MAP ID NUMBER: 10
Dist (Miles): 0.25
Direction: NW

LUST

COUNTY CODE: 27
FACILITY STATUS: OPEN
FACILITY TYPE: I - County Government

FAC OPERATOR: MICHAEL NICHERSON
FAC TEL #: (352)540-4353

SCORE 44 **SCORE EFF DT:** 4/27/2006 **RANK:** **SCORE WHEN RANKED:** **HIGHEST CURR SCORE:** 44 **SCORE EFF DT:** 4/27/2006

DISCHARGE INFORMATION

Mapid: 10

DISCHARGE DATE: 10/20/2005

INSPECTION DATE: **LEAD AGENCY:** **TANK OFF:** PCSWD - SWD STORAGE TANK PROGRAM
CLEANUP REQUIRED: R - CLEANUP REQUIRED **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: Z - OTHER
DISCH CLNUP STATUS: 5/13/2008 NFA - NFA COMPLETE
CONTAMINATED MEDIA?: **SOIL:** Y **SUR WATER:** **GR WATER:** **MON WELL:** **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
D - VEHICULAR DIESEL		

CLEANUP INFORMATION

CLNUP ELLIG STAT: -
SRC ACTION: NFA - NO FURTHER ACTION **SRC SUBMIT DT:** 4/8/2008 **SRC REVW DT:** 4/30/2008
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 5/13/2008 **SRC ISS DT:** 5/16/2008

CLNUP PROG: **Mapid:** 10
APPL RCVD: **ELIG STATUS:** **ELIG STATUS DATE:** **ELIG REDETERMINED?:**

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT
CLNP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN
CLEANUP RESP: -
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION
CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL: 0

SITE REHABILITATION COMPLETION REPORT
ACTION TYPE: NFA - NO FURTHER ACTION
SUBMIT DATE: 4/8/2008
REVIEW DATE: 4/30/2008
ISSUE DATE: 5/16/2008
COMPL STATUS: A - APPROVED
COMPL STATUS DT: 5/13/2008
COMMENTS:

SOURCE REMOVAL
CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

9807856
HERNANDO CNTY FIRE STATION 22
32406 CORTEZ BLVD
RIDGE MANOR, FL

OWNERSHIP INFORMATION:

HERNANDO CNTY FIRE & RESCU
1188 S BROAD ST ATTN: MICHAEL
BROOKSVILLE, FL 34601
CONTACT TEL #: (352) 540-4353
CONTACT: MICHAEL NICHERSON
FACILTY TEL #: (352) 540-4353

MAP ID NUMBER: 10
Dist (Miles): 0.25
Direction: NW

TANKS

COUNTY ID: 27 **FAC TYPE:** County Government **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	500		Vehicular Diesel	ABOVEGROUND	IN SERVICE 12-Jan-2006

** CONSTR TYPE: PIPING TYPE: LEAK MONIT TYPE:

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FDEP SOLID WASTE FACILITIES LIST

(SLDWST)

FACILITY NAME AND LOCATION:

EAST HERNANDO TRANSFER STATION
.5MI W JCT US-98S & SR-50E (03 -23S -21E)
BROOKSVILLE , FL 34614

GMS ID: 4027C31906
Facility ID: 00040743
SEC/TWN/RNG: 03 -23S -21E
FACILITY CLASS: 750 TRANSFER STATION
CLASS STATUS: ACTIVE **FAC STATUS:** ACTIVE

RESPONSIBLE AUTHORITY:

HERNANDO COUNTY UTILITIES DEPT
14450 LANDFILL ROAD
BROOKSVILLE , FL 34614
3527544112

LAND OWNER:

,

MAP ID NUMBER: 11
Dist (Miles): 0.37
Direction: S

SLDWST

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FDEP SOLID WASTE FACILITIES LIST

(SLDWST)

FACILITY NAME AND LOCATION:

RIDGE MANOR DISPOSAL SERVICE LF
US98 & SR50 (03 -23S -21E)
RIDGE MANOR , FL 33525

GMS ID: 4027P00064
Facility ID: 00040775
SEC/TWN/RNG: 03 -23S -21E
FACILITY CLASS: 200 CLASS II LANDFILL
CLASS STATUS: CLOSED, NO GW MONITORING **FAC STATUS:** CLOSED, NO GW MONITORING

RESPONSIBLE AUTHORITY:

RIDGE MANOR DISPOSAL SERVICE
P O BOX 231
RIDGE MANOR , FL 33525
3525832031

LAND OWNER:

RILEY MILLS
RT 1 BOX 569
WEBSTER , FL 33597

MAP ID NUMBER: 12
Dist (Miles): 0.55
Direction: SE

SLDWST

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

9501826
QUICK CHECK
33191 CORTEZ BLVD
RIDGE MANOR, FL 33525

OWNERSHIP INFORMATION:

QUICK CHECK I LLC
33191 CORTEZ BLVD ATTN: DILIP
RIDGE MANOR, FL 33525
CONTACT TEL #: (352) 583-2357
CONTACT: DILIP PATEL
FACILTY TEL #: (352) 583-2357

MAP ID NUMBER: 13
Dist (Miles): 0.67
Direction: SE

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	10000	01-Feb-1995	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Feb-1995

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 34FHK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	10000	01-Feb-1995	Unleaded Gas	UNDERGROUND	IN SERVICE 01-Feb-1995

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 34FHK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	10000	01-Feb-1995	Unleaded Gas	UNDERGROUND	IN SERVICE 01-Feb-1995

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 34FHK

See "Agency List Descriptions" Ssection for Code Definitions

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

9100010
BP-RIDGE MANOR
34508 CORTEZ BLVD SR 50 & US 301
RIDGE MANOR, FL 33525-8965

COUNTY CODE: 27
FACILITY STATUS: CLOSED
FACILITY TYPE: C - Fuel user/Non-retail

OWNERSHIP INFORMATION:

ACCOUNT OWNER
MANOR BUILDINGS
34498 CORTEZ BLVD
RIDGE MANOR, FL 33525-8908
(904)583-3284
FRED TRAUB

FAC OPERATOR: MANOR BUILDINGS
FAC TEL #: (904)583-3284

MAP ID NUMBER:
Dist (Miles): 2.12
Direction: E

14

LUST

SCORE 30 **SCORE EFF DT:** 1/6/1998 **RANK:** **SCORE WHEN RANKED:** **HIGHEST CURR SCORE:** 30 **SCORE EFF DT:** 1/6/1998

DISCHARGE INFORMATION

Mapid: 14

DISCHARGE DATE: 10/23/1990

INSPECTION DATE: 11/28/1990 **LEAD AGENCY:** **TANK OFF:** -
CLEANUP REQUIRED: R - CLEANUP REQUIRED **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: D - DISCHARGE NOTIFICATION
DISCH CLNUP STATUS: 1/12/1994 SRCR - SRCR COMPLETE
CONTAMINATED MEDIA?: **SOIL:** **SUR WATER:** **GR WATER:** **MON WELL:** **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
-		

CLEANUP INFORMATION

CLNUP ELLIG STAT: E - ELIGIBLE
SRC ACTION: SRCR - SITE REHABILITATION COMPLETION REPORT **SRC SUBMIT DT:** 1/10/1994 **SRC REVW DT:** 1/12/1994
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 1/12/1994 **SRC ISS DT:** 1/12/1994

Mapid: 14

CLNUP PROG: A - ABANDONED TANK RESTORATION PROGRAM
APPL RCVD: 12/31/1990 **ELIG STATUS:** E **ELIG STATUS DATE:** 6/13/1991 **ELIG REDETERMINED?:** N

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COMPLETION DATE: 1/13/1993
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ORDER COMPL DATE: 1/13/1993
ACTUAL COMPL DATE: 1/13/1993
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: SRCR - SITE REHABILITATION COMPLETION REPORT
SUBMIT DATE: 1/10/1994
REVIEW DATE: 1/12/1994
ISSUE DATE: 1/12/1994
COMPL STATUS: A - APPROVED
COMPL STATUS DT: 1/12/1994
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE: 11/21/1990
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N): Y
SOIL TONNAGE REMOVED: 200
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

9100010
BP-RIDGE MANOR
34508 CORTEZ BLVD SR 50 & US 301
RIDGE MANOR, FL 33525

OWNERSHIP INFORMATION:

MANOR BUILDINGS
34498 CORTEZ BLVD
RIDGE MANOR, FL 33525
CONTACT TEL #: (904) 583-3284
CONTACT: FRED TRAUB
FACILTY TEL #: (904) 583-3284

MAP ID NUMBER: 14
Dist (Miles): 2.12
Direction: E

TANKS

COUNTY ID: 27 **FAC TYPE:** Fuel user/Non-retail **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	4000		Vehicular Diesel	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	4000		Vehicular Diesel	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	6000		Generic Gasoline	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	4000		Generic Gasoline	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
5	4000		Generic Gasoline	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
6	2000		Generic Gasoline	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
7	1000		Kerosene	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
8	560		Waste Oil	UNDERGROUND	REMOVED 31-Oct-1990

** **CONSTR TYPE:** D **PIPING TYPE:** **LEAK MONIT TYPE:** Y

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USEPA RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM (RCRIS)
(NONTSD)

FACILITY ID NUMBER, NAME AND LOCATION:

FLD984255141
CIRCLE K #7296
5235 TREIMAN BLVD
RIDGE MANOR, FL 335238825

CONTACT INFORMATION:

500 FAULKENBURG RD
TAMPA FL 33619 0
Contact: STEVE BELIN
Contact Telephone: 8136898161
Contact Email:

MAP ID NUMBER: 15
Dist (Miles): 2.11
Direction: E

NONTSD

RCRIS INFORMATION

NOTIFICATION DATE: 4/6/1993 **SOURCE:** NOTIFICATION

GEN STATUS(Fed): CONDITIONALLY EXEMPT SQG(<100 KG PER MONTH)
GEN STATUS(State): CONDITIONALLY EXEMPT SQG(<100 KG PER MONTH)
TRANSPORTER?: NOT A TRANSPORTER,VERIFIED
TSD?: NOT A TSD,VERIFIED
NON-NOTIFIER?:
RECYCLER?: N

ON SITE BURNER?: N
FURNACE?: N
UNDGRND INJ?: NO UNDERGROUND INJECTI
XFER FAC?: N
UO BURNER?: N
UO PROC?: N
UO RECY?: N
UO TRANS?: N
UO XFER?: N

VIOLATION INFO

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508842
CIRCLE K #7296
5235 TREMAIN RD
RIDGE MANOR, FL 33525-

OWNERSHIP INFORMATION:

ACCOUNT OWNER
CIRCLE K STORES INC
12911 N TELECOM PKWY ATTN: FRANCES FRANCONI
TAMPA, FL 33637-
(813)910-6884
FRANCES FRANCONI

MAP ID NUMBER: 15
Dist (Miles): 2.11
Direction: E

LUST

COUNTY CODE: 27
FACILITY STATUS: CLOSED
FACILITY TYPE: A - Retail Station

FAC OPERATOR: STEVE BELIN
FAC TEL #: (813)744-5266

SCORE 30 **SCORE EFF DT:** 12/16/1999 **RANK:** **SCORE WHEN RANKED:** **HIGHEST CURR SCORE:** 30 **SCORE EFF DT:** 12/16/1999

DISCHARGE INFORMATION

Mapid: 15

DISCHARGE DATE: 9/17/1988

INSPECTION DATE: 1/23/1989 **LEAD AGENCY:**
TANK OFF: PCTM6 - PETROLEUM CLEANUP TEAM 6
CLEANUP REQUIRED: R - CLEANUP REQUIRED
CLEANUP WORK STATUS: COMPLETED
INFO SOURCE: E - EDI
DISCH CLNUP STATUS: 10/30/2001 SRCR - SRCR COMPLETE
CONTAMINATED MEDIA?: **SOIL:** N **SUR WATER:** N **GR WATER:** N **MON WELL:** Y **# DW WELLS CONTAMINATED:** 0

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
Z - OTHER NON REGULATED		UNKNOWN

CLEANUP INFORMATION

CLNUP ELLIG STAT: E - ELIGIBLE
SRC ACTION: SRCR - SITE REHABILITATION COMPLETION REPORT **SRC SUBMIT DT:** 10/30/2001 **SRC REVW DT:** 10/30/2001
SRC COMPL STAT: A - APPROVED **SRC STAT EFF DT:** 10/30/2001 **SRC ISS DT:** 1/31/2002

Mapid: 15

CLNUP PROG: E - EARLY DETECTION INCENTIVE
APPL RCVD: 10/4/1988 **ELIG STATUS:** E **ELIG STATUS DATE:** 3/10/1989 **ELIG REDETERMINED?:** N

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COMPLETION DATE: 6/19/1996
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ORDER COMPL DATE: 6/19/1996
ACTUAL COMPL DATE: 6/19/1996
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: SRCR - SITE REHABILITATION COMPLETION REPORT
SUBMIT DATE: 10/30/2001
REVIEW DATE: 10/30/2001
ISSUE DATE: 1/31/2002
COMPL STATUS: A - APPROVED
COMPL STATUS DT: 10/30/2001
COMMENTS: SRCO

SOURCE REMOVAL

CLEANUP RESP: RP - RESPONSIBLE PARTY
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508842
CIRCLE K #7296
5235 TREMAIN RD
RIDGE MANOR, FL 33525

OWNERSHIP INFORMATION:

CIRCLE K STORES INC
12911 N TELECOM PKWY ATTN: FRAN
TAMPA, FL 33637
CONTACT TEL #: (813) 910-6884
CONTACT: FRANCES FRANCONI
FACILTY TEL #: (813) 744-5266

MAP ID NUMBER: 15
Dist (Miles): 2.11
Direction: E

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	7928	01-Oct-1977	Unleaded Gas	UNDERGROUND	REMOVED 17-May-2001

** **CONSTR TYPE:** CHMONA **PIPING TYPE:** **LEAK MONIT TYPE:** HS

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	7928	01-Oct-1977	Unleaded Gas	UNDERGROUND	REMOVED 17-May-2001

** **CONSTR TYPE:** CHMONA **PIPING TYPE:** **LEAK MONIT TYPE:** HS

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

8508756
STANDARD-CARLS
US 301 & HWY 50
RIDGE MANOR, FL 33525-

OWNERSHIP INFORMATION:

ACCOUNT OWNER
HAUSSERMAN, ESTER
RR 1 BOX 743
WEBSTER, FL 33597-9801
(904)583-3771

MAP ID NUMBER: 16
Dist (Miles): 2.15
Direction: E

LUST

COUNTY CODE: 27
FACILITY STATUS: CLOSED
FACILITY TYPE: A - Retail Station

FAC OPERATOR: CARL ROBERTS
FAC TEL #:

SCORE 30 **SCORE EFF DT:** 3/27/2001 **RANK:** **SCORE WHEN RANKED:** **HIGHEST CURR SCORE:** 30 **SCORE EFF DT:** 3/27/2001

DISCHARGE INFORMATION

Mapid: 16

DISCHARGE DATE: 10/23/1990

INSPECTION DATE: **LEAD AGENCY:** **TANK OFF:** -
CLEANUP REQUIRED: N - NO CLEANUP REQUIRED **CLEANUP WORK STATUS:** COMPLETED
INFO SOURCE: D - DISCHARGE NOTIFICATION
DISCH CLNUP STATUS: 4/23/2001 NREQ - CLEANUP NOT REQUIRED
CONTAMINATED MEDIA?: **SOIL:** **SUR WATER:** **GR WATER:** **MON WELL:** **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
-		

CLEANUP INFORMATION

CLNUP ELLIG STAT: I - INELIGIBLE
SRC ACTION: - **SRC SUBMIT DT:** **SRC REVW DT:**
SRC COMPL STAT: - **SRC STAT EFF DT:** **SRC ISS DT:**

Mapid: 16

CLNUP PROG:
APPL RCVD: **ELIG STATUS:** **ELIG STATUS DATE:** **ELIG REDETERMINED?:**

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: ST - STATE
FUND ELLIG: -
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: ST - STATE
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: ST - STATE
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

8508756
STANDARD-CARLS
US 301 & HWY 50
RIDGE MANOR, FL 33525

OWNERSHIP INFORMATION:

HAUSSERMAN, ESTER
RR 1 BOX 743
WEBSTER, FL 33597
CONTACT TEL #: (904) 583-3771
CONTACT:
FACILTY TEL #:

MAP ID NUMBER: 16
Dist (Miles): 2.15
Direction: E

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** CLOSED

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):

** CONSTR TYPE: PIPING TYPE: LEAK MONIT TYPE:

See "Agency List Descriptions" Ssection for Code Definitions

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

Report Date: 3/21/2011

(LUST)

FACILITY ID NUMBER, NAME AND LOCATION:

9802190
CIRCLE K #2705937
35075 CORTEZ BLVD
RIDGE MANOR, FL 35545-

COUNTY CODE: 27
FACILITY STATUS: OPEN
FACILITY TYPE: A - Retail Station

OWNERSHIP INFORMATION:

ACCOUNT OWNER
CIRCLE K STORES INC
12911 N TELECOM PKWY ATTN: FRANCES FRANCONI
TAMPA, FL 33637-
(813)910-6884
FRANCES FRANCONI

FAC OPERATOR: FRAN FRANCONI
FAC TEL #: (813)744-5284

MAP ID NUMBER: 17
Dist (Miles): 2.21
Direction: E

LUST

SCORE 64 **SCORE EFF DT:** 2/4/2009 **RANK:** 3873 **SCORE WHEN RANKED:** 44 **HIGHEST CURR SCORE:** 64 **SCORE EFF DT:** 2/4/2009

DISCHARGE INFORMATION

Mapid: 17

DISCHARGE DATE: 5/14/2003

INSPECTION DATE:
LEAD AGENCY:
TANK OFF: PCSWD - SWD STORAGE TANK PROGRAM
CLEANUP REQUIRED: R - CLEANUP REQUIRED
CLEANUP WORK STATUS: ACTIVE
INFO SOURCE: R - EMERGENCY RESPONSE REPORT
DISCH CLNUP STATUS: 9/19/2008 RA - RA ONGOING

CONTAMINATED MEDIA?: **SOIL:** Y **SUR WATER:** **GR WATER:** **MON WELL:** **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
D - VEHICULAR DIESEL	130	

CLEANUP INFORMATION

CLNUP ELLIG STAT: -
SRC ACTION: -
SRC COMPL STAT: -
SRC SUBMIT DT:
SRC STAT EFF DT:
SRC REVW DT:
SRC ISS DT:

Mapid: 17

CLNUP PROG:
APPL RCVD:
ELIG STATUS:
ELIG STATUS DATE:
ELIG REDETERMINED?:

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: -
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE: 9/18/2008
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP LEAKING UNDERGROUND STORAGE TANKS REPORT

DISCHARGE INFORMATION

Mapid: 17

DISCHARGE DATE: 3/2/2004

INSPECTION DATE: **LEAD AGENCY:** **TANK OFF:** PCSWD - SWD STORAGE TANK PROGRAM
CLEANUP REQUIRED: C - COMBINED CLEANUP REQUIRED **CLEANUP WORK STATUS:** COMBINED
INFO SOURCE: D - DISCHARGE NOTIFICATION
DISCH CLNUP STATUS: 9/19/2008 RA - RA ONGOING
CONTAMINATED MEDIA?: **SOIL:** Y **SUR WATER:** **GR WATER:** Y **MON WELL:** **# DW WELLS CONTAMINATED:**

POLLUTANT TYPE/ESTIMATED GALLONS (IF REPORTED):

POLLUTANT	GALLONS	OTHER
B - UNLEADED GAS		

CLEANUP INFORMATION

CLNUP ELLIG STAT: -
SRC ACTION: - **SRC SUBMIT DT:** **SRC REVW DT:**
SRC COMPL STAT: - **SRC STAT EFF DT:** **SRC ISS DT:**

Mapid: 17

CLNUP PROG:
APPL RCVD: **ELIG STATUS:** **ELIG STATUS DATE:** **ELIG REDETERMINED?:**

Task Level Data No Longer Updated by FDEP

SITE ASSESSMENT

CLNP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION PLAN

CLEANUP RESP: -
FUND ELLIG: -
ORDER COMPL DATE:
ACTUAL COMPL DATE: 9/18/2008
PAYMENT DATE:
ACTUAL COST:

REMEDIAL ACTION

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COST:
YEARS TO COMPL:

SITE REHABILITATION COMPLETION REPORT

ACTION TYPE: -
SUBMIT DATE:
REVIEW DATE:
ISSUE DATE:
COMPL STATUS: -
COMPL STATUS DT:
COMMENTS:

SOURCE REMOVAL

CLEANUP RESP: -
FUND ELLIG: -
ACTUAL COMPLETION DATE:
FREE PRODUCT REMOVAL?(Y/N):
SOIL REMOVAL? (Y/N):
SOIL TONNAGE REMOVED:
SOIL TREATMENT?(Y/N):
OTHER TREATMENT?:
ALT PROC STATUS:
ALT PROC STATUS DT:

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FDEP STORAGE TANKS REPORT

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION:

9802190
CIRCLE K #2705937
35075 CORTEZ BLVD
RIDGE MANOR, FL 35545

OWNERSHIP INFORMATION:

CIRCLE K STORES INC
12911 N TELECOM PKWY ATTN: FRAN
TAMPA, FL 33637
CONTACT TEL #: (813) 910-6884
CONTACT: FRANCES FRANCONI
FACILTY TEL #: (813) 744-5284

MAP ID NUMBER: 17
Dist (Miles): 2.21
Direction: E

TANKS

COUNTY ID: 27 **FAC TYPE:** Retail Station **FAC STATUS:** OPEN

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
1	12000	01-Oct-1999	Unleaded Gas	UNDERGROUND	IN SERVICE 01-Oct-1999

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 24FHK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
2	12000	01-Oct-1999	Unleaded Gas	UNDERGROUND	IN SERVICE 01-Oct-1999

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 24FHK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
3	10000	01-Oct-1999	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Oct-1999

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 24FHK

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...):
4	10000	01-Oct-1999	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Oct-1999

** **CONSTR TYPE:** FMNOR **PIPING TYPE:** CFJK **LEAK MONIT TYPE:** 24FHK

See "Agency List Descriptions" Ssection for Code Definitions

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PROXIMAL RECORDS TABLE

Report Date: 3/21/2011

The Proximal Records Table includes mapped facilities that appear outside of the study area, but in the proximity of the research boundary. They are provided in a summary fashion to allow one to determine potential interest.

Generally, these sites may be of potential interest for three reasons:

1.) The location occurs so close to the research boundary that it merits inclusion in the evaluation.

2.) The site may be expansive with regard to the property boundary. The physical address of a landfill for example may occur outside of the research boundary, but the landfill boundary may extend into the research area. Large industrial complexes may also fall into this category.

3.) The U.S. Census Bureau data, from which our maps are created, is not always precise with regard to address information. A facility may therefore appear on the map outside of the research area, but actually fall within the research area. These inaccuracies are typically less than 500 feet. If you observe any such inaccuracies, we ask that you please notify us of the more precise location and we will use this information to improve our product.

If more specific information relative to one or more locations included in the Proximal Records Table is desired, please feel free to contact us and we will send you this information as an addendum to this report.

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ENVIRONMENTAL DATA MANAGEMENT
Standard 1/8 Mile Research

Report Date: 3/21/2011

PROXIMAL RECORDS TABLE

MAPID#	FAC ID, NAME AND LOCATION	REGULATORY LISTS																				
		NPL	CERCLIS	NFRAP	ERNS	CORRACTS	TSD	NONTSD	TRIBLTANKS	TRIBLLUST	USBRWNFLDS	USINSTENG	STNPL	STCERC	SLDWST	LUST	TANKS	BRWNFLDS	VOLCLNUP	INSTENG	DRY
1A)	FLR000124479 KEYLON LIGHTING SERVICES INC 6931 REMINGTON RD BROOKSVILLE, FL. 346027443							X													
2A)	217561 Unknown 34041 MADISON AVENUE RIDGE MANOR, FL.				X																
3A)	9201582 ZITO AL 5041 TREIMAN BLVD RIDGE MANOR, FL. 33525																X				

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NONMAPPED RECORDS TABLE

Report Date: 3/21/2011

The Non-Mapped Records Table is a listing of database records that lack sufficient address information to be placed within our mapping system, but may exist within your study area. These records have been manually screened to determine whether they could likely fall within the study area or can be conclusively identified as existing outside of the study area. Those records that could be located within the study area, but cannot be plotted within our GIS, are displayed in the Non-Mapped Records Table within this report.

If more specific information relative to one or more locations included in the Non-Mapped Records Table is desired, please feel free to contact us and we will send you this information as an addendum to this report.

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ENVIRONMENTAL DATA MANAGEMENT
Standard 1/8 Mile Research

Report Date: 3/21/2011

NON-MAPPED RECORDS TABLE

MAPID#	FAC ID, NAME AND LOCATION	REGULATORY LISTS																			
		NPL	CERCLIS	NFRAP	ERNS	CORRACTS	TSD	NONTSD	TRIBLTANKS	TRIBLLUST	USBRWNFLDS	USINSTENG	STNPL	STCERC	SLDWST	LUST	TANKS	BRWNFLDS	VOLCLNUP	INSTENG	DRY

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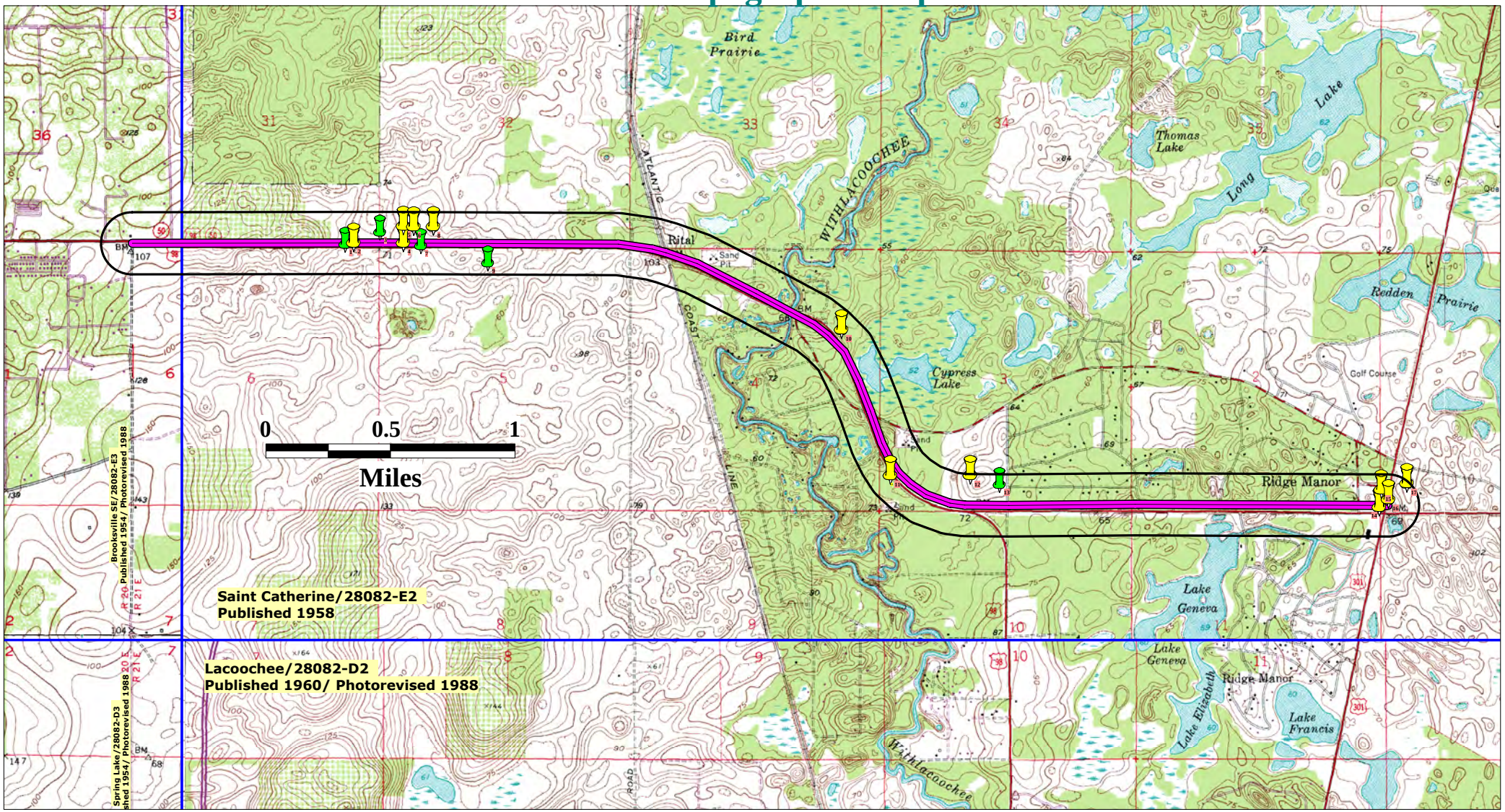
Standard 1/8 mile Research
USGS Topographic Map



Source: USGS Digital Raster Graphic (DRG)

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

Subject Corridor

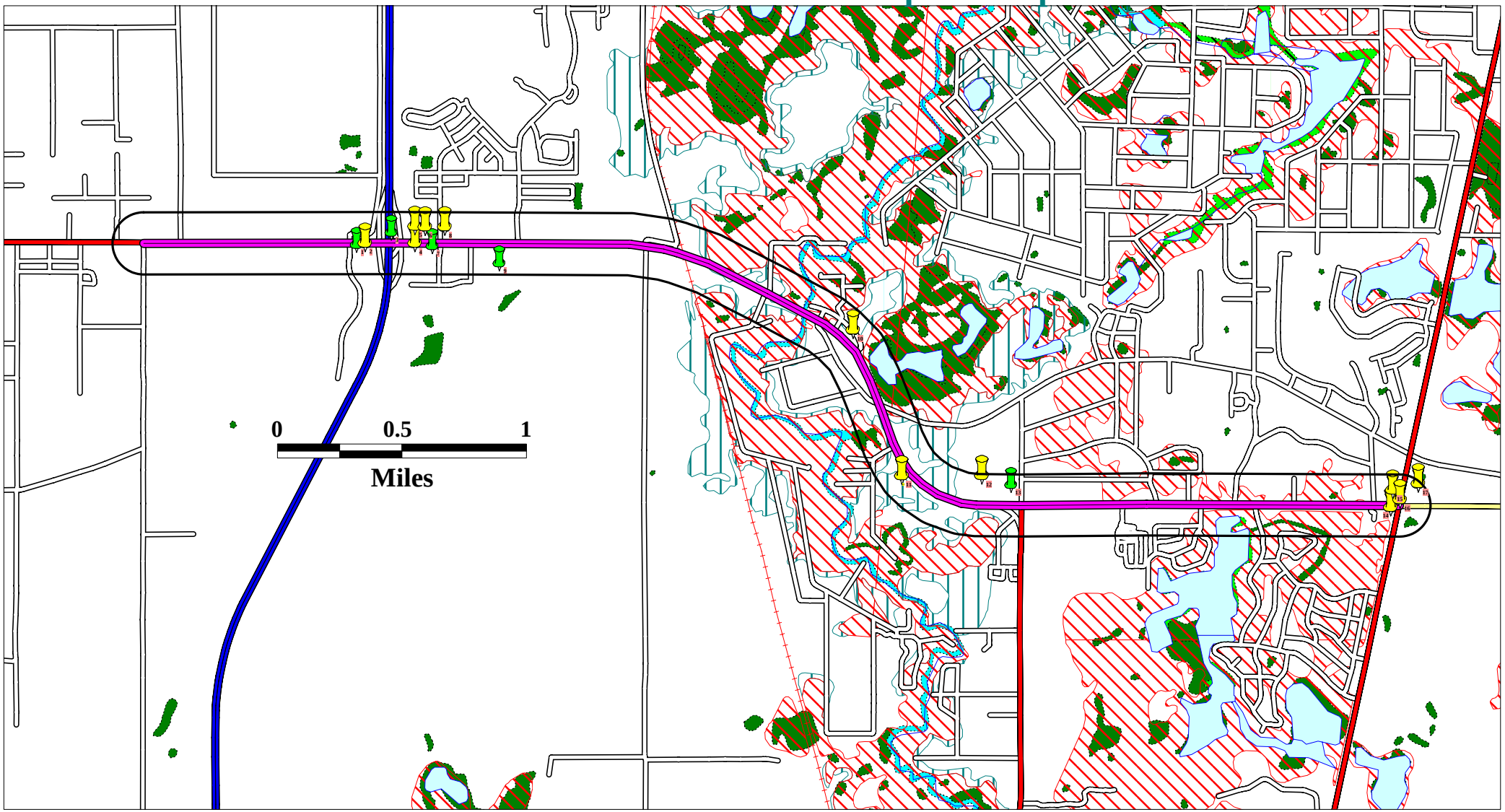
NPL, STNPL, CORRACTS & TSD sites

CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

EDM

Standard 1/8 mile Research
NWI Wetlands & FEMA Floodplain Map



Source: USGS Digital Raster Graphic (DRG)

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

Subject Corridor

NPL, STNPL, CORRACTS & TSD sites

CERCLIS, NFRAP, STCERC, SLDWST, LUST, BRWNFLDS, VOLCLNUP & DRY sites

ERNS, NONTSD, TANKS & INSTENG sites

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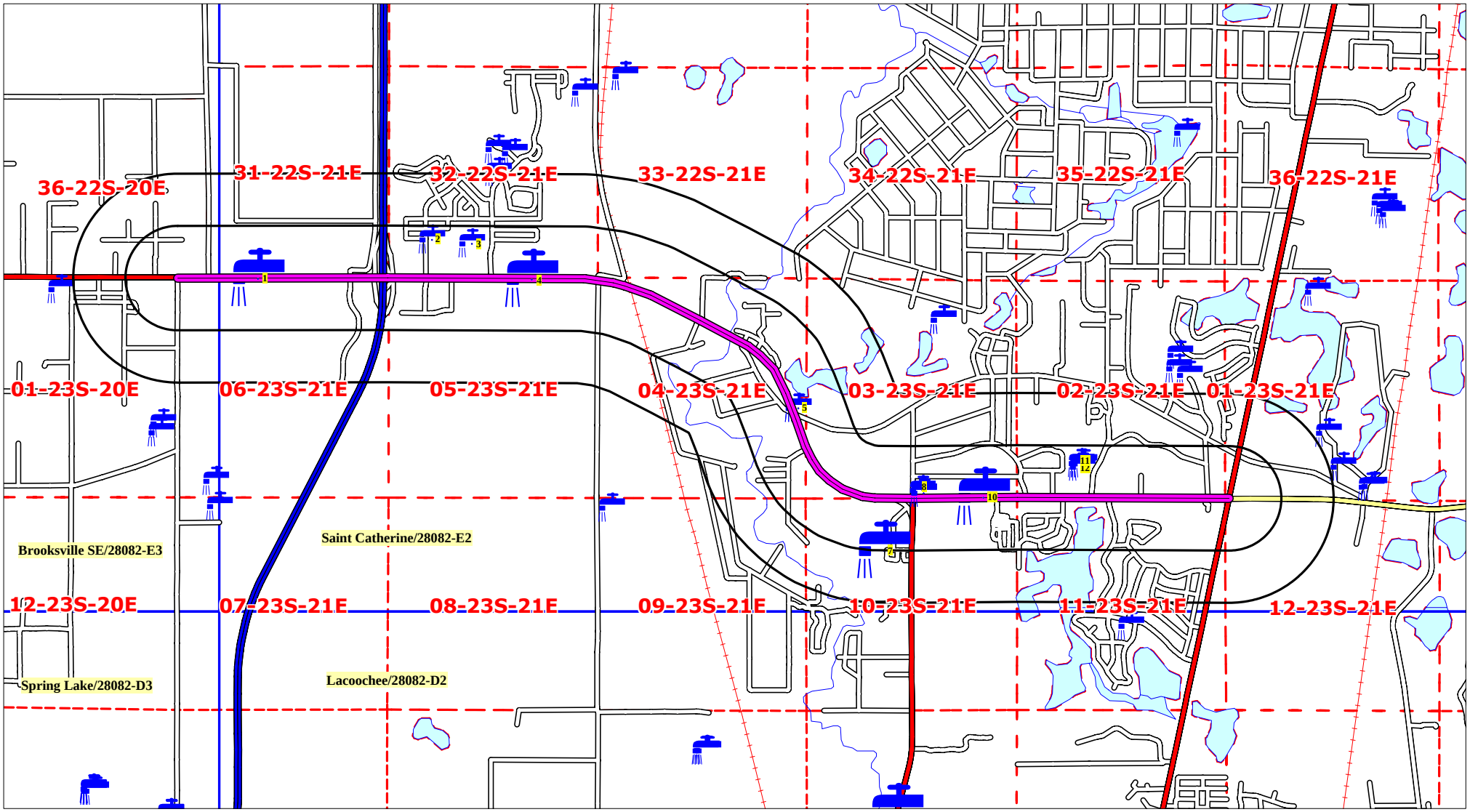
Well Location Map



Source: 2006 US Census Bureau TIGER Files,1995 USGS PLSS, 1997 USGS Contour Data
2005-2007 Florida Water Management District Data, 2007 FDEP Drinking Water Section Public Water System Data

Map Scale and Site Locations are Approximate

Subject Property

SR 50 SEIR Study
Lockhart Road to US Hwy 301
Hernando, Florida

EDM Job No: 20866
March 21, 2011

Name/12345-A1
USGS Quad Boundary

1234S56E
Section Township Range

Water Mgt Districe Site

Public Water System Location

Subject Corridor

Centroid Latitude: 28° 30' 55.7244"
Centroid Longitude: -82° 12' 42.5664"

USGS Quad: Saint Catherine/28082-E2 and Brooksville SE/28082-E3

FDEP DRINKING WATER PROGRAM
PUBLIC WATER SUPPLY BASIC FACILITY REPORT
(FLPWS)

PWS NUMBER, NAME AND LOCATION:

6274624
SUNRISE FOOD MART #12
30328 CORTEZ BLVD NA
BROOKSVILLE, FL 34602

CONTACT INFORMATION:

RAJENDRA SHAH
402 HIGHPOINT DR. STE 201
COCOA, FL 32926
Contact: JIM FERULLO
Contact Tel: (321)690-0807

MAP ID NUMBER: 1

SYSTEM TYPE: NONCOMMUNITY
POP SRVD: 25
SVC CON: 1
SELLS TO POP: 0
PLT CNT: 1
SOURCE TYPE:
DESIGN CAP: 1
SRC CNT:
OWNER TYPE: INVESTOR

FLPWS

PWS NUMBER, NAME AND LOCATION:

6277062
HILLSIDE BAPTIST CHURCH
27440 CORTEZ BLVD NA
BROOKSVILLE, FL 34602

CONTACT INFORMATION:

REV. JOE SANTERELLI
27440 CORTEZ BLVD.
BROOKSVILLE, FL 34602
Contact: BRANDY PALLAY
Contact Tel: (352)799-0687

MAP ID NUMBER: 4

SYSTEM TYPE: NONCOMMUNITY
POP SRVD: 25
SVC CON: 1
SELLS TO POP: 0
PLT CNT: 1
SOURCE TYPE:
DESIGN CAP: 1920
SRC CNT:
OWNER TYPE: INVESTOR

FLPWS

PWS NUMBER, NAME AND LOCATION:

6271281
OAK MANOR MOBILE RANCH
33194 MAUMEE TRACK NA
DADE CITY, FL 33523

CONTACT INFORMATION:

HAROLD BROWN
33194 MAUMEE TRACK
DADE CITY, FL 33523
Contact: HAROLD BROWN
Contact Tel: (352)583-5199

MAP ID NUMBER: 7

SYSTEM TYPE: NONCOMMUNITY
POP SRVD: 42
SVC CON: 21
SELLS TO POP: 0
PLT CNT: 1
SOURCE TYPE:
DESIGN CAP: 79000
SRC CNT:
OWNER TYPE: INVESTOR

FLPWS

PWS NUMBER, NAME AND LOCATION:

6271505
RIDGE MANOR CAMPGROUND
33456 CORTEZ BLVD NA
RIDGE MANOR, FL 33523

CONTACT INFORMATION:

ALISON WINTERROTH
33456 CORTEZ BLVD
DADE CITY, FL 33523
Contact: ALISON WINTERROTH
Contact Tel: (352)583-2737

MAP ID NUMBER: 10

SYSTEM TYPE: NONTRANSIENT NONCOMMUNITY
POP SRVD: 95
SVC CON: 97
SELLS TO POP: 0
PLT CNT: 1
SOURCE TYPE:
DESIGN CAP: 1
SRC CNT:
OWNER TYPE: INVESTOR

FLPWS

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WATER MANAGEMENT DISTRICT WELL DATA

(SWFWMD)

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

5789
HERNANDO CO UTILITIES DEPT
21030 CORTEZ BLVD
BROOKSVILLE, FL 34601

WELL LOCATION:
SECTION: 32
TOWNSHIP: 22
RANGE: 21
PERMITTEE TEL: 352 7544037
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 2
Dist (Miles):
Direction:

SWFWMD

PROJECT NAME: EAST HERNANDO CO WATER SYSTEM
PERMIT PREDOMINANT USE: PUBLIC SUPPLY
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 6240.97
DAILY AVERAGE PERMITTED QUANTITY(gal): 3817600

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 5

WITHDRAWAL TYPE:
WELL DIA(in): 8
WELL CASING DEPTH(ft): 200
PREDOMINANT USE: PUBLIC SUPPLY
WELL STATUS: EXISTING
WELL TOTAL DEPTH(ft): 268
WELL USE: PUBLIC SUPPLY
WELL DAILY AVG QUANT(gal): 12000
AQUIFER: SURFICIAL

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

5789
HERNANDO CO UTILITIES DEPT
21030 CORTEZ BLVD
BROOKSVILLE, FL 34601

WELL LOCATION:
SECTION: 32
TOWNSHIP: 22
RANGE: 21
PERMITTEE TEL: 352 7544037
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 3
Dist (Miles):
Direction:

SWFWMD

PROJECT NAME: EAST HERNANDO CO WATER SYSTEM
PERMIT PREDOMINANT USE: PUBLIC SUPPLY
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 6240.97
DAILY AVERAGE PERMITTED QUANTITY(gal): 3817600

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 4

WITHDRAWAL TYPE:
WELL DIA(in): 16
WELL CASING DEPTH(ft): 202
PREDOMINANT USE: PUBLIC SUPPLY
WELL STATUS: EXISTING
WELL TOTAL DEPTH(ft): 602
WELL USE: PUBLIC SUPPLY
WELL DAILY AVG QUANT(gal): 957134
AQUIFER: INTERMEDIATE

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

5789
HERNANDO CO UTILITIES DEPT
21030 CORTEZ BLVD
BROOKSVILLE, FL 34601

WELL LOCATION:
SECTION:
TOWNSHIP:
RANGE:
PERMITTEE TEL: 352 7544037
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 5
Dist (Miles):
Direction:

SWFWMD

PROJECT NAME: EAST HERNANDO CO WATER SYSTEM
PERMIT PREDOMINANT USE: PUBLIC SUPPLY
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 6240.97
DAILY AVERAGE PERMITTED QUANTITY(gal): 3817600

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 23

WITHDRAWAL TYPE: Monitor
WELL DIA(in): 2
WELL CASING DEPTH(ft): 0
PREDOMINANT USE: PUBLIC SUPPLY
WELL STATUS: Existing
WELL TOTAL DEPTH(ft): 0
WELL USE:
WELL DAILY AVG QUANT(gal): 0
AQUIFER:

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

5789
HERNANDO CO UTILITIES DEPT
21030 CORTEZ BLVD
BROOKSVILLE, FL 34601

WELL LOCATION:
SECTION:
TOWNSHIP:
RANGE:
PERMITTEE TEL: 352 7544037
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 6
Dist (Miles):
Direction:

SWFWMD

PROJECT NAME: EAST HERNANDO CO WATER SYSTEM
PERMIT PREDOMINANT USE: PUBLIC SUPPLY
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 6240.97
DAILY AVERAGE PERMITTED QUANTITY(gal): 3817600

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 22

WITHDRAWAL TYPE: Monitor
WELL DIA(in): 0
WELL CASING DEPTH(ft): 0
PREDOMINANT USE: PUBLIC SUPPLY
WELL STATUS: Existing
WELL TOTAL DEPTH(ft): 0
WELL USE:
WELL DAILY AVG QUANT(gal): 0
AQUIFER:

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

5789
HERNANDO CO UTILITIES DEPT
21030 CORTEZ BLVD
BROOKSVILLE, FL 34601

WELL LOCATION:
SECTION: 3
TOWNSHIP: 23
RANGE: 21
PERMITTEE TEL: 352 7544037
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 8
Dist (Miles):
Direction:

SWFWMD

PROJECT NAME: EAST HERNANDO CO WATER SYSTEM
PERMIT PREDOMINANT USE: PUBLIC SUPPLY
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 6240.97
DAILY AVERAGE PERMITTED QUANTITY(gal): 3817600

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 3

WITHDRAWAL TYPE:
WELL DIA(in): 8
WELL CASING DEPTH(ft): 46
PREDOMINANT USE: PUBLIC SUPPLY
WELL STATUS: CAPPED
WELL TOTAL DEPTH(ft): 125
WELL USE: PUBLIC SUPPLY
WELL DAILY AVG QUANT(gal): 0
AQUIFER: FLORIDAN

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WATER MANAGEMENT DISTRICT WELL DATA

(SWFWMD)

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

5789
HERNANDO CO UTILITIES DEPT
21030 CORTEZ BLVD
BROOKSVILLE, FL 34601

WELL LOCATION:
SECTION: 3
TOWNSHIP: 23
RANGE: 21
PERMITTEE TEL: 352 7544037
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 9
Dist (Miles):
Direction:
SWFWMD

PROJECT NAME: EAST HERNANDO CO WATER SYSTEM
PERMIT PREDOMINANT USE: PUBLIC SUPPLY
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 6240.97
DAILY AVERAGE PERMITTED QUANTITY(gal): 3817600

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 2

WITHDRAWAL TYPE:
WELL DIA(in): 8
WELL CASING DEPTH(ft): 46
PREDOMINANT USE: PUBLIC SUPPLY
WELL STATUS: EXISTING
WELL TOTAL DEPTH(ft): 125
WELL USE: PUBLIC SUPPLY
WELL DAILY AVG QUANT(gal): 200000
AQUIFER:

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

7822
E R JAHNA INDUSTRIES INC
PO DRAWER 840
LAKE WALES, FL 338590840

WELL LOCATION:
SECTION:
TOWNSHIP:
RANGE:
PERMITTEE TEL: 863 6769431
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 11
Dist (Miles):
Direction:
SWFWMD

PROJECT NAME: ER JAHNA INDUSTRIES
PERMIT PREDOMINANT USE: MINING AND DEWATERING
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 700
DAILY AVERAGE PERMITTED QUANTITY(gal): 36000

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 9

WITHDRAWAL TYPE: Monitor
WELL DIA(in): 4
WELL CASING DEPTH(ft): 41
PREDOMINANT USE: MINING AND DEWATERING
WELL STATUS: Proposed
WELL TOTAL DEPTH(ft): 61
WELL USE:
WELL DAILY AVG QUANT(gal): 0
AQUIFER:

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

8891
FRANKLIN & FAYE DIXON
156 CR 542 E
BUSHNELL, FL 33513

WELL LOCATION:
SECTION:
TOWNSHIP:
RANGE:
PERMITTEE TEL: 352 7933504
PERMIT COUNTY: SUMTER

MAP ID NUMBER: 12
Dist (Miles):
Direction:
SWFWMD

PROJECT NAME: FLORIDA CRUSHED STONE- ST CATHERINE MINE
PERMIT PREDOMINANT USE: MINING AND DEWATERING
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 1467
DAILY AVERAGE PERMITTED QUANTITY(gal): 106650

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 88

WITHDRAWAL TYPE: Monitor
WELL DIA(in): 0
WELL CASING DEPTH(ft): 0
PREDOMINANT USE: MINING AND DEWATERING
WELL STATUS: Existing
WELL TOTAL DEPTH(ft): 0
WELL USE:
WELL DAILY AVG QUANT(gal): 0
AQUIFER:

PERMIT NUMBER,PERMITEE NAME AND ADDRESS:

7822
E R JAHNA INDUSTRIES INC
PO DRAWER 840
LAKE WALES, FL 338590840

WELL LOCATION:
SECTION:
TOWNSHIP:
RANGE:
PERMITTEE TEL: 863 6769431
PERMIT COUNTY: HERNANDO

MAP ID NUMBER: 13
Dist (Miles):
Direction:
SWFWMD

PROJECT NAME: ER JAHNA INDUSTRIES
PERMIT PREDOMINANT USE: MINING AND DEWATERING
WATER USE CAUTION AREA: NOT IN A WUCA
PERMIT BASIN_NAME: WITHLACOOCHEE RIVER
TOTAL ACREAGE FOR PERMIT: 700
DAILY AVERAGE PERMITTED QUANTITY(gal): 36000

WATER USE WITHDRAWAL NO / DISTRICT ID NO: 10

WITHDRAWAL TYPE: Monitor
WELL DIA(in): 8
WELL CASING DEPTH(ft): 135
PREDOMINANT USE: MINING AND DEWATERING
WELL STATUS: Proposed
WELL TOTAL DEPTH(ft): 205
WELL USE:
WELL DAILY AVG QUANT(gal): 0
AQUIFER:

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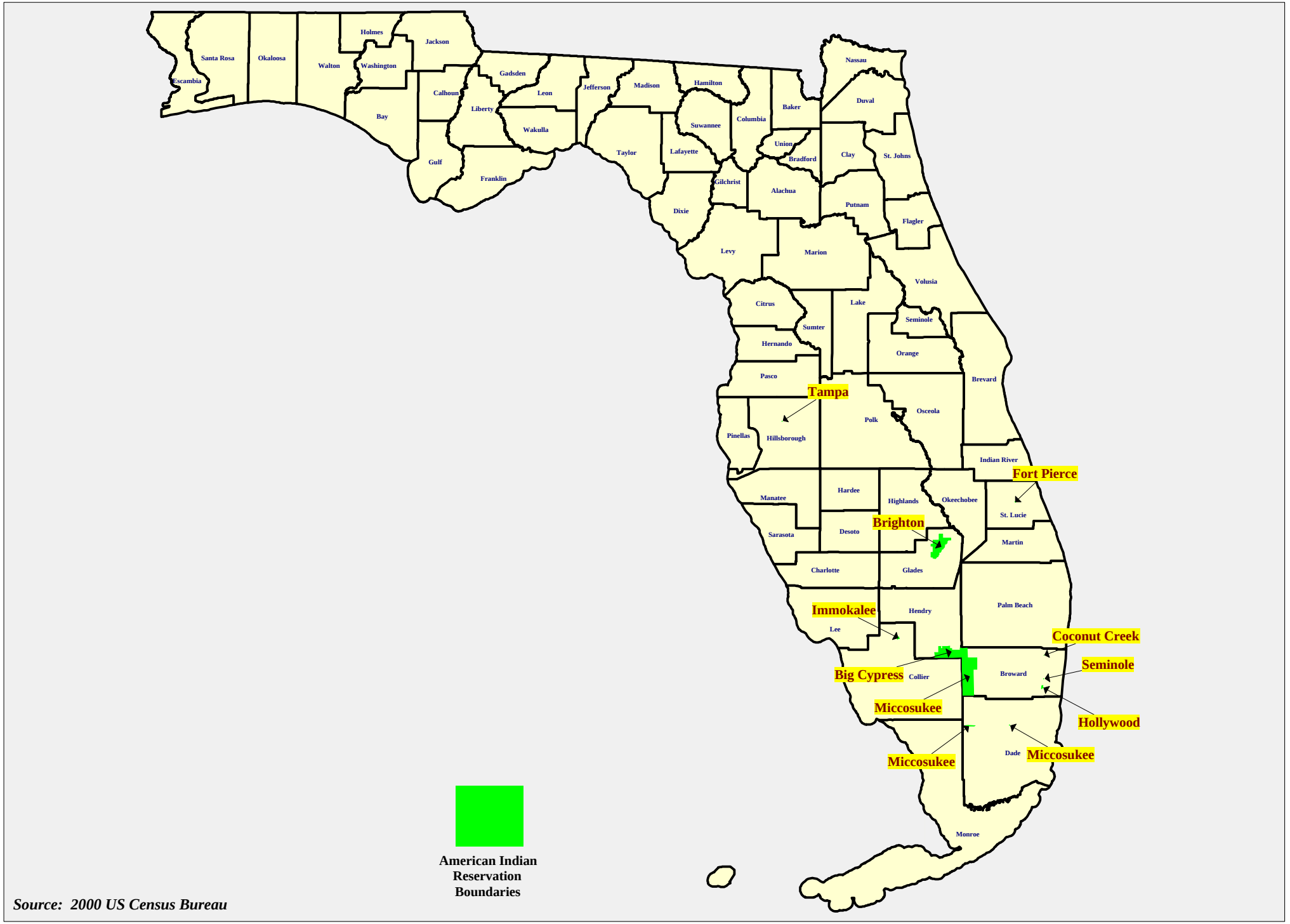
American Indian Reservations
State of Florida



Source: 2000 US Census Bureau

American Indian Lands in Florida

Name	Entity	County	General Location Information	Approx. Area (Acres)
Tampa Reservation	Seminole Tribe of Florida	Hillsborough	I-4 & Hillsborough Avenue	42
Fort Pierce Reservation	Seminole Tribe of Florida	Saint Lucie	Okeechobee Rd & Eleven Mile Rd	54
Brighton Reservation	Seminole Tribe of Florida	Glades	N of CR 721 & SR 78	36,630
Immokalee Reservation	Seminole Tribe of Florida	Collier	N of CR 846 & Stockade Rd	660
Big Cypress Reservation	Seminole Tribe of Florida	Hendry/Broward	CR 833 & BIA Hwy 182	52,750
Miccosukee Reservation	Miccosukee Tribe of Florida	Broward	I-75 & Government Rd	81,440
Miccosukee Reservation	Miccosukee Tribe of Florida	Dade	SW 8th St & Loop Rd	750
Miccosukee Reservation	Miccosukee Tribe of Florida	Dade	SW 177th Ave & SW 8th St	56
Holly (Dania) Reservation	Seminole Tribe of Florida	Broward	Stirling Rd & Florida's turnpike	560
Coconut Creek Reservation	Seminole Tribe of Florida	Broward	US 441 & NW 40th St	6
Seminole Trust Land	Seminole Tribe of Florida	Broward	US 441 & Davie Blvd	1

Florida Tribal Contacts

Entity	Contact	Tel/Fac	Source
Miccosukee Tribe of Florida	**Billy Cypress** Tribal Chairman Miccosukee Tribe of Indians of Florida iPost Office Box 440021 Miami, Florida 33144 County: Dade	Phone: (305) 223-8380 Facsimile: (305) 223-1011	EPA Reg IV Tribal Contacts
Miccosukee Tribe of Florida	**Steve Terry** Land Resources Manager Miccosukee Tribe of Indians of Florida Post Office Box 440021 Miami, Florida 33144 E-Mail:esoterry@shadow.net	Phone:(305) 223-8380 Facsimile: (305) 223-1011	EPA Reg IV Tribal Contacts
Miccosukee Tribe of Florida	**Billy Cypress** Chairman Miccosukee Indian Tribe Tamiami Station PO Box 440021 Miami, Florida 33144	Phone: (305) 223-8380 Facsimile: (305) 223-1011	US DOI - BIA Tribal Leaders Directory
Seminole Tribe of Florida	**Mitchell Cypress** Tribal Chairman Seminole Tribe of Florida 6300 Stirling Road Hollywood, Florida 33024 County: Broward	Phone: (954) 967-3900 Facsimile: (954) 967-3486	EPA Reg IV Tribal Contacts
Seminole Tribe of Florida	**Craig T. Tepper**, Director Water Resource Management Department Seminole Tribe of Florida 6300 Stirling Road Hollywood, Florida 33024 County: Broward E-Mail:water@gate.net	Phone: (954) 966-6300, extension 1120 Facsimile: (954) 967-3489	EPA Reg IV Tribal Contacts
Seminole Tribe of Florida	**Susie Kippenberger**, Director Utilities Department Seminole Tribe of Florida 6300 Stirling Road Hollywood, Florida 33024 County: Broward E-Mail:susiek@semtribe.com	Phone: (954) 966-3475 Facsimile: (954) 967-3475	EPA Reg IV Tribal Contacts
Seminole Tribe of Florida	**Mitchell Cypress** Chairman Seminole Indian Tribe 6300 Stirling Road Hollywood, Florida 33024 http://www.seminoletribe.com/	Phone: (954) 966-6300 Facsimile: (954) 967-3463	US DOI - BIA Tribal Leaders Directory
Seminole Tribe of Florida	**Joe Frank, Acting Superintendent** Seminole Agency Bureau of Indian Affairs 6100 Hollywood Blvd, Suite 206 Hollywood, FL 33024	Phone: (954) 983-1537 Facsimile: (954) 983-5018	US DOI - BIA Tribal Leaders Directory

Agency List Descriptions

USEPA and State Databases are updated on a quarterly basis. Supplemental Databases are updated on an annual basis.

US Environmental Protection Agency (USEPA)

Comprehensive Env Response, Compensation & Liability Information System List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) is the Superfund database used to track facilities and/or locations that the USEPA is investigating to determine if an existing or threatened release of hazardous substances is present.

Agency File Date: 12/28/2010 **Received by EDM:** 1/4/2011 **EDM Database Updated:** 1/5/2011

RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity. This information is compiled by the EPA Regional and State RCRA program personnel, as well as the RCRA facilities themselves.

Agency File Date: 1/11/2011 **Received by EDM:** 1/14/2011 **EDM Database Updated:** 1/14/2011

Emergency Response Notification System List(ERNS)

The Emergency Response Notification System (ERNS) database stores information on oil discharges and hazardous substance releases. The ERNS program is a cooperative data sharing effort among the EPA, DOT and the National Response Center (NRC), which currently provides access to this data.

Agency File Date: 1/21/2010 **Received by EDM:** 12/9/2010 **EDM Database Updated:** 12/9/2010

Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site.

Agency File Date: 1/10/2011 **Received by EDM:** 1/10/2011 **EDM Database Updated:** 1/10/2011

RCRA-LQG,SQG,CESQG and Transporters(NONTSD)

The EDM NONTSD list is a subset of the US EPA RCRAInfo System and identifies facilities that generate and transport hazardous wastes. These facilities may be Large Quantity Generators (LQG), Small Quantity Generators (SQG), Conditionally Exempt SQG's (CESQG) as well as" Non-Notifiers" and "Non-Handlers".

Agency File Date: 1/11/2011 **Received by EDM:** 1/13/2011 **EDM Database Updated:** 1/14/2011

National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities. In addition to sites that are currently on the EPA NPL, the EDM database contatains sites that have been Proposed for and Deleted from the list.

Agency File Date: 12/6/2010 **Received by EDM:** 12/6/2010 **EDM Database Updated:** 12/6/2010

Tribal Lust List(TRIBLLUST)

EDM's Tribal LUST list is derived from the USEPA Region IV Tribal Tanks database by extracting those sites with indicators of past and/or current releases.

Agency File Date: 2/24/2010 **Received by EDM:** 3/9/2010 **EDM Database Updated:** 3/9/2010

Tribal Tanks List(TRIBLTANKS)

The USEPA Region IV Tribal Tanks database lists Active and Closed storage tank facilities on Native American lands.

Agency File Date: 2/24/2010 **Received by EDM:** 3/9/2010 **EDM Database Updated:** 3/9/2010

RCRA-Treatment, Storage and/or Disposal Sites(TSD)

The EDM TSD list is a subset of the US EPA RCRAInfo system and identifies facilities that Treat, Store and/or Dispose of hazardous waste.

Agency File Date: 1/11/2011 **Received by EDM:** 1/13/2011 **EDM Database Updated:** 1/14/2011

Brownfields Management System(USBRWNFLDS)

The US EPA Brownfields program provides information on environmentally distressed properties that have received Grants or Targeted funding for cleanup and redevelopment . Tribal Brownfield sites are included in the USBRWNFLDS database.

Agency File Date: 1/10/2011 **Received by EDM:** 1/10/2011 **EDM Database Updated:** 1/12/2011

US Institutional and/or Engineering Controls(USINSTENG)

The USINSTENG list is compiled from data elements contained in the NPL, CORRACTS and USBRWNFLDS lists.

Agency File Date: 1/10/2011 **Received by EDM:** 1/10/2011 **EDM Database Updated:** 1/12/2011

Florida Department of Environmental Protection (FDEP)

State Designated Brownfields(BRWNFLDS)

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas. Brownfields areas are typically abandoned, idled or underused industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 1/27/2011 **Received by EDM:** 1/27/2011 **EDM Database Updated:** 1/27/2011

State Dry Cleaners List(DRY)

The Florida Dry Cleaners List is comprised of data from the FDEP Storage Tank and Contamination Monitoring (STCM) database and the Drycleaning Solvent Cleanup Program- Priority Ranking List. It contains a listing of those Dry Cleaner sites (and suspected historical Dry Cleaning sites) who have registered with the FDEP and/or for the Dry Cleaning Solvent Cleanup Program.

Agency File Date: 12/2/2010 **Received by EDM:** 12/14/2010 **EDM Database Updated:** 12/14/2010

State Institutional and/or Engineering Controls(INSTENG)

The FDEP INSTENG list contains sites that have had Institutional and/or Engineering Controls implemented to regulate exposure to environmental hazards

Agency File Date: 2/7/2011 **Received by EDM:** 2/7/2011 **EDM Database Updated:** 2/8/2011

Leaking Underground Storage Tanks List(LUST)

The FDEP LUST list identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database (STCM).

Agency File Date: 11/2/2010 **Received by EDM:** 11/10/2010 **EDM Database Updated:** 11/11/2010

Solid Waste Facilities List(SLDWST)

The FDEP SLDWST identifies locations that have been permitted to conduct solid waste handling activities including Landfills, Transfer Stations and sites handling Bio-Hazardous wastes. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 12/14/2010 **Received by EDM:** 12/14/2010 **EDM Database Updated:** 12/14/2010

State CERCLIS Equivalent(STCERC)

The STCERC is a historical listing of sites that the Florida Department of Environmental Regulation (FDER) compiled to track suspect contamination sites. This list was known as the Florida SITES list and was last updated by the FDER in 1989.

Agency File Date: 12/1/1989 **Received by EDM:** 4/1/1995 **EDM Database Updated:** 4/25/1995

State NPL Equivalent(STNPL)

The FDEP SFAS list contains facilities and/or locations that have been identified by the FDEP as having known environmental contamination and are currently being addressed through State funded cleanup action.

Agency File Date: 12/29/2010 **Received by EDM:** 1/3/2011 **EDM Database Updated:** 1/3/2011

Underground/Aboveground Storage Tanks(TANKS)

The FDEP TANKS list contains sites with registered aboveground and/or underground storage tanks containing regulated petroleum products. Please refer to the "Explanation of Florida Tank Codes" insert to interpret tank construction, monitoring and piping codes.

Agency File Date: 12/3/2010 **Received by EDM:** 12/27/2010 **EDM Database Updated:** 12/29/2010

State Voluntary Cleanup List(VOLCLNUP)

The VOLCLNUP List is derived from the FDEP Brownfields Site Rehabilitation Agreement (BSRA) database and the FDEP Office of Waste Cleanup Responsible Party Sites database. This list identifies those sites that have signed an agreement to Voluntarily cleanup a Brownfields site and/or sites where legal responsibility for site rehabilitation exist pursuant to Florida Statutes and is being conducted either voluntarily or pursuant to enforcement activity in accordance with FDEP requirements.

Agency File Date: 1/27/2011 **Received by EDM:** 1/27/2011 **EDM Database Updated:** 1/27/2011

EXPLANATION OF FLORIDA TANK CODES

CONSTRUCTION TYPE CODES

A = BALL CHECK VALVE
B = INTERNAL LINING
C = STEEL
D = UNKNOWN
E = FIBERGLASS
F = FIBERGLASS-CLAD STEEL
G = CATHODIC PROTECTION-SACRIFICIAL ANODE
H = CATHODIC PROTECTION -IMPRESSED CURRENT
I = DBL WALL/SINGLE MATERIAL
J = SYNTHETIC LINER IN TANK EXCAVATION
K = AST CONTAINMENT: CONCRETE /SYNTHETIC MATERIAL AREA
L = COMPARTMENTED
M = SPILL CONTAINMENT BUCKET
N = FLOW SHUT OFF
O = TIGHT FILL
P = LEVEL GAUGES, HI LEVEL ALARMS
Q = OTHER DER APPROVED PROTECTION METHOD
R = DBL WALL/DUAL MATERIAL/ (TANK "JACKET")
S = OTHER DEP APPROVED SECONDARY CONTAINTMENT SYSTEM
T = SMALL USE TANK
U = FIELD ERECTED TANK
V = PIPELESS UST W/SECONDARY CONTAINMENT
W = BUILT ON SUPPORTS
X = CONCRETE
Y = POLYETHYLENE
Z = OTHER DEP APPROVED TANK MATERIAL

PIPING TYPE CODES

A = ABOVE GROUND-NO CONTACT W/SOIL
B = STEEL OR GALVANIZED METAL
C = FIBERGLASS
D = EXTERNAL PROTECTIVE COATING
E = CATHODIC PROTECTION (SACRIFICIAL ANODE/IMPRESSED CURRENT)
F = DBLWALL/SINGLE MATERIAL
G = SYNTHETIC OR BOX/TRENCH LINER
H = AIRPORT/SEAPORT HYDRANT SYSTEM
I = SUCTION PIPING SYSTEM
J = PRESSURIZED PIPING SYSTEM
K = DISPENSER LINERS
L = BULK PRODUCT SYSTEM
M = DOUBLE WALL / DUAL MATERIAL (PIPE "JACKET")
N = APPROVED SYNTHETIC MATERIAL
O = SEVERE VIOLATION
P = INTERNAL PIPING WITHIN INTERNAL SUMP RISER
V = VIOLATION
X = NO PIPING ASOCIATED WITH TANK
Y = UNKNOWN
Z = OTHER DEP APPROVED PIPING MATERIAL

LEAK MONITORING CODES

1 = CONTINUOUS ELECTRONIC SENSING EQUIPMENT
2 = VISUAL INSPECTIONS OF PIPING SUMPS
3 = ELECTRONIC MONITORING OF PIPING SUMPS
4 = VISUAL INSPECTIONS OF DISPENSING LINERS
5 = ELECTRONIC MONITORING OF DISPENSER LINERS
6 = EXTERNAL PIPING MONITORING
7 = AUTOMATICALLY SAMPLED WELLS
8 = MANUALLY SAMPLED WELLS
A = SITE SUITABILITY PLAN
B = SITE SUITABILITY PLAN EXEMPTION
C = GROUNDWATER MONITOR PLAN
D = SPCC PLAN
E = INTERSTITIAL MONITORING UST LINERS
F = INTERSTITIAL SPACE-DOUBLE WALL TANK
G = ELECTRONIC LINE LEAK DETECTOR W/FLOW SHUTOFF
H = MECHANICAL LINE LEAK DETECTOR
I = NOT REQUIRED-SEE RULE FOR EXEMPTIONS
J = INTERSTITIAL MONITORING-PIPING LINER
K = INTERSTITIAL MONITORING- DOUBLE WALL PIPING
L = AUTOMATIC TANK GAUGING SYSTEM (USTS)
M = MANUAL TANK GAUGING SYSTEM (USTS)
N = GROUNDWATER MONITORING SYSTEM
O = VAPOR MONITORING SYSTEM
P = VAPOR MONITORING W/DILUTION PROCEDURES
Q = VISUAL INSPECTION OF AST SYSTEMS
R = INTERSTITIAL MONITORING OF TANK BOTTOM
S = STATISTICAL INVENTORY RECONCILIATION (SIR/USTS)
T = ANNUAL TIGHTNESS TEST WITH INVENTORY (UST)
U = BULK PIPING PRESSURE TEST
V = SUCTION PUMP CHECK VALVE
W = FIBER-OPTIC TECHNOLOGIES
X = NONE
Y = UNKNOWN
Z = OTHER DEP APPROVED MONITORING METHOD

Map Descriptions

Street Map

EDM's Street Maps are derived from the US Census Bureau's TIGER/Line database files. EDM customizes this data to display features such as roads/railroads, rivers, water bodies as well as legal and statistical geographic areas. Regulatory listed sites are geocoded as data points and overly the base map. Detailed information regarding sites found within the bounds of the search criteria are provided in the Detail Reports section.

Aerial Photograph

Digital Aerial Photographs are obtained from a variety of Federal, State and Local sources. EDM attempts to provide the most recent photographs available for the study area and considers factors including resolution, file size and accessibility in selecting the photograph to be used for each report.

Brownfields and Contaminated Areas Map

EDM's Brownfields and Contaminated Areas map displays the location of FDEP Designated Brownfields, USEPA NPL (Superfund) sites, FDEP State Funded Action Sites (State NPL equivalent), USDOD Formerly Used Defense Sites (FUDS) and FDEP Contaminated Groundwater Delineation* areas.

*The FDEP Groundwater Delineation Program was developed after studies, conducted in 1983, showed the presence of ethylene dibromide (EDB) in drinking water wells at various locations throughout the state. From 1962 to mid 1983 the Florida Department of Agriculture and Consumer Services conducted widespread field application of this soil fumigant (EDB) to control nematodes in citrus groves. EDB was also used by private citizens on golf courses and on crops such as peanuts and soybeans. Because of the EDB in drinking water wells, the 1988 Legislature directed the Department of Environmental Protection to implement water well construction and water testing standards within the area of these wells. In the years since, the FDEP has added areas of known groundwater contamination at NPL and STNPL sites

Topographic Map

EDM's Topographic Maps are derived from Digital Raster Graphic (DRG) data produced by the US Geological Survey (USGS) between 1995 and 1998. A DRG is a raster image created by scanning published paper Topographic maps on high-resolution scanners. To display these maps within our Geographic Information System (GIS), EDM strips the collar information from each image and assigns control points for matching the image to ground control coordinate values associated with our vector based Street Map data.

Historical Topographic Map

EDM's Historical Topographic Maps are obtained from the State of Florida's PALMM program as BitMap images. These images are not geo-referenced within our Geographic Information System (GIS), but are simply displayed as static maps of the area surrounding the Subject Property.

NWI Wetlands/FEMA Floodplain Map

EDM's NWI Wetland areas are derived from Digital Line Graph (DLG) data obtained from the US Fish and Wildlife Service (FWS) National Wetlands Inventory (NWI) program. This digital data was produce between 1988 and 1993 and is based upon the analysis and interpretaion of color-infrared aerial photography obtained between 1972 and 1984.

EDM's FEMA Floodplain areas are derived from FEMA Digital Q3 Flood Data produced in the md-1990's. The Q3 Flood Data were developed by scanning and vectorizing existing hardcopy Flood Insurance Rate Maps (FIRMs).

By no means should either of these map features be used as a sole source for the delineation of wetland and/or floodplain boundaries and should only be used to approximate the geographic location of these features .

Well Location Map

EDM's Well Location Map displays the location of drinking water wells and consumptive use water wells. Well data detail reports are provided for Public Water Supply wells up to 1/2 Mile from the Subject Property and Private Drinking Water wells that fall within a 1/4 Mile radius of the Subject Property.

The well data is obtained from the FDEP Public Water Supply (PWS) program, the various water management districts throughout the State of Florida and from the Florida Dept of Health (FDOH) SuperAct Drinking Water Well program.

American Indian Lands Map

EDM has obtained American Indian Reservation boundary files from the US Census Bureau and has presented them in a statewide reference map. General location and contact information is also presented in the Table accompanying this map.

APPENDIX C

CONTAMINATION SITE SHEETS

PRELIMINARY

AERIAL FLIGHT DATE: 2009

N

0 50 200

Feet

I-75 Design
(FPID 411011-2-52-01)

Hampton Inn

Best Western

Axis Power Sports

LA ROSE RD

970 975 980 985 990 995

98 50 700 CORTEZ BLVD

Burger King

NATURE COAST BLVD

A&Y Tires

1

Chevron/ Subway

2

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990 CENTERLINE OF CONSTRUCTION	PROPOSED L.A. ROW (BY OTHERS)	PROPOSED ROW	COUNTY-OWNED LAND
EXISTING L.A. ROW	PROPOSED ROW (BY OTHERS)	PROPOSED PAVEMENT/ WIDENING	WETLAND
EXISTING ROW	PROPOSED EASEMENT (BY OTHERS)	PROPOSED SIDEWALK	CONSERVATION LAND
EXISTING EASEMENT	PROPOSED TRAFFIC SIGNAL (BY OTHERS)	PROPOSED TRAFFIC SIGNAL	WITHLACOOCHEE STATE FOREST
PARCEL BOUNDARY			# POTENTIAL CONTAMINATION SITE

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

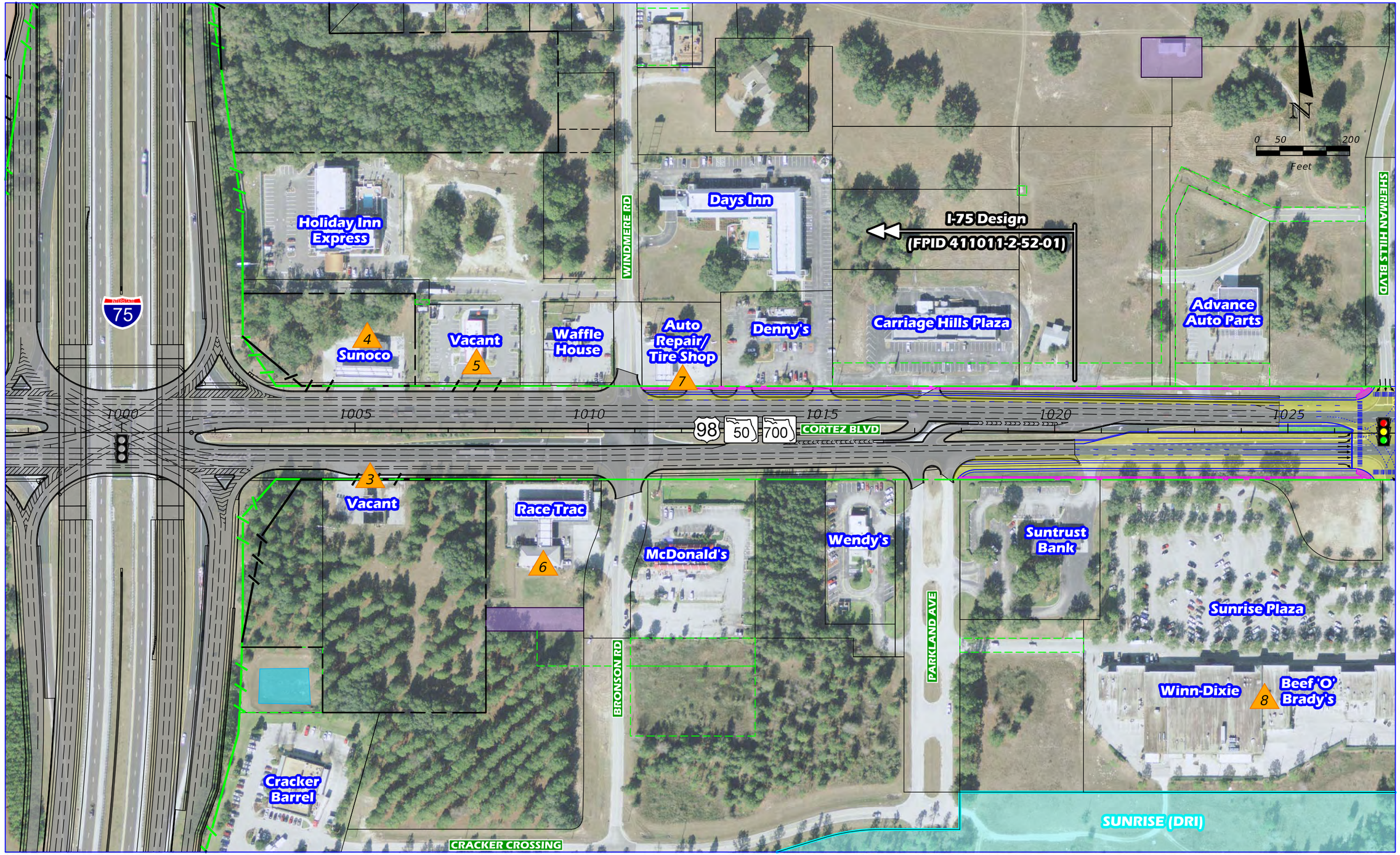
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 1

PRELIMINARY

AERIAL FLIGHT DATE: 2009



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990 CENTERLINE OF CONSTRUCTION
EXISTING L.A. ROW
EXISTING ROW
EXISTING EASEMENT
PARCEL BOUNDARY
PROPOSED L.A. ROW (BY OTHERS)
PROPOSED ROW (BY OTHERS)
PROPOSED EASEMENT (BY OTHERS)
PROPOSED TRAFFIC SIGNAL (BY OTHERS)
PROPOSED ROW
PROPOSED PAVEMENT / WIDENING
PROPOSED SIDEWALK
PROPOSED TRAFFIC SIGNAL
COUNTY-OWNED LAND
WETLAND
CONSERVATION LAND
WITHLACOOCHEE STATE FOREST
POTENTIAL CONTAMINATION SITE

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 2

PRELIMINARY

AERIAL FLIGHT DATE: 2009

WITHLACOOCHEE STATE FOREST

Sidewalk Connection to Withlacoochee State Trail

Frontage Road Improvements By Others

CROOM RITAL RD

9

1055 1060 1065 1070 1075 1080

98 50 700

CORTEZ BLVD

CURVE CL SR50-1

CURVE DATA CL SR50-1
PI STA. = 1060+22.34
Δ = 27° 29' 46" (RT)
D = 1° 00' 20"
T = 1,393.99
L = 2,734.26
R = 5,697.58
PC STA. = 1046+28.36
PT STA. = 1073+62.61

Kettering Rd/ Frontage Road Improvements By Others

KETTERING RD

WITHLACOOCHEE STATE TRAIL

Sidewalk Connection to Withlacoochee State Trail

AMELIA LN

CYRIL DR

100'

132'

122'

56'

0 50 200
Feet

N

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990 CENTERLINE OF CONSTRUCTION	PROPOSED L.A. ROW (BY OTHERS)	PROPOSED ROW	COUNTY-OWNED LAND
EXISTING L.A. ROW	PROPOSED ROW (BY OTHERS)	PROPOSED PAVEMENT / WIDENING	WETLAND
EXISTING ROW	PROPOSED EASEMENT (BY OTHERS)	PROPOSED SIDEWALK	CONSERVATION LAND
EXISTING EASEMENT	PROPOSED TRAFFIC SIGNAL (BY OTHERS)	PROPOSED TRAFFIC SIGNAL	WITHLACOOCHEE STATE FOREST
PARCEL BOUNDARY			# POTENTIAL CONTAMINATION SITE

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 3

PRELIMINARY

AERIAL FLIGHT DATE: 2009

CYPRESS LAKES PRESERVE

PAUL R STECKLE LN

Existing SMF

Hernando Co. Fire Station 22

10

CURVE DATA CL SR50-2
PI STA. = 1103+18.90
Δ = 41° 41' 29" (RT)
D = 2° 16' 43"
T = 957.46
L = 1,829.66
R = 2,514.48
PC STA. = 1093+61.44
PT STA. = 1111+91.11

CURVE CL SR50-2

AMELIA LN

CORTEZ BLVD

98 50 700

RIDGE MANOR BLVD

All In Ammo

599.82

236.55

1085 1090 1095 1100 1105 1110

122.56'

132.81'

100'

147.51'

89'

PC STA. 1093+61.44

Median Transition from 50' to 40'

Median Transition from 40' to 50'

Existing SMF

CYRIL DR

Withlacoochee River

MARCHMONT CIR

MARCHMONT CIR

0 50 200
Feet

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990 CENTERLINE OF CONSTRUCTION	PROPOSED L.A. ROW (BY OTHERS)	PROPOSED ROW	COUNTY-OWNED LAND
EXISTING L.A. ROW	PROPOSED ROW (BY OTHERS)	PROPOSED PAVEMENT/ WIDENING	WETLAND
EXISTING ROW	PROPOSED EASEMENT (BY OTHERS)	PROPOSED SIDEWALK	CONSERVATION LAND
EXISTING EASEMENT	PROPOSED TRAFFIC SIGNAL (BY OTHERS)	PROPOSED TRAFFIC SIGNAL	WITHLACOOCHEE STATE FOREST
PARCEL BOUNDARY			# POTENTIAL CONTAMINATION SITE

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 4

PRELIMINARY

AERIAL FLIGHT DATE: 2009

CYPRESS LAKES PRESERVE

CURVE DATA CL SR50-2
PI STA. = 1103+18.90
Δ = 41° 41' 29" (RT)
D = 2° 16' 43"
T = 957.46
L = 1,829.66
R = 2,514.48
PC STA. = 1093+61.44
PT STA. = 1111+91.11

RIDGE MANOR BLVD

CURVE CL SR50-2

Existing SMF

PT STA. 1111+91.11

PC STA. 1126+53.80

CORTEZ BLVD

98 50 700

CURVE CL SR50-3

OLIVET DR

East Hernando Transfer Station

11

MARCHMONT CIR

0 50 200
Feet

1110 1115 1120 1125 1130 1135

100' 100' 100' 100' 100'

1164' 1266.25' 1325.59' 1396.69'

CURVE DATA CL SR50-3
PI STA. = 1139+95.11
Δ = 69° 16' 06" (LT)
D = 2° 57' 02"
T = 1,341.31
L = 2,347.63
R = 1,941.86
PC STA. = 1126+53.80
PT STA. = 1150+01.43

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990 CENTERLINE OF CONSTRUCTION	PROPOSED L.A. ROW (BY OTHERS)	PROPOSED ROW	COUNTY-OWNED LAND
EXISTING L.A. ROW	PROPOSED ROW (BY OTHERS)	PROPOSED PAVEMENT / WIDENING	WETLAND
EXISTING ROW	PROPOSED EASEMENT (BY OTHERS)	PROPOSED SIDEWALK	CONSERVATION LAND
EXISTING EASEMENT	PROPOSED TRAFFIC SIGNAL (BY OTHERS)	PROPOSED TRAFFIC SIGNAL	WITHLACOOCHEE STATE FOREST
PARCEL BOUNDARY			# POTENTIAL CONTAMINATION SITE

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

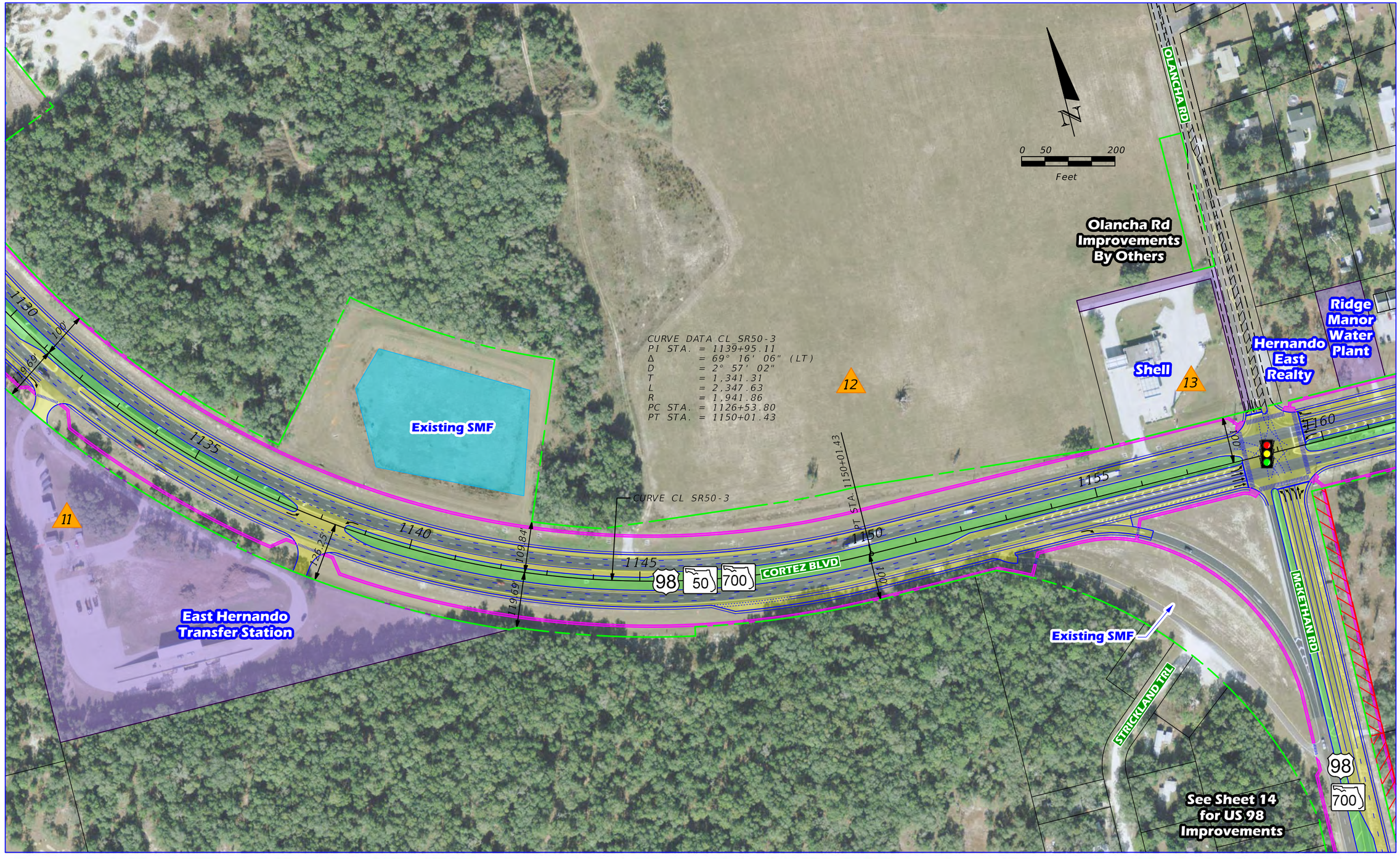
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 5

PRELIMINARY

AERIAL FLIGHT DATE: 2009



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990 CENTERLINE OF CONSTRUCTION	PROPOSED L.A. ROW (BY OTHERS)	PROPOSED ROW	COUNTY-OWNED LAND	
EXISTING L.A. ROW	PROPOSED ROW (BY OTHERS)	PROPOSED PAVEMENT / WIDENING	WETLAND	
EXISTING ROW	PROPOSED EASEMENT (BY OTHERS)	PROPOSED SIDEWALK	CONSERVATION LAND	
EXISTING EASEMENT	PROPOSED TRAFFIC SIGNAL (BY OTHERS)	PROPOSED TRAFFIC SIGNAL	WITHLACOOCHEE STATE FOREST	
PARCEL BOUNDARY			# POTENTIAL CONTAMINATION SITE	

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

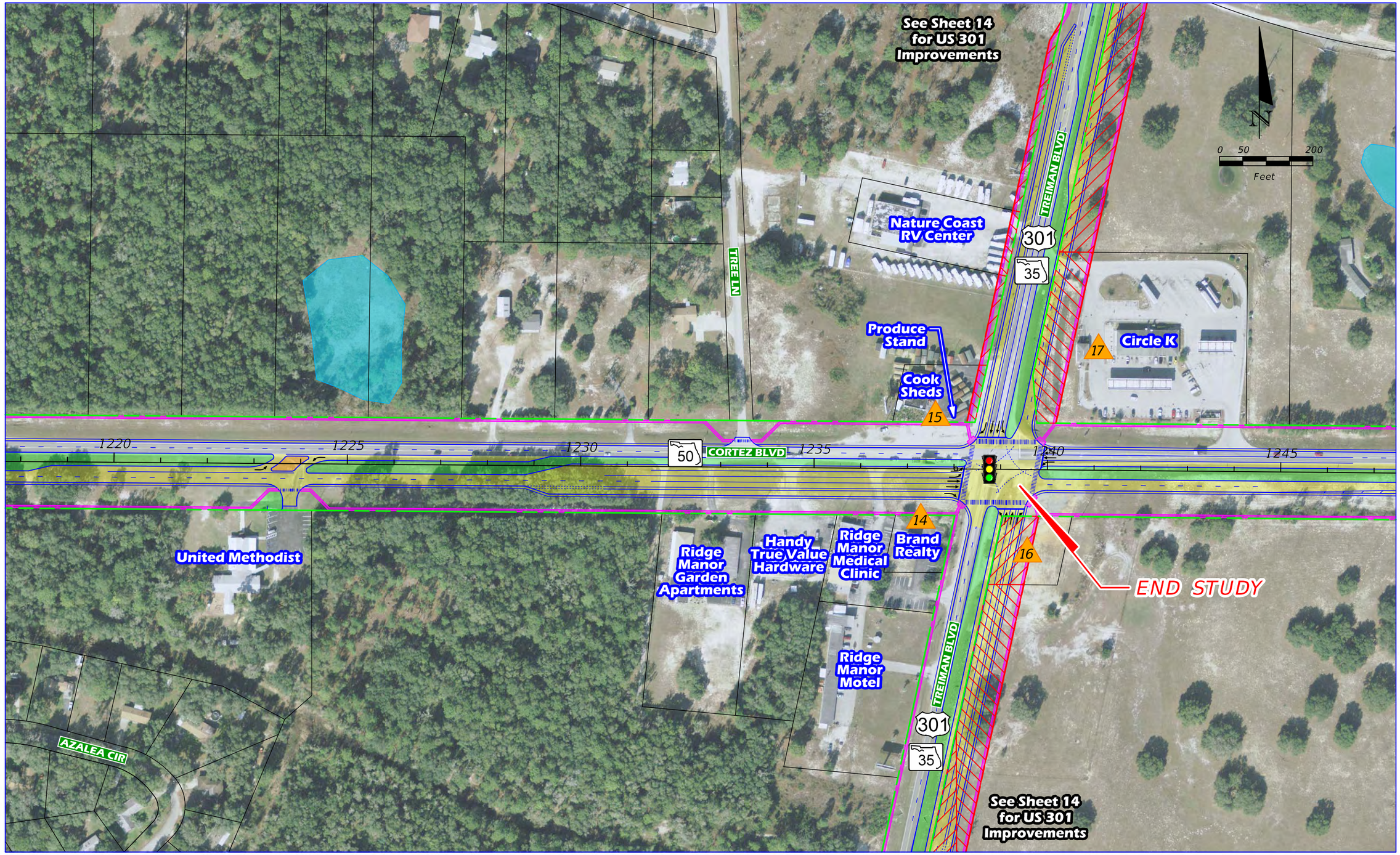
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 6

PRELIMINARY

AERIAL FLIGHT DATE: 2009



990 CENTERLINE OF CONSTRUCTION
EXISTING L.A. ROW
EXISTING ROW
EXISTING EASEMENT
PARCEL BOUNDARY
PROPOSED L.A. ROW (BY OTHERS)
PROPOSED ROW (BY OTHERS)
PROPOSED EASEMENT (BY OTHERS)
PROPOSED TRAFFIC SIGNAL (BY OTHERS)
PROPOSED ROW
PROPOSED PAVEMENT / WIDENING
PROPOSED SIDEWALK
PROPOSED TRAFFIC SIGNAL
COUNTY-OWNED LAND
WETLAND
CONSERVATION LAND
WITHLACOOCHEE STATE FOREST
POTENTIAL CONTAMINATION SITE

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD) FROM LOCKHART ROAD TO US 301 (TREIMAN BLVD)

SHEET NO. 7

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APPENDIX D

POTENTIAL CONTAMINATION SITE PHOTOGRAPHS

Photo #1: View of Site 1 from the northeast.

Photo #2: View of Site 2 from the northeast.

Photo #3: View of Site 3 from the northeast.

Photo #4: View of Site 4 from the southeast.

Photo #5: View of Site 5 from the southeast.

Photo #6: View of Site 6 from the northeast.

Photo #7: View of Site 7 from the southeast.

Photo #8: View of Site 8 from the north.

Photo #9: View of Site 9 from the east.

Photo #10: View of Site 10 from the east.

Photo #11: View of Site 11 from the northwest.

Photo #12: View of Site 12 from the south.

Photo #13: View of Site 13 from the east.

Photo #14: View of Site 14 from the northeast.

Photo #15: View of Site 15 from the east.

Photo #16: View of Site 16 from the west.

Photo #17: View of Site 17 from the south.

Photo #18: View of the stormwater pond/swale at Site 17.

APPENDIX E

FEMA FIRMETTES

MAP SCALE 1" = 500'

0 250 500 750 1,000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0219D

FIRM

FLOOD INSURANCE RATE MAP

HERNANDO COUNTY, FLORIDA

AND INCORPORATED AREAS

PANEL 219 OF 410

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	120110	0219	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12053C0219D

EFFECTIVE DATE
FEBRUARY 2, 2012

Federal Emergency Management Agency

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82°15'00"
^{378}000mE
^{379}000mE
°31'52.5"
JOINS PANEL 0236
^{56}000mN
T. 22 S.
T. 23 S.
312221
219
AI7321
AL7005
AL7004
7NF0280
ZONE AE
(EL 60.2)
ZONE AE
(EL 108.2)
7NF0310
ZONE AE
(EL 60.3)
ZONE A
7NF0350
75
7NF0305
ZONE AE
(EL 73.4)
LA ROSE RD
ZONE AE
(EL 85.0)
7NF0295
ZONE AE
(EL 68.8)
7NF0330
ZONE AE
(EL 68.8)
7NF0340
7NF0335
ZONE AE
(EL 78.8)
ZONE AE
(EL 82.8)
7NF0285
ZONE A
ZONE AE
(EL 113.6)
7NF0525
ZONE AE
(EL 95.4)
7NF0530
7NF0535
7NF0515
ZONE AE
(EL 107.9)
7NF0538
ZONE AE
(EL 110.8)
50
7NF0560
ZONE AE
(EL 58.4)
ZONE A
7NF0510
ZONE AE
(EL 66.4)
7NF0540
ZONE A
ZONE AE
(EL 68.8)
7NF0500
ZONE AE
(EL 66.4)
7NF0545
ZONE AE
(EL 65.6)
7NF0570
ZONE AE
(EL 65.6)
LEXINGTON CIR
AMBER RIDGE DR
CASTLE RIDGE DR
WINDMERE DR
ROBINSWOOD AVE
ZONE AE
(EL 58.6)
7NF0450
ZONE AE
(EL 63.2)
7NF0448
7NF0445
7NF0446
ZONE A
ZONE A
ZONE AE
(EL 70.7)
7NF0358
7NF0444
ZONE AE
(EL 68.3)
CAPISTRANO LN
WILLOW BANK AVE
SHADYWOOD LN
PINE RIDGE LN
7NF0790
7NF0440
ZONE AE
(EL 68.6)
ZONE AE
(EL 81.1)
7NF0438
ZONE AE
(EL 85.6)
7NF0430
7NF0415
7NF0405
ZONE AE
(EL 78.6)
7NF0410
ZONE AE
(EL 69.6)
7NF0398
ZONE AE
(EL 74.1)
7NF0388
ZONE AE
(EL 74.1)
7NF0368
50
ZONE AE
(EL 81.2)
BRONSON BLVD
PARKLAND AVE
7NF0378
ZONE AE
(EL 73.9)
CRACKER CROSS
ZONE AE
(EL 65.6)
7NF0580
7NF0690
ZONE AE
(EL 48.7)

MAP SCALE 1" = 500'

0 250 500 750 1,000 FEET

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0238D

FIRM

FLOOD INSURANCE RATE MAP

HERNANDO COUNTY, FLORIDA

AND INCORPORATED AREAS

PANEL 238 OF 410

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	120110	0238	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12053C0238D

EFFECTIVE DATE
FEBRUARY 2, 2012

Federal Emergency Management Agency

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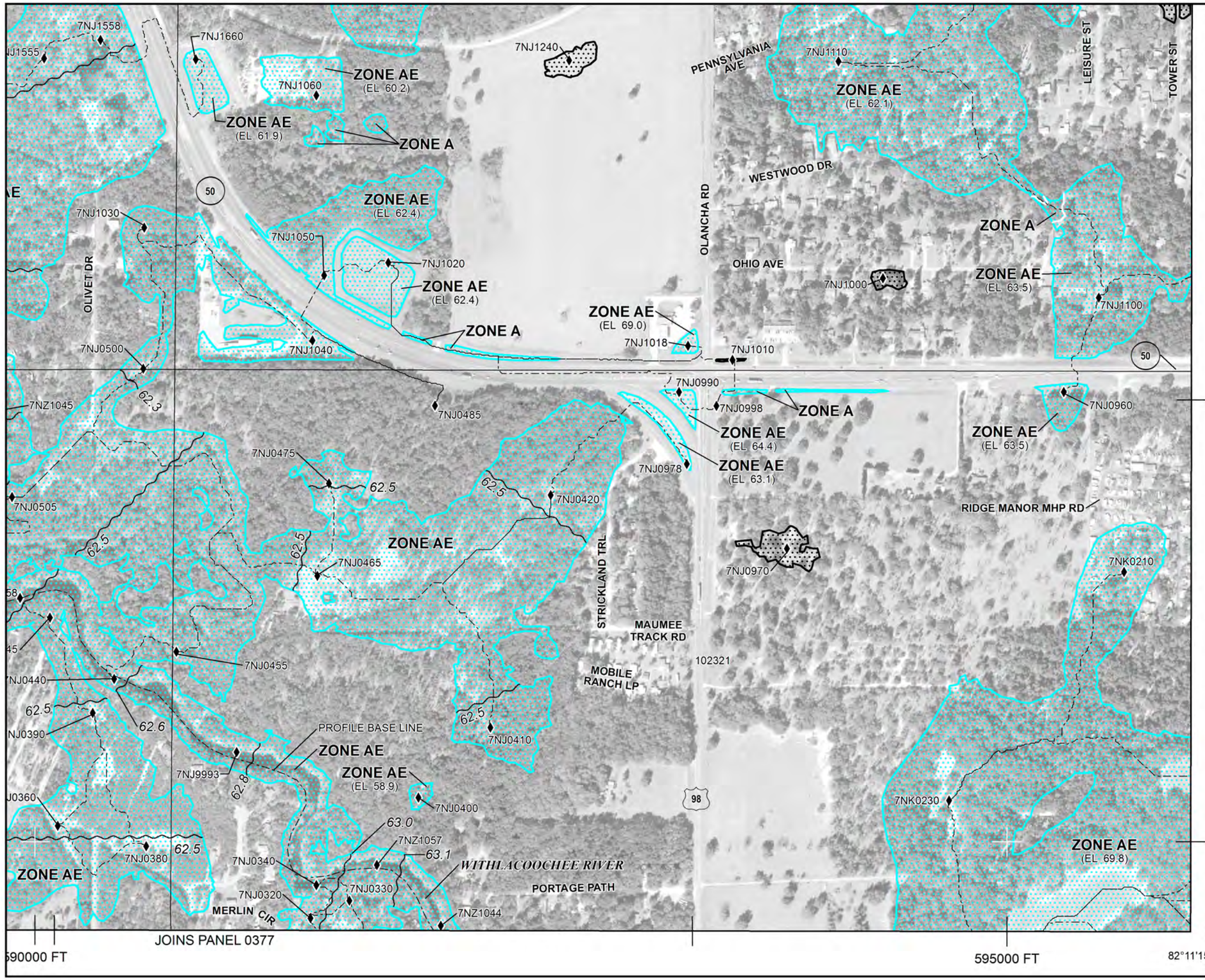
379000mE
JOINS PANEL 0236
380000mE
58.1
82°13'07.5"
28°31'52.5
ZONE AE (EL 77.6)
7NF0805
ZONE A
ZONE AE (EL 69.8)
7NF0820
7NF0915
ZONE AE (EL 69.8)
7NF0870
ZONE AE (EL 65.6)
7NF0830
ZONE AE (EL 58.1)
ZONE A
ZONE A (EL 59.2)
7NF1010
152500
LEXINGTON CIR
AMBER RIDGE DR
CASTLE RIDGE DR
BARCELONA BLVD
WINDMERE RD
ASHMONT AVE
SHERMAN HILLS BLVD
MAJESTIC DR
CEDARSIDE AVE
7NF0860
7NF0850
332221
CROOM RITAL RD
ZONE AE (EL 58.6)
ZONE AE (EL 63.2)
7NF0450
7NF0448
7NF0445
7NF0446
ZONE A
ZONE A
75
ZONE AE (EL 70.7)
7NF0358
7NF0444
ZONE AE (EL 68.3)
7NF0796
ZONE AE (EL 62.0)
ZONE A
7NF0800
ZONE AE (EL 61.2)
ROBINSWOOD AVE
INWOOD CIR
PARK RIDGE DR
322221
CAPISTRANO LN
WILLOW BANK AVE
ZONE AE (EL 70.8)
ZONE A
ZONE AE (EL 60.5)
7NF0845
STONEY BROOK DR
ZONE AE (EL 56.6)
LANCEWOOD DR
7NF0840
7NJ1485
ZONE AE (EL 64.2)
SHADYWOOD LN
PINE RIDGE LN
7NF0790
7NF0440
ZONE AE (EL 68.6)
ZONE AE (EL 81.1)
7NF0438
ZONE AE (EL 79.0)
ZONE A
7NF0842
7NF0852
ZONE AE (EL 85.6)
7NF0858
ZONE AE (EL 75.7)
ZONE A
ZONE AE (EL 63.9)
ZONE A
ZONE AE (EL 68.0)
7NF0855
7NF0848
ZONE AE (EL 71.1)
7NF0835
ZONE A
CROOM RITAL RD
T. 22 S.
T. 23 S.
7NF0430
7NF0415
7NF0368
50
7NF0725
7NF0718
7NF0728
7NF0735
ZONE AE (EL 81.4)
7NF0738
7NF0780
7NF0788
7NF0798
7NJ0743
ZONE AE (EL 69.6)
7NF0795
ZONE A
50
ZONE AE (EL 82.9)
7NJ0885
ZONE AE (EL 80.2)
ZONE AE (EL 81.2)
ZONE AE (EL 91.2)
7NF0405
ZONE AE (EL 78.6)
7NF0410
ZONE AE (EL 69.6)
7NF0398
ZONE AE (EL 74.1)
BRONSON BLVD
PARKLAND AVE
ZONE A
ZONE AE (EL 66.4)
7NF0778
ZONE AE (EL 68.4)
7NJ0740
KETTERING RD
7NF0388
7NF0378
ZONE AE (EL 73.9)
7NF0765
ZONE AE (EL 77.9)
ZONE AE (EL 74.1)
CRACKER CROSSING
ZONE AE (EL 65.6)
7NF0580
7NF0770
7NJ0750
ZONE AE (EL 67.0)
7NF0690
7NJ0800
MAP SCALE 1" = 500'
0 250 500 750 1,000 FEET
NFIP
NATIONAL FLOOD INSURANCE PROGRAM
PANEL 0238D
FIRM
FLOOD INSURANCE RATE MAP
HERNANDO COUNTY, FLORIDA
AND INCORPORATED AREAS
PANEL 238 OF 410
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
HERNANDO COUNTY 120110 0238 D
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.
MAP NUMBER
12053C0238D
EFFECTIVE DATE
FEBRUARY 2, 2012
Federal Emergency Management Agency
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov


CROOM RITAL RD
T. 22 S.
T. 23 S.
50
7NJ1480
7NJ1560
7NJ1510
7bndry53
7NZ1034
ZONE AE
7NJ1335
7NJ1340
59.8
MIKE LN
7NJ1475
7NJ1490
7NJ1500
7NJ9999
7bndry52
7NJ0886
ZONE AE
(EL 80.2)
7NJ1478
7NJ0930
7NJ0975
ZONE A
7NJ0882
ZONE A
ZONE AE
(EL 64.0)
AMELIA LN
7NJ0915
7NJ0968
59.8
7NJ0940
7NJ0910
7NZ1061
7NJ0887
7NJ0798
CYRIL DR
7NJ0900
60.7
7NJ0955
7NJ0965
CEDRIC ST
7NJ0805
61.1
6.09
7NJ0890
7NZ1035
7NJ0795
ZONE AE
(EL 60.0)
7NJ0945
PROFILE BASE LINE
7NJ0935
7NJ0875
7NZ1060
WITHLACOOCHEE RIVER
7NJ0878
7NZ1047
7NJ0942
7NJ9997
7NJ0870
ZONE AE
(EL 63.5)
7NJ0735
7NJ9996
MARCHMONT CIR
7NJ1330
7NJ0865
7NJ0860
7NJ0850
42321
CYPRESS LAKE
ZONE AE
(EL 59.8)
7NJ0820
7NJ0830
7NJ1310
61.2
7NJ0840
ZONE AE
(EL 67.0)
ZONE AE
(EL 61.3)
61.3
MARCHMONT CIR
7NJ0695
7NJ9995
7NJ0748
7NJ9994
61.4
61.5
7NJ0730
7NJ0630
7NJ1558
7NJ1660
7NJ0620
7bndry54
7NJ1551
7NJ1555
ZONE AE
(EL 60.2)
7NJ0690
ZONE AE
(EL 64.4)
7NJ0720
7NJ1060
ZONE AE
Hernando Count
Unincorporated Ar
120110
Eastern Hernando
Withlacoochee River Wate
JOINS PANEL 0238
N
MAP SCALE 1" = 500'
0 250 500 750 1,000
FEET
PANEL 0239D
FIRM
FLOOD INSURANCE RATE MAP
HERNANDO COUNTY, FLORIDA
AND INCORPORATED AREAS
PANEL 239 OF 410
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
HERNANDO COUNTY 120110 0239 D
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.
MAP NUMBER
12053C0239D
EFFECTIVE DATE
FEBRUARY 2, 2012
Federal Emergency Management Agency
NATIONAL FLOOD INSURANCE PROGRAM
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



1-800-638-6620.

MAP SCALE 1" = 500'

0 250 500 750 1,000 FEET

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0239D

FIRM

FLOOD INSURANCE RATE MAP

HERNANDO COUNTY, FLORIDA

AND INCORPORATED AREAS

PANEL 239 OF 410

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	120110	0239	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12053C0239D

EFFECTIVE DATE
FEBRUARY 2, 2012

Federal Emergency Management Agency

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Hernando County
Unincorporated Areas
120110

JOINS

ZONE AE
(EL 65.3)

WOODLAND CIR

7NJ1080

MADISON AVE

7NJ1090

ZONE A

WESTWOOD DR

LITTLE GREEN LN

50

ZONE AE
(EL 67.9)

7NK0144

ZONE A

ZONE AE
(EL 68.8)

ZONE A

7NK0175

7NK0190

ZONE A

ZONE AE
(EL 68.0)

7NK0180

7NK0158

7NK0148

7NK0149

7NK0150

ZONE AE
(EL 69.8)

7NK0130

ZONE A

7NK0200

7NK0156

7NK0160

7NK0138

7NK0168

7NK0140

7NK0170

AZALEA CIR

7NJ0950

7NJ0952

ZONE A

DIPLOMAT ST

CONGRESSIONAL AVE

RIDGE MANOR MHP RD

WESTLAKE BLVD

SHOREWOOD DR

LAKE GENEVA

7NK0220

7NK0370

7NK0365

ZONE AE
(EL 69.8)

102321

112321

DOGWOOD DR

MOCKINGBIRD DR

FLAMINGO LN

LAKEWOOD DR

EVERGREEN WAY

GARDENIA WAY

HIBISCUS DR

CARDINAL DR

7NK0100

7NK0105

ZONE AE
(EL 69.8)

7NK0110

7NK0090

7NK0080

BLUEJAY TRL

BOBWHITE CT

7NK0095

301

7NK0060

7NK0040

ZONE A

ZONE AE
(EL 71.7)

7NK0050

7NK0038

7NK0010

ZONE AE
(EL 69.8)

ZONE A

7NK0120

ZONE AE
(EL 66.5)

7NG0120

7NJ1070

7NG0130

SUNRIDGE DR

TREE LN

BOXTREE CT

7NK0115

ZONE AE
(EL 70.9)

7NG0110

4,000mN

30'00"

82°11'15"

600000 FT

JOINS PANEL 0381

MAP SCALE 1" = 500'

0 250 500 750 1,000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0243D

FIRM

FLOOD INSURANCE RATE MAP

HERNANDO COUNTY, FLORIDA

AND INCORPORATED AREAS

PANEL 243 OF 410

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	120110	0243	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12053C0243D

EFFECTIVE DATE
FEBRUARY 2, 2012

Federal Emergency Management Agency

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MAP SCALE 1" = 500'

0 250 500 750 1,000 FEET

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0243D

FIRM

FLOOD INSURANCE RATE MAP

HERNANDO COUNTY, FLORIDA

AND INCORPORATED AREAS

PANEL 243 OF 410

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HERNANDO COUNTY	120110	0243	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12053C0243D

EFFECTIVE DATE
FEBRUARY 2, 2012

Federal Emergency Management Agency

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APPENDIX F

CROSS DRAIN LOCATIONS

CROSS DRAIN LOCATIONS

AERIAL FLIGHT DATE: 2009

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD)
FROM LOCKHART ROAD
TO US 301 (TREIMAN BLVD)

SHEET NO.

USER: 22585 2/20/2012 3:54:56 PM S:\Projects\FDOT\D7\D7-WIDE4-101070\Task Work Orders in Progress\Task 7 & 8 - SEIR-SR 50\CADD\Drainage\CROSSDRAIN01.dgn

CROSS DRAIN LOCATIONS

AERIAL FLIGHT DATE: 2009

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD)
FROM LOCKHART ROAD
TO US 301 (TREIMAN BLVD)

SHEET NO.

USER: 22585 2/20/2012 3:55:14 PM S:\Projects\FDOT\D7\D7-WIDE4-101070\Task Work Orders in Progress\Task 7 & 8 - SEIR-SR 50\CADD\Drainage\CROSSDRAIN02.dgn

CROSS DRAIN LOCATIONS

AERIAL FLIGHT DATE: 2009

USER: 22585 2/20/2012 3:55:31 PM S:\Projects\FDOT\D7\D7-WIDE4-101070\Task Work Orders in Progress\Task 7 & 8 - SEIR-SR 50\CADD\Drainage\CROSSDRAIN03.dgn

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD)
FROM LOCKHART ROAD
TO US 301 (TREIMAN BLVD)

SHEET NO.

CROSS DRAIN LOCATIONS

AERIAL FLIGHT DATE: 2009

USER: 22585 2/20/2012 3:55:46 PM S:\Projects\FDOT\DA\07-WIDE4-101070\Task Work Orders in Progress\Task 7 & 8 - SEIR-SR 50\CADD\Drainage\CROSSDRAIN04.dgn

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD)
FROM LOCKHART ROAD
TO US 301 (TREIMAN BLVD)

SHEET NO.

CROSS DRAIN LOCATIONS

AERIAL FLIGHT DATE: 2009

ATKINS
4030 WEST BOY SCOUT BLVD
SUITE 700
TAMPA, FL 33607

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 50	HERNANDO	416732-2

SR 50 (CORTEZ BLVD)
FROM LOCKHART ROAD
TO US 301 (TREIMAN BLVD)

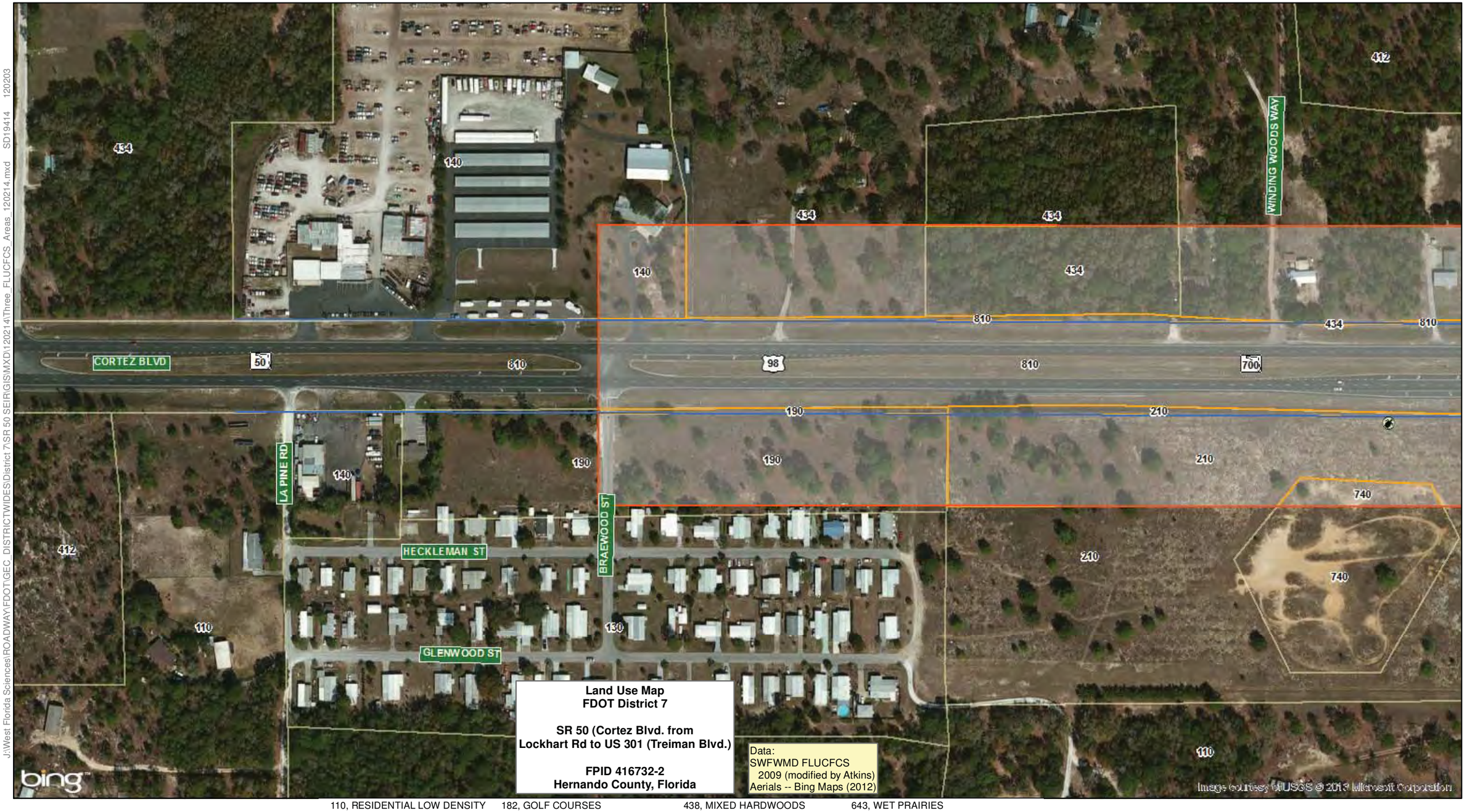
SHEET NO.

USER: 22585 2/20/2012 3:55:59 PM S:\Projects\FDOT\D7\D7-WIDE4-101070\Task Work Orders in Progress\Task 7 & 8 - SEIR-SR 50\CADD\Drainage\CROSSDRAIN05.dgn

APPENDIX G

STUDY AREA FLUCFCS MAP, WETLANDS, AND GOPHER TORTOISE BURROWS

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120214\Three_FLUCFCS_Areas_120214.mxd SD19414 120203



Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
SWFWMD FLUCFCS
2009 (modified by Atkins)
Aerials -- Bing Maps (2012)

Map 1

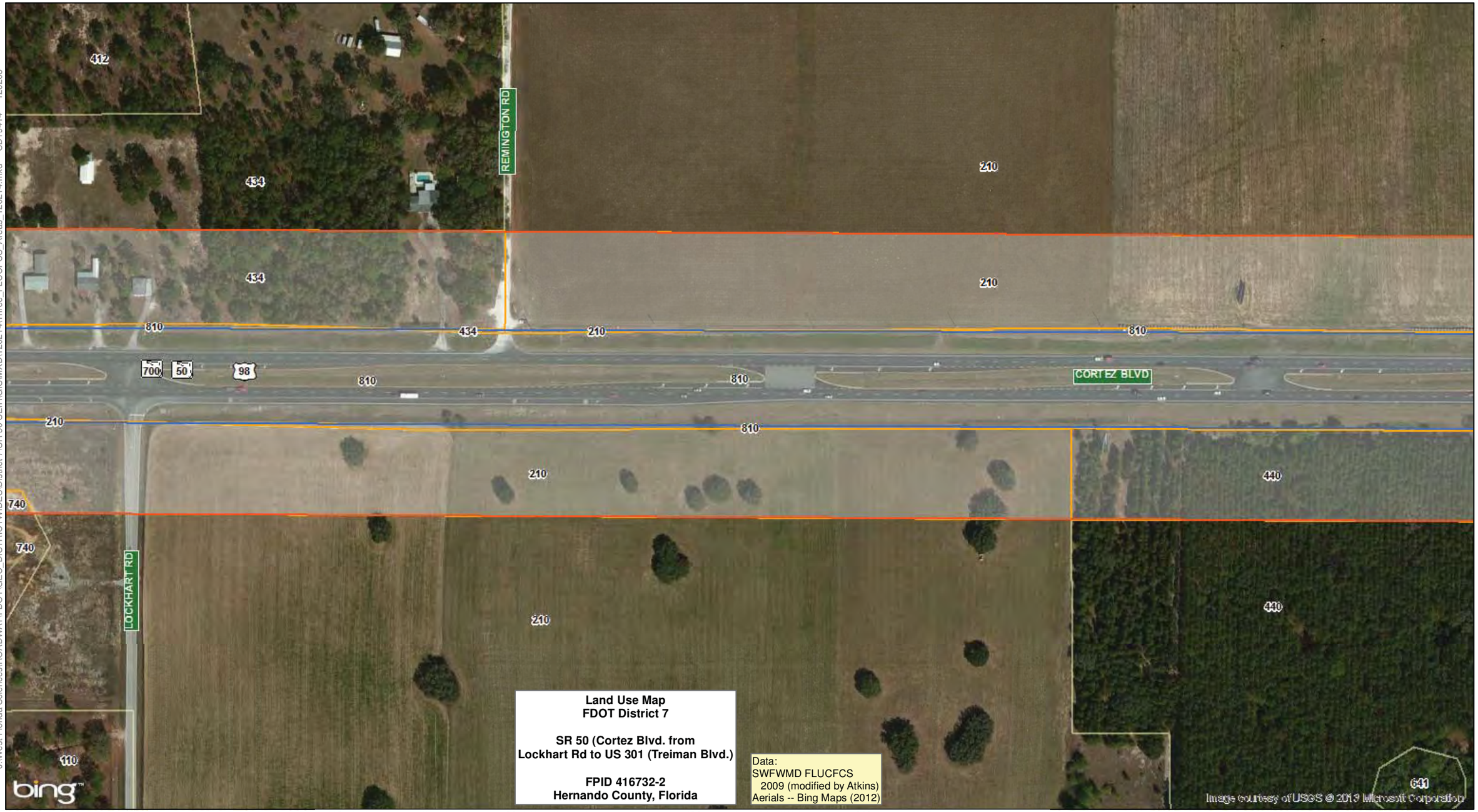
110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
120, RESIDENTIAL MED DENSITY	190, OPEN LAND	440, TREE PLANTATIONS	644, EMERGENT AQUATIC VEGETATION
130, RESIDENTIAL HIGH DENSITY	210, CROPLAND AND PASTURELAND	510, STREAMS AND WATERWAYS	653, INTERMITTENT PONDS
140, COMMERCIAL AND SERVICES	260, OTHER OPEN LANDS <RURAL>	530, RESERVOIRS	740, DISTURBED LAND
150, INDUSTRIAL	412, LONGLEAF PINE - XERIC OAK	615, STREAM AND LAKE SWAMPS	810, TRANSPORTATION
160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

N
W E
S

1 inch = 200 feet
0 200 Feet

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120214\Three_FLUCFCS_Areas_120214.mxd SD19414 120203



Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
SWFWMD FLUCFCS
2009 (modified by Atkins)
Aerials -- Bing Maps (2012)

Map 2

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
120, RESIDENTIAL MED DENSITY	190, OPEN LAND	440, TREE PLANTATIONS	644, EMERGENT AQUATIC VEGETATION
130, RESIDENTIAL HIGH DENSITY	210, CROPLAND AND PASTURELAND	510, STREAMS AND WATERWAYS	653, INTERMITTENT PONDS
140, COMMERCIAL AND SERVICES	260, OTHER OPEN LANDS <RURAL>	530, RESERVOIRS	740, DISTURBED LAND
150, INDUSTRIAL	412, LONGLEAF PINE - XERIC OAK	615, STREAM AND LAKE SWAMPS	810, TRANSPORTATION
160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

N
W E
S

1 inch = 200 feet
0 200 Feet

J:\West Florida Sciences\ROADWAY\FDOT\GEC_DISTRICTWIDES\District 7\SR 50 SEIR\GIS\MXD\120214\Three_FLUCFCS_Areas_120214.mxd SD19414 120203

Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
SWFWMD FLUCFCS
2009 (modified by Atkins)
Aerials -- Bing Maps (2012)

Map 3

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
120, RESIDENTIAL MED DENSITY	190, OPEN LAND	440, TREE PLANTATIONS	644, EMERGENT AQUATIC VEGETATION
130, RESIDENTIAL HIGH DENSITY	210, CROPLAND AND PASTURELAND	510, STREAMS AND WATERWAYS	653, INTERMITTENT PONDS
140, COMMERCIAL AND SERVICES	260, OTHER OPEN LANDS <RURAL>	530, RESERVOIRS	740, DISTURBED LAND
150, INDUSTRIAL	412, LONGLEAF PINE - XERIC OAK	615, STREAM AND LAKE SWAMPS	810, TRANSPORTATION
160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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1 inch = 200 feet
0 200 Feet

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Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
SWFWMD FLUCFCS
2009 (modified by Atkins)
Aerials -- Bing Maps (2012)

Map 4

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
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160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
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2009 (modified by Atkins)
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150, INDUSTRIAL	412, LONGLEAF PINE - XERIC OAK	615, STREAM AND LAKE SWAMPS	810, TRANSPORTATION
160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Map 5

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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1 inch = 200 feet
0 200 Feet

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Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

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Aerials -- Bing Maps (2012)

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160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Map 6

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

N W E S

1 inch = 200 feet

0 200 Feet

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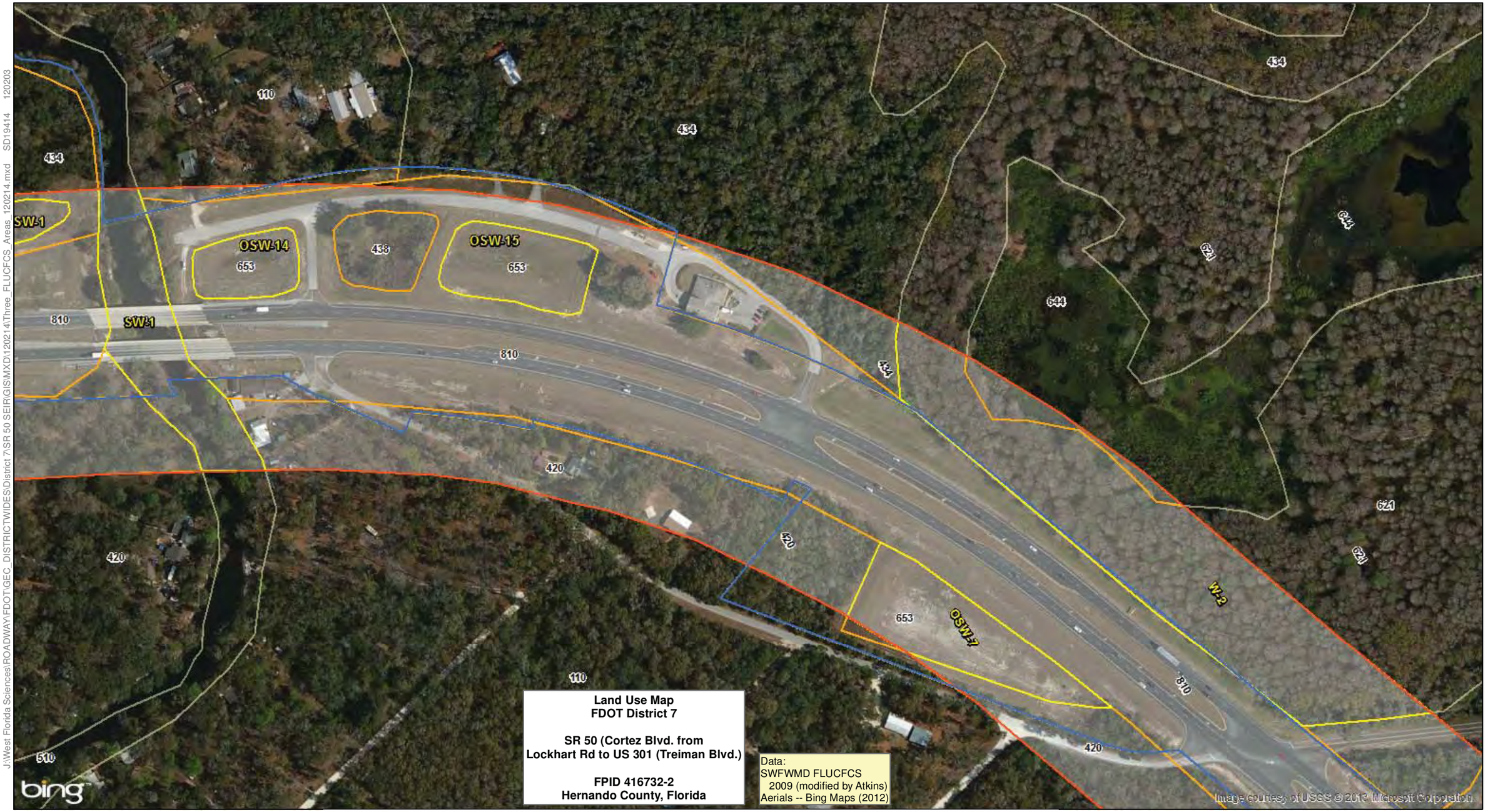

Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
SWFWMD FLUCFCS
2009 (modified by Atkins)
Aerials -- Bing Maps (2012)

Map 7

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
120, RESIDENTIAL MED DENSITY	190, OPEN LAND	440, TREE PLANTATIONS	644, EMERGENT AQUATIC VEGETATION
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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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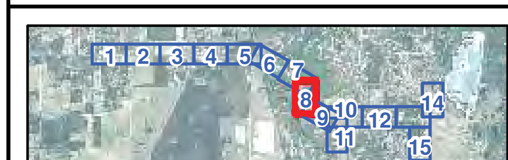

Map 8

110, RESIDENTIAL LOW DENSITY
120, RESIDENTIAL MED DENSITY
130, RESIDENTIAL HIGH DENSITY
140, COMMERCIAL AND SERVICES
150, INDUSTRIAL
160, EXTRACTIVE
170, INSTITUTIONAL
182, GOLF COURSES
190, OPEN LAND
210, CROPLAND AND PASTURELAND
260, OTHER OPEN LANDS <RURAL>
412, LONGLEAF PINE - XERIC OAK
420, UPLAND HARDWOOD FOREST
434, HARDWOOD CONIFER MIXED
438, MIXED HARDWOODS
440, TREE PLANTATIONS
510, STREAMS AND WATERWAYS
530, RESERVOIRS
615, STREAM AND LAKE SWAMPS
621, CYPRESS
641, FRESHWATER MARSHES
643, WET PRAIRIES
644, EMERGENT AQUATIC VEGETATION
653, INTERMITTENT PONDS
740, DISTURBED LAND
810, TRANSPORTATION

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
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170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Map 9

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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1 inch = 200 feet

0 200 Feet

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Land Use Map
FDOT District 7

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160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
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Map 10

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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0 200 Feet

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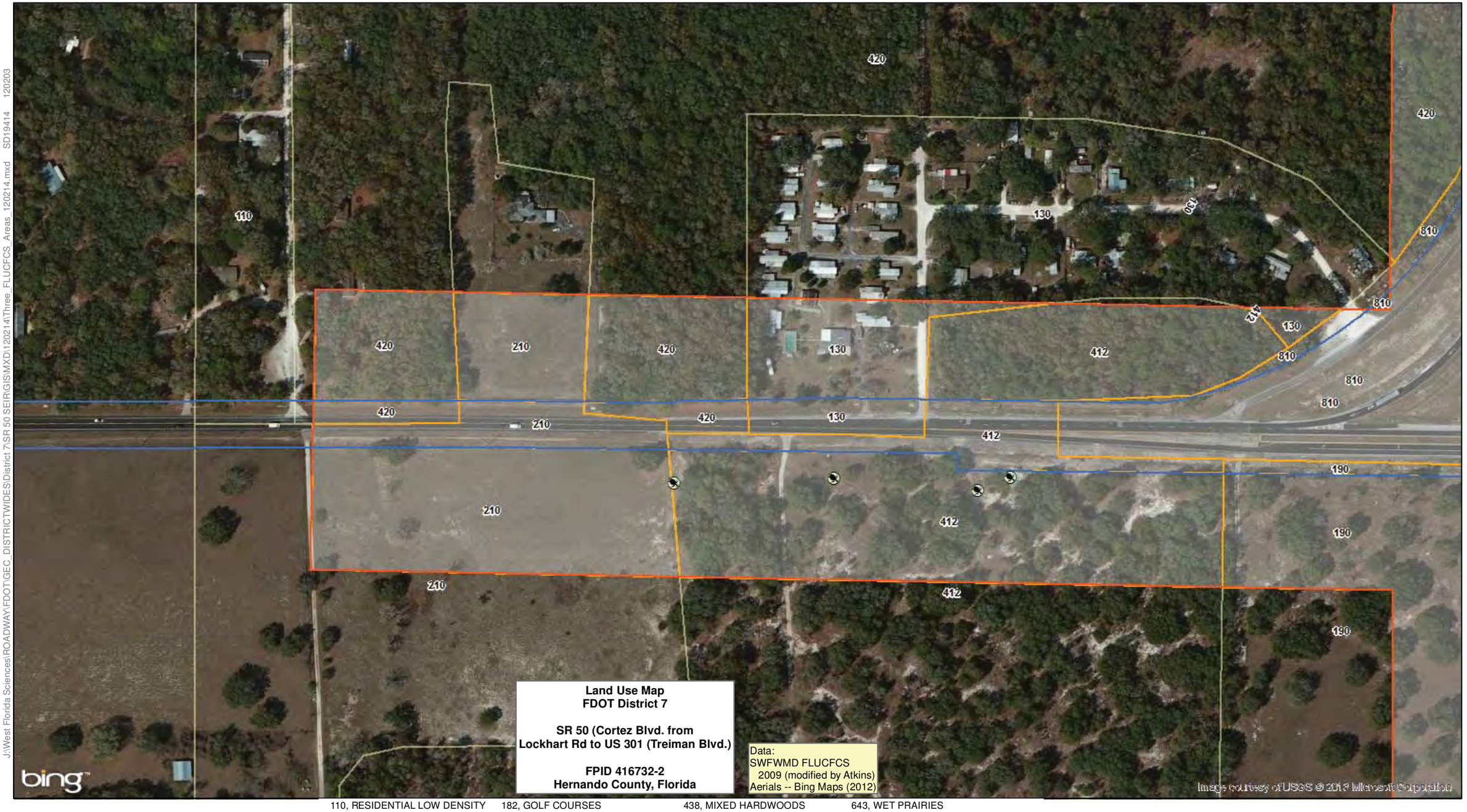

Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
SWFWMD FLUCFCS
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Aerials -- Bing Maps (2012)

Map 11

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
120, RESIDENTIAL MED DENSITY	190, OPEN LAND	440, TREE PLANTATIONS	644, EMERGENT AQUATIC VEGETATION
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160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

W S N E

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Land Use Map
FDOT District 7

SR 50 (Cortez Blvd. from Lockhart Rd to US 301 (Treiman Blvd.)

FPID 416732-2
Hernando County, Florida

Data:
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Aerials -- Bing Maps (2012)

Map 12

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
120, RESIDENTIAL MED DENSITY	190, OPEN LAND	440, TREE PLANTATIONS	644, EMERGENT AQUATIC VEGETATION
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160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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Land Use Map
FDOT District 7

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160, EXTRACTIVE	420, UPLAND HARDWOOD FOREST	621, CYPRESS	
170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Map 13

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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170, INSTITUTIONAL	434, HARDWOOD CONIFER MIXED	641, FRESHWATER MARSHES	

Map 14

Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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Land Use Map
FDOT District 7

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FPID 416732-2
Hernando County, Florida

Data:
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Map 15

110, RESIDENTIAL LOW DENSITY	182, GOLF COURSES	438, MIXED HARDWOODS	643, WET PRAIRIES
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Gopher Tortoise Burrows (Incidental Observation)
Existing ROW
Project Study Area w/in 300ft Buffer
Wetland w/in 300ft Buffer
FLUCFCS Boundary

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1 inch = 200 feet
0 200 Feet

APPENDIX H

UMAM EVALUATION FORMS

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		OSW-1

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
530		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

intermittent pond, SMF area located within project R/W corridor

Assessment area description

intermittent pond site/SMF , adjacent roadway

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50), low density residential, upland forests, wetland features, Withlacoochee River basin, Withlacoochee State Forest	not unique to this area

Functions	Mitigation for previous permit/other historic use
Currently functions as direct drainage/sheet flow and water storage from adjacent roadway	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
functions as foraging/denning/breeding for small mammals, reptiles/amphibians, variety of avian species, fishes	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: sedges (*Cyperus spp*.), smartweed (*Polygonum sp*.), rushes (*Juncus spp*.), wate primrose (*Ludwigia octavalis*)

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		OSW-1
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

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

		w/o pres or current	with
.500(6)(a) Location and Landscape Support	located along project r/w corridor, adjacent to roadway	3	0
.500(6)(b)Water Environment (n/a for uplands)	receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. Hydrological connection to adjacent wetlands via culverted drainage systems.	3	0
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	Herbaceous marsh system with low coverage of N/E vegetation species present. Intermittent ponds do not appear to be inundated for long period of time to sustain aquatic vertebrates and invertebrates.	3	0

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.3	0.0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
-0.3

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		SW-1

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
510	shoreline only	Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

Withlacoochee River

Assessment area description

shoreline of Withlacoochee River, adjacent to bridge/roadway (SR 50)

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50), upland forests, wetland features, Withlacoochee River basin, Withlacoochee State Forest	not unique to this area

Functions	Mitigation for previous permit/other historic use
Currently functions as direct drainage/sheet flow and water storage from adjacent roadways and other wetland connections	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
functions as foraging/denning/breeding for small mammals, reptiles/amphibians, variety of avian species, fishes	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: dahoon holly (Ilex cassine), tupelo (Nyssa sp.), bald cypress (*Taxodium distichum*), Carolina willow (*Salix caroliniana*), american elm (*Ulmus americana)*

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		SW-1
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support w/o pres or current: 8 — with: 0	shoreline of Withlacoochee River, bridge feature, intersects SR 50
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current: 8 — with: 0	Withlacoochee River basin: receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. Hydrological connection to adjacent wetlands via culverted draiange systems, creeks and streams
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current: 8 — with: 0	shoreline contains desirable vegetation typical of healthy riparian wetland, with some deviation immediately adjacent to the bridge

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres: 0.8	with: 0.0

Delta = [with-current]
-0.8

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

If mitigation
Time lag (t-factor) =
Risk factor =

For impact assessment areas
FL = delta x acres =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-2

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
621 (cypress), 644 (emergent aquatic vegetation)		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

this cypress dominated wetland is associated with an expansive wetland system, Cypress Lake and Withlacoochee River floodplain

Assessment area description

expansive cypress dominated bottomland system with herbaceous wetland interior

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50), roadway structures (overpasses/underpassses), existing pond sites/SMF's, expansive adjacent wetland systems, Cypress Lake, Withlacoochee River, Withlacoochee River State Forest	not unique to this area
Functions sheet flow, water storage, wildlife corridor	Mitigation for previous permit/other historic use
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) wildlife corridor, foraging/denning/breeding for small mammals, reptiles/amphibians, variety of avian species, fishes	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: red maple (*Acer rubrum*), sugarberry (*Celtis laevigata*), buttonbush (*Cephalanthus occidentalis*), sweetbay magnolia (*Magnolia virginiana*), Carolina willow (*Salix caroliniana*), elderberry (*Sambucus canadensis*), bald cypress (*Taxodium distichum*), American elm (*Ulmus americana*).

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-2
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	**Moderate(7)**	**Minimal (4)**	**Not Present (0)**
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 6	with: 0	located north of SR 50, wetland is roadway frontage, adjacent to mixed hardwood conifer forest on west side and east side. Is a component of expansive wetland system associated with Cypress Lake and Withlacoochee River floodplain.
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 5	with: 0	Receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. Hydrological connection to wetland system located north of this wetland. Wetland has roadway on south and west sides, resulting in altered hydropattern.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 7	with: 0	This dense bottomland wetland is dominated by cypress and other wetland hardwood tree species. An herbaceous wetland component is located within the interior of this system. There are no N/E vegetation species present.

Score = sum of above scores/30 (if uplands, divide by 20)		
current or w/o pres: 0.6	with: 0.0	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
-0.6

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-3,W-4,W-12

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
644		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

this herbaceous wetland is associated with an isolated bottomland system, Cypress Lake and Withlacoochee River floodplain, adjacent to SR 50 and upland hardwood forest

Assessment area description

herbaceous wetland associated with isolated bottomland system

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50), roadway structures (overpasses/underpassses), existing pond sites/SMF's, upland hardwood forest, Cypress Lake, Withlacoochee River, Withlacoochee River State Forest, low density residential	not unique to this area
Functions	**Mitigation for previous permit/other historic use**
Currently, functions include wildlife habitat, direct draiange/sheet flow and water storage from adjacent roadway	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	**Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)**
wildlife corridor, foraging/denning/breeding for small mammals, reptiles/amphibians, variety of avian species, fishes	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: sedges (Cyperus spp.), rushes (Juncus spp.), smartweed (Polygonum sp.)

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-3,W-4,W-12
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 4	with: 0	Located south of SR 50, wetland is roadway frontage, adjacent to upland hardwood forest on west side and east side. Associated with isolated bottomland system.
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 4	with: 0	Receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. Hydrological connection to wetland system located south of this wetland. Wetland has roadway on north and west sides, resulting in altered hydropattern.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 6	with: 0	Herbaceous marsh system with low coverage of N/E vegetation species present.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres: 0.5	with: 0.0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
-0.5

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-5

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

isolated herbaceous wetlands, with little or no hydrological connectivity

Assessment area description

adjacent to surrounding roadways and upland areas, low density residential

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50/US 301), upland areas, low density residential	not unique to this area

Functions	Mitigation for previous permit/other historic use
these wetlands would provide water storage, current functions include limited wildlife habitat, direct drainage and water storage from nearby roadways	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
would support foraging and breeding for amphibians and avian species	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: W-5 has upland forest fringe of laurel oak (*Quercus laurifolia*), slash pine (*Pinus Elliottii*). Herbaceous component of W-5 consists of sedges (*Cyperus spp*.), dog fennel (*Eupatorium sp*.), rushes (*Juncus spp*.), panic grass (*Panicum sp*.)

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-5
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 3	with: 0	isolated, altered, located adjacent to roadway, right of way easement, low density residential, surrounded by upland forest
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 3	with: 0	receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. No hydrological connection observed, substantially altered hydropattern. Appears tobe drained system
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 4	with: 0	wetlands are dominated by herbaceous vegetation, low N/E vegetation coverage. Upland forest fringe surrounds system

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres: 0.3	with: 0.0

Delta = [with-current]
-0.3

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

If mitigation
Time lag (t-factor) =
Risk factor =

For impact assessment areas
FL = delta x acres =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-6

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
643		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

small isolated herbaceous depressinal wetland located within cattle pasture with no hydrological connection

Assessment area description

small isolated herbaceous depressinal wetland located within cattle pasture, located southeast of SR 50/US 301 intersection

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50/ US 301), cattle pasture	not unique to this area

Functions	Mitigation for previous permit/other historic use
current functions include limited wildlife habitat, water storage and sheet flow drainage	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
this would support breeding and foraging for amphibians, avian foraging	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: sedges (cyperus spp.), broom grasses (Andropogon spp.)

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-6
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 3	with: 0	located south of SR 50 and east of US 301 interchange, wetland located within cattle pasture
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 3	with: 0	receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. No hydrological connection to wetland system observed. Wetland has poor water quality due to surrounding cattle operation
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 3	with: 0	herbaceous dominated vegetated community

Score = sum of above scores/30 (if uplands, divide by 20)		
current or w/o pres: 0.3	with: 0.0	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
-0.3

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-9

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
615		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

this is a isolated bottomland system, Cypress Lake and Withlacoochee River floodplain, adjacent to SR 50 and upland hardwood forest

Assessment area description

isolated cypress bottomland system

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50), roadway structures (overpasses/underpassses), existing pond sites/SMF's, upland hardwood forest, Cypress Lake, Withlacoochee River, Withlacoochee River State Forest, low density residential	not unique to this area

Functions	Mitigation for previous permit/other historic use
Currently, functions include wildlife habitat, direct draiange/sheet flow and water storage from adjacent roadway	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
wildlife corridor, foraging/denning/breeding for small mammals, reptiles/amphibians, variety of avian species, fishes	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: red maple (Acer rubrum), buttonbush (Cephalanthus occidentalis), Carolina willow (Salix caroliniana), elderberry (Sambucus canadensis), bald cypress (Taxodium distichum).

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-9
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support w/o pres or current: 4 with: 0	located south of SR 50, wetland is roadway frontage, adjacent to upland hardwood forest on west side and east side. Isolated, associated with adjacent herbaceous wetland system	
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current: 4 with: 0	receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. Hydrological connection to wetland system located south of this wetland. Wetland has roadway on north and west sides, this isolation can contribute to altered hydropattern.	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current: 5 with: 0	This dense bottomland wetland is dominated by cypress and other wetland hardwood tree species. There are no N/E vegetation species present.	

Score = sum of above scores/30 (if uplands, divide by 20)		
current or w/o pres: 0.4	with: 0.0	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
-0.4

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-11

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

this herbaceous wetland is associated with larger reservoir system, hydrological connection to Lake Geneva

Assessment area description

herbaceous wetland associated with Lake Geneva, residential area

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50), Lake Geneva, low density residential	not unique to this area

Functions	Mitigation for previous permit/other historic use
Currently functions as direct drainage/sheet flow and water storage from adjacent roadway	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
wildlife corridor, foraging/denning/breeding for small mammals, reptiles/amphibians, variety of avian species, fishes	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: sedges (Cyperus spp.), smartweed (Polygonum sp.), rushes (Juncus spp.)

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-11
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 4	with: 0	located south of SR 50, associated with Lake Geneva, located in residential area
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 5	with: 0	receives run-off and sheet flowfrom adjacent roadways and provides water storage for surrounding area. Hydrological connection to wetland system (Lake Geneva) located south of this wetland.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 5	with: 0	Herbaceous marsh system with low coverage of N/E vegetation species present.

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.5	0.0

Delta = [with-current]
-0.5

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

If mitigation
Time lag (t-factor) =
Risk factor =

For impact assessment areas
FL = delta x acres =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-13

FLUCCs code	Further classification (optional)	Impact or Mitigation Site?	Assessment Area Size
641		Impact	

Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)

Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands

isolated herbaceous wetlands, with little or no hydrological connectivity

Assessment area description

adjacent to surrounding roadways and upland areas, low density residential

Significant nearby features	Uniqueness (considering the relative rarity in relation to the regional landscape.)
Roadway (SR 50/US 301), upland areas, low density residential	not unique to this area

Functions	Mitigation for previous permit/other historic use
these wetlands would provide water storage, current functions include limited wildlife habitat, direct drainage and water storage from nearby roadways	

Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found)	Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)
would support foraging and breeding for amphibians and avian species	wood stork (*Mycteria americana*), white ibis (*Eudocimus albus)*, limpkin (*Aramus guarauna)*, snowy egret (*Egretta thula*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*)

Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):

no wildlife observed during this site visit

Additional relevant factors:

vegetative community: W-13 has fringe of red maple (*Acer rubrum*), buttonbush (*Cephalanthus occidentalis*), Carolina willow (*Salix caroliniana*), elderberry (*Sambucus canadensis*). Herbaceous component of W-13 consists of sedges (*Cyperus spp*.), rushes (*Juncus spp*.), panic grass (*Panicum sp*.)

Assessment conducted by:	Assessment date(s):
David Loy, Patrick Bates	8/7/2013

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number	Assessment Area Name or Number
FDOT D7 SR 50 (Lockhart Road to US 301)		W-13
Impact or Mitigation	**Assessment conducted by:**	**Assessment date:**
Impact	DL/PB	8/7/2013

Scoring Guidance
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current: 3	with: 0	isolated, altered, located adjacent to roadway, right of way easement, low density residential, surrounded by openland
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current: 3	with: 0	receives run-off and sheet flow from adjacent roadways and provides water storage for surrounding area. No hydrological connection observed, substantially altered hydropattern.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current: 4	with: 0	wetlands are dominated by herbaceous vegetation, low N/E vegetation coverage. W-13 has fringe dominated by red maple, carolina willow, buttonbush, elderberry

Score = sum of above scores/30 (if uplands, divide by 20)	current or w/o pres	with
	0.3	0.0

Delta = [with-current]
-0.3

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

If mitigation
Time lag (t-factor) =
Risk factor =

For impact assessment areas
FL = delta x acres =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

APPENDIX I

FDOT CONSTRUCTION PRECAUTIONS FOR THE EASTERN INDIGO SNAKE

FDOT CONSTRUCTION PRECAUTIONS FOR THE EASTERN INDIGO SNAKE

THE EASTERN INDIGO SNAKE (*DRYMARCHON CORAIS COUPERI*) COULD BE PRESENT IN THE PROJECT AREA. IN ORDER TO MINIMIZE HARM TO THIS SPECIES, THE FDOT HAS COMMITTED TO IMPLEMENT THE FOLLOWING PROTECTION MEASURES:

A. PROVIDE EASTERN INDIGO SNAKE EDUCATIONAL INFORMATION TO EMPLOYEES PRIOR TO THE INITIATION OF ANY CLEARING OR CONSTRUCTION ACTIVITIES. AN EDUCATIONAL EXHIBIT THAT HAS BEEN APPROVED BY USFWS SHALL BE POSTED CONSPICUOUSLY AT A SITE ACCESSIBLE TO ALL EMPLOYEES AND A HANDOUT WILL BE DISTRIBUTED TO EMPLOYEES.

B. THE CONTRACTOR SHALL POST AND DISTRIBUTE EDUCATIONAL INFORMATION TO ALL ITS WORKERS. THE EXHIBIT AND BROCHURES SHALL INCLUDE PHOTOGRAPHS OF THE EASTERN INDIGO SNAKE, INFORMATION ON LIFE HISTORY, AND LEGAL PROTECTION OF THE SPECIES IN FLORIDA, AND HOW TO AVOID IMPACTS TO THE SPECIES. THIS MATERIAL SHALL BE SUPPLIED TO THE CONTRACTOR BY THE CONSTRUCTION ENVIRONMENTAL LIASON AT THE PRE-CONSTRUCTION CONFERENCE.

C. ALL CONSTRUCTION ACTIVITIES SHALL CEASE IF LIVE EASTERN INDIGO SNAKES ARE FOUND WITHIN THE PROJECT AREA. WORK MAY RESUME AFTER THE SNAKE OR SNAKES ARE ALLOWED TO LEAVE THE AREA ON THEIR OWN.

D. LOCATION OF LIVE SIGHTINGS SHALL BE REPORTED TO THE CONSTRUCTION ENVIRONMENTAL LIASON.

E. IF A DEAD EASTERN INDIGO SNAKE IS FOUND ON THE PROJECT SITE, THE SNAKE SHALL BE FROZEN AS SOON AS POSSIBLE AND THE CONSTRUCTION ENVIRONMENTAL LIASON SHALL BE NOTIFIED IMMEDIATELY FOR FURTHER INSTRUCTIONS.

APPENDIX J

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION COMMENT LETTER

Florida Fish and Wildlife Conservation Commission

Commissioners
Kenneth W. Wright
Chairman
Winter Park

Bo Rivard
Panama City

Ronald M. Bergeron
Fort Lauderdale

Richard A. Corbett
Tampa

Aliese P. "Liesa" Priddy
Immokalee

Charles W. Roberts III
Tallahassee

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Managing fish and wildlife resources for their long-term well-being and the benefit of people.

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MyFWC.com

May 16, 2013

Ms. Robin Rhinesmith
Environmental Administrator
Florida Department of Transportation (FDOT) District Seven
11201 North McKinley Drive
Tampa, FL 33612
Robin.Rhinesmith@DOT.state.fl.us

Re: SR 50 from west of I-75 to US 301, Hernando County, Final Environmental Technical Compendium

Dear Ms. Rhinesmith:

The Florida Fish and Wildlife Conservation Commission (FWC) staff has reviewed the Final Environmental Technical Compendium (ETC) for the above-referenced project. The ETC was prepared as part of the PD&E Study for the proposed project, and is intended to serve as a support document to the Final State Environmental Impact Report, dated December 2012. We provide the following comments and recommendations for your consideration in accordance with Chapter 379, Florida Statutes and Rule 68A-27, Florida Administrative Code (F. A. C.).

The proposed project involves adding lanes to SR 50 (Cortez Boulevard) between Lockhart Road and US 301 in Hernando County east of Brooksville. The total length of the project is approximately 6.3 miles. From Lockhart Road to US 98, the road would be widened from a four-lane to a six-lane divided facility. From US 98 to US 301, the two-lane undivided road is proposed to be widened to a four-lane divided highway and the existing east- and west-bound bridges over the Withlacoochee River would be widened to accommodate the additional lanes. The project vicinity is a mix of agricultural, suburban, and commercial development along with areas of natural upland and wetland habitats.

Table 4 of the ETC lists 23 potentially occurring wildlife species classified under the Endangered Species Act as Federally Endangered (FE) or Threatened (FT), or by the State of Florida as Threatened (ST) or Species of Special Concern (SSC). This includes the bald eagle, which was delisted by state and federal agencies, but remains protected under state rule in Section 68A-16.002, F .A. C. and by the federal Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d). Please note that the Florida black bear is no longer classified as threatened by the State, and the osprey is an SSC only in Monroe County.

Listed species were evaluated based on range and potential appropriate habitat or because the project is located within a U.S. Fish and Wildlife Service (USFWS) Consultation Area. Omitting the osprey and black bear, other species included: gopher frog (SSC), American alligator (FT based on similarity of appearance to the American crocodile), eastern indigo snake (FT), gopher tortoise (ST), short-tailed snake (ST), Florida pine snake (SSC), Suwannee cooter (SSC), red-cockaded woodpecker (FE), Florida scrub jay (FT), Florida sandhill crane (ST), Florida burrowing owl (SSC), Southeastern American kestrel (ST), wood stork (FE), limpkin (SSC), snowy egret (SSC), little blue heron (SSC), tri-colored heron (SSC), white ibis (SSC), roseate spoonbill (SSC), Sherman's fox squirrel (ST), and Florida mouse (SSC). We are in general agreement with the rankings for "probability of involvement" for the various species listed in Table 4; however, FWC recommends increasing all the SSC wading birds from "low" to "moderate" involvement because of the shoreline habitat of the Withlacoochee River, particularly at low water (see the Panoramio Photo_Google Earth_Withlacoochee River taken from the bridge).

The ETC did not include a list of specific project commitments but several proposed actions were mentioned in the impact discussion for various species. These included: (1) following the standard FDOT Construction Precautions for the Eastern Indigo Snake; (2) conducting additional pre-construction surveys for scrub jays, re-cockaded woodpeckers, and bald eagle nests; evaluating and mitigating the loss of wood stork suitable foraging habitat, per USFWS guidelines; and (3) obtaining a gopher tortoise relocation permit from the FWC.

Please reference the FWC's Gopher Tortoise Permitting Guidelines for survey methodology and permitting guidance prior to any construction activity (found at: http://www.myfwc.com/media/1410274/GTPermittingGuidelines.pdf [Revised April 2013]). Specific guidance in the permitting guidelines includes methods for avoiding permitting as well as options and state requirements for minimizing, mitigating, and permitting potential impacts of the proposed activities. Any commensal species observed during the burrow excavations that are protected by 16 U.S.C. 1531 et. seq., Section 379.2291, F.S., and 68A-27.004 and 68A-27.005, F.A.C. should be relocated in accordance with the applicable guidelines for that species. To the maximum extent possible, the FWC also recommends that all staging and storage areas be sited to avoid impacts to gopher tortoise burrows and their habitat.

FWC supports these proposed actions, and recommends additional project commitments to conduct pre-construction surveys for burrowing owl burrows, Southeastern American kestrel nest cavities, and Sherman's fox squirrel nests within the construction limits. Should an active nest of any of these species be discovered, please coordinate with FWC's Southwest Region District Wildlife Biologists in our Lakeland office (863-648-3200).

Thank you for the opportunity to review the ETC for the SR 50 project in Hernando County. If you need further assistance, please do not hesitate to contact Jane Chabre either by phone at (850) 410-5367 or at FWCConservationPlanningServices@MyFWC.com. If you have specific technical questions regarding the content of this letter, contact Brian Barnett at (772) 579-9746 or email brian.bamett@MyFWC.com.

Sincerely,

Bonita Gorham
Land Use Planning Program Administrator
Office of Conservation Planning Services

bg/bb
SR 50 from west of I-75 to US 301_17540_051613
ENV 1-13-2