

DANIEL WEBSTER WESTERN BELTWAY SR 429 / BINION ROAD INTERCHANGE

PROJECT DEVELOPMENT & ENVIRONMENT STUDY

Submitted By:

Signature Gregory S. Seidel, P.E.

The Balmoral Group, LLC November 9, 2022



Table of Contents

1.0 - Project Information	3
2.0 – Environmental Analysis & Report Introduction	6
2.a – Social & Economic Environment Analysis	7
2.b – Cultural Environment Analysis	15
2.c – Natural Environment Analysis	19
2.d – Physical Environment Analysis	29

List of Appendices

Appendix A - Water Quality Impact Evaluation Checklist

Appendix B - Highway Traffic Noise and Noise Study Report

Appendix C - Air Quality Technical Memorandum

Appendix D - Contamination Screening Evaluation Technical Memorandum

^{*}Technical Memorandum written to align with Level 1 PEIR chapter format*

1.0 - Project Information

Project Name: State Road (SR) 429/Binion Road Interchange

Projects Limits: The study area runs along the vicinity of South Binion Road

and Boy Scout Road at SR 429. Currently, drivers must enter and exit SR 429 by traveling approximately three miles north to just north of US 441 at the SR 429 Connector Road interchange or travel three miles south to the interchange at

Ocoee Apopka Road.

County: Orange

Proposed Activity: Evaluating a proposed half interchange (northbound on-

ramp and southbound off-ramp) expressway connection from Binion Road to SR 429 to provide enhanced access and mobility to southwest Apopka. Analyze intersection improvements and access management modifications along

the proposed interchange.

Responsible Agency: Central Florida Expressway Authority (CFX)

Planning Organization: CFX

Phase: Project Development & Environment (PD&E) Study

Project Contact Information:

CFX Director of Engineering CFX Project Manager

Dana Chester, PE David Falk, PE

Central Florida Expressway Authority

Central Florida Expressway Authority

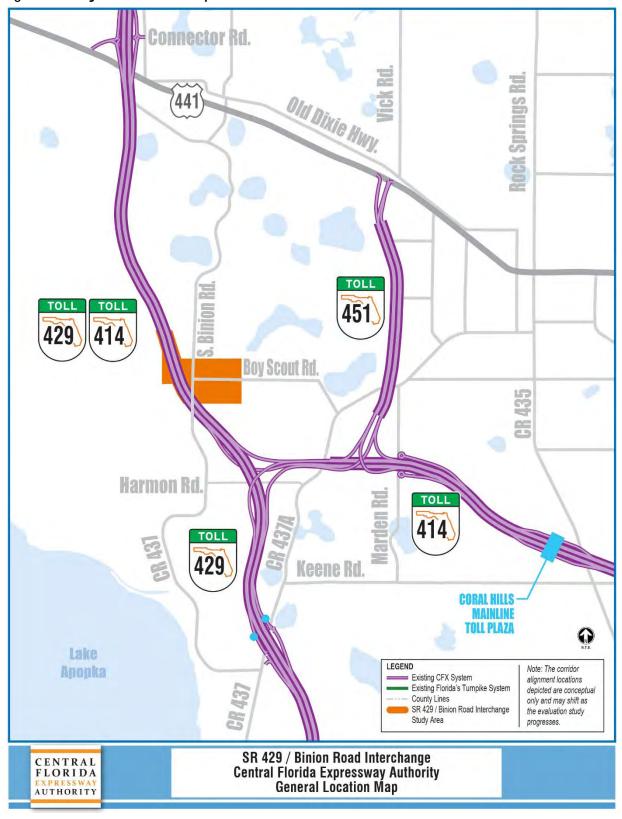
 4974 ORL Tower Road
 4974 ORL Tower Road

 Orlando, FL 32807
 Orlando, FL 32807

 Office: 407-690-5000
 Office: 407-690-5000

Project Location Map

Figure 1: Project Location Map



Project Background & Description

Background

In August 2022, CFX began a Project Development and Environment (PD&E) Study of the State Road 429/Binion Road Interchange. The study is evaluating a proposed half interchange (northbound on-ramp and southbound off-ramp) expressway connection from Binion Road to SR 429 to provide enhanced access and mobility to southwest Apopka.

Study Description

The study area runs along the vicinity of South Binion Road and Boy Scout Road at SR 429. Currently, drivers must enter and exit SR 429 by traveling approximately three miles north to just north of US 441 at the SR 429 Connector Road interchange or travel three miles south to the interchange at Ocoee Apopka Road. The 6-month study will analyze intersection improvements and access management modifications along the proposed interchange.

Study Goals

The goals of the SR 429/Binion Road Interchange PD&E Study include:

- Identify transportation mobility options and programs that could meet future demand.
- Enhance mobility of the area's growing population and economy by providing additional transportation infrastructure.
- Provide consistency with local plans and policies.
- Promote regional connectivity.

Scope

The CONSULTANT, at the direction of CFX, shall perform the appropriate level of environmental analysis of each community, cultural, natural, or physical feature of the project and prepare the required corresponding documentation as outlined in the PD&E Manual.

The CONSULTANT will prepare the Project Environmental Impact Report (PEIR) in accordance with the PD&E Manual for review and comment by CFX and the GEC. The CONSULTANT will document Project Planning Consistency consistent with requirements for a State Environmental Impact Report (SEIR) in the PEIR. Following review by CFX, the CONSULTANT will prepare this report after all other reports have been finalized. The Final PEIR will be finalized after the Public Meeting.

The documentation shall be developed to and in compliance with all applicable state regulations and all applicable state issuances governing the content and development of this study type. The resultant engineering and environmental reports prepared during the study shall satisfy the level of documentation required for a non-federally funded transportation improvement when a PEIR is prepared. Formal approval by CFX of the study documentation, including the adoption of a preferred alternative, will constitute Location and Design Concept Acceptance (LDCA) of the proposed action as a PEIR.

2.0 – Environmental Analysis & Report Introduction

General Existing Conditions of Project Area

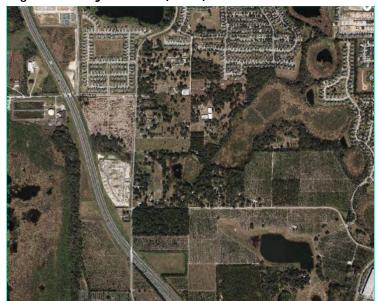
The project area, as defined within the PD&E Study, is the location where alternative concepts for a half interchange that would provide access to SR 429 and a new intersection design at Binion Road and Boy Scout Road are being considered. For consistency in studying the existing and anticipated conditions of the area surrounding the PD&E Study Area, a half mile radius of the general existing conditions surrounding the project area are used.

The entirety of the project area falls within the Apopka City limits, except for 2 parcels at the northeast corner of the intersection of Boy Scout Road and S Binion Road. Within the

Figure 2: Project area (2012)



Figure 3: Project area (2022)



surrounding area, the majority of the land falls within the City of Apopka Corporate Limits, with the remainder of the properties falling within unincorporated Orange County.

The Land Use in this area has slowly changed from primarily larger tracts of land often used for agriculture, to the development of many single-family subdivisions. The rise in population density and subsequent vehicle trips have put stress on the existing roadway network, which consists of mostly rural residential profile. The development of single-family lot subdivisions is likely to continue in the surrounding area, based on current market demand.

These photos (**Figure 2** and **Figure 3**) show aerial images of the surrounding project area taken in 2012 (top) and in 2022 (bottom). The suburbanization is quite evident, and the pressure for connection to the major highway systems, for urbanized intersections, and for regional multi-modal connectivity is expected to increase.

2.a – Social & Economic Environment Analysis

2.a – Social & Economic Environment Analysis Social

Demographics

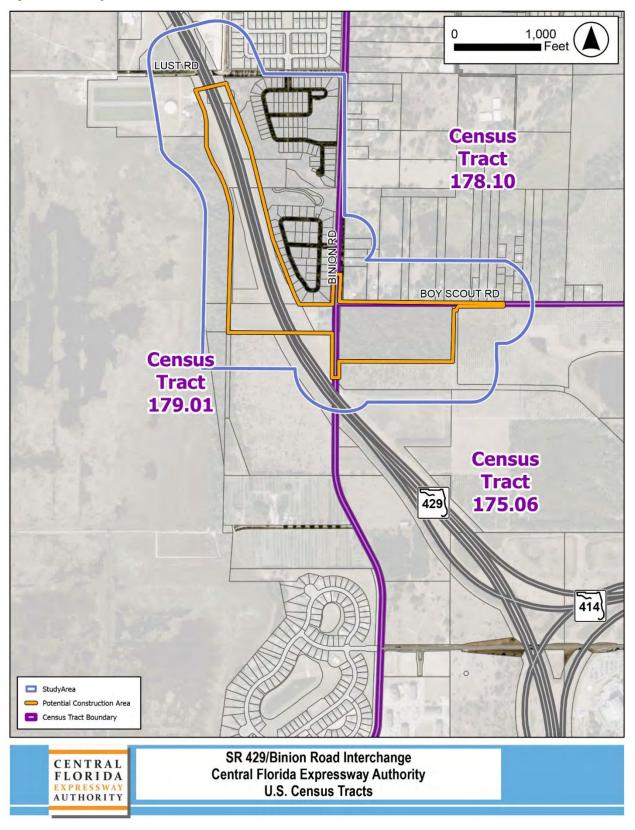
The study area was reviewed to identify minority and/or low-income populations as well as underrepresented population groups protected under *Title VI of the Civil Rights Act of 1964* and related nondiscrimination statutes and regulations. **Table 1** provides study area demographics based on the US Census Tracts in which the project is located. See **Figure 4** for the location of the tracts.

Table 1: Study Area Demographics by Census Tract

Census Tract	Total Population	Percent Minority Population	Percent Population Below Poverty Level	Percent Population Aged 65 and Over
175.06	12,043	62.8%	12.8%	6.2%
178.10	6,244	62.4%	21.3%	15.8%
179.01	2,539	61.5%	5.2%	14.8%
Orange County	1,340,469	56.0%	14.2%	12.0%

Source: 2020 U.S. Census (Total Population, Minority Population); 2020 ACS 5-Year Estimates (Poverty, 65 and Over)

Figure 4: Study Area Census Tracts



Community Features

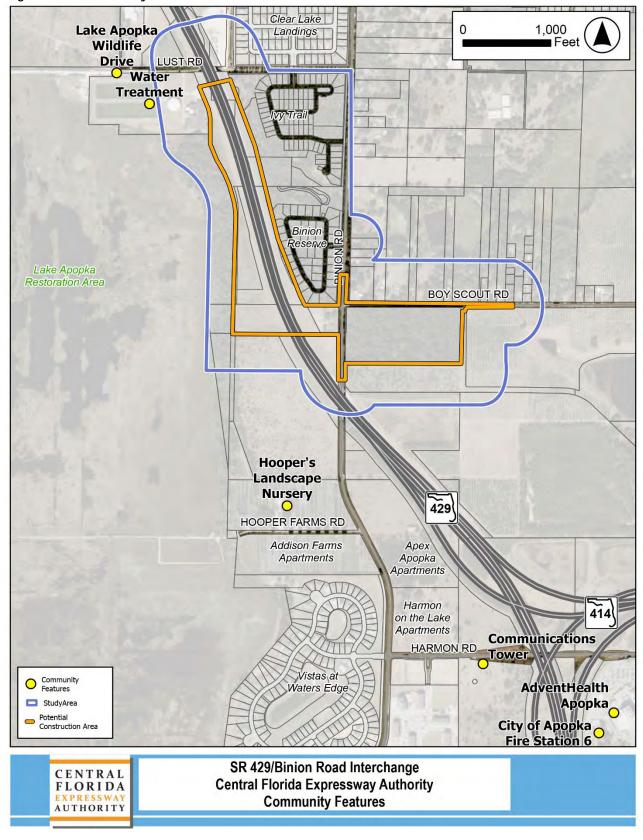
A desktop review of the study area indicates that there are three community facilities within the study area: the entrance to the Lake Apopka Wildlife Drive, including a parking lot used by trail cyclists and hikers, a water treatment facility, and a communications tower. Additionally, there are several neighborhoods within, partially within, or nearby the study area.

It should be noted that just to the southeast of the study area, there is a hospital and City of Apopka fire station. **Table 2** presents community facilities within or near the study area. **Figure 5** presents the community facility locations.

Table 2: Community Features

Name	Type of Facility	Relative Location
City of Apopka Fire Station 6	Institutional	±3,880 feet southeast of study area
Communications Tower	Institutional	±3,120 feet south of study area
Water Treatment Facility	Institutional	Within study area
Lake Apopka Wildlife Drive	Recreation	Partially within study area
Advent Health Apopka	Healthcare	±3,350 feet southeast of study area
Hooper's Landscape Nursery	Commercial Nursery	±780 feet south of study area
Addison Farms Apartments	Neighborhood	±1,350 feet south of study area
Binion Reserve	Neighborhood	Within study area
Clear Lake Landings	Neighborhood	Partially within study area
Ivy Trail	Neighborhood	Within study area
Vistas at Water Edge	Neighborhood	±1,950 feet south of study area
Apex Apopka Apartments	Proposed Neighborhood	±750 feet south of study area
Harmon on the Lake	Proposed Neighborhood	±2,050 feet south of study area

Figure 5: Community Features



Economic

The proposed improvements will provide enhanced regional connectivity in southwest Apopka, which has been experiencing significant population growth, with more development underway. This connection will improve mobility with the region to the north, including Mt. Dora, Tavares, and Eustis, providing access to jobs, services, and recreation. The enhanced mobility will continue to drive economic development.

Land Use Changes

Adjacent land includes parcels within Apopka City Limits and within unincorporated Orange County. The zonings of the parcels include A-1 (Agricultural), MU-ES-GT (Mixed-Use East Shore Gateway Subdistrict), PD (Planned Development), RSF-1A (Residential Single Family Estate), RSF-1B (Residential Single Family – Large Lot), and T (Transitional).

Land uses adjacent to the study area consist of a diverse mixture of developed properties, natural and altered uplands, wetlands and surface water. The Florida Department of Environmental Protection (FDEP) Florida Land Use Cover Classification System (FLUCCS) was used to classify the various land uses and land covers within the study area. **Table 3** summarizes the land uses and the locations are depicted on **Figure 6**.

Table 3: FLUCCS Codes Within Project Area

FLUCCS Code	Description
1100	Residential Low Density
1180	Residential, Rural
1290	Residential Medium Density
1300	Residential High Density
1510	Food Processing
1700	Institutional
2150	Field Crops
2210	Citrus Groves
2410	Tree Nurseries
2430	Ornamentals
3100	Herbaceous (Dry Prairie)
3300	Mixed Upland
4200	Upland Hardwood Forests
4340	Upland Mixed Coniferous/Hardwood
4410	Coniferous Plantations
5200	Lakes
5300	Reservoirs
6170	Mixed Wetland Hardwoods
6181	Cabbage Palm Hammock
6300	Wetland Forested Mixed
6410	Freshwater Marshes
7400	Disturbed Lands
8300	Utilities
8200	Communications
8100	Transportation

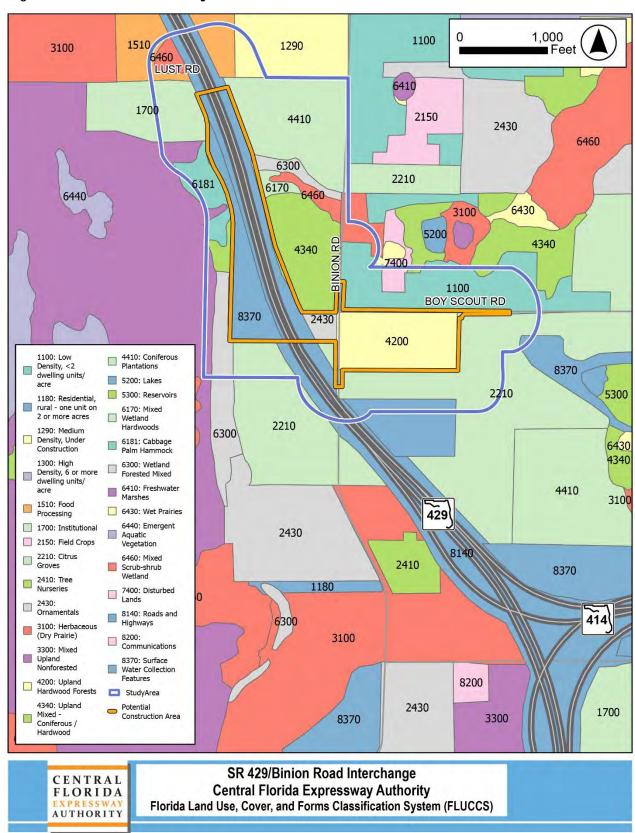


Figure 6: FLUCCS Within Project Area

Mobility

There are no existing transit routes or paratransit access in the immediate project vicinity. To the southeast of the SR 414/429 interchange, there are sidewalks and a transit route (Lynx Link 405 – Apopka Circulator). A review of the LYNX Transit Development Plan FY 2020–2029 indicates there are no proposed transit improvements along Binion Rd, Boy Scout Rd, or SR 429 within the project study area.

There are limited sidewalks in the project area, located only along both sides of the Binion Rd bridge and within nearby subdivisions. There are currently no designated bicycle facilities within the immediate study area. Though to the southeast, Harmon Road includes a paved shoulder. The MetroPlan Orlando Metropolitan Transportation Plan identifies safety improvements on Binion Road from Lakeview Drive to Ocoee-Apopka Road as an unfunded need.

This project's proposed improvements will increase automobile access in the area and provide more efficient connections to places of employment, services, and recreation. Additionally, the intersection will include sidewalks and designated pedestrian crossings to support future mobility improvements in the area.

Aesthetic Effects

Aesthetic impacts of the proposed improvements may include opportunities for landscaping and hardscaping enhancements or establishing a gateway or theme. By providing local access to SR 429 in this rapidly-developing area, there is robust opportunity to support the developments with landscaping or design elements and create a gateway into the area that is largely residential in nature.

There is potential that noise walls may be added. However, in the context of the existing limited-access facility of SR 429, it is not anticipated that this project will negatively impact the overall aesthetics of the area.

2.b - Cultural Environment Analysis

2.b - Cultural Environment Analysis

Historic Sites/Districts & Archaeological Sites

On September 6, 2022, SEARCH, Inc. reviewed concept plans for the construction of the Binion Road and SR 429 interchange, which will include the realignment of Boy Scout Road (**Figure 7**). The purpose of this review was to identify any previously recorded cultural resources within the project area. The Study Area was defined as the parcels where the proposed interchange will be built (the potential construction area) in addition to a 152-meter (500-foot) buffer to address any potential viewshed effects to historic resources (see **Figure 7**). The entire parcels were included in the construction area to accommodate potential lay down or storage areas which have the potential to disturb subsurface deposits. The present document is for information purposes only and does not satisfy any requirements under the National Environmental Policy Act or Section 106 of the National Historic Preservation Act.

Two previously recorded archaeological sites (8OR04357 and 8OR04355) and one building (8OR04363) have been recorded within the SR 429 and Binion Road Interchange Study Area (**Table 4**; see **Figure 7**). All three resources have been previously recommended ineligible for the National Register of Historic Places (NRHP) by the State Historic Preservation Officer (SHPO).

Table 4: Previously Recorded Resources in the SR 429 and Binion Road Interchange Study Area

Archaeological Sites						
FMSF No.	Name	Time Period			NRHP Eligibility Recommendation	
8OR04355	Rabbit Slough	Precontact 1500	t; St. Johns II, AD 800	Ineligible for NRHP		
8OR04357	Exploding Melon	Precontact			Ineligible for NRHP	
Historic Buildings						
FMSF No.	Address Year Built			NRHP Eligibility Recommendation		
8OR0436 3	1085 South Binic	n Road	1930	In	eligible for NRHP	

Review of the FMSF database indicates that the current Study Area has only been partially surveyed by prior studies that meet the current Module Three standards for cultural resource surveys. Given the proximity of the Study Area to the Lake Apopka shoreline (indicating a high potential for precontact archaeological sites), the presence of nearby cultural resources (which could indicate additional resources may be present), and the lack of sufficient cultural resource survey throughout the Study Area, a Phase I Cultural Resource Assessment Survey (CRAS) will be considered as part of the design phase for this project.

Figure 7: Previously Recorded Resources in the SR 429 and Binion Road Interchange Study Area



Recreational Areas and Protected Lands

The nearest recreational area is the Lake Apopka Wildlife Drive, a St. Johns River Water Management District restoration area. The drive is accessed via Lust Road, west-northwest of the project. No direct impacts are anticipated to any recreational areas or protected lands.

2.c - Natural Environment Analysis

2.c - Natural Environment Analysis

A review was conducted of existing conditions related to natural resources for the project. Below is a summary of findings.

Wetlands and Other Surface Waters

An assessment of wetlands and surface waters was conducted within the project study area utilizing the 2014 St. Johns River Water Management District (SJRWMD) FLUCCS and the National Wetland Inventory (NWI) GIS datasets. The project study area contains five (5) potential wetlands, primarily adjacent to SR 429 as shown on **Figure 8**. Due to the hydrologic connections of the onsite wetlands, these wetlands may fall under the jurisdiction of the SJRWMD and FDEP. The potential direct wetland impact as of the current design is approximately 0.49 acres.

Water Resources

There are no aquatic preserves or Outstanding Florida Waters (OFWs) within the project study area. A review of EPA Sole Source Aquifer Protection Program maps of sole source aquifers in the southeastern United States indicated that the project study area is located within the Biscayne Sole Source Aquifer and Recharge Zone. The project will meet all applicable SJRWMD criteria related to water quality. The project is currently a non-federal action receiving no federal monies; therefore, concurrence from the EPA is not required according to the Safe Drinking Water Act. Best Management Practices (BMPs) to control erosion, sediment release, and storm water runoff to minimize adverse impacts on surface water resources will be implemented during design, permitting and construction. Determination has been made that there are no USACE retained waters.

A Water Quality Impact Evaluation Checklist is provided in Appendix A.

Floodplains

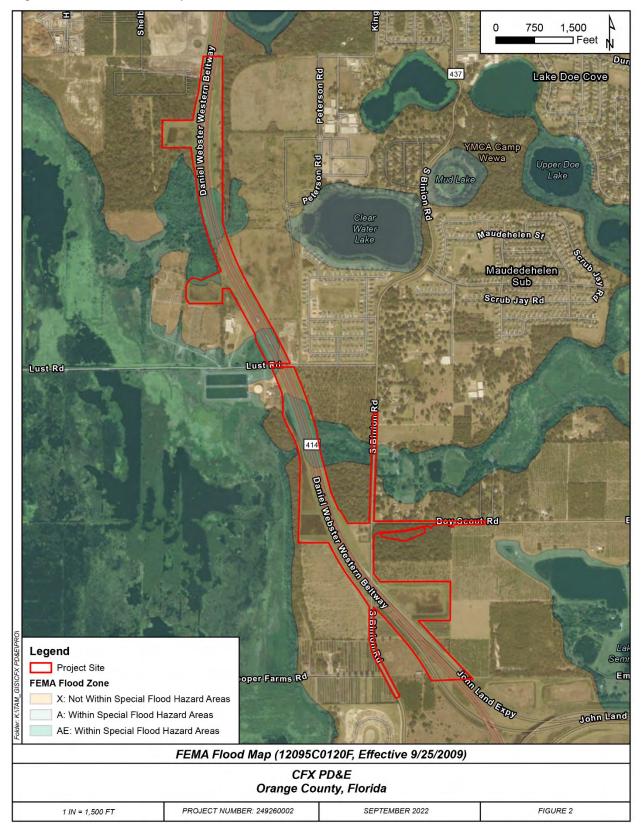
Approximately 23 acres of the ±156-acre project site (14.7%) are classified as being within the Federal Emergency Management Agency (FEMA) Flood Zone AE, within the Special Flood Hazard Areas, where an established Base Flood Elevation (BFE) has been determined, as shown on **Figure 9**. The remaining approximately 133 acres of the project site are classified as being within FEMA Flood Zone X, areas of minimal flood hazard. There is no FEMA Regulatory Floodway within the project study area.

The FEMA flood hazard GIS data for Orange County was used to determine proposed impacts to floodplain. The FEMA GIS data reported approximately 23 acres of floodplain within the proposed project; however, this data did not account for the current alignment of SR 429. Excluding the constructed roadway, the proposed impact to floodplain is approximately 1.84 acres.

Figure 8: National Wetlands Inventory



Figure 9: FEMA Flood Map



Protected Species and Habitat

A database review of potential species occurring within the project study area and immediate vicinity was conducted. Results of the database review are summarized below.

Based on a review of the U.S. Fish and Wildlife Service (USFWS) Critical Habitat Mapper, there is no USFWS designated critical habitat within the project study area. Areas identified by Florida Fish and Wildlife Conservation Commission (FWC) as Strategic Habitat Conservation Areas (SHCA) are located within the project study area. SHCAs are undeveloped natural areas identified by FWC as areas that could provide potential habitat to native plant and wildlife species and, therefore, may be considered for acquisition as conservation lands. However, these areas have no regulatory implications and have not been and may never be acquired for conservation.

Based on Florida Natural Areas Inventory (FNAI) and USFWS IPaC data, no listed plant or wildlife species have been documented near the project site; however, the wood stork (*Mycteria americana*) was listed as likely to occur within one (1) mile of the project site. The project site lies within the Core Foraging Area (CFA) of two (2) active wood stork colonies. The project site also lies within the USFWS consultation area for the Everglade snail kite (*Rostrhamus sociabilis plumbeus*), Florida scrub-jay (*Aphelocoma coerulescens*), sand skink (*Plestiodon reynoldsi*), and Lake Wales Ridge plants. Additional listed species with the potential to occur included the Florida sandhill crane (*Antigone canadensis pratensis*), Florida burrowing owl (*Athene cunicularia floridana*), Audubon's crested caracara (*Caracara cheriway*), eastern indigo snake (*Drymarchon couperi*), red-cockaded woodpecker (*Dryobates borealis*), gopher tortoise (*Gopherus polyphemus*), short-tailed snake (*Lampropeltis extenuata*), eastern black rail (*Laterallus jamaicensis ssp. jamaicensis*), and Everglade snail kite (*Rostrhamus sociabilis plumbeus*). There are no known wading bird rookeries or bald eagle nests within the project study area or within one (1) mile of the project site.

Table 5 below lists species that may occur and their likelihood of occurrence. Likelihood of occurrence is based on potential habitat presence and documented occurrences of the species within various databases. A Low ranking indicates that suitable habitat is not likely within the proposed project site and the species has not been documented within one (1) mile of the proposed project site. A Moderate ranking indicates that either suitable habitat is likely within the proposed project site, or the species has been documented within one (1) mile of the proposed project site. A High ranking indicates suitable habitat exists within the proposed project site and the species has been documented within one (1) mile of the proposed project site.

Table 5: Listed Species with the Potential to Occur Within the Project Site

Common Name	Scientific Name	Status	Documente d (<1 mile)	Habitat Present	Likelihood of Occurrenc e
Avian					
Everglade snail kite	Rostrhamus sociabilis plumbeus	FE	No	No	Low
Florida scrub- jay	Aphelocoma coerulescens	FT	No	No	Low
Wood stork	Mycteria americana	FT	No	Yes	Moderate
Florida sandhill crane	Grus canadensis pratensis	ST	No	Yes	Moderate
Bald eagle	Haliaeetus leucocephalus	NL*	Yes	Yes	High
Reptilian					
Eastern indigo snake	Drymarchon corais couperi	FT	No	Yes	Moderate
Sand skink	Neoseps reynoldsi	FT	No	No	Low
Gopher tortoise	Gopherus polyphemus	C/ST	No	Yes	Moderate

Legend

FE - Federally Endangered; FT - Federally Threatened; FT(S/A) - Threatened due to

Similarity of Appearance; C - Candidate for Listing

SE - State Endangered; ST - State Threatened

NL - Not Listed, but have other regulatory protections

*Protected by the Bald and Golden Eagle Protection Act

Note: Coordination is not required with FWC for federally listed species

Federal Listed Fauna

Birds

Audubon's Crested Caracara

Audubon's crested caracara (caracara) is listed as threatened by USFWS and FWC. Caracaras are large, boldly patterned raptors, with a crest and unusually long legs. Caracaras are year-round residents in Florida. The species has been reported from the Kissimmee, Caloosahatchee and Upper St. Johns River basins, and the Kissimmee prairie. The crested caracara is strongly associated with open habitats, preferring large expanses of pastures, grasslands, or prairies with numerous shallow ponds and sloughs and single or small clumps of cabbage palms, live oaks, and cypress. The caracara is an opportunistic feeder with a broad diet consisting of carrion and live prey, including invertebrates associated with carrion and dung in pastures. They forage in a wide variety of habitats including pastures, along roads, wetlands and agricultural lands including citrus groves. This species has not been documented within one (1) mile of the project study area.

Eastern Black Rail

The eastern black rail is listed as threatened by the USFWS. Black rails are small blackish-gray birds with bright red eyes that live in a wide range of wetland habitats. Eastern black rail habitat can be tidally or non-tidally influenced, and range in salinity from salty to brackish to freshwater marshes.

This species requires dense overhead cover and soils that are moist to saturated and interspersed with very shallow water. According to FNAI data, the eastern black rail has not been documented within one (1) mile of the project study area.

Everglade Snail Kite

The Everglades snail kite is listed as endangered by USFWS and FWC. This species is a mid-sized raptor that can reach a length of 14.2-15.4 inches. Males are slate gray with red eyes and orange legs, which turn more reddish during breeding season. Females are brown with red eyes and yellow to orange legs, with varying amounts of white streaking on the face, neck, and chest. Snail kites have a highly specific diet, which is made up almost exclusively of apple snails (*Pomacea paludosa*). Snail kites typically prefer large, open, freshwater marshes and shallow lakes (< 4 ft. deep) with a low- density of emergent vegetation and typically nest in low trees or shrubs over water (commonly willow, wax myrtle, pond apple, or buttonbush, but also in non-woody vegetation like cattail or sawgrass).

The project site is located within the USFWS consultation area for the snail kite; however, the species has not been documented within one (1) mile of the project site.

Florida Scrub-Jay

The Florida scrub-jay (scrub-jay) is listed as threatened by USFWS and FWC. Scrub-jays are similar in size and shape to their relative, the blue jay, but they differ strikingly in color pattern and exhibit subtle markings as opposed to the blue jay. They have a pale blue head, nape, wings and tail and are pale gray on the back and belly. The Florida scrub-jay is a non-migratory species and is relatively sedentary and rarely sustains a flight of more than a kilometer. This species prefers low growing oak scrub habitats, including sand pine and scrubby flatwoods. Optimal habitat includes scrub oak with most of the oaks and other shrubs limited to ~3-12 feet in height, interspersed with numerous small patches of bare sand. Fire is a frequent natural event in scrub habitats and serves to maintain the habitat. Fire suppression and development of the habitat has made this species vulnerable to extinction.

The project site is located within the USFWS consultation area for the scrub jay; however, the species has not been documented within one (1) mile of the project site. Surveys may be required to determine presence or absence of the scrub-jay. Coordination with USFWS may be required to address impacts to scrub-jay habitat, if scrub-jays are observed.

Red-Cockaded Woodpecker

The red-cockaded woodpecker (RCW) is listed as endangered by USFWS and FWC. The RCW is a black and white bird that can reach lengths of 9 inches and a weight of 1.8 ounces. RCWs have a large white patch located on their cheek, a black head and neck, a white belly, and a barred black and white back. The red-cockaded, which is only found on the male, consists of a small red streak above the cheek and is rarely visible. RCWs inhabit open, mature pine woodlands that have a diversity of grass and shrub species. Preferred habitat includes longleaf pine flatwoods in north and central Florida and mixed longleaf pine and slash pine in southcentral Florida. The RCW creates cavities within the longleaf pine tree and relies on the tree's production of resin to protect them from predators. Development of longleaf pine habitat as well as fire exclusion in this fire-dependent ecosystem has led to a large decrease in populations of

RCWs. According to FNAI data, the RCW has not been documented within one (1) mile of the project study area.

Wood Stork

The wood stork is listed as threatened by USFWS and FWC. The wood stork is a large, long legged wading bird that reaches a length of 35-45 inches with a wingspan of 60-65 inches. Wood storks are typically found in marshes, cypress swamps, and mangrove swamps, but their presence in artificial ponds, seasonally flooded roadside or agricultural ditches, and managed impoundments has become common. Wood stork breeding areas extend from South Florida through Georgia and along the coastal areas of South Carolina. Wood storks are known to nest with other wading bird species, including white ibis, tricolored herons, snowy egrets, and great blue herons. Foraging habitat consists of nearly any calm, shallow water area (between 4 and 10 inches) or wetland depression that concentrates fish and is not overgrown with dense, aquatic vegetation. Some examples of foraging habitat include freshwater marshes, stocked ponds, shallow ditches, narrow tidal creeks, shallow tidal pools, and depressional areas of cypress heads and swamp sloughs.

No wood storks have been documented within one (1) mile of the project study area; however, there is suitable foraging habitat within the wetlands in the project study area and the project study area is within the core foraging area of the Lawne Lake and Eagle Nest Park nesting colonies.

Reptiles

Eastern Indigo Snake

The eastern indigo snake is listed as threatened by USFWS and FWC. This species is a very large, stout-bodied, shiny black snake and is widespread but uncommon in Florida. These snakes require large tracts of land for survival and are typically restricted to xeric habitats on pine-oak sandhills.

Indigo snakes forage in hydric habitats, often along wetland ecotones. In south Florida, preferred habitat for the eastern indigo snake includes a diverse assemblage including pine flatwoods, scrubby flatwoods, floodplain edges, sand ridges, dry glades, tropical hammocks, edges of freshwater marshes, muckland fields, coastal dunes, and xeric sandhill communities (*Eastern Indigo Snake Programmatic Effect Determination Key (South Florida) – Revised July 2017*). Eastern indigo snakes are often found in strong association with gopher tortoises but are also known to use the burrows of armadillos, cotton rats, and land crabs (in coastal areas). No indigo snakes have been documented within one (1) mile of the project study area.

Sand Skink

The sand skink is listed as threatened by USFWS and FWC. The sand skink is a small, slender, grey to light brown lizard with shiny scales that can reach a length of five inches and the bluetail mole skink is a small lizard with a brownish body with a blue tail that can reach five inches in length. Skinks typically inhabit scrub, sandhill, and xeric hammock habitats located along the central ridge of Florida, from Putnam to Highlands County. Skinks are found at elevations above 82 feet and utilize 28 distinct soil types.

The project study area is located within the USFWS Consultation Area for the sand skink and contains suitable soils; however, no sand skinks have been documented within one (1) mile of the project site.

State Listed Fauna

Birds

Florida Burrowing Owl

The Florida burrowing owl is a small, ground-dwelling owl that is listed as threatened by the FWC. This species requires areas of short, herbaceous groundcover such as prairies, sandhills, and farmland. Burrowing owls can be found in ruderal areas such as pastures, airports, ball fields, undeveloped residential parcels, and road rights-of-ways. They often dig their own burrow and line the entrance with decorative materials prior to laying eggs at the bottom of the burrow. According to FNAI data, no individuals of this species have been documented within one (1) mile of the project site.

Florida Sandhill Crane

The Florida sandhill crane is listed as threatened by the FWC. This species is a tall grey bird with a red forehead, and long neck and legs. The Florida sandhill crane is non-migratory and inhabits open grasslands, freshwater marshes, swampy edges of lakes and ponds, riverbanks, prairies, pasture lands and occasionally pine savanna throughout the state. Florida sandhill cranes typically start nesting on the margins of marshes and wet grasslands in late December and continue into June. The nests are built by both adults and generally consist of sticks, reeds, grasses and mosses. Sandhill cranes are omnivorous and have been known to feed on seeds, grains, berries, insects, earthworms, mice, small birds, snakes, lizards, frogs, and crayfish.

According to FNAI data, no sandhill cranes have been documented within one (1) mile of the project study area.

Reptiles

Gopher Tortoise

The gopher tortoise is listed as threatened by the FWC and is a candidate species for listing under the ESA by USFWS. This species requires well-drained and loose sandy soils for burrowing and low- growing herbs and grasses for food. These conditions are best found in the sandhill (longleaf pine- xeric oak) community, although tortoises are known to use many other habitats including sand pine scrub, xeric oak hammocks, dry prairies, pine flatwoods, and ruderal sites.

Potential suitable habitat is present within the project; however, no gopher tortoises have been documented within one (1) mile of the project study area. If any potentially occupied gopher tortoise burrows are located within 25 feet of project limits of disturbance, an FWC gopher tortoise relocation permit will be required to excavate and relocate the gopher tortoises prior to the start of construction.

Short-tailed Snake

The short-tailed snake is listed as threatened by FWC. This species' preferred habitat is longleaf pine-turkey oak forests, but also occurs in scrub and dry oak hammocks. This species requires dry, loose, and sandy soils for burrowing, as the short-tailed snake spends the majority of its time underground. According to FNAI data, no individuals have been documented within one (1) mile of the project site.

Non-Listed Species

Florida Black Bear

The Florida black bear was removed from the FWC list of state-threatened species in August 2012; however, the Florida black bear remains protected under other rules and regulations, primarily through the Florida Black Bear Conservation Rule 68A-4.009 (F.A.C.) and the FWC Florida Black Bear Management Plan. Based on these regulations, pursuing, hunting, molesting, capturing, killing, or attempting those actions, whether or not such actions result in possession of the bear is unlawful. In addition, Rule 68A-4.009, F.A.C., generally prohibits anyone from possessing, injuring, shooting, wounding, trapping, collecting, or selling bears or their parts or attempting to engage in such actions without prior authorization from FWC. Black Bear Management Units (BMU) have also been established based on the seven geographically distinct bear subpopulations in Florida. The project study area is located within the Central BMU.

Black bears are adaptable and inhabit a variety of forested habitats including seasonally inundated pine flatwoods, tropical hammocks, hardwood swamps and xeric sand pine-scrub oak communities. Based on a review of GIS databases, there are several black bear observations, nuisance reports, or road kills have been reported within one (1) mile of the project site.

2.d - Physical Environment Analysis

2.d – Physical Environment Analysis Highway Traffic Noise

A traffic noise analysis was performed in accordance with the FDOT PD&E Manual. A Traffic Noise Model was used to evaluate existing conditions, the No-Build Alternative and the Build Alternative for the Noise Sensitive Areas (NSAs) potentially impacted by traffic noise within 400 feet of the project corridor.

Per these analyses, five sites (four Category B and one Category C) are currently affected by traffic noise. The noise levels associated with the 2045 No-Build Alternative are predicted to meet or exceed the 66.0 dB(A) FDOT noise abatement criteria (NAC) at nine Category B residences and one Category C site.

Once the interchange project is built, the overall traffic noise levels will increase by an average of 3.1 dB(A), with the average project-related noise level, predicted to be 63.2 dB(A). The 2050 Build Alternative's noise levels are predicted to meet or exceed the 66.0 dB(A) FDOT NAC at 18 Category B and one Category C receptor. The highest noise level is predicted to be 74.0 dB(A) in NSA 3. None of the increases are considered substantial (i.e., 15 dB(A) or more over existing levels).

As required, noise abatement consideration was given to all 19 impacted sites. Noise Barrier NB1 was evaluated to mitigate the impacts. Of the three analyzed options, Option 2 and Option 3 were found to meet all FDOT acoustic and cost criteria. Thus, the two options, summarized in **Table 6,** are recommended for further consideration in the project's final design phase.

Table 6: Noise Barrier Recommendations

Noise Study Area	Impacted Development	Barrier ID	Barrier Height (ft)*2	Barrier Length (ft)	Barrier Location	Estimated Barrier Cost*1	Recommended for further evaluation?
		NB1 Option 2	14	2,385	Shoulder	\$1,001,700	Yes
NSA 3 Binion Reserve Ivy Trails	NB1	14	2,005	Shoulder	¢1 000 720	Yes	
		Option 3	10/12/1 4/16	604	ROW	\$1,089,720	res

^{*1 –} Based on FDOT Statewide average of \$30 per square foot

Additional information is provided in the **Highway Traffic Noise and Noise Study Report** provided in **Appendix B.**

Air Quality

As part of this project study, an air quality evaluation has been performed consistent with the

^{*2 – 8-}ft max on MSE/Bridge; 14-ft max on shoulder; 22-ft max at ROW or offset from shoulder

FDOT PD&E Manual, Part 2, Chapter 19. Based on this initial evaluation, a detailed Air Quality analysis is not needed because the project does not meet the two qualifying criteria per Section 19.2.2.1, Part 2, Chapter 19 of the PD&E Manual. It does not require an Environmental Impact Statement, and it is not expected to have community controversy regarding air quality.

This project is not expected to create adverse impacts on air quality because the project area is in attainment for all National Ambient Air Quality Standards (NAAQS) and because the project is expected to improve the Level of Service (LOS) and not change delay and congestion on all facilities within the study area.

Construction activities may cause short-term air quality impacts in the form of dust from earthwork and unpaved roads. These impacts will be minimized by adherence to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction.

Contamination Screening

A Contamination Screening Evaluation was prepared per the project scope as a part of the Evaluation of Physical Resources. The **Contamination Screening Evaluation Technical Memorandum (Appendix D)** includes a site figure indicating the location of potential contamination sites, brief summaries of the most recent assessment information available through Map Direct, and recommendations on necessity for additional evaluation.

Construction

Construction activities may cause short-term air quality impacts in the form of dust from earthwork and unpaved roads. These impacts will be minimized by adherence to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction.

Based on the existing land use within the limits of this project, construction of the proposed roadway improvements will not have any noise or vibration impact. If noise-sensitive land uses develop adjacent to the roadway prior to construction, additional impacts could result. It is anticipated that the application of the FDOT Standard Specifications for Road and Bridge Construction will minimize or eliminate most of the potential construction noise and vibration impacts. However, should unanticipated noise or vibration issues arise during the construction process, CFX and the Contractor will investigate additional methods of controlling these impacts.

Because no federally listed species are likely to be present in the action area and no critical habitat was identified, the construction of this project is not anticipated to impact any proposed threatened or endangered species, any threatened or endangered species, or affect or modify any critical habitat.

Further, construction will likely temporarily impact existing traffic patterns, but as with all construction impacts, will be temporary in nature and efforts will be made to minimize negative impacts by adhering to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction.

Bicycles & Pedestrians

As stated earlier in this memo, there are limited sidewalks in the project area, located only along both sides of the Binion Rd bridge and within nearby subdivisions. There are currently no designated bicycle facilities within the immediate study area; however, Harmon Road includes a paved shoulder.

The MetroPlan Orlando Metropolitan Transportation Plan identifies safety improvements on Binion Road from Lakeview Drive to Ocoee-Apopka Road as an unfunded need.

The Orange County Comprehensive Plan 2010-2030 identifies a future Lake Apopka trail that travels along the northern shore of the lake, west of the project. Additionally, the Orange County Transportation Initiative assessment has identified a pedestrian and safety lighting project along Binion Rd as a need.

The City of Apopka 2030 Comprehensive Plan does not identify any bicycle or pedestrian facilities planned within or near the study area.



Appendix A – Water Quality Impact Evaluation Checklist

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

650-050-37 ENVIRONMENTAL MANAGEMENT 10/17

WATER QUALITY IMPACT EVALUATION CHECKLIST

PART 1: PROJECT INFORMATION					
Project Name:	DANIEL WEBSTER WESTERN BELTWAY				
SR 429 / BINION ROAD INTERCHANGE					
County:	Orange				
FM Number: N/A					
Federal Aid Project No:	N/A				
Brief Project Description: PART 2: DETERMINATION	This PD&E includes evaluating a proposed half interchange (northbound on-ramp and southbound off-ramp) expressway connection from Binion Road to SR 429 to provide enhanced access and mobility to southwest Apopka as well as analyze intersection improvements and access management modifications along the proposed interchange. ON OF WQIE SCOPE				
Does project discharge to sur	rface or ground water? ⊠ Yes □ No				
Does project alter the drainag	ge system?				
Is the project located within a Name:	permitted MS4?				
If the answers to the questions above are no, complete the applicable sections of Part 3 and 4, and then check Box A in Part 5.					
PART 3: PROJECT BASIN AND RECEIVING WATER CHARACTERISTICS					
Surface Water Receiving water(s) names: Lake Apopka					
Water Management District: St. Johns River Water Management District					
Environmental Look Around meeting date: Click here to enter a date. Attach meeting minutes/notes to the checklist.					
Water Control District Name (list all that apply): N/A					
Is the project located within a springshed or recharge area?					
Ground Water Sole Source Aquifer (SSA)? ☐ Yes ☒ No Name If yes, complete Part 5, D and complete SSA Checklist shown in Part 2, Chapter 11 of the PD&E Manual					
Other Aquifer? Name <u>Floridan</u>	⊠ Yes □ No Aquifer				

Springs vents? Name		⊠ No	_	
Well head protection area? Name				
Groundwater recharge? Name	Yes	⊠ No		
Notify District Drainage Engitreatment may be needed of Impaired in accordance with	due to a p	project being	located within a	<u> </u>
Date of notification: Click here	to enter a da	ate.		
PART 4: WATER QUALITY	CRITERIA			
List all WBIDs and all parame TMDL in <u>Table 1</u> . This inform				
Note: If BMAP or RAP has be Attach notes or minutes from all co				lso be completed.
EST recommendations confi	rmed with	agencies?		⊠ Yes ☐ No
BMAP Stakeholders contacte	ed:			☐ Yes ⊠ No
TMDL program contacted:				☐ Yes ⊠ No
RAP Stakeholders contacted	:			☐ Yes ⊠ No
Regional water quality projec	cts identifie	d in the ELA		☐ Yes ⊠ No
If yes, describe:				
Potential direct effects associand/or operation identified? If yes, describe:	iated with	project const	ruction	⊠ Yes □ No
The proposed improvemen 429 and Binion Road; there proposed intersection as w	efore, addit	tional stormw	ater ponds are pro	oposed near the

of a curb and gutter system and proposed stormwater ponds will treat the runoff providing an overall enhancement of the water quality. To ensure there are no secondary/indirect impacts, Best Management Practices will be employed during construction to minimize potential runoff and stormwater management will be designed and implemented as required by state regulations.

Discuss any other relevant information related to water quality.

PART 5: WQIE DOCUMENTATION					
 □ A. No involvement with water quality □ B. No water quality regulatory requirements apply information below). Water quality and quantity compliance with the design requirements of at □ D. EPA Ground/Drinking Water Branch review Concurrence received? □ If Yes, Date of EPA Concurrence: Click here to exact the concurrence letter 	y to this project (provide Evaluator's issues will be mitigated through uthorized regulatory agencies. y required. Yes No				
The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by CFX pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.					
Evaluator Name (print): Jeff Hemphill					
Title:Environmental Scientist					
Signature: Off Hamphill	Date:10/26/2022				

Table 1: Water Quality Criteria

Receiving Waterbody Name (list all that apply)	FDEP Group Number / Name	WBID(s) Numbers	Classification (I,II,III,IIIL,IV,V)	Special Designations*	NNC limits**	Verified Impaired (Y/N)	TMDL (Y/N)	Pollutants of concern	BMAP, RA Plan or SSAC
Lake Apopka	1/Ockla waha	2841 and 2854	III		Lake	Yes	Yes	Nutrients	No
	<u> </u>								

^{*} ONRW, OFW, Aquatic Preserve, Wild and Scenic River, Special Water, SWIM Area, Local Comp Plan, MS4 Area, Other

** Lakes, Spring vents, Streams, Estuaries
Note: If BMAP or RAP has been identified in <u>Table 1</u>, <u>Table 2</u> must also be completed.

Table 2: REGULATORY Agencies/Stakeholders Contacted

Receiving Water Name (list all that apply)	Contact and Title	Date Contacted	Follow-up Required (Y/N)	Comments



Appendix B – Highway Traffic Noise and Noise Study Report

Environmental Transportation Planning, LLC

37 Jackson Avenue, Ponte Vedra Beach, FL 32082 Main Office: 904.273.0788

MEMORANDUM

January 16, 2023

To: Greg Seidel, P.E. – The Balmoral Group

Bronce Stephenson – The Balmoral Group

Jonathan Williamson, ACIP – Dewberry Engineers

From: Jason Cornell

Subject: Noise Study Report Addendum

CFX Project #429-309 PD&E Study SR 429 / Binion Road Interchange

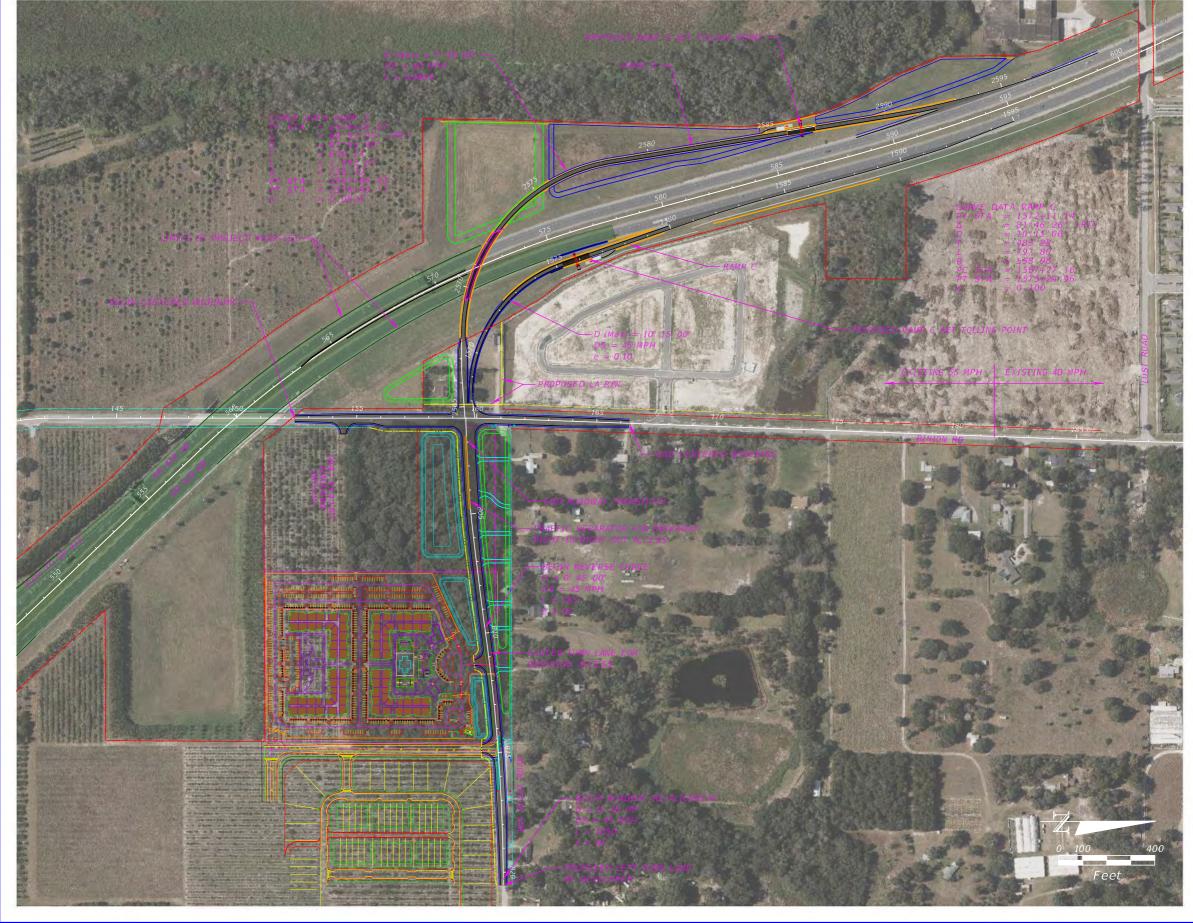
Orange County

The October 2022 Traffic Noise Study Report documented the analysis conducted as part of the PD&E Study. At that time, the selected alternative included a roundabout intersection for Binion Road and Boys Scout Road. After finalizing the report, the roundabout intersection has been replaced with a signalized intersection. A roundabout is still an option presented in the engineering documentation.

The recommended noise barriers were analyzed to abate traffic noise from SR 429. Thus, the change in the intersection design is not anticipated to change the outcome of the barrier results.

The Traffic Noise Study will be re-evaluated during the project's Design Phase at which time the signalized intersection will be incorporated into the analysis.





Traffic Noise Study Report

Daniel Webster Western Beltway

SR 429 / Binion Road Interchange
Project Development and Environment (PD&E) Study
Orange County, Florida
CFX Project No: 429-309

Prepared For: Central Florida Expressway Authority



Prepared By: Environmental Transportation Planning, LLC Ponte Vedra Beach, FL

> In Association With: Dewberry Engineers, Inc. Orlando, FL

> > October 2022



TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Project Limits	1
1.2	Purpose and Need	1
1.3	Build Alternative	2
1.4	No-Build Alternative	2
2.0	METHODOLOGY	4
2.1	Noise Metrics	4
2.2	Traffic Data	4
2.3	Noise Abatement Criteria	5
2.4	Noise Abatement Measures	7
3.0	TRAFFIC NOISE ANALYSIS	9
3.1	Identification of Noise Sensitive Sites	9
3.2	Model Validation	9
3.3	Predicted Noise Levels	
-	3.1 Noise Study Area 1	
	3.2 Noise Study Area 2	
4.0	CONCLUSION	
4.1	Statement of Likelihood	18
5.0	CONSTRUCTION NOISE AND VIBRATION IMPACTS	
6.0	COMMUNITY COORDINATION	18
6.1	Noise Impact Contours	18
6.2	Public Meetings	19
7.0	REFERENCES	20



LIST OF FIGURES

Figure 1: Project Location Map	3
LIST OF TABLES	
Table 1: Noise Abatement Criteria	6
Table 2: Comparative Sound Levels	7
Table 3: Field Measurement Data and TNM Validation Results	10
Table 4: Impact Analysis Summary	12
Table 5: Noise Barrier NB1 Evaluation Summary	16
Table 6: Project #429-309 Noise Barrier Recommendations	17
Table 7: Critical Distance Impact Contours	19

LIST OF APPENDICES

Appendix A: Typical Sections

Appendix B: Noise Study Traffic Data

Appendix C: Noise Impact Comparison Matrix

Appendix D: Project Aerials

Appendix E: Noise Barrier Maps



1.0 INTRODUCTION

The Daniel Webster Western Beltway (SR 429) is a 23-mile long, limited-access toll road that extends from Interstate 4 in Osceola County to US 441 in Orange County. Expansion of the Beltway's capacity is underway from Tilden Road to the north of SR 414. The Central Florida Expressway Authority (CFX) is now conducting a Project Development and Environment (PD&E) Study to evaluate a proposed half interchange expressway connection from Binion Road to SR 429. The new interchange and other improvements will provide enhanced access and mobility to southwest Apopka.

1.1 Project Limits

The study area runs along the vicinity of Binion Road and Boy Scout Road at SR 429. The project study area is illustrated in **Figure 1.**

1.2 Purpose and Need

Purpose

A new interchange connection between SR 429 and Binion Road has been identified as a need to provide enhanced access and mobility to southwest Apopka from SR 429 in the vicinity of Binion Road. Currently, vehicles in the vicinity of Binion Road must enter or exit SR 429 by traveling approximately three miles north to just north of US 441 at the SR 429 Connector Road interchange or travel approximately three miles south to the interchange at Ocoee Apopka Road. Therefore, this PD&E Study will analyze and evaluate a proposed half interchange (northbound on-ramp and southbound off-ramp) expressway connection from Binion Road to SR 429. Additional purposes for the project include improved emergency vehicle access to the hospital and supporting economic development.

Need

Six project needs serve as justification for the proposed improvements. These needs are to 1) Provide system linkage; 2) Provide regional connectivity and mobility; 3) Support social and economic needs; 4) Provide consistency with Local and Regional Plans; 5) Accommodate and provide for multi-modal transportation options; and 6) Design a safe intersection at Binion Road & Boy Scout Road.

Environment

Environmental analyses are a critical component of any PD&E study. When evaluating new infrastructure, the potential environmental effects are studied, with multiple evaluations covering the spectrum of natural and human-centered environments.

The objective of this Traffic Noise Study Report is to summarize the traffic noise analysis conducted for the PD&E's preferred build alternative. The analysis identifies the noise sensitive



receptors within the study corridor and evaluates the noise levels predicted to occur due to the proposed project. Sites and communities not specifically identified in **Appendix D** are 1) not within the project limits or 2) are located too far from the adjacent roadways under study to be considered noise sensitive.

1.3 Build Alternative

The PD&E's preferred build alternative is illustrated in **Appendix A**. Additional engineering detail can be found in the project's Preliminary Engineering Report (PER).

1.4 No-Build Alternative

Consistent with FDOT guidelines, this analysis also considers an alternative that assesses what would happen to the environment in the future if this proposed project was not built. This alternative called the No-Build Alternative consists of the existing roadways within the study area, programmed improvements to existing facilities, and routine maintenance improvements to these facilities. While the No-Build Alternative does not meet project needs, it provides a baseline condition to compare and measure the proposed project's effects.

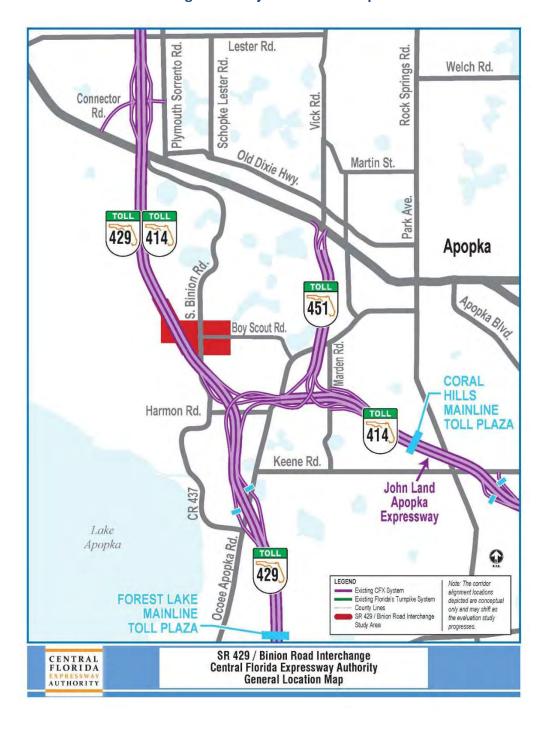


Figure 1: Project Location Map



2.0 METHODOLOGY

The traffic noise study conducted for this project is consistent with *Code of Federal Regulations* (C.F.R.), Title 23, § 772; Chapter 335, Section 335.17, *Florida Statutes*; Part II, Chapter 18 of the Florida Department of Transportation's (FDOT) *Project Development and Environment Manual*; and Federal Highway Administration's (FHWA) traffic noise analysis guidelines contained in *FHWA-HEP-10-025*. The FHWA Traffic Noise Model (TNM) - version 2.5 was used to predict traffic noise levels for this project. The analysis evaluated noise levels for the existing condition and the 2045 No-Build and Build Alternatives.

Noise receptor coordinates used in the TNM are located in exterior areas where frequent human use may occur, usually at the edge of the residential structure closest to the project roadways, unless the analyst's professional judgment determines otherwise.

Project engineering design files were used to determine the design alternative's location for input into TNM. Roadway elevation data for the study was obtained from the project engineering team. Data for the noise receptors and cross streets were obtained from the United States Geological Survey digital elevation models¹. Additional receptor elevation data was gleaned from the approved final development plans for the two residential communities adjacent to SR 429.

2.1 NOISE METRICS

Noise is typically defined as unwanted sound. Traffic noise is a combination of noises produced by the engine, exhaust, and tires and is never constant. The noise metric used to describe this combination of noise is called "Leq." This metric allows for the fluctuations of daily traffic noise to be analyzed in terms of steady noise levels with the same acoustic energy, and thus, is the level of constant sound. Constant sound is quantified by a meter that measures units called decibels (dB). For highway traffic noise, an adjustment or weighting of the high and low-pitched sounds is applied to approximate how an average person hears. These adjusted sounds are called "A-weighted decibels" and are expressed as "dB(A)."

2.2 TRAFFIC DATA

Traffic noise is heavily dependent on traffic volume and speed, with the amount of noise generated by traffic increasing as the vehicle speed and number of vehicles increase. Characteristics contributing to the 2045 Design Year's highest traffic noise levels were used to predict project noise levels. Worst-case noise conditions occur with the maximum traffic traveling at the posted speed and represent a Level of Service (LOS) C operating condition. However, if the traffic analysis indicates the roadway will operate below LOS C, the project's Demand peak-hour directional traffic volumes are used per Chapter 18 of the FDOT PD&E Manual. Traffic volumes and speeds used in the analysis are included in **Appendix B**.

¹ USGS, https://apps.nationalmap.gov/lidar-explorer/#/



2.3 NOISE ABATEMENT CRITERIA

Land use plays an important role in traffic noise analyses. To determine which land uses are "noise sensitive," this noise impact analysis used the FHWA Noise Abatement Criteria (NAC). **Table 1** shows these criteria are divided into individual land use activity categories. The FDOT has established noise levels at which noise abatement must be considered for each of these categories, referred to in this report as the FDOT NAC. Another criterion for determining project impacts that warrant abatement consideration occurs when project noise levels are below the NAC but show a substantial increase (15.0 dB(A) or more) over existing levels.



Table 1: Noise Abatement Criteria

Hourl	•	ghted Sou els (dB(A)		
Activity	Activity	Leq(h) 1	Evaluation	Description of Activity Category
Category	FHWA	FDOT	Location	
А	57.0	56.0	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need; and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B ²	67.0	66.0	Exterior	Residential.
C ²	67.0	66.0	Exterior	Active sports areas, amphitheaters, auditoriums, campgrounds, cemeteries, daycare centers, hospitals, libraries, medical facilities, parks, picnic areas, golf courses, places of worship, playgrounds, public meeting rooms, public/nonprofit institutional structures, radio studios, recording studios, recreational areas, Section 4(f) sites, schools, television studios, trails, and trail crossings. Auditoriums, daycare centers, hospitals, libraries, medical facilities, places of worship, public meeting
D	52.0	51.0	Interior	rooms, public/nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E ²	72.0	71.0	Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties, or activities not included in A-D or F.
F	-	-	-	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G	-	-	-	Undeveloped lands that are not permitted.

(Based on Table 1 of 23 CFR Part 772)

¹The Leq(h) Activity Criteria values are for impact determination only and are not design standards for noise abatement measures.

² Includes undeveloped lands permitted for this activity category.



An illustration of typical exterior and interior noises and their corresponding sound level is presented in **Table 2**. This table gives the reader a better understanding of the noise levels discussed herein. In Florida, noise levels that reach 66.0 dB(A) at Activity Category B and C land use require noise abatement consideration. A 71.0 dB(A) noise level is required for an Activity Category E land use to be impacted by traffic noise.

Table 2: Comparative Sound Levels

Common Outdoor Activity	dB(A)	Inside Activity
Jet Flyover at 1,000 ft. Gas Lawn Mower at 3 ft.	110	Rock Band
Diesel Truck at 50 ft. (at50 mph) Busy Urban Area Daytime	90 80	Food Blender at 3 ft. Garbage Disposal at 3 ft.
Gas Mower at 100 ft. Commercial Area Heavy Traffic at 300 ft.	70	Vacuum Cleaner at 10 ft. Normal Speech at 3 ft. Large Business Office
Quiet Urban Daytime	50	Dishwasher Next Room
Quiet Urban Nighttime Quiet Suburban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Rural Nighttime	30 20	Library Bedroom at Night
	10	
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing
Source: California Dept. of Transportation	Technical No	oise Supplement, Oct. 1998, Pg. 18

2.4 Noise Abatement Measures

When traffic noise impacts are identified, noise abatement must be considered. The potential abatement alternatives include traffic management techniques, alternative roadway alignments, buffer zones, and noise barriers. The most common type of noise abatement measure is the construction of a noise barrier that reduces traffic noise by blocking the sound path between the roadway and the adjacent noise receptor.



Consistent with the FDOT PD&E Manual – Chapter 18, the following factors must be evaluated to determine if a noise barrier is considered feasible and reasonable:

- To be considered acoustically feasible, the barrier must reduce traffic-related noise levels by at least 5.0 dB(A) for at least two impacted receptors. Receptors that receive the 5.0 dB(A) reduction, or higher, are defined as "benefited" by FDOT. Consequently, noise barriers are not evaluated for isolated and single receptors.
- To be considered acoustically reasonable, the noise barrier must achieve the FDOT noise reduction design goal of 7.0 dB(A) for at least one benefited receptor.
- The cost per benefited receptor (CBPR) is calculated by multiplying the barrier's total square footage by \$30. Per Chapter 18, \$30 per/ft² is the statewide average used to determine cost reasonableness regardless of barrier type (shoulder/traffic railing mounted, right-of-way post/panel, etc.) To be considered cost reasonable, the total cost of a barrier that meets all acoustical criteria should not exceed the cost of \$42,000 per benefited receptor.

In some locations, noise barriers may provide a benefit to non-impacted residences. Due to design considerations or aesthetics, CFX may propose noise barriers exceeding cost reasonableness limits. An example would be extending a noise barrier to maintain community continuity (i.e., avoiding terminating a noise barrier in the middle of a community).

Consistent with the FDOT Design Manual, Section 264², noise barrier heights are limited as follows:

- Noise barriers on bridge and retaining wall structures are limited to a maximum height of 8 feet; unless otherwise specified;
- Shoulder-mounted noise barriers at the edge of shoulder pavement are limited to a maximum height of 14 feet; and
- Non-shoulder mounted noise barriers (i.e., post and panel) located outside the clear recovery zone are limited to a maximum height of 22 feet. If a non-shoulder barrier is placed within the clear recovery zone, it must be shielded.

Other factors must also be considered when evaluating a barrier's feasibility, including accessibility, sight distance, and aesthetics. Accessibility refers to the ingress and egress to properties that would be affected by the construction of a noise barrier. Sight distance is a safety issue related to drivers' ability to see far enough in each direction to enter the roadway safely. Aesthetics refers to the noise barrier's physical appearance from both the highway and affected property sides.

-

² FDOT, FDOT Design Manual



3.0 TRAFFIC NOISE ANALYSIS

3.1 Identification of Noise Sensitive Sites

Using **Table 1** as a guide, the noise sensitive land uses analyzed within the study corridor fall under Activity Category B and C. The Category C land uses are associated with the Binion Reserve playground and the Ivy Trails pedestrian trail.

No land uses in the study corridor warrant an Activity Category A analysis. Analysis of interior (Activity Category D) noise levels was not required for this project as all Category C locations have areas of exterior use. A search of building permits for potentially noise sensitive Category G (undeveloped) and non noise sensitive Category F lands within the study area did not identify any active permits for future buildings that would be considered noise sensitive. Another search will be conducted during the final design process. Any noise sensitive land permitted between the time of this report and the approval of the Project Environmental Impact Report will be analyzed for project noise impacts if warranted.

3.2 Model Validation

Existing noise levels are measured in the project corridor to confirm if traffic is the primary noise source. These field measurements are also required to verify the accuracy of the TNM before it can be used to predict noise levels. A series of three 10-minute measurements were taken on September 16, 2022, using an Extech Instruments Model 407780 Type 2 Integrating Sound Level Meter. The sound level meter, calibrated at 114.0 dB(A) with an Extech Instruments Model 407766 calibrator, was adjusted to the A-weighted frequency scale, which approximates the frequency sensitivity of the human ear. Traffic data, including vehicle volumes, speeds by type, and meteorological conditions, were recorded during each measurement session. The data collection effort also recorded the travel speed for each type of vehicle using a Bushnell Speedster handheld radar gun.

One location within the study corridor was selected to undergo a series of three 10-minute measurements. The validation site, illustrated on page **D-2 in Appendix D**, was selected for measurement because it presented a clear view of free-flow traffic conditions on SR 429. No unusual noise events occurred during this location's three 10-minute monitoring sessions. The weather during the monitoring session was 77°, 97% humidity, under clear skies with a mild breeze ranging from 2 to 5 m.p.h.

Validation of TNM occurs when the model-predicted noise levels are within three decibels of the field-measured levels. Since all noise levels in this analysis are based on one hour, each of the 10-minute sessions field-recorded traffic volumes was adjusted upward by a factor of "6" to reflect hourly traffic flow. Once adjusted, these volumes were input into the noise prediction model. As shown in **Table 3**, TNM predicted within the 3.0-decibel acceptance range for each 10-minute session. Consequently, the model is acceptable for predicting noise levels for this project.



Table 3: Field Measurement Data and TNM Validation Results

			FIE	LD TRAF	FIC COUN	T: 9/16/	2022				
Session	#1: 9:38 AN	vl									
	Car	·s	Medium	Trucks	Heavy T	rucks	Buse	es	Motorcycles		
SR 429	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	
SB	168	57	9	51	19	50	0	0	0	0	
NB	147	54	15	51	19	50	0	0	0	0	
	ļ	Field Mea	surement	(dB(A)):	68.6						
TNM Prediction (dB(A))					69.9						
			Va	ariance:	1.3						
Session	#2: 9:50 AN	VI									
SR 429	29 Cars		Medium	Trucks	Heavy Trucks		Buses		Moto	rcycles	
	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	
SB	169	55	18	51	26	50	0	0	1	52	
NB	144	53	11	51	20	50	0	0	0	0	
	1	Field Mea	surement	(dB(A)):	68.0						
		TNM	Prediction	(dB(A)):							
			Va	ariance:	1.9						
Session	#3: 10:02 A	M									
SR 429	Car	s	Medium	Trucks	Heavy T	rucks	Buse	es	Moto	rcycles	
	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	Volume	Avg. Speed	
SB	168	53	19	51	27	50	0	0	0	0	
NB	113	53	14	51	22	50	0	0	1	53	
	-	Field Mea	surement	(dB(A)):	69.1						
	_	TNM	Prediction	(dB(A)):	70.2				_		
			Va	ariance:	1.1						



3.3 Predicted Noise Levels

Traffic on SR 429 is the dominant noise source within the project's evaluation area. For this project, 53 sites were analyzed for project-related impacts. The noise analysis divided the project corridor into three Noise Study Areas (NSA).

The 2022 existing condition and 2045 No-Build and Build Alternative noise analysis results discussed in this section are also presented in a noise impact comparison matrix in **Appendix C.** A summary of the results is provided in **Table 3**.

Four residential (Category B) receptors and one Category C Special Use site currently experience noise levels that meet or exceed the FDOT 66.0 dB(A) NAC. Predicted noise levels for the No-Build Alternative meet or exceed the NAC at nine Category B and one Category C receptor. By comparison, the Build Alternative is predicted to meet or exceed the NAC at 18 residential receptors and the same Category C site, with an average 3.1 dB(A) increase in noise over the existing condition. The greatest increase over existing is 4.9 dB(A); thus, none of the noise increases are considered substantial (defined as 15 dB(A) or higher).

When discussing noise level increases, the general rule that applies to perception is:

- A 3 dB(A) increase is barely perceptible to most people.
- A 5 dB(A) increase is noticeable to most people.
- A 10 dB(A) increase is perceived as twice as loud and considered a doubling noise.

A discussion of each NSA and the corresponding impact and abatement analysis is provided in the following sections. A set of project aerials illustrating the NSA's and analyzed sites is included in **Appendix D**.



Table 4: Impact Analysis Summary

Noise	Activity	2022 Existing	2045 No-Build	2045 Build	Average Increase Over			
Sensitive Area	Category	# of receptors	# of receptors that meet or exceed NAC					
	В	n/a	n/a	n/a				
NSA 1 (undeveloped)	С	n/a	n/a	n/a	n/a			
(anderenepea)	Subtotal	n/a	n/a	n/a				
	В	0 0 0						
NSA 2	С	0	0	0	1.3 dB(A)			
	Subtotal	0	0	0				
	В	4	9	9				
NSA 3 Binion Reserve	С	0	0	0	3.5 dB(A)			
Ziiiidii rteedire	Subtotal	4	9	9				
	В	0	0	9				
NSA 3 Ivy Trails	С	1	1	1	3.8 dB(A)			
ivy rraiio	Subtotal	1	1	10				
	Project Totals	5	10	19	3.1 dB(A)			

3.3.1 Noise Study Area 1

NSA 1 comprises the area south of Boy Scout Road and east of Binion road. As of the date of this report, the site is undeveloped. A search was conducted to determine the plans for this area and whether or not active building permits are in place. The future development is referred to as The Ridge. Mass grading plans have been submitted to the St. Johns River Water Management District (SJRMWD). However, no active building/structure permits have been issued by the City of Apopka. Because there are currently no noise sensitive sites built or permitted, this area was not analyzed for noise impacts. This NSA is illustrated in **Appendix D: Page D-1**.

3.3.2 Noise Study Area 2

Across from NSA 1, north of Boy Scout Road, is NSA 2, which consists of scattered single-family residences. The residences, represented by receptors 2-1 through 2-10, are not part of a named subdivision.

Currently, the average noise level for these receptors is 55.8 dB(A), with the highest noise level being 59.8 dB(A) at receptor 2-10, which is located closest to the Binion Road / Boy Scout Road intersection. None of the sites currently meet or exceed their 66.0 dB(A) FDOT NAC, nor are they



predicted to do so under the No-Build alternative. Once the project is built, the overall traffic noise levels increase by an average of 1.3 dB(A), with the average project-related noise level predicted to be 57.1 dB(A). Receptor 2-2 has the highest build-related noise level, 63.7 dB(A), which is a 3.3 dB(A) increase over the existing condition. None of the increases over existing are considered substantial, and none of the sites are predicted to exceed the NAC. Abatement evaluation for this NSA is not required.

3.3.3 Noise Study Area 3

NSA 3 comprises the area east of SR 429 from the project beginning limits (Binion Road) to the project ending limits (Lust Road). Within this NSA, two residential developments are in various stages of construction – Binion Reserve and Ivy Trails. The two developments and their associated noise sensitive sites are illustrated in **Appendix D: Page D-2**.

Binion Reserve

Binion Reserve is a new residential development located in the northeast quadrant of the proposed SR 429 / Binion Road interchange. The residences within the development are under various stages of construction, with many homes nearest to Binion Road being completely constructed or very near completion. Numerous sites immediately adjacent to SR 429 are under active construction. The majority of the sites are at a higher elevation than SR 429 with the sites located at the southern end having the greatest elevation differences. All home sites fronting SR 429, the future ramps, and the Binion Road / Boy Scout Road intersection were included in the analysis.

The homes are represented by receptors 3-1 through 3-25. The single Category C site, the neighborhood playground, is represented by receptor SLU1. The development's six-foot-tall privacy wall was included in the analysis.

Currently, the average noise level for the Binion Reserve sites is 60.7 dB(A), with the highest noise level being 70.5 dB(A) at receptor 3-16. Currently, sites 3-11 and 3-15 through 3-17 are affected by traffic noise. Under the No-Build alternative, nine sites represented by receptors 3-10 through 3-18 are predicted to meet or exceed the FDOT NAC. Once the project is built, the overall traffic noise levels increase by an average of 3.5 dB(A), with the average project-related noise level predicted to be 64.2 dB(A). Receptor 3-16 has the highest predicted build noise level (74.0 dB(A)). None of the increases over existing are considered substantial.

Because the predicted noise levels meet or exceed the 66.0 dB(A) FDOT NAC, they are considered impacted. Noise abatement was considered to mitigate these impacts, as summarized in **Section 3.2.4.1.**



Ivy Trails

Ivy Trails is a new residential development located north of Binion Reserve. Site development is nearing completion, with building/structure construction imminent. The home sites are represented by receptors 3-26 through 3-42. The single Category C site, the neighborhood pedestrian walking trail, is represented by receptor SLU2. All home sites fronting SR 429 were included in the analysis.

Currently, the average noise level for the Ivy Trails home sites and the trail is 61.3 dB(A). The highest noise level (66.0 dB(A)) occurs at receptor SLU2. The trail is the only site currently affected by traffic noise and is also the only site predicted to meet or exceed the FDOT NAC under the No-Build alternative. The average noise level predicted for the No-Build is 64.4 dB(A). Once the project is built, the overall traffic noise levels increase by an average of 3.8 dB(A), with the average project-related noise level predicted to be 65.0 dB(A). The highest noise level within Ivy Trails continues to be attributed to the trail (67.8 dBA), while the highest noise level for the homes sites is 66.4 dB(A) at receptors 3-30 and 3-31. None of the increases over existing are considered substantial, and none of the sites are predicted to exceed the NAC.

Because the predicted noise levels meet or exceed the 66.0 dB(A) FDOT NAC, they are considered impacted. Noise abatement was considered to mitigate these impacts, as summarized in **Section 3.2.4.1.**

3.2.4.1 Noise Barrier NB1

Three scenarios were evaluated to determine potential abatement options for the 18 impacted home sites and the pedestrian trail in NSA 3. The following options were analyzed to provide noise reduction to the sites within Binion Reserve and Ivy Trails from an acoustic and cost perspective. The analyzed options are summarized in **Table 5** and illustrated in **Appendix E**.

- Option 1 This option was evaluated as a single noise barrier.
 - This option includes a maximum height barrier (14 feet tall) located at the edge of the northbound entry ramp and mainline shoulder edge of pavement. The approximate stationing is 1571+00 to 600+00.
 - o This 2,903-foot-long barrier can benefit 24 residences (16 impacted and eight non-impacted) and the trail.
 - This option provides an average noise reduction of 7.0 dB(A) and a maximum reduction of 11.9 dB(A).
 - However, with an estimated cost of \$1,219,260, the Cost Per Benefited Receptor (CPBR) is \$50,803, which is over the FDOT cost-reasonableness guideline of \$42,000 per benefited receptor.



- Option 2 This option was evaluated as a single noise barrier.
 - This option includes a maximum height barrier in the same location as Option 1 but with a reduced length. The approximate stationing is 1576+20 to 600+00.
 - This 2,385-foot-long barrier can benefit 24 residences (16 impacted and eight nonimpacted) and the trail.
 - This option provides an average noise reduction of 7.0 dB(A) and a maximum reduction of 11.9 dB(A).
 - The estimated cost for this option is \$1,001,700, and it has a \$41,738 CPBR, which is within FDOT cost-reasonableness guidelines.
- Option 3 This option was evaluated as a two-segment noise barrier system.
 - This option was evaluated to further reduce the length of the maximum height shoulder barrier but add in a second segment located approximately 10 feet from the CFX right-of-way (ROW) line.
 - Segment 1: 14-foot-tall tall shoulder barrier with a total length of 2,005 feet; approximate stationing is 1580+00 to 600+00.
 - Segment 2: ROW barrier with a total length of 604 feet; stepped to account for the change in topography from south to north
 - Step 1 10' tall sta. 1575+00 to 1576+00
 - Step 2 12' tall sta. 1576+00 to 1577+00
 - Step 3 14' tall sta. 1577+00 to 1579+00
 - Step 4 16' tall sta. 1579+00 to 1581+00
 - This barrier system can benefit 26 residences (all 18 impacted and eight nonimpacted) and the trail.
 - This option provides an average noise reduction of 7.1 dB(A) and a maximum reduction of 12.1 dB(A).
 - The estimated cost for this option is \$1,089,720, with a \$41,912 CPBR, which is within FDOT cost-reasonableness guidelines.

Barrier NB1 Option 2 and Option 3 meet all FDOT acoustic and cost-reasonableness criteria and are recommended for further consideration during the final design process.



Table 5: Noise Barrier NB1 Evaluation Summary

					NSA 3	: Barrie	r NB1 E	valuatio	n Summar	ry					
E	Evaluated Barrier	Options			Number of	Sites	er of Im Within a uction R	Noise	Nu	mber of Be	enefited Si	tes *1			Recommended
Option	Barrier Type/Location	Height (feet)*6	Length (feet)	Approx. Station	Impacted Residential Sites	5-5.9 dB(A)	6-6.9 dB(A)	≥ 7.0 dB(A) *2 Impacted O	Other *3	Total	Avg / Max Reduction dB(A)	Total Estimated Cost *4	Cost per Benefited Receptor *5	for further consideration in final design?	
Option 1	Shoulder	14	2,903	1571 to 600		4	7	5	16	8	24	7.0 / 11.9	\$ 1,219,260	\$ 50,803	No
Option 2	Shoulder	14	2,385	1576+20 to 600		4	7	5	16	8	24	7.0 / 11.9	\$ 1,001,700	\$ 41,738	Yes
	Shoulder	14	2,005	1580 to 600		3			18		8 26	7.1/12.1	\$ 1,089,720		
Option 3	ROW - step 1	10	100	1575 to 1576	18					8					
two- segment system	ROW - step 2	12	101	1576 to 1577			8	7						\$ 41,912	Yes
(stepped)	ROW -step 3	14	203	1577 to 1579											
	ROW - step 4	16	200	1579 to 1581											

^{*1 =} Minimum of 5.0 dB(A) required to be considered benefited by noise barrier.

^{*2 =} FDOT Noise Reduction Design Goal is 7.0 dB(A) at a minimum of 1 benefited receptor.

^{*3 =} Refers to non-impacted noise-sensitive sites.

^{*4 =} Based on FDOT Statewide average of \$30 per square foot.

^{*5 =} FDOT Reasonable Cost Guideline is \$42,000.

^{*6 = 8-}ft max on MSE/Bridge; 14-ft max on shoulder; 22-ft max at ROW or offset from shoulder.



4.0 CONCLUSION

Five sites (4 Category B and one Category C) are currently affected by traffic noise. The noise levels associated with the 2045 No-Build Alternative are predicted to meet or exceed the 66.0 dB(A) FDOT NAC at nine Category B residences and one Category C site.

Once the widening project is built, the overall traffic noise levels will increase by an average of 3.1 dB(A), with the average project-related noise level, predicted to be 63.2 dB(A). The 2050 Build Alternative's noise levels are predicted to meet or exceed the 66.0 dB(A) FDOT NAC at 18 Category B and one Category C receptor. The highest noise level is predicted to be 74.0 dB(A) in NSA 3. None of the increases are considered substantial (i.e., 15 dB(A) or more over existing levels).

As required, noise abatement consideration was given to all 19 impacted sites. Noise Barrier NB1 was evaluated to mitigate the impacts. Of the three analyzed options, Option 2 and Option 3 were found to meet all FDOT acoustic and cost criteria. Thus, the two options, summarized in **Table 6**, are recommended for further consideration in the project's final design phase.

Table 6: Project #429-309 Noise Barrier Recommendations

Noise Study Area	Impacted Development	Barrier ID	Barrier Height (ft)*2	Barrier Length (ft)	Barrier Location	Estimated Barrier Cost *1	Recommended for Further Evaluation?	
		NB1 Option 2	14	2,385	Shoulder	\$1,001,700	Yes	
NSA 3	Binion Reseve Ivy Trails	NB1	14	2,005	Shoulder	\$1,089,720	Voc	
		Option3	10/12/14/16	604	ROW	, 1,009,720	Yes	

^{*1 =} Based on FDOT Statewide average of \$30 per square foot.

^{*2 = 8-}ft max on MSE/Bridge; 14-ft max on shoulder; 22-ft max at ROW or offset from shoulder.



4.1 Statement of Likelihood

The Central Florida Expressway Authority is committed to the construction of feasible and reasonable noise abatement measures identified in **Table 6**, contingent upon the following conditions:

- Final recommendations on the construction of abatement measures are determined during the project's final design and through the public involvement process.
- Detailed noise analyses during the final design process support the need, feasibility, and reasonableness of providing abatement.
- Cost analysis indicates that the cost of the noise barrier(s) will not exceed the cost reasonable criterion.
- Community input supporting types, heights, and locations of the noise barrier(s) is provided to CFX.
- Safety and engineering aspects as related to the roadway user and the adjacent property owner have been reviewed, and any conflicts or issues resolved.

5.0 CONSTRUCTION NOISE AND VIBRATION IMPACTS

Construction of the proposed roadway improvements is not expected to have significant vibration or construction noise impacts. Applying the FDOT Standard Specifications for Road and Bridge Construction is anticipated to minimize or eliminate most of the potential short-term noise and vibration impacts.

Should any construction noise or vibration issues arise during construction, the Project Engineer, in concert with the CFX Noise Specialist and the Contractor, will investigate additional methods of controlling these impacts.

6.0 COMMUNITY COORDINATION

6.1 Noise Impact Contours

To aid in promoting land use compatibility, a copy of this report, which provides information that can be used to protect future land development from becoming incompatible with anticipated traffic noise levels, will be made available for use by Orange County and City of Apopka officials. In addition, generalized noise impact contours for the Build Alternative have been developed, identifying the distances between the Build Alternative and the location where traffic noise levels approach the NAC for Activity Categories A, B, C, and E. The contour distances provided in **Table 7** do not account for any reduction in noise levels that may be provided by berms, privacy walls, or intervening structures. These distances also do not account for any increase in noise levels caused by a variation in the noise path, increased roadway elevation, or increased elevation of a



noise sensitive site (e.g., second-floor patio). To minimize the potential for incompatible land use, future noise sensitive land uses should be located beyond these distances.

Table 7: Critical Distance Impact Contours

Impact Contours											
	Corresponding		Distance to EOP*2								
Activity Category *1	Noise Abatement Criterion	SR 429	Binion Road	Boy Scout Road							
Category A	56 dB(A)	585 ft	145 ft	145 ft							
Category B and C	66 dB(A)	235 ft	45 ft	45 ft							
Category E	71 dB(A)	140 ft	10 ft	10 ft							

^{*1} Activity Categories as defined in 23 CFR 772.

6.2 Public Meetings

A public meeting will be held for this project. Any comments received during the public meeting comment period about the PD&E Study in general, as well as those pertinent to the noise analysis, will be documented under separate cover.

During the final design process, CFX will hold a Sound Wall Information Meeting (SWIM) in which the proposed noise barrier(s) and other pertinent project construction-related information will be presented to the public. To aid in the decision-making process, CFX will directly solicit the opinions of the property owners and renters found to benefit (e.g., receive a minimum 5 dB(A) reduction in noise) from the proposed noise barrier. The solicitation of viewpoints will be conducted as part of the SWIM and mailed survey. The CFX SWIM process and survey results for this project will be documented under separate cover.

^{*2} Distance to the nearest edge of pavement.



7.0 REFERENCES

FHWA. *Code of Federal Regulations*, Title 23 Part 772, "Procedures for Abatement of Highway Traffic Noise and Construction Noise." July 13, 2010.

FHWA. *Highway Traffic Noise: Analysis and Abatement Guidance, FHWA-HEP-10-025.*December 2011.

FHWA. Recommended Best Practices for the Use of the FHWA Traffic Noise Model (TNM. December 8, 2015.

FDOT. A+ Plus Aerial Photo Look-Up System. 2022.

FDOT. FDOT Design Manual

FDOT. Project Development and Environment Manual: Part II, Chapter 18. Effective July 1, 2020.

FDOT. Standard Specifications for Road and Bridge Construction.

FDOT. Traffic Noise Modeling and Analysis Practitioners Handbook. December 2018.

Google Earth, @2022 Google. Imagery and elevation data.

Section 335.17, Florida Statutes. State Highway Construction; Means of Noise Abatement. 2012.

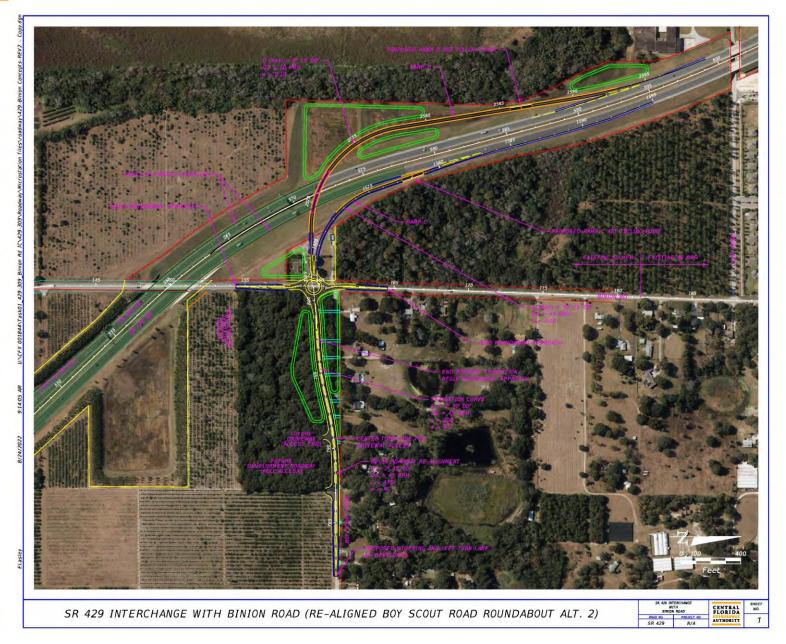
USGS. National Map 2022; https://apps.nationalmap.gov/lidar-explorer/#/.



Appendix A:

Preferred Build Alternative Project Layout







Appendix B:

Noise Study Traffic Data



Noise Analysis Traffic Data - SR 429 and Binion Road Interchange 2022 Existing Conditions

			- 1	reeway Main	ine								
Mainline Segment	Number of Lanes	Two-Way AADT	Two-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	Standard K-factor	D-factor	Posted Spee (mph)
SR 429													
North of US 441 (Ponkan Mainline Plaza) From US 441 to SR 414 South of SR 414	4 6 6	46,300 53,300 60,000	59,400 89,000 78,500	2,121 2,449 2,799	3,100 4,650 4,100	2.00% 2.00% 2.00%	0.41% 0.41% 0.41%	1.55% 1.55% 1.55%	0.04% 0.04% 0.04%	0.01% 0.01% 0.01%	9,5% 9,5% 9,5%	55.0% 55.0% 55.0%	70 70 70
				SR 429 Ramp	os								
SR 429 Ramp	Number of Lanes	One-Way AADT	One-Way LOS C AADT	Peak Hour Peak Direction	Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	K-factor	D-factor	Operational Speed (mph
US 441													
Southbound off Northbound on Southbound on Northbound off	1 1 2 2	500 500 4,000 4,000	14,600 14,600 29,400 29,400	46 46 369 369	1,350 1,350 2,700 2,700	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	8.7% 8.7% 8.7% 8.7%	52.8% 52.8% 52.8% 52.8%	45 45 45 45
SR 414													
Southbound off Northbound on Southbound on Northbound off	2 2 2 2	9,650 9,650 13,000 13,000	25,800 25,800 25,900 25,900	1,008 1,008 1,359 1,359	2,700 2,700 2,700 2,700	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	9.5% 9.5% 9.5% 9.5%	55.0% 55.0% 55.0% 55.0%	45 45 45 45
			Arteri	als and Cross	Streets								
Arterial Segment	Number of Lanes	Two-Way AADT	Two-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	K-factor	D-factor	Posted Spee (mph)
Binion Road													
North of Boy Scout Road South of Boy Scout Road Boy Scout Road	2 2	7,100 5,200	16,600 16,200	378 261	820 820	4.00% 4.00%	2.40% 2.40%	1.47%	0.13% 0.13%	0.21% 0.21%	9.0% 9.0%	54.9% 56.1%	40 40
East of Binion Road	1 2 1	4.700	15,700	220	740	4.00%	2.40%	1.47%	0.13%	0.21%	9.0%	52.2%	1 45
ADT: Annual Average Daily Traffic MT: Medium	Trucke	HT: Heavy Tr		-20			2.1070			1			

(1) Number of lanes are obtained from field observations and aerial maps.
(2) Traffic data are obtained from the PD&E study traffic development effort.
(3) Peak hour demand and LOS C peak hour maximum service volumes are provided directionally.
(4) LOS C targets are based on the FDOT 2020 Quality/Level of Service Handbook tables, and adjusted for local conditions.
(5) LOS C AADTs are estimated using K and D factors and the design hour peak direction LOS C maximum service volumes.
(6) The vehicle classification factors are obtained from Florida Traffic Online.
(7) Posted speed data are obtained by field observations.



Noise Analysis Traffic Data - SR 429 and Binion Road Interchange 2045 No Build Conditions

			- 1	reeway Main	ine								
Mainline Segment	Number of Lanes	Two-Way AADT	Two-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	Standard K-factor	D-factor	Posted Spee (mph)
SR 429													
North of US 441 (Ponkan Mainline Plaza) From US 441 to SR 414 South of SR 414	4 6 8	108,200 118,700 115,700	59,400 89,000 118,700	5,610 6,140 5,980	3,100 4,650 6,200	2.00% 2.00% 2.00%	0.41% 0.41% 0.41%	1.55% 1.55% 1.55%	0.04% 0.04% 0.04%	0.01% 0.01% 0.01%	9.5% 9.5% 9.5%	55.0% 55.0% 55.0%	70 70 70
				SR 429 Rami	is		•	•					
SR 429 Ramp	Number of Lanes	One-Way AADT	One-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	K-factor	D-factor	Operational Speed (mph
US 441													
Southbound off Northbound on Southbound on Northbound off	1 1 2 2	5,100 5,100 10,350 10,350	14,600 14,600 29,400 29,400	470 470 950 950	1,350 1,350 2,700 2,700	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	8.7% 8.7% 8.7% 8.7%	52.8% 52.8% 52.8% 52.8%	45 45 45 45
SR 414													
Southbound off Northbound on Southbound on Northbound off	2 2 2 2	24,100 24,100 22,600 22,600	25,800 25,800 25,900 25,900	2,520 2,520 2,360 2,360	2,700 2,700 2,700 2,700	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	9.5% 9.5% 9.5% 9.5%	55.0% 55.0% 55.0% 55.0%	45 45 45 45
			Arteri	als and Cross	Streets								
Arterial Segment	Number of Lanes	Two-Way AADT	Two-Way LOS C AADT	Peak Hour Peak Direction	Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	K-factor	D-factor	Posted Spee (mph)
Binion Road													
North of Boy Scout Road South of Boy Scout Road Boy Scout Road	2 2	15,000 12,100	16,600 16,200	740 610	820 820	4.00% 4.00%	2.40% 2.40%	1.47% 1.47%	0.13% 0.13%	0.21% 0.21%	9.0% 9.0%	54.9% 56.1%	40 40
East of Binjon Road	1 2 1	10,000	15,700	470	740	4.00%	2.40%	1.47%	0.13%	0.21%	9.0%	52.2%	1 45

(1) Number of lanes are obtained from field observations, aerial maps and planned projects information.
(2) Traffic data are obtained from the PD&E study traffic development effort.
(3) Peak hour demand and LOS C peak hour maximum service volumes are provided directionally.
(4) LOS C targets are based on the FDOT 2020 Quality/Level of Service Handbook tables, and adjusted for local conditions.
(5) LOS C AADTs are estimated using K and D factors and the design hour peak direction LOS C maximum service volumes.
(6) The vehicle classification factors are obtained from Florida Traffic Online.

(7) Posted speed data are obtained by field observations.



Noise Analysis Traffic Data - SR 429 and Binion Road Interchange 2045 Build Conditions

			F	reeway Main	ine								
Mainline Segment	Number of Lanes	Two-Way AADT	Two-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	Standard K-factor	D-factor	Posted Spee (mph)
SR 429							•			•			
North of US 441 (Ponkan Mainline Plaza) From US 441 to Binion Road From Binion Road to SR 414 South of SR 414	4 6 8 8	108,400 120,900 116,300 113,800	59,400 89,000 118,700 118,700	5,630 6,240 6,030 5,900	3,100 4,650 6,200 6,200	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	9.5% 9.5% 9.5% 9.5%	55.0% 55.0% 55.0% 55.0%	70 70 70 70
				SR 429 Ram	os								
SR 429 Ramp	Number of Lanes	One-Way AADT	One-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	K-factor	D-factor	Operational Speed (mph
US 441													
Southbound off Northbound on Southbound on Northbound off	1 1 2 2	4,100 4,100 10,350 10,350	14,600 14,600 29,400 29,400	380 380 950 950	1,350 1,350 2,700 2,700	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	8.7% 8.7% 8.7% 8.7%	52.8% 52.8% 52.8% 52.8%	45 45 45 45
Binion Road													
Southbound off Northbound on	1	2,300 2,300	13,400 13,400	230 230	1,350 1,350	2.00%	0.41%	1.55% 1.55%	0.04% 0.04%	0.01% 0.01%	9.5% 9.5%	53.0% 53.0%	45 45
SR 414													
Southbound off Northbound on Southbound on Northbound off	2 2 2 2	23,850 23,850 22,600 22,600	25,800 25,800 25,900 25,900	2,490 2,490 2,360 2,360	2,700 2,700 2,700 2,700	2.00% 2.00% 2.00% 2.00%	0.41% 0.41% 0.41% 0.41%	1.55% 1.55% 1.55% 1.55%	0.04% 0.04% 0.04% 0.04%	0.01% 0.01% 0.01% 0.01%	9.5% 9.5% 9.5% 9.5%	55.0% 55.0% 55.0% 55.0%	45 45 45 45
			Arteri	als and Cross	Streets								
Arterial Segment	Number of Lanes	Two-Way AADT	Two-Way LOS C AADT	Peak Hour Peak Direction	LOS C Peak Hour Peak Direction	Design Hr. % T	Design Hr. % MT	Design Hr. % HT	Design Hr. % Buses	Design Hr. % Motorcycles	K-factor	D-factor	Posted Spee (mph)
Binion Road													
North of Boy Scout Road South of Boy Scout Road Boy Scout Road	2 2	13,800 12,300	16,600 16,200	680 620	820 820	4.00% 4.00%	2.40% 2.40%	1,47% 1,47%	0.13% 0.13%	0.21% 0.21%	9.0% 9.0%	54.9% 56.1%	40 40
East of Binion Road		10,600	1 15,700	500	740	4.00%	2.40%	1.47%	0.13%	0.21%	9.0%	52.2%	45

- (1) Number of lanes are obtained from field observations, aerial maps and planned projects information.

- (1) Number of lanes are obtained from field observations, aerial maps and planned projects information.
 (2) Traffic data are obtained from the PD&E study traffic development effort.
 (3) Peak hour demand and LOS C peak hour maximum service volumes are provided directionally.
 (4) LOS C targets are based on the FDOT 2020 QualityLevel of Service Handbook tables, and adjusted for local conditions.
 (5) LOS C AADTs are estimated using K and D factors and the design hour peak direction LOS C maximum service volumes.
 (6) The verbicle classification factors are obtained from Florida Traffic Online.
 (7) Posted speed data are obtained by field observations.



Appendix C:

Noise Impact Comparison Matrix



		Noise	Impact Co	mparison Ma	atrix							
Noise	e Sensitive Sites			Predicted Noise Levels (dB(A)) Red = Noise Level above NAC								
Receptor ID	# Sites Represented	NAC Impact Criterion (dB(A))	2022 Existing	2045 No-Build Alternative	2045 Build Alternative	Build Change From Existing	Consider Abatement					
NSA 1: South of	Boy Scout Road	d from Binio	n Road to pro	oject end - Illus	strated on Page	e D-1 - Appe	endix D					
No noise sensiti	ve sites											
NSA 2: North of	Boy Scout Road	d from Binio	n Road to pro	oject end - Illus	trated on Page	e D-1 - App€	endix D					
Scattered single	e-family homes											
2-1	1	66.0	56.7	60.0	60.6	3.9	-					
2-2	1	66.0	60.4	63.7	63.7	3.3	-					
2-3	1	66.0	51.7	55.0	55.8	4.1	-					
2-4	1	66.0	51.5	54.8	53.5	2.0	-					
2-5	1	66.0	54.2	57.6	57.2	3.0	-					
2-6	1	66.0	51.5	54.7	53.7	2.2	-					
2-7	1	66.0	57.8	61.2	57.5	-0.3	-					
2-8	1	66.0	57.9	61.3	56.0	-1.9	-					
2-9	1	66.0	56.2	59.5	55.2	-1.0	-					
2-10	1	66.0	59.8	63.1	57.5	-2.3	-					
NSA Summary	10		55.8	59.1	57.1	1.3	0					
NSA 3: Binion R	oad Interchang	e to Lust Ro	ad (east of SI	R 429) - Illustrat	ed on Page D-	-2 - Append	ix D					
Binion Reserve												
3-1	1	66.0	60.0	63.0	62.4	2.4	-					
3-2	1	66.0	58.1	61.1	60.3	2.2	-					
3-3	1	66.0	55.8	58.8	58.0	2.2	-					
3-4	1	66.0	53.6	56.7	55.9	2.3	-					
3-5	1	66.0	54.4	57.7	57.2	2.8	-					
3-6	1	66.0	57.7	60.9	61.1	3.4	-					
3-7	1	66.0	59.2	62.4	62.6	3.4	-					
3-8	1	66.0	60.3	63.5	63.9	3.6	-					
3-9	1	66.0	62.0	65.2	65.7	3.7	-					
3-10	1	66.0	62.9	66.1	66.7	3.8	Yes					
3-11	1	66.0	66.3	69.4	70.0	3.7	Yes					
3-12	1	66.0	64.8	67.9	68.6	3.8	Yes					
3-13	1	66.0	64.5	67.5	68.0	3.5	Yes					
3-14	1	66.0	64.1	67.1	67.5	3.4	Yes					
3-15	1	66.0	68.8	71.8	72.3	3.5	Yes					
3-16	1	66.0	70.5	73.5	74.0	3.5	Yes					



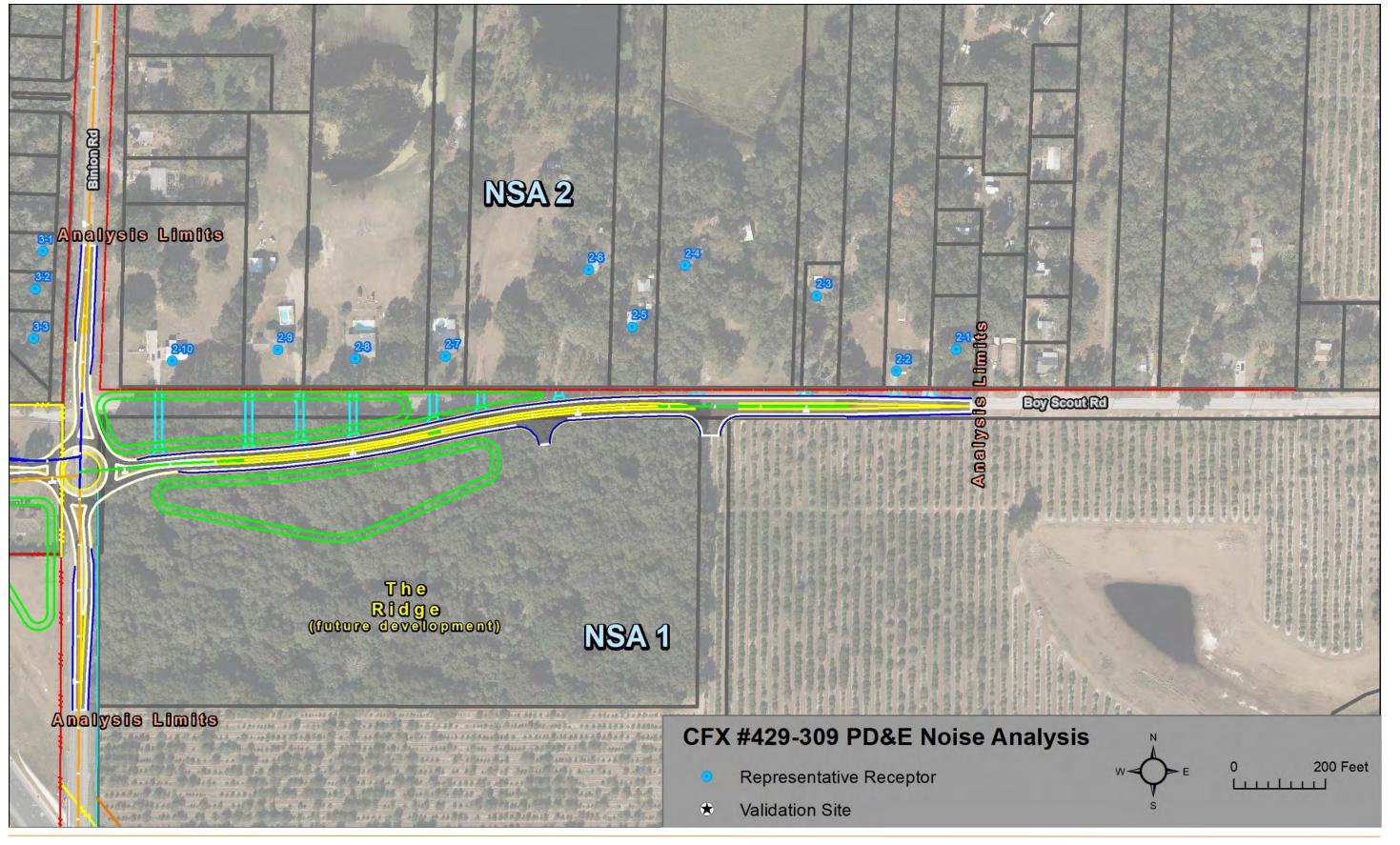
Noise Impact Comparison Matrix							
Noise	e Sensitive Sites		Predicted Noise Levels (dB(A)) Red = Noise Level above NAC				
Receptor ID	# Sites Represented	NAC Impact Criterion (dB(A))	2022 Existing	2045 No-Build Alternative	2045 Build Alternative	Build Change From Existing	Consider Abatement
3-17	1	66.0	67.3	70.3	71.4	4.1	Yes
3-18	1	66.0	63.5	66.7	68.4	4.9	Yes
3-19	1	66.0	60.0	63.1	64.3	4.3	-
3-20	1	66.0	60.4	63.5	64.5	4.1	-
3-21	1	66.0	59.1	62.2	62.9	3.8	-
3-22	1	66.0	57.9	61.0	61.7	3.8	-
3-23	1	66.0	57.9	61.1	61.9	4.0	-
3-24	1	66.0	55.9	59.1	59.8	3.9	-
3-25	1	66.0	55.8	59.0	59.7	3.9	-
SLU1	1	66.0	56.1	59.3	60.0	3.9	-
Ivy Trails							
3-26	1	66.0	62.1	65.1	66.0	3.9	Yes
3-27	1	66.0	62.1	65.1	66.0	3.9	Yes
3-28	1	66.0	62.2	65.3	66.0	3.8	Yes
3-29	1	66.0	62.4	65.5	66.2	3.8	Yes
3-30	1	66.0	62.5	65.6	66.4	3.9	Yes
3-31	1	66.0	62.4	65.5	66.4	4.0	Yes
3-32	1	66.0	62.2	65.3	66.3	4.1	Yes
3-33	1	66.0	61.9	65.0	66.3	4.4	Yes
3-34	1	66.0	62.0	65.1	66.2	4.2	Yes
3-35	1	66.0	61.7	64.9	65.3	3.6	-
3-36	1	66.0	60.5	63.7	64.4	3.9	-
3-37	1	66.0	58.8	62.0	62.7	3.9	-
3-38	1	66.0	58.7	62.0	62.4	3.7	-
3-39	1	66.0	59.0	62.3	62.8	3.8	-
3-40	1	66.0	59.7	62.9	63.3	3.6	-
3-41	1	66.0	59.3	62.6	63.2	3.9	-
3-42	1	66.0	59.1	62.4	63.1	4.0	-
Ivy Trails - Pedestrian Trail							
SLU2	1	66.0	66.0	69.0	67.8	1.8	Yes
NSA Summary	43		60.9	64.0	64.5	3.6	19



Appendix D:

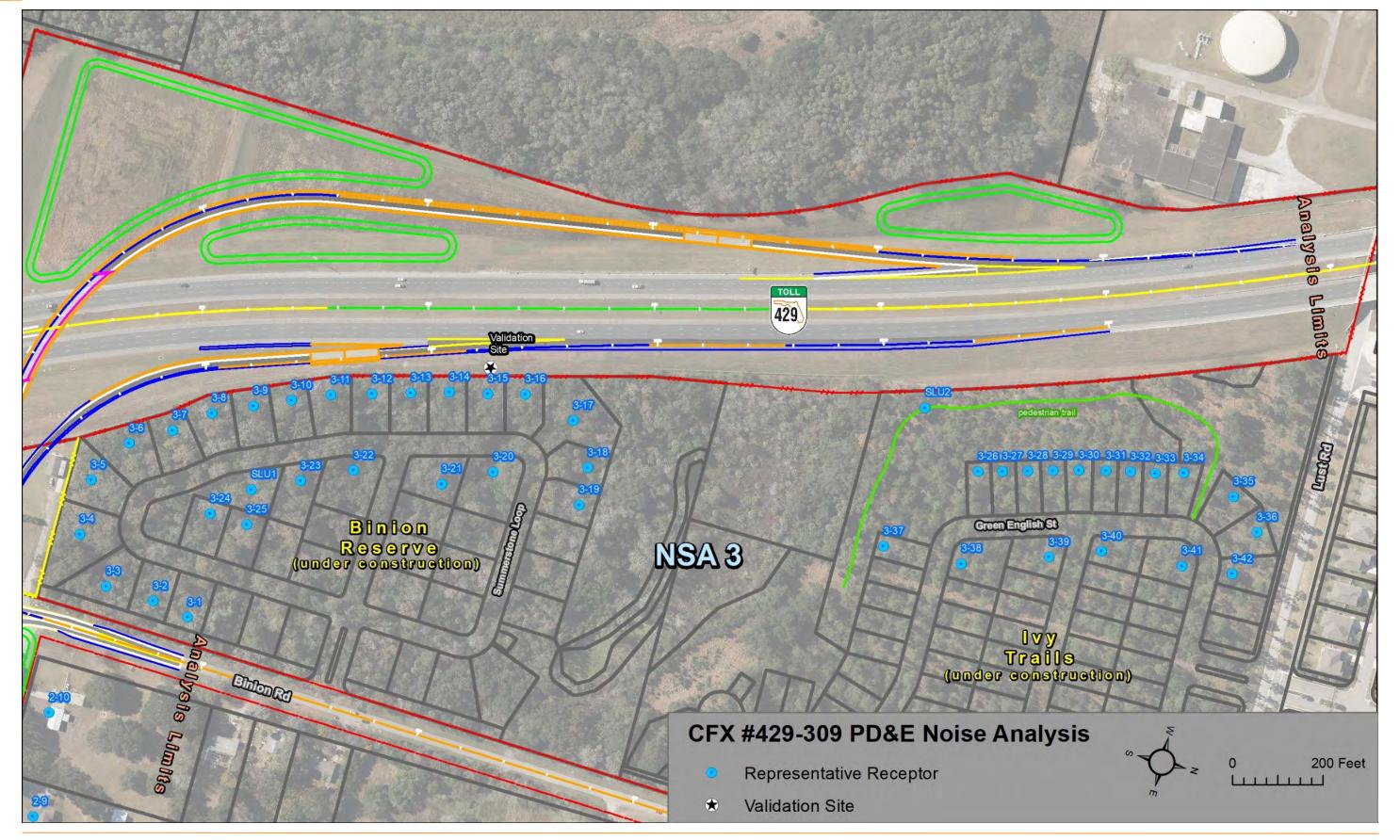
Project Aerials





SR 429 / Binion Road Interchange PD&E





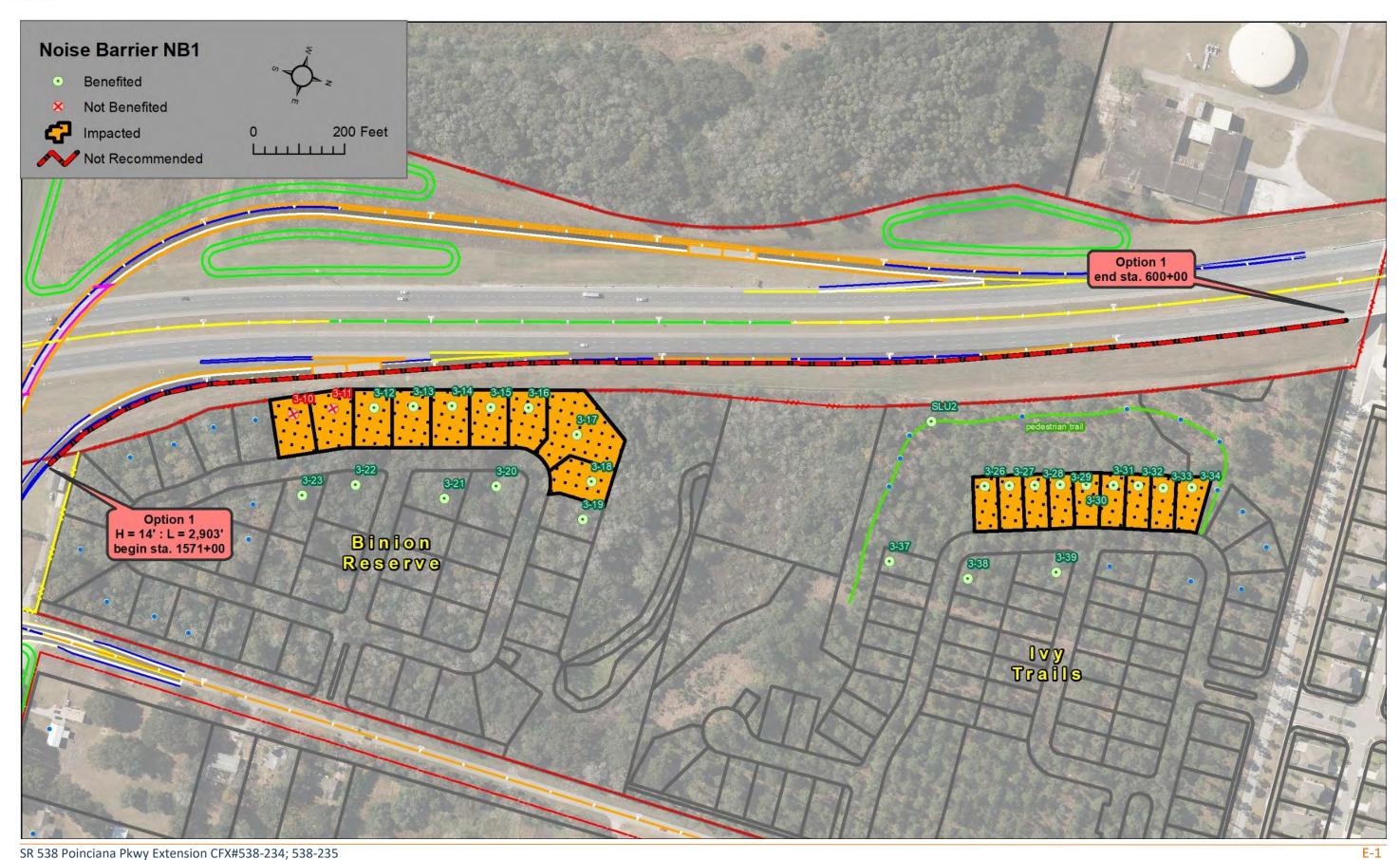
SR 429 / Binion Road Interchange PD&E



Appendix E:

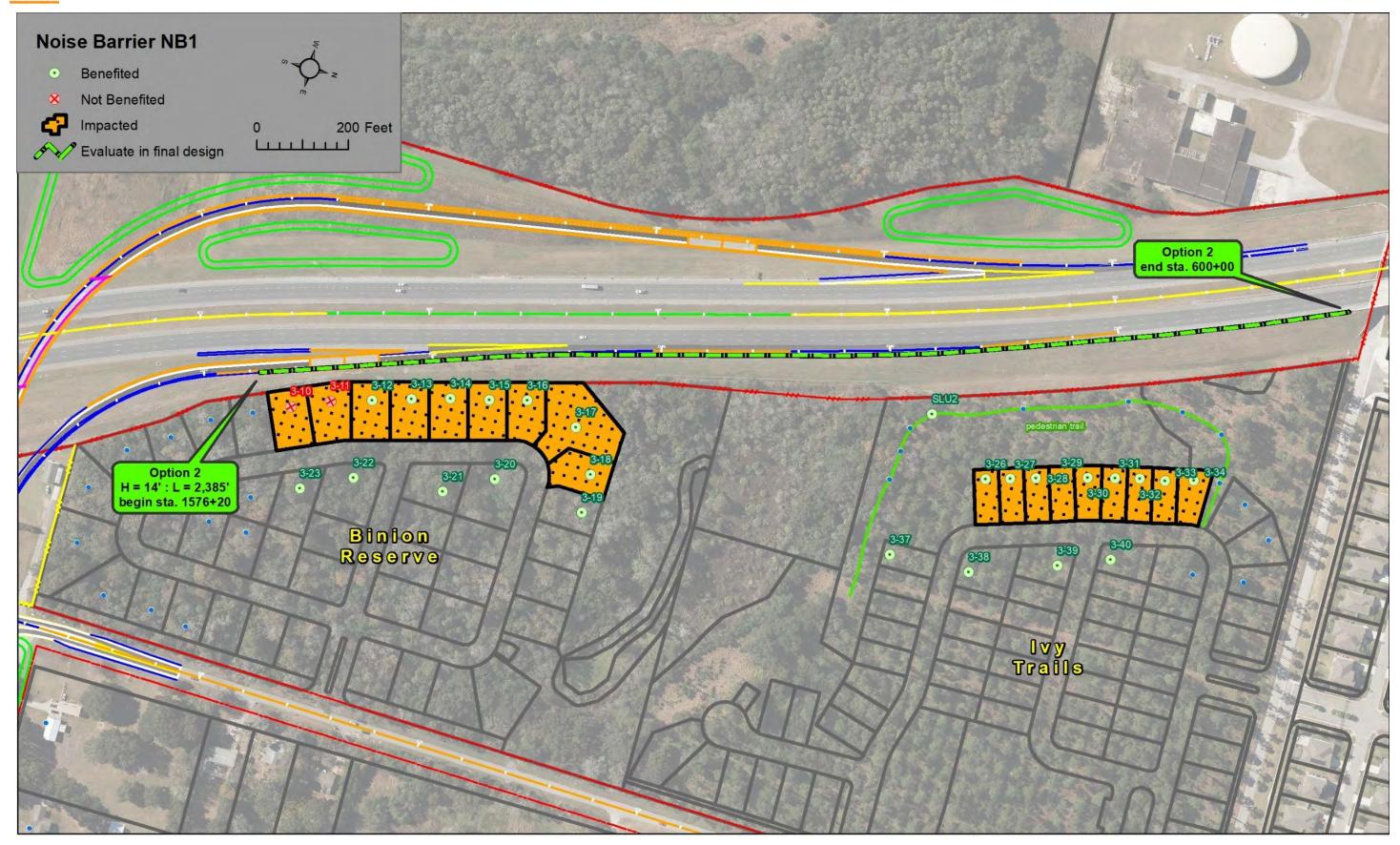
Noise Barrier Maps





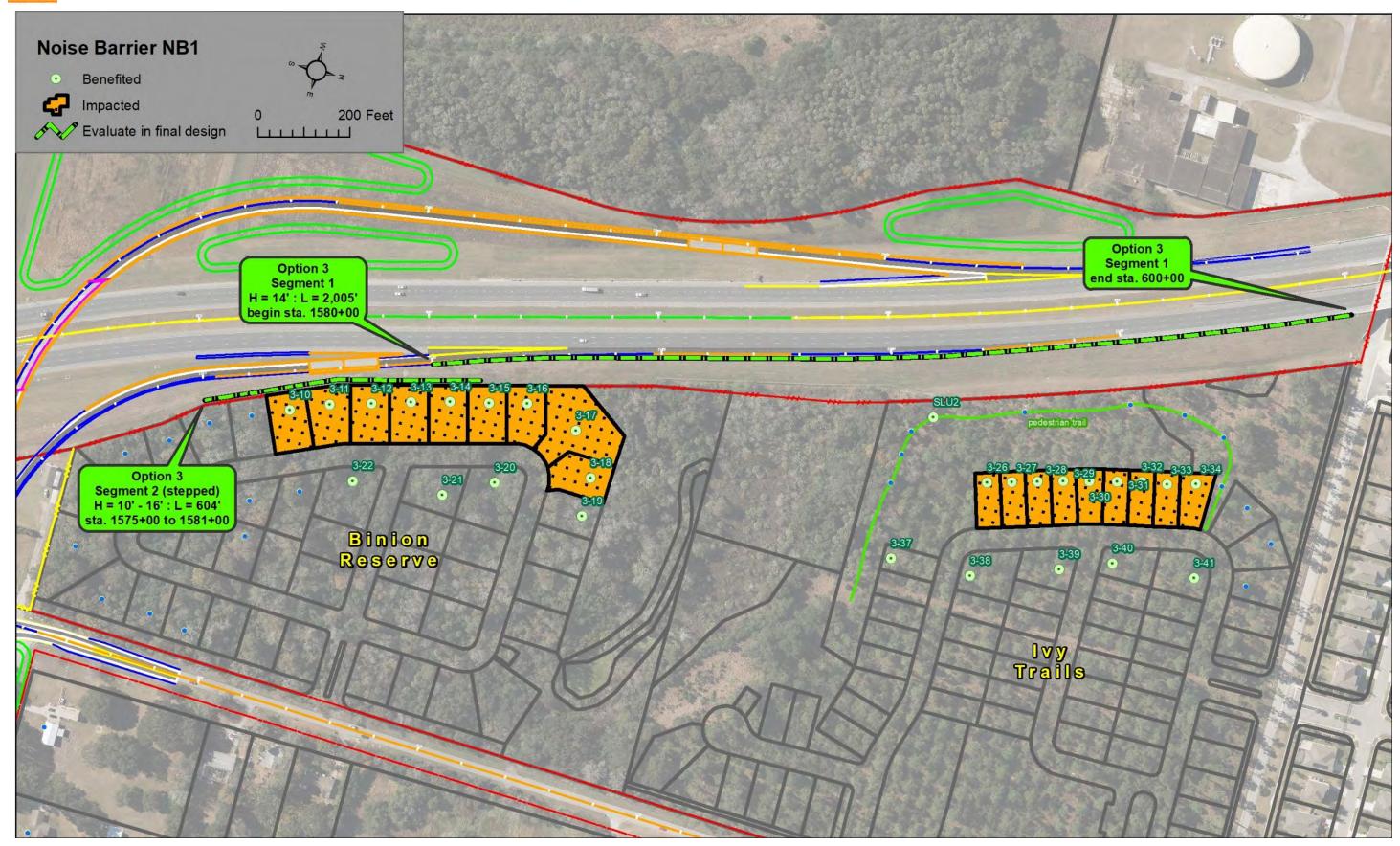
SR 538 Poinciana Pkwy Extension CFX#538-234; 538-235





SR 538 Poinciana Pkwy Extension CFX#538-234; 538-235





SR 538 Poinciana Pkwy Extension CFX#538-234; 538-235



Appendix C – Air Quality Technical Memorandum

AIR QUALITY TECHNICAL MEMORANDUM

Daniel Webster Western Beltway (SR 429) / Binion Road Interchange Project Development and Environment Study

Central Florida Expressway Authority



CFX Project No.: 429-309 Contract No.: 001844

November 2022

Introduction

In August 2022, Central Florida Expressway Authority (CFX) began a Project Development and Environment (PD&E) Study of the State Road 429/Binion Road Interchange in the City of Apopka and Orange County. The study is evaluating a proposed half interchange (northbound on-ramp and southbound off-ramp) expressway connection from Binion Road to SR 429 to provide enhanced access and mobility to southwest Apopka. This Technical Memorandum is to document the air quality analysis findings.

Project Description

The study area runs along the vicinity of South Binion Road and Boy Scout Road at SR 429. Currently, drivers must enter and exit SR 429 by traveling approximately three miles north to just north of US 441 at the SR 429 Connector Road interchange or travel three miles south to the interchange at Ocoee Apopka Road. The 6-month study will analyze intersection improvements and access management modifications along the proposed interchange.

Study Goals

The goals of the SR 429/Binion Road Interchange PD&E Study include:

- Identify transportation mobility options and programs that could meet future demand.
- Enhance mobility of the area's growing population and economy by providing additional transportation infrastructure.
- Provide consistency with local plans and policies.
- Promote regional connectivity.

General Existing Conditions and Land Uses of the Project Area

The project area, as defined within the PD&E Study, is the location where alternative concepts for a half interchange that would provide access to SR 429 and a new intersection design at Binion Road and Boy Scout Road are being considered. For consistency in studying the existing and anticipated conditions of the area surrounding the PD&E Study Area, a half mile radius of the general existing conditions surrounding the project area are used.

The entirety of the project area falls within the Apopka City limits, except for 2 parcels at the northeast corner of the intersection of Boy Scout Road and S Binion Road. Within the surrounding area, the majority of the land falls within the City of Apopka Corporate Limits, with the remainder of the properties falling within unincorporated Orange County.

The Land Use in this area has slowly changed from primarily larger tracts of land often used for agriculture, to the development of many single-family subdivisions. The rise in population density and subsequent vehicle trips have put stress on the existing roadway network, which consists of mostly rural residential profile. The development of single-family lot subdivisions is likely to continue in the surrounding area, based on current market demand. **Figure 1** shows the Future Land Use (FLU) designations of the area per the City of Apopka and Orange County.



Figure 1: Study Area Future Land Use (FLU) Map





Analysis and Results

As part of this project study, an air quality evaluation has been performed consistent with the FDOT PD&E Manual, Part 2, Chapter 19. Based on this initial evaluation, a detailed Air Quality analysis is not needed because the project does not meet the two qualifying criteria per Section 19.2.2.1, Part 2, Chapter 19 of the PD&E Manual. It does not require an Environmental Impact Statement, and it is not expected to have community controversy regarding air quality.

This project is not expected to create adverse impacts on air quality because the project area is in attainment for all National Ambient Air Quality Standards (NAAQS) and because the project is expected to improve the Level of Service (LOS) and not change delay and congestion on all facilities within the study area.

Construction activities may cause short-term air quality impacts in the form of dust from earthwork and unpaved roads. These impacts will be minimized by adherence to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction.



References

- Florida Department of Transportation. "Air Quality", Part 2, Chapter 19. Project Development and Environment Manual, Florida Department of Transportation, Tallahassee, July 1, 2020.
- Chapter 62-204, F.S., Air Pollution Control General Provisions.
 https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-204
- EPA, 1998. NOx, How Nitrogen Oxides Affect the Way We Live and Breathe. EPA 456/F98-005.
- EPA, 2016. The Green Book Nonattainment Areas for Criteria Pollutants. https://www.epa.gov/green-book
- EPA, 2014. National Emissions Inventory. https://epa.gov/air-emissionsinventories/nationalemissions-inventory-nei
- FDOT, CO FDOT Florida 2012 User's Guide and Screening Model. http://www.dot.state.fl.us/emo/software/software.shtm
- EPA, 2011 National Air Toxics Assessment Results. https://www.epa.gov/national-air-toxicsassessment/2011-nata-assessmentresults
- FHWA, Advisory T6640.8A, Guidance for Preparing and Processing Environmental and Section 4(F) Documents, October 30, 1987; available from the FHWA Environmental Guidebook. https://www.environment.fhwa.dot.gov/projdev/impta6640.asp
- FHWA, Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents. https://www.fhwa.dot.gov/environment/air quality/air toxics/policy and guidance/msat/
- FHWA, A Methodology for Evaluating Mobile Source Air Toxic Emissions Among Transportation Project Alternatives.
- https://www.fhwa.dot.gov/environment/air quality/air toxics/research and analysis/mobile source air toxics/msatemissions.cfm
- Memorandum of Understanding Between FHWA and FDOT Concerning the State of Florida's Participation in the Surface Transportation Project Delivery Program Pursuant to
- 23 U.S.C. 327, December 14, 2016. http://www.fdot.gov/environment/pubs/Executed-FDOT-
- NEPA-Assignment-MOU2016-1214.pdf





Appendix D – Contamination Screening Evaluation Technical Memorandum



TECHNICAL MEMORANDUM

September 22, 2022

From: Richard McCormick, P.G. and Daniel C. Stanfill, P.E.

To: Bronce Stephenson, MPA

Lead Planner

Subject: Existing Contamination Conditions Technical Memorandum

SR 429-BINION ROAD INTERCHANGE PD&E STUDY

CFX 429-309

GEC Project No. 5126GE

Based on TWO 1 under Contract Number 001844 dated July 19, 2022, Geotechnical and Environmental Consultants, Inc. (GEC) is pleased to present this Existing Contamination Conditions Technical Memorandum for the CFX SR 429-Binion Road Interchange PD&E study.

While this review of contamination status was performed using elements of the Chapter 20 of the FDOT PD&E Manual, it does not represent a complete contamination screening evaluation in accordance with Chapter 20 of the FDOT PD&E Manual.

Contamination Screening

GEC conducted this evaluation using limited elements of the Chapter 20 of the FDOT PD&E Manual dated July 1, 2020. The study area is defined by the following distances from the right-of-way:

- All sites within 500 feet
- Non-landfill solid waste sites within 1,000 feet
- Solid waste landfills, CERCLA, or National Priorities List (NPL) sites within ½ mile

GEC reviewed relevant information from the following sources of information:

- USGS Quadrangle Map of Apopka, Florida (Figure 1),
- National Resource Conservation Service (NRCS) Soil Survey (Figure 2), and
- Florida Department of Environmental Protection (FDEP) Map Direct and Nexus Information Portal file research for the sites of concern identified within the study area.
- Orange County Environmental Protection Division (OCEPD) and Florida Department of Environmental Protection (FDEP) were contacted regarding the Itner Trash Dump.

Based on the results of the contamination screening activities, GEC assigned Contamination Risk Ratings (CRRs) to five potential contamination sites in the Study Area. The Contamination Risk Rating (CRR) system was developed by FDOT and incorporates four levels of risk: **No, Low, Medium and High**. For a description of the four risk levels please refer to **Appendix A.**

The project study area is shown on a 2021 aerial photograph with site locations shown on attached **Figure 3**. Select portions of public record documents are included as **Appendix B**.

Table 1 – Potential Contamination Site Summary, presents the results of our evaluation. The information obtained from each source of information listed above is summarized for the study area and potential contamination site, along with the corresponding CRRs.

Contamination Risk Sites Summary

Our contamination risk ratings for the five potential contamination sites are summarized below.

Table 1
Potential Contamination Site Summary

Site				
No.	Facility Name	Facility ID	Concerns	Risk Rating
1	Itner Trash Dump	22044	Historical Trash Dump (1960s and	Medium
			1970s) that is greater than 500 feet	
			from proposed improvements. The	
			dump has a No Further Action Status	
			from FDEP. No contamination	
			assessment data is available.	
2	SJRWMD LUST Farm	8622607	Aboveground and underground fuel	Low
	Shop Area		tanks were removed in 1998 and	
			contamination remediated. A Site	
			Rehabilitation Completion Order was	
			issued on November 3, 2005.	

Site				
No.	Facility Name	Facility ID	Concerns	Risk Rating
3	Apopka City North	9814765	This site is the same location as Site	Low
	Shore WTF		No. 2. Site currently has two	
			aboveground emergency generator	
			tanks at 8,400 and 560 gallons in size	
			that were installed in 2015. No	
			discharges are reported.	
4	Historical Citrus	n/a	Potential for Residual Agricultural	Medium
	Groves/Agricultural		Chemical impacts.	
5	Historical Rail Line	n/a	The historical rail line was removed	Low
			when SR 429 was constructed.	

Level II Impact to Construction Impact Assessments and Recommendations

Level II Impact to Construction Assessments (ICAs) or construction support will be required for the roundabout, roadway, and ponds improvements east of SR 429 and south of Boy Scout Road due to the potential for residual agricultural chemicals (arsenic, pesticides, and herbicides) from historical grove and agricultural land uses.

The areas for the overpass, pond sites, and northbound onramp construction located within the existing SR 429 right of way were modified during the initial construction of SR 429. Any potential contamination from historical agricultural practices or rail line usage was disturbed or removed during the construction of SR 429.

Limitations

The findings, opinions, conclusions, and recommendations presented herein are based in part on reasonably ascertainable information contained in the public record. GEC does not warrant or guarantee the accuracy or completeness of this information. Some of this public record information may be dated and not representative of conditions at the time of this report was prepared (September 2022), or in the future. Additional limitations are as follows:

- Not discussed in this report are properties that have been historically undeveloped land, are associated with residential use and do not appear to pose a contamination risk, or are professional/commercial establishments that are not associated with hazardous materials or petroleum products.
- This study also does not include surveys of wetlands, endangered species, asbestos containing materials, lead-based paints, or other potential hazardous building materials.

Use of This Memorandum

GEC has prepared this memorandum for the exclusive use of our client, The Balmoral Group and CFX and for application to our client's project. GEC will not be held responsible for any other party's interpretation or use of this report's data or recommendations without our written authorization.

GEC has performed the services described in this report in a manner consistent with that level of care and skill ordinarily exercised by members of our profession currently practicing in Central Florida. No other representation is made or implied in this document.

The conclusions and recommendations should be disregarded if the final project design differs from the project description in this report. If such changes are contemplated, GEC should be retained to review the new plans to assess the applicability of this report in light of proposed changes.

We appreciate the opportunity to work with The Balmoral Group and CFX on this project. If you have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

Richard P. McCormick, P.G.

Chief Geologist

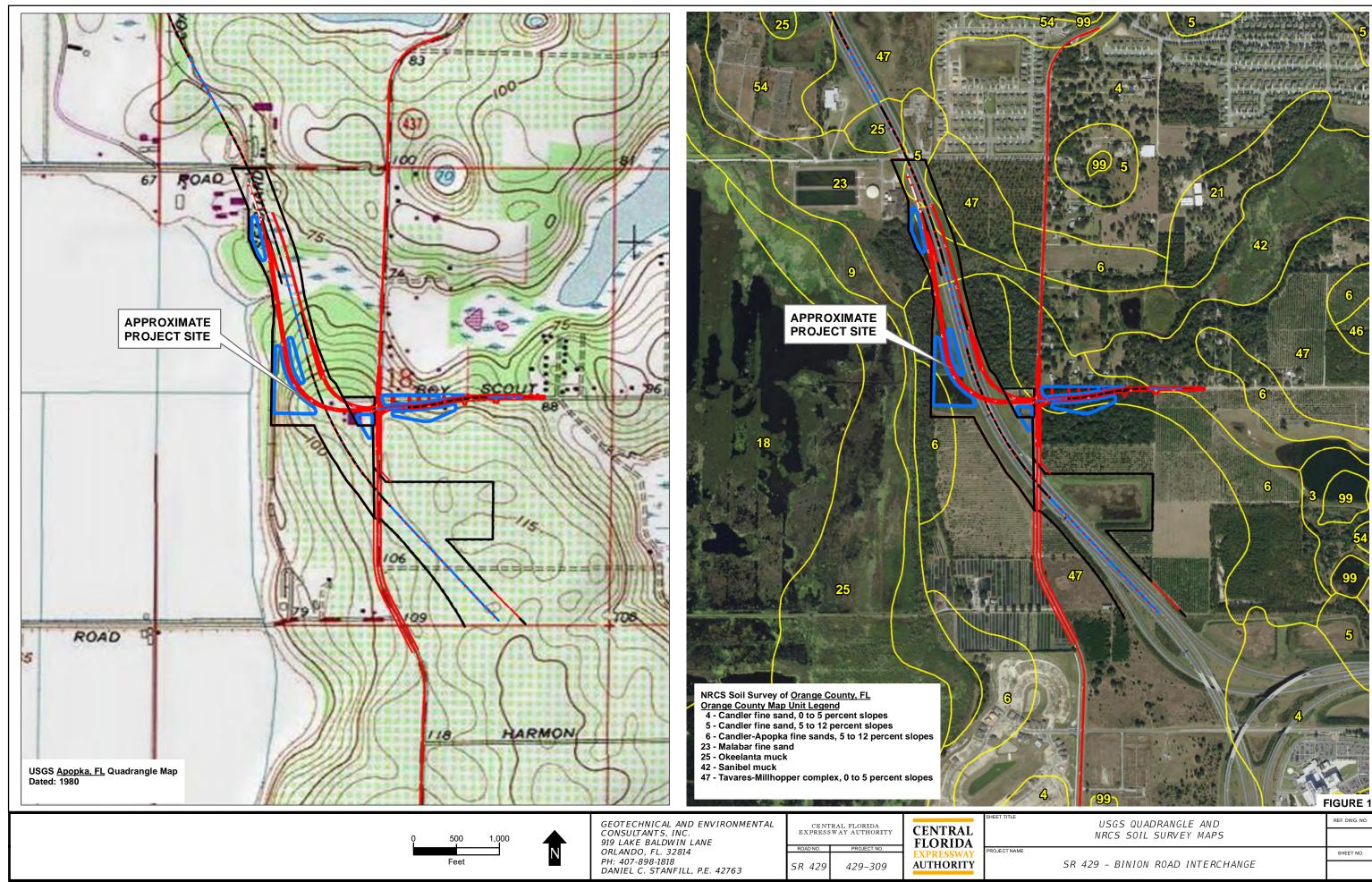
Florida License No. 2096

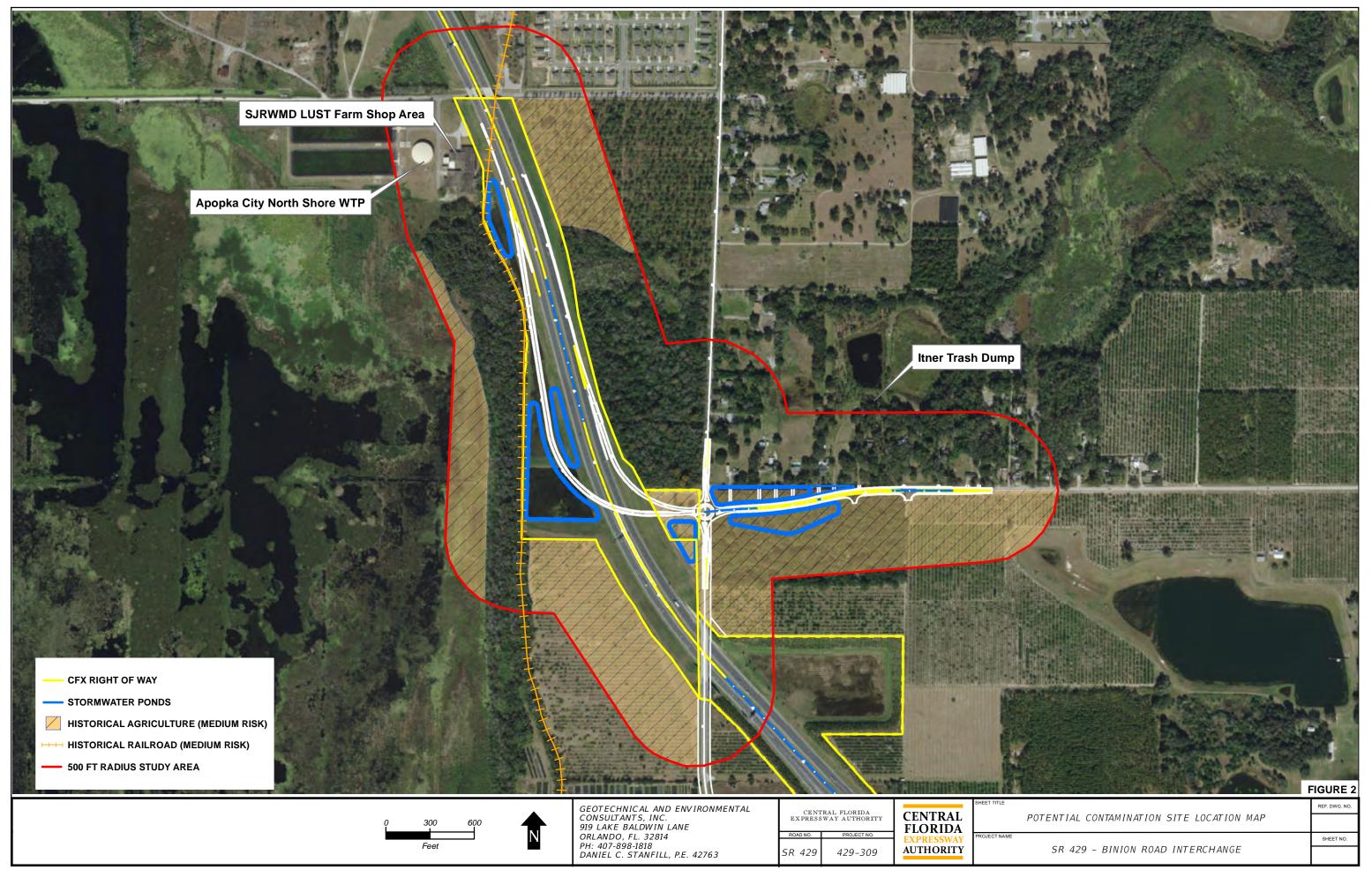
Daniel C. Stanfill, P.E. Senior Vice President

Florida License No. 42763

) and c. Starfiel

FIGURES





APPENDIX A

Contamination Risk Rating Descriptions

The contamination potential risk rating system was developed by FOOT and is included in Part 2, Chapter 20 of the PD&E Manual, dated July 1, 2020. The rating system incorporates four levels of risk:

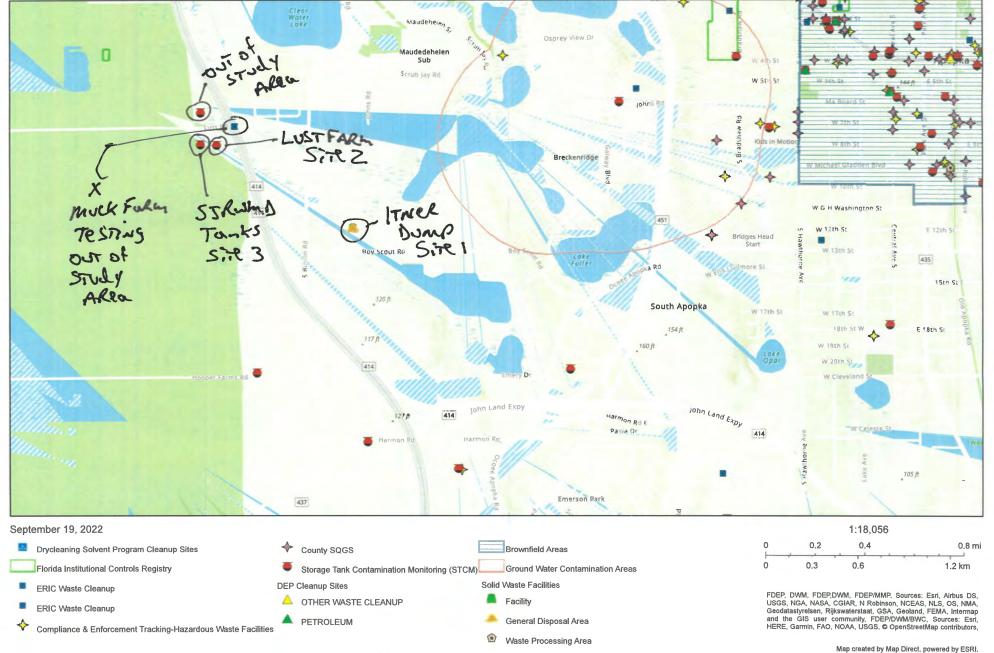
- 1. **No** A review of available information on the property and a review of the conceptual or design plans indicates there is no potential contamination impact to the project. It is possible that contaminants have been handled on the property. However, findings from the Level I evaluation indicate that contamination impacts are not expected.
- 2. **Low** A review of available information indicates that past or current activities on the property have an ongoing contamination issue; the site has a hazardous waste generator identification (ID) number, or the site stores, handles, or manufactures hazardous materials. However, based on the review of conceptual or design plans and/or findings from the Level I evaluation, it is not likely that there would be any contamination impacts to the project.
- 3. **Medium** After a review of conceptual or design plans and findings from a Level I evaluation, a potential contamination impact to the project has been identified. If there is insufficient information (such as regulatory records or site historical documents) to make a determination as to the potential for contamination impact, and there is reasonable suspicion that contamination may exist, the property should be rated at least as a "Medium." Properties used historically as gasoline stations and which have not been evaluated or assessed by regulatory agencies, sites with abandoned in place underground petroleum storage tanks or currently operating gasoline stations should receive this rating.
- 4. **High** After a review of all available information and conceptual or design plans, there is appropriate analytical data that shows contamination will substantially impact construction activities, have implications to ROW acquisition or have other potential transfer of contamination related liability to the FDOT.

APPENDIX B

MapDirect Information

Map Direct Map

Standard Map



Site 1 Itner Trash Dump

1 june

EROFFICE MEMO

ORLANDO, FLORIDA 32801 / (305) 241-4311

14 June 72

TO:

Dr. Ralph Poe, Solid Waste Liaison Commissioner

FROM:

M. W. Hall, Superintendent, Solid Waste Disposal System

SUBJECT:

Closing of Itner Dump

Last October, when Itner Dump was closed to the public because we were cited for burning, it was turned over to the City of Apopka for their trash. The arrangements were made by Commissioner Pickett and John Divine with the Mayor of Apopka, so that the City wouldn't be left without a place for their trash. Porter, at that time, accepted garbage only, but not trash, from the municipalities and franchised collectors. The attached letter is the latest correspondence on the subject that I'm aware of.

I suggest: now that Porter can take trash, we have the City of Apopka bring their trash to Porter. This will bring one more customer into the revenue fold and eliminate one more "private" dump. Additionally, I've heard by the grapevine that the County has rented a dozer recently to work the Itner dump. The report may or may not be true but if it is that expense, as a continuing item, could be eliminated.

Do you wish me to take the action with the City of Apopka or do you prefer to do it?

MWH/dh

Attachment

Vaul - What should be done on this? - do you want to landle it with agopha? Please advise

FLORIDA

June 28, 1972

TO: Max Hall

FROM: Ralph Poe

Enclosed is the response to your question of

June 14th.

Talked to Mayor Land unknowll

pass the word to councilman Hoffe
about Parter being open to trach,

Councilman Goffe called - told

him about Parter being open & to speed

word among chigens. Alab Hold him I hoped

Apopha world slart bringing their

loads (D)

FLORIDA

June 27, 1972

TO: Ralph Poe

FROM: Paul Pickett

I have no quarrel with the attached memorandum from Max Hall. I believe he should talk to the Mayor of Apopka and work out an orderly change at a future date to cause the City of Apopka the least amount of inconvenience and financial burden.

LETE	
AUD	
CHANGE	
INACTIVE	

c	n	11	Ţ	O	Λ	t	Ą	10	
ъ.	v	11		43	w	-	- 4	20	-

COUNTY OBONGE SITE ITHER TRUSH Dang (APOPIED DUMP) DATE 8/3/23
STREET ADDRESS JM W - ON SR #37A From C.Ty / Drupter (WINTER GARDIN Apupa Rd)
LOCATION UTM TOWNSHIP 3/5 RANGE 38 & SECTION /?
RESPONSIBLE OPERATING AUTHORITY C. T. Propkin
OWNERSHIP CITY HAIL, Arcylca Flo
PHONE NO. NONE POPULATION SERVED APOPKA AREA
NO. OF ACRES - METHOD OF OPERATION (b) AREA (c) WETLAND (e) DUMP (c) DUMP (d) HIGH-RISE (f) OTHER (c)
13. (a) QUARRY (b) STRIPMINE (e) GULLY (g) MARSH (14. YES (TOPOGRAPHY (b) BORROW PIT (d) HILLSIDE (f) LEVEL AREA (S) SCALES NO (C)
OWNERSHIP C:Ty HAIL, APCYCL FIND 9. PHONE NO. NOWE 10. POPULATION SERVED APOPKA APCHA 11. NO. OF ACRES S- METHOD OF OPERATION (b) AREA (c) WETLAND (e) DUMP NOW (f) OTHER (c) 13. (a) QUARRY (c) STRIPMINE (e) GULLY (g) MARSH (f) OTHER (c) 15. (a) RESIDENTIAL (c) AGRICULTURAL (c) VACANT (c) SURROUNDING LAND-USE (b) COMMERCIAL (d) INDUSTRIAL (e) VACANT (e) 16. 17. 18. 18. 18. 18. 18. 18. 19. 19. 19. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
ZONING (b) COMMERCIAL (d) INDUSTRIAL (F) VACANT YEAR BEGIN 19:58 +
18. (a) PARK (b) PARKING LOT (c) SUILDING CONSTRUCTION (d) NONE (e) NONE (f) OTHER MEDITAL USE (b) PARKING LOT (d) AIRPORT (f) OTHER MEDITAL M
TYPES OF WASTE RECEIVED (a) RESIDENTIAL (c) SEPTIC TANK PUMPINGS (i) HAZARDOUS, CLINI- 20. YES (iii) SEWAGE SLUDGE (iii) HAZARDOUS, CLINI- 20. YES (iiii) CAL, HOSPITAL BURNING NO (iii) WATER TREATMENT, (iiii) WATER TREATMENT, (iiiii) WATER TREATMENT, (iiiii) WATER TREATMENT, (iiiii) WATER TREATMENT, (iiiiiiii) WATER TREATMENT, (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
(d) AGRICULTURAL (n) DEAD ANIMALS (SLUDGE
DAYS OPEN FOR DISPOSAL S M T W T F S FREQUENCY OF COVER NONE T S M T W T F S
DEPTH OF WATER TABLE 23. DEPTH OF WATER TABLE 24. SOIL PERMEABILITY POOKS 26. (a) NONE (c) OCCASIONAL (d)
NO. OF WELLS WITHIN ONE MILE & SHALLOW 87 DEEP FLOODING (b) RARE (C) OCCASIONAL (d) FREQUENT (d)
NO. OF ROADMAYS ADJACENT TO SITE / SLUPE OF SITE N W
29.
NO. OF RESIDENCES OR BUSINESSES WITHIN 1000 FEET 31. (a) SAND (c) LOAMY-SAND (e) SANDY CLAY LOAM 32. YES 50IL TEXTURE (b) SANDY-LOAM (d) SANDY CLAY (f) CLAY FENCED NO MAND MONITORING WELLS YES POTENTIAL WATER POLLUTION (b) HIGH 33. NO FEED SANDY CLAY (f) CLAY FENCED NO MAND MONITORING WELLS YES POTENTIAL WATER POLLUTION (b) HIGH 35. YES 56. YES 37. YES 75. YES
MONITORING WELLS YES POTENTIAL WATER POLLUTION (b) HIGH
OUMPING IN WATER NO DE PERIMETER DITCH NO DE LINER NO DE LINER
S8. (a) PLASTIC (c) BENTONITE (e) OTHER (1)
OXIDATION POND NO POND AREA NA DEPTH OF SOILS TO BEDROCK UNK
EVIDENCE OF LEACHING NO FINAL LEACHATE TREATMENT NEEDED NO Z
45. (a) CHLORINATION (c) OZONATION (e) OTHER (f) NONE (d) ADVANCED (f) NONE (F) NONE (RODENT PROBLEM YES
DISCHARGE (b) DITCH (d) LAKE (f) MARSH RODENT CONTROL YES
49. CELL DEPTH OF REFUSE 10 TO 15 H INSECT PROBLEM" S2. YES
S2. YES S3. YES S1. S3. S2. BLOWING PAPER CONTROL NO S4. YES S5. YES S5. YES S5.
ALL WEATHER ACCESS ROAD NO GAS CONTROL NO F
SPREADING OF REFUSE IN 2 FT, LAYERS ST. YES T
ONE (1) FT. INTERMEDIATE COVER APPLIED WITHIN ONE (1) WEEK CELL COMPLETION NO SEC.
THO (2) FT. FINAL COVER APPLIED WITHIN ONE (1) YEAR CELL COMPLETION NO IN SO. NOW (a) CRAWLER TRACTOR (c)HYDRAULIC BACK HOE (e)PAN SCRAPER (g)BRUSH HOG
EQUIPMENT AVAILABLE DAILY (b) RUBBER TIRED TRACTOR (d)LANDFILL COMPACTOR (f)DRAGLINE (h)TRASH PUMPS (6).
PROPOSED COST OF OPERATION S/TON
NAME OF PERSON COMPLETING FORM 62. 62. DEPT. OF POLLUTION CONTROL
REVIEW DATE PERMIT NO. ISSUE DATE DEPT. OF POLLUTION CASH

FLORIDA DEPARTMENT OF POLLUTION CONTROL

REPORT OF VIOLATION

		DATE 10/16/23 TIME 16:30
NAME_B	Dopka City Duny	
ADDRESS	ER 437A	COUNTY Orong
DESCRIPT	TION OF VIOLATION - NO DA	11g Coven
		LOCATION
REMARKS_	No. Cover in Time A	nox 6MO Per ATTENDERLY
elimination rules or record : and may	ting pollution and is to a pollution control. A coin the Regional Office of be used as the basis for	ed in the interest of regulating and inform you of a violation of Florida's opy of this report will be kept on the Department of Pollution Control official action. This does not reany liability of further legal action.
Your cod	operation is solicited.	
ISSUING	OFFICER John De 1	Manay
	A duly designate of Pollution Con-	d agent of the Florida Department
NOTE:	penalty of up to \$5,000 and Department of Pollution of Provides for punishment \$1,000 fine for any violation.	Statutes provides for a civil a day for any violation of a Control rule. In addition that of up to a year in jail and a action which results in any injury or welfare or to plant or animal
Received	by Comson Hay	(es) on 10/16/73/16:30.
OR		
	livered to above named on	10/16/73 by Add
John	h	date
70/1/	ignature	

W.

The sale of

BECEINED

OCT 12 1973

27 April 73 Written 8 May 73 Typed CENTRAL REGION

10: C. W. Shaffield, Pollution Control Dept.

1834: H. W. Mall, Squerintendent, Solid Waate Disposal System

SUBJ: Closing of Dumps

Early in 1971 Orange County was cited by the State Dept. of Pollution Control for the open burning cump near Apopka and known as Itner 1980. As a result of the citation, the county ceased its operations at 1981 location. The dump was turned over to the City of Apopka for that city's use for trash (no garbage) disposal with entry limited to city vehicles.

when the Forter Landfill was opened to trash in mid - 1972. I suggested to the D.C.C. that the City of Apopka start using the Forter Landfill. The D.C.G. concurred in the suggestion and I was requested to contact the City of Apopka which I did by telephone. The City of Apopka has, nevertheless, continued its use of the Itner Dump.

Your attention is invited to one of the conditions for the third year continuation of our Solid Waste Demonstration Project, " Affective Use of high Water Table Areas for Sanitary Landfill". A conv of the latest amendment to the Grant is attached for your information.

The director of Fublic Works, at this morning's staff meeting, suggested I give you a made so you can bring to the attention of the Follation Control Advisory Scard the requirement that Grange County tiese, or convert to sanitary landfills, all dumps within the County, these do this and obtain the board's recommendation for a time-placed close-down sensible.

The most of this letter has dealt with the Aropka Bump, that is all because I have correspondences dealing with that particular how with the demonstration project condition for "closing

lion lob	JMC	59	
77.0	JMC		
1000-			
INVESTO			
FILE			

C. W. Sheffield Closing of Dumps Page 2

all dumps" applies equally to any and all other dumps in the County, Your recommendations for action are requested.

H. W. Hall

Man/ah

Attachments: 1. Letter to The Honorable John Land, dated 20 Sept. 71, from Paul Pickett

2. Letter to The Monorable John Land, dated 22 Nov. 71, from Paul Pickett

3. Memo to Dr. Halph Pos, dated 14 June 72

4. Memo to Dr. Ralph Poe, dated 27 June 72, from Paul Pickett

5. Nemo to Max Hall, dated 28 June 72, from Dr. Ralph Poe

6. Grant Amendment # 1

cc: Dr. Ramon Beluche. Director, Environmental Engineering, VTW V. N. Mastings, P.E., County Engineer

POST OFFICE BOX 1393 TELEPHONE (305) 849-3291

> PAUL PICKETT CHAIRMAN

November 5, 1973

Mr. Max Hall Superintendent Solid Waste Disposal System P.O. Box 14413 Orlando, Florida 32807

Dear Max:

The former county dump at the south edge of Apopka, which is now being used exclusively by the City of Apopka with our permission, may or may not be needed any longer.

Permission to the City of Apopka was granted because there were large areas that need to be filled before the refuse could be covered economically.

Please check the facility again to see if the low areas have been filled and discuss with the proper persons representing the City of Apopka the present need to keep the facility open.

Please send your reports and recommendation to Mr. Harris who will then bring the matter to the Board for action.

Sincerely,

PAUL PICKETT

Paul Pickett

PP:lrs

cc: H.E. Smith
N. Park Ave.

Apopka, Florida 32703

ORANGE
INTEROFFICE MEMO COUNTY ORLANDO, FLORIDA

Rand. 2 Sec. 3

FLORIDA

13-3653

To: John Mc Manamy

November 29, 1973

TO: Charles Goode, Director Public Works Division

FROM: James L. Harris, County Administrator

SUBJECT: Apopka (Itner) Dump

I have reviewed the attached file from Max Hall and discussed it with Chairman Pickett. Mr. Pickett believes the dump should be permanently closed on June 1, 1974. This will give the city sufficient time to make other plans and also close the dump.

Would you notify the City of this action as Public Works Director?

JLH/mr

cc: Max Hall Tom Hastings

Attachment - complete file

1 JM

Office of Solid Waste Management Programs



Community Solid Waste Practices LAND DISPOSAL SITE MODIFICATION REPORT

1. STATE	2. COUNTY	3.	SITE LOCATION (POLITICAL JURISDICTION	1)
FLA	2 3 OP BN9	2 4 5 6	DRANGE CO/City BPOF	TA 7 8 9 10
4. NAME OF SITE	Nosh Site	5. ADDRESS OF SITE	14 6. DAYE OF DAY	MONTH YEAR O 6 7 5
	N COMPLETING FORM	E.T. IS SOLD WASTE	9. ORGANIZATION AND Fla. D.P.C. 33/14/MAGUINE SUITE JSZ. O	ADDRESS
10. Original La	and Disposal &ite Probl	ems (check appropriate	e categories)	
	Burning 21	Water Pollution	Lack of Daily C	over
11. Site Has Be	een (check A or B and a	ppropriate actions co	mpleted)	
A	Eliminated and;		rted to Sanitary Landfill	and;
	Rats Eradica	ted 31 32	Rats Eradicated	
	Burning Stop		Burning Stopped	
	Water Pollut	ion Corrected 34	Water Pollution Correcte	d
	Access Prohi		Daily Cover Practiced	
NOT COVER ON			Other (Specify)	
PN 17-7.07	Other	:fu\		
12. Reason for	30 (Spec Modification (check on	8)		e Modification Completed
Law	Operation Comp	oleted Sag Other Aco	(Speciff) 13-7 Day 1 8 40 41	Month Year 42 43 44 45
14. Waste Forme	erly Hauled to the Elim	inated Site Now Being	Hauled to:	
County	Site Location	Name of Site	Address	Tons or Percent
A onange	Zellwood Fla.	TANGENIÄL	Cementery Ad. Zellwood Fra.	100%
В				
C				
D E				
EPA-128 (Cin) (Rev. 11-72)			1	



Community Solid Waste Practices LAND DISPOSAL SITE MODIFICATION REPORT

1. STATE	2. COUNTY			ITICAL SDICTION)
	2 3	4 5 6	30117	7 8 9
4. NAME OF SI		5. ADDRESS OF SITE		DAY MONTH YEAR
2" "	11 12 13		14	15 16 17 18 19 2
7. NAME OF PE	RSON COMPLETING FORM	8. TITLE	9. ORGANIZAT	ION AND ADDRESS
0. Original	Land Disposal Site Prob	lems (check appropria	te categories)	
	Burning 21	Water Pollution	Lack of	Daily Cover
1. Site Has	Been (check A or B and	appropriate actions c	ompleted)	
	A Eliminated and;		erted to Sanitary La	undfill and;
	Rats Eradic	ated 31	Rats Eradicated	
	Burning Sto	pped33	Burning Stopped	
	Water Pollu	tion Corrected 34	Water Pollution C	orrected
	Access Proh	ibited 35	Daily Cover Pract	iced
	Site Covere	d	Other	
•	29 0+h	36	(Specify)	
,	Other(Spec	cify)		
2. Reason fo	or Modification (check o			3. Date Modification Completed
	aw Operation Com	pleted . Other _	35	Day Month Year
37	38	39	(Specify)	40 41 42 43 44 4
4. Waste For	merly Hauled to the Elir	ninated Site Now Bein	g Hauled to:	
County	Site Location	Name of Site	Address	Tons or Percer
) E				
EPA-128 (Cin)) 4	*		

DEPARTMENT OF POLLUTION CONTROL SOLID WASTE SITE INSPECTION REPORT

COUNTY: Orange	DATE: #0/2/73	PHOTO REF .: None,
NAME OF SITE: ITWEN Tra	s4 0.	
LOCATION: 2 mi was To Apop with Gangles 1	Ka. 0.0 T. 215 F	2.88E S.17
DIRECTION OF SITE:		
DUMP OR LANDFILL		
TYPE OF TRASH: 7/2254 Our	r	
BURNING AT INSPECTION:	YESNO<	
EVIDENCE OF BURNING:	YESNO	
NEED OF COVER:	YES_X_NO	
RECENT COVER:	YES X NO	
CONDITION OF SITE: EXC	ELLENTGOODBAD_X	
ODORS:	YES NO	i I
DUMPING IN WATER:	YES NO REMARKS:	
SWAMP OR MARSH AREA:	YESNO_X	
DEPTH OF REFUSE AT INSPECT	PION: Wates 4726/n	
SEPTIC TANK CELLS:	YESNO	
INSECTS:	YESNO_\square	
RODENTS:	YESNO_K	
ATTENDENT ON DUTY:	YES X NO *	

RECOMMENDATION:

In has covered Dojd France But how a poon ATTENT TO GOVER REMARKS:

SITE INSPECTED BY: Anchory

DEPARTMENT OF POLLUTION CONTROL SOLID WASTE SITE INSPECTION REPORT

PHOTO REF .:

COUNTY: Oliverse	DATE: /0/	\$6/23	P	HOTO RE
NAME OF SITE: 1THEN The	sh Dungo Cope Ka	CATE D	(مهمال)	
LOCATION: 437 A S. J APO	ta.	2/4.T	R.28E	s. /7
DIRECTION OF SITE:				
DUMP OR LANDFILL				
TYPE OF TRASH: Trash			(1)	
BURNING AT INSPECTION:	YES NOX	-		
EVIDENCE OF BURNING:	YESNOX			
NEED OF COVER:	YES 🗶 NO			
RECENT COVER:	YESNO	-		
CONDITION OF SITE: EXCE	LLENT GOOD BA	D		
ODORS:	YESNOX		3	**
DUMPING IN WATER:	YESNO RE	MARKŠ:		
SWAMP OR MARSH AREA:	YESNO			
DEPTH OF REFUSE AT INSPECT	ION:			
SEPTIC TANK CELLS:	YESNOX			
INSECTS:	YES NO			
RODENTS:	YESNO_			

ATTENDENT ON DUTY: YES X NO____

RECOMMENDATION:

REMARKS:

1. Issue Reporty Vaclosion

SITE INSPECTED BY-

ID Mr. Many

`

..

ON SUSP & San Mayor

PHOTO REF.:

s.

DEPARTMENT OF POLLUTION CONTROL SOLID WASTE SITE INSPECTION REPORT

COUNTY: Onanga	DATE: //28/7 y
NAME OF SITE: OPOPKER	
LOCATION: Old le ater Ca	anden/to T. R.
DIRECTION OF SITE:	
TYPE OF TRASH:	
BURNING AT INSPECTION:	YESNO
EVIDENCE OF BURNING:	YESNOY
NEED OF COVER:	YES Y NO
RECENT COVER:	YESNO_Y
CONDITION OF SITE: EX	XCELLENT GOOD BAD >
ODORS:	YES X NO
DUMPING IN WATER:	YESNO} REMARKS:
SWAMP OR MARSH AREA:	YES NO
DEPTH OF REFUSE AT INSPI	ECTION: Vanc 4 To 12 ft
SEPTIC TANK CELLS:	YESNOX
INSECTS:	YES__ NO
RODENTS:	YES Y NO

But Not Complety Pushed to covered

Mud. Melesh. Asset

ATTENDENT ON DUTY:

RECOMMENDATION:

1. Precincial - Clase Com a Classed on a Classed Paranty

REMARKS:

1 This ste is a Fine Hazard No trempradeque Course

2. Alory hoya + Conny

3. Litterfloor y

SITE INSPECTED BY:

26 Hovember 73

TO: James C. Harris, County Administrator

TROME N. W. Holl Superintendent Solid Vaste Disposal System

SUBJ: Report of Visits to City of Apopks and Itner Dump

On 15 November I met with Mr. Robert Griffin of the City of Apopka with a follow up visit 20 November. Although Apopka does not have a City Manager, I understand Mr. Griffin's duties and responsibilities can probably be best described by applying the citle of City Manager to his job. We discussed the dump and Apopka's desire to consinue using it. We hade a lengthy inspection 20 November.

Inspection showed:

- (A) A recent excavation from which 500 to 600 cubic yards of clay had been removed for street repairs in Apopka.
- (B) Three new garbage loads on the perimeter of the excavation of (A) No. Griffin believed these to be dity loads.
- (I) At least two other garbage loads Bostly govered on the parameter of the excavation of (A) = also elty leads and covered by the sity.
- Two fresh garbage loads at the north side of the dump one of these Mr. Griffin reasonably established as being from outside the city. We did not take further time for Mr. Griffin to identify the exact origin of the second load. Assorbing to Mr. Griffin, the caretaker indicated the haulers of those loads had "smeaked in" unobserved.
- (E) Nearly all trash loads from the city contained some garbage.
- (7) Old (prior to the last pushing) leads of garbage were

James L. Harris, County Administrator Report of Visits to City of Apopka and Itner Dump Page 2

- (0) No gate or chains at the entrance.
 - are south and west as well as part of the north sides of the facility are banks of pushed trash at least ten to fifteen feet higher than the natural terrain. There are other large piles in several places within the dump the perimeter banks and internal piles pushed toward when the could fill all the holes and do much toward relains the level of the north sides would thus be restored to original terrain level. The remainder of the north side along with the east aide would then be up to twenty or twenty-five feet below original grade.

During our visit on the 15th, Mr. Griffin assured me he would take steps to stop all garbage from entering. He stated he will confine the dumping to appliances, wood such as lumber, sawdust, tree trucks, stumps and branches and scrap metal. As far as Mr. Griffin knew, the City's agreement with the County did not prohibit the City's obtaining clay from the property. On the 20th he reiterated the above along with stated desire of the City for continued has of the dump. No new garbage observed 20 Movember.

R.W.H. Report prepared 23 November 73

MWH/dh

Go: Robert Griffin, P. O. Drawer 1229, Apople, Plorida 32703 G: D: Goode; P.E., Public Works Director T. M. Hastings, P.E., County Engineer

26 Hovember 73

TO: James L. Harris, County Administrator

PROM: N. V. Hall, Superintendent, Solid Waste Disposal System

SUBJ: Itner (Apopka) Dumo

Reference is made to Chairman Pickett's letter to me, dated 5 November 1973, on subject dump; a copy is attached. I received the letter on 12 November.

The dump was checked on 15 and 20 Hevember in company with Mr. Robert Griffin, an official of the City of Apopka, who stated the City desired to continue the use of the facility. It was evident to us both that the facility was in use not only for tream but also for garbage dumping. We agreed, from observation, it has been similarly used for a lengthy period. I also learned - Mr. Oriffin was apparently aware of it - the City of Apopka has used the property as a source of clay for road remains. Mr. Griffin assured me all garbage dumping would be stopped. A more detailed report is attached.

Mr. E. E. Smith of Apopex contacted me and requested I meet with him to discuss the Apopex Dump. We met at the site 20 Movember, walked outside the east and south sides and looked at the north and west sides. Mr. Smith stated he "represents and speaks for the property owners in the vicinity who went the eyesore closed and covered". He also stated that earth from the lake digging on his property could be made available for cover.

The State Department of Pollution Control in requiring all dumps to be closed by some date in 1976. The Itney Dump could be closed as economically (and with some cover available from Mr. Smith's property probably more economically) now as at any future then before the State's deadling date.

M.W.H.

Hall/qu

attachments

co: Robert Griffin, P. O. Drawer 1229, Apopka, Florida 32703 E. E. Smith, N. Park Ave., Apopka, Florida 32703 C. L. Goode, P.E., Public Works Director Tom Hastings, P.Z., County Engineer

Site 2 Lust Farms Shop Area



Department of Environmental Protection

Jeb Bush Governor Twin Towers Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

NOV 3 2005

Colleen M. Castille Secretary

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Ms. Carol Brown, P.E. St. Johns River Water Management District P.O. Box 1429 Palatka, Florida 32178-1429

Subject:

Site Rehabilitation Completion Order Former Lust Farms – Shop Area

2771 Lust Road

Apopka, Orange County, Florida FDEP Facility ID# 488622607

Discharge Date: February 01, 1996 (Non-program)

Dear Ms. Brown:

The Orange County Environmental Protection Division has reviewed the Site Assessment Report (SAR) and No Further Action Proposal (NFAP) dated March 1998 (received September 21, 1998), prepared and submitted by BEM Systems, Inc. for the petroleum product discharge referenced above. Documentation submitted with the SAR/NFAP confirms that criteria set forth in subsection 62-770.680(1), Florida Administrative Code (F.A.C.), have been met. Please refer to the attached map of the source property and analytical summary tables. The SAR/NFAP is hereby incorporated by reference in this Site Rehabilitation Completion Order (Order). Therefore, you are released from any further obligation to conduct site rehabilitation at the site for petroleum product contamination associated with the discharge referenced above, except as set forth below.

(1) In the event concentrations of petroleum products' contaminants of concern increase above the levels approved in this Order, or if a subsequent discharge of petroleum or petroleum product occurs at the site, the Florida Department of Environmental Protection (Department) may require site rehabilitation to reduce concentrations of petroleum products' contaminants of concern to the levels approved in the SAR/NFAP or otherwise allowed by Chapter 62-770, F.A.C.

(2) Additionally, you are required to properly abandon all monitoring wells within 60 days of receipt of this Order. The monitoring wells must be plugged and abandoned in accordance with the requirements of subsection 62-532.500(4), F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for an administrative hearing are set forth below.

Persons affected by this Order have the following options:

- (A) If you choose to accept the Department's decision regarding the SAR/NFAP you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.
- (B) If you choose to challenge the decision, you may do the following:
- (1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or
- (2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from the St. Johns River Water Management District, shall mail a copy of the request to the St. Johns River Water Management District at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

Ms. Carol Brown, FDEP Facility ID# 488622607 Page three

How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from the St. Johns River Water Management District, shall mail a copy of the petition to the St. Johns River Water Management District at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under sections 120.569 and 120.57, F.S.

Pursuant to subsection 120.569(2), F.S. and rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;
- (b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
- (c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under section 120.68, F.S., by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General

Ms. Carol Brown, FDEP Facility ID# 488622607 Page four

Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

Questions

Any questions regarding the Orange County Environmental Protection Division's review of your SAR/NFAP should be directed to Matthew Green at (407) 836-1431. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for an administrative hearing or a request for an extension of time to file a petition for an administrative hearing.

The FDEP Facility Number for this site is 488622607. Please use this identification on all future correspondence with the Department or the Orange County Environmental Protection Division.

Sincerely

Bureau of Retroleum Storage Systems

MEA/mng

Attachment

Bret LeRoux, FDEP Central District Office Grace Rivera, FDEP - BPSS-(PCS2)

Matthew Green, P.G., Orange County-Environmental Protection División

File

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

NOV

(or Deputy Clerk)

Date



ENVIRONMENTAL PROTECTION DIVISION Lori Cunniff, Manager

Leeds Commerce Center 800 Mercy Drive, Suite 4 Orlando, Florida 32808-7896 407-836-1400 · Fax 407-836-1499 www.OrangeCountyFL.net

P.G. CERTIFICATION

Phase I Environmental Site Assessment / No Further Action Proposal for the Former Lust Farms – Shop Area, located at 2771 Lust Road, Apopka, Orange County, Florida, FDEP Facility ID# 488622607.

I hereby certify that in my professional judgment, the components of this No Further Action Proposal satisfy the requirements set forth in Chapter 62-770, Florida Administrative Code (F.A.C.), and that the conclusions in this report provide reasonable assurances that the objectives stated in Chapter 62-770, F.A.C., have been met. However, I have not evaluated and do not certify aspects of the aforementioned documents that are outside my area of expertise.

<u>X</u>	I personally completed this review.		
_	This review was conducted by working under my direct supervision.	.	

Matthew N. Green, P.G.

Professional Geologist No. 1880

Petroleum Cleanup Section

Date Date

Site 3

Apopka City North Shore WTF

CONTRACTOR OF THE PROPERTY OF

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400

Division of Waste Management

Petroleum Storage Systems

Storage Tank Facility Routine Compliance Site Inspection Report

Facility Information:

Facility ID: 9814765 County: ORANGE

Inspection Date:07/27/2022

Facility Type: H - Local Government

Facility Name: APOPKA CITY-NORTH SHORE WTF

Tanks

550

Em Gen

Em Gen

of inspected ASTs: 2
USTs: 0

Mineral Acid Tanks: 0

Latitude:

APOPKA, FL 32703 28° 40' 5.5416"

Longitude:

81° 33' 27.6804"

2800 LUST RD

LL Method: DPHO

Inspection Result:

Result:

Minor Out of Compliance

Signatures:

TKOREP - ORANGE CNTY ENVIRONMENTAL PROTECTION DIVISION (407) 836-1499

Storage Tank Program Office and Phone Number

Charles D. Cox

Inspector Name

Jason Brown

Representative Name

Inspector Signature Principal Inspector

ORANGE CNTY ENVIRONMENTAL PROTECTION

DIVISION

Representative Signature

Operator

City of Apopka

Owners of UST facilities are reminded that the Federal Energy Policy Act of 2005 and 40 CFR 280 Subpart J requires Operator Training at all facilities by October 13, 2018. For further information please visit: https://floridadep.gov/waste/permitting-compliance-assistance/content/underground-storage-tank-operator-training

Financial Responsibility:

Financial Responsibility:

INSURANCE

Insurance Carrier:

COMMERCE & INDUSTRY INSURANCE CO

Effective Date:

10/01/2021

Expiration Date:

10/01/2022

Completed System Tests

Туре	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability - Overfill Protection	07/27/2022	Passed	07/28/2022	07/27/2023	Krueger liquid level gauge

Reviewed Records

Record Category	Record type	From Date	To Date	Reviewed Record Comment
Three Years	Certificate of Financial Responsiblity	10/01/2021	07/27/2022	
Three Years	Monthly Release Detection Results	02/12/2020	07/20/2022	

Violations:

Type: Violation Significance: Minor

Rule: 62-762.601(7), 62-762.602(7)

Violation Text: Annual operability testing of release detection systems not completed. Explanation: There is no proof of the annual testing of the rupture basin alarm test.

Corrective Action: Have the rupture basin alarm tested.

Site Visit Comments

07/27/2022

On site for the routine compliance inspection with City personnel.

The facility has a 8400 gallon belly tank under a gen set.

The tank is equipped with an electronic interstitial sensor..

Overfill protection is done with a Krueger liquid level gauge. The gauge was checked for operability while on site.

All records are ok; Insurance, CFR, placard and monthly visual inspections.

-Need proof of the annual testing of the rupture basin alarm.

Forward proof of this testing to charles.cox@ocfl.net in the next 60 days.

Inspection Comments

07/28/2022

A signed copy of this report was e-mailed to Daniel Ribnikar, dribnikar@apopka.net.

Inspection Photos

Facility ID: 9814765

Added Date 07/28/2022

2022/07/27, Belly tank and generator



ENTALP

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400

Division of Waste Management Petroleum Storage Systems

Storage Tank Facility Routine Compliance Site Inspection Report

Facility Information:

Facility ID:

9814765

County: ORANGE

Inspection Date: 01/03/2019

Facility Type:

H - Local Government

of Inspected ASTs: 2

Facility Name: APOPKA CITY-NORTH SHORE WTF

USTs: 0

APOPKA, FL 32703 28° 40' 5.5416"

Latitude: Longitude:

81° 33' 27.6804"

2800 LUST RD

LL Method:

DPHO

Mineral Acid Tanks: 0

Inspection Result:

Result:

In Compliance

Signatures:

TKOREP - ORANGE CNTY ENVIRONMENTAL PROTECTION DIVISION (407) 836-1499

Storage Tank Program Office and Phone Number

Charles D. Cox

Al Messina

Inspector Name

Representative Name

RA MMSZ

Inspector Signature

Principal Inspector

ORANGE CNTY ENVIRONMENTAL

PROTECTION DIVISION

Representative Signature

Operator

City of Apopka

Owners of UST facilities are reminded that the Federal Energy Policy Act of 2005 and 40 CFR 280 Subpart J. requires Operator Training at all facilities by October 13, 2018. For further information please visit: https://floridadep.gov/waste/permitting-compliance-assistance/content/underground-storage-tank-operator-training

Financial Responsibility:

Financial Responsibility: INSURANCE

Insurance Carrier:

COMMERCE & INDUSTRY INSURANCE CO

Effective Date:

02/19/2018

Expiration Date: 02/19/2019 Facility ID: 9814765

Completed System Tests

Туре	Date Completed	Results	Reviewed	Next Due Date	Comment
Annual Operability Test	01/03/2019	Passed	01/04/2019	01/03/2020	Interstice (electronic)
Annual Operability Test	01/03/2019	Passed	01/04/2019	01/03/2020	Overfill protection (Krueger)

Reviewed Records

Record Category	Record Type	From Date	To Date	Reviewed Record Comment
Two Years	Monthly Release Detection Results	10/11/2016	12/31/2018	
Two Years	Certificate of Financial Responsiblity	02/19/2018	01/03/2019	

Site Visit Comments

01/03/2019

On site for the routine compliance inspection. The facility has a belly tank under a gen set. The tank is 8400 gallons.

There is an unregulated 550 gallon belly tank on site also.

The 8400 gallon tank's interstitial sensor was tested while on site.

Overfill protection is done with a Krueger liquid level gauge. The gauge was checked for operability while on site.

All records are ok; Insurance, CFR, placard and monthly visual inspections.

Inspection Comments

01/03/2019

A signed copy of this report was e-mailed to Daniel Ribnikar, dribnikar@apopka.net.

Inspection Photos

Facility ID: 9814765

Added Date 01/03/2019

2019/01/03, Tank



Interview Documentation

Richard P. McCormick

From:

Burson, Lu <Lu.Burson@dep.state.fl.us>

Sent:

Tuesday, September 20, 2022 3:09 PM

To:

Richard P. McCormick

Subject:

[Possible spam] RE: Landfill Question

Richard – The only information I can find is what you have already discovered in Oculus. You may want to check with Orange County EPD. Thanks – Lu

From: Richard P. McCormick < rpmccormick@gecfla.com>

Sent: Tuesday, September 20, 2022 10:20 AM

To: Ruth.Rauenzahn < Ruth.Rauenzahn@ocfl.net>; Burson, Lu < Lu.Burson@dep.state.fl.us>

Subject: Landfill Question

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hi Ruth, Lu,

I'm trying to research a historical landfill for CFX. It is at the northeast corner of Binion and Boy Scout Roads in Apopka.

It is called the Itner Trash Site, Itner Dump, and Apopka Site. Map Direct identifies it as FAC 22044.

Map Direct has some 1972 and 1973 documents that reference closing the facility.

Is there any way to check to see if there is any additional information?

Thank you.

Kindly,

Richard P. McCormick, P.G.



Geotechnical and Environmental Consultants, Inc.

919 Lake Baldwin Lane, Orlando, FL 32814 407-898-1818 | 321-352-8975 (Direct) | 407-267-7314 (Cell)

www.gecfla.com







GEC is pleased to announce that we are now a FDOT certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) prequalified in FDOT Work Groups 9.1, 9.2, 9.3, 9.4.1, 9.4.2, 9.5 and 10.3! GEC looks forward to helping you meet your DBE and MWBE Goals when working with the FDOT, Central Florida Expressway (CFX) Authority, Florida's Turnpike Enterprise and GOAA.

Richard P. McCormick

From:

Glen.Becker@ocfl.net

Sent:

Tuesday, September 20, 2022 11:08 AM

To:

Richard P. McCormick

Cc:

Ruth.Rauenzahn@ocfl.net; Jane.Gregory@ocfl.net; Sharon.Smeenk@ocfl.net

Subject:

RE: Landfill Question

I apologize, I meant to say there are NO petroleum storage tank compliance records.

Glen Becker

Environmental Program Supervisor

Orange County Environmental Protection Division

Storage Tanks Compliance 3165 McCrory Place, Suite 200

Orlando, FL 32803 Office: 407-836-1453 Cell: 321-689-8389 Fax: 407-836-1499

Email: glen.becker@ocfl.net

Web: www.ocepd.org







From: Richard P. McCormick < rpmccormick@gecfla.com>

Sent: Tuesday, September 20, 2022 11:04 AM To: Becker, Glen <Glen.Becker@ocfl.net>

Cc: Rauenzahn, Ruth <Ruth.Rauenzahn@ocfl.net>; Gregory, Jane W <Jane.Gregory@ocfl.net>; Smeenk, Sharon D

<Sharon.Smeenk@ocfl.net>
Subject: RE: Landfill Question

Hi Glen,

Excellent news!

Is there a FAC number I can research?

Thanks,

Richard P. McCormick, P.G.

Environmental Services Manager | Vice President



Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane, Orlando, FL 32814 407-898-1818 | 321-352-8975 (Direct) | 407-267-7314 (Cell) www.gecfla.com





From: Glen.Becker@ocfl.net < Glen.Becker@ocfl.net>

Sent: Tuesday, September 20, 2022 10:47 AM

To: Richard P. McCormick <rpmccormick@gecfla.com>

Cc: Ruth.Rauenzahn@ocfl.net; Jane.Gregory@ocfl.net; Sharon.Smeenk@ocfl.net

Subject: RE: Landfill Question

Hello Mr. McCormick,

There are petroleum storage tank compliance records associated in that location.

Glen Becker

Environmental Program Supervisor Orange County Environmental Protection Division Storage Tanks Compliance 3165 McCrory Place, Suite 200 Orlando, FL 32803

Office: 407-836-1453 Cell: 321-689-8389 Fax: 407-836-1499

Email: glen.becker@ocfl.net

Web: www.ocepd.org



Thanks for skipping the nitrogen fertilizer this summer!



From: Rauenzahn, Ruth < Ruth.Rauenzahn@ocfl.net> Sent: Tuesday, September 20, 2022 10:25 AM

To: Gregory, Jane W < Jane. Gregory@ocfl.net>; Becker, Glen < Glen. Becker@ocfl.net>; Smeenk, Sharon D

<Sharon.Smeenk@ocfl.net> Subject: FW: Landfill Question

From: Richard P. McCormick cormick@gecfla.com>

Sent: Tuesday, September 20, 2022 10:20 AM

To: Rauenzahn, Ruth <Ruth.Rauenzahn@ocfl.net>; Burson, Lu <Lu.Burson@dep.state.fl.us>

Subject: Landfill Question

Hi Ruth, Lu,

I'm trying to research a historical landfill for CFX. It is at the northeast corner of Binion and Boy Scout Roads in Apopka.

It is called the Itner Trash Site, Itner Dump, and Apopka Site. Map Direct identifies it as FAC 22044.

Map Direct has some 1972 and 1973 documents that reference closing the facility.

Is there any way to check to see if there is any additional information?

Thank you.

Kindly,

Richard P. McCormick, P.G.



Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane, Orlando, FL 32814 407-898-1818 | 321-352-8975 (Direct) | 407-267-7314 (Cell) www.gecfla.com





GEC is pleased to announce that we are now a FDOT certified Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) prequalified in FDOT Work Groups 9.1, 9.2, 9.3, 9.4.1, 9.4.2, 9.5 and 10.3! GEC looks forward to helping you meet your DBE and MWBE Goals when working with the FDOT, Central Florida Expressway (CFX) Authority, Florida's Turnpike Enterprise and GOAA.

PLEASE NOTE: Florida has a very broad public records law (F. S. 119). All e-mails to and from County Officials are kept as a public record. Your e-mail communications, including your e-mail address may be disclosed to the public and media at any time.

PLEASE NOTE: Florida has a very broad public records law (F. S. 119). All e-mails to and from County Officials are kept as a public record. Your e-mail communications, including your e-mail address may be disclosed to the public and media at any time.