

APPENDIX N

Crested Caracara Survey Technical Memorandum

(414506-1-22-01) SR 70 from Jefferson Avenue to CR 29

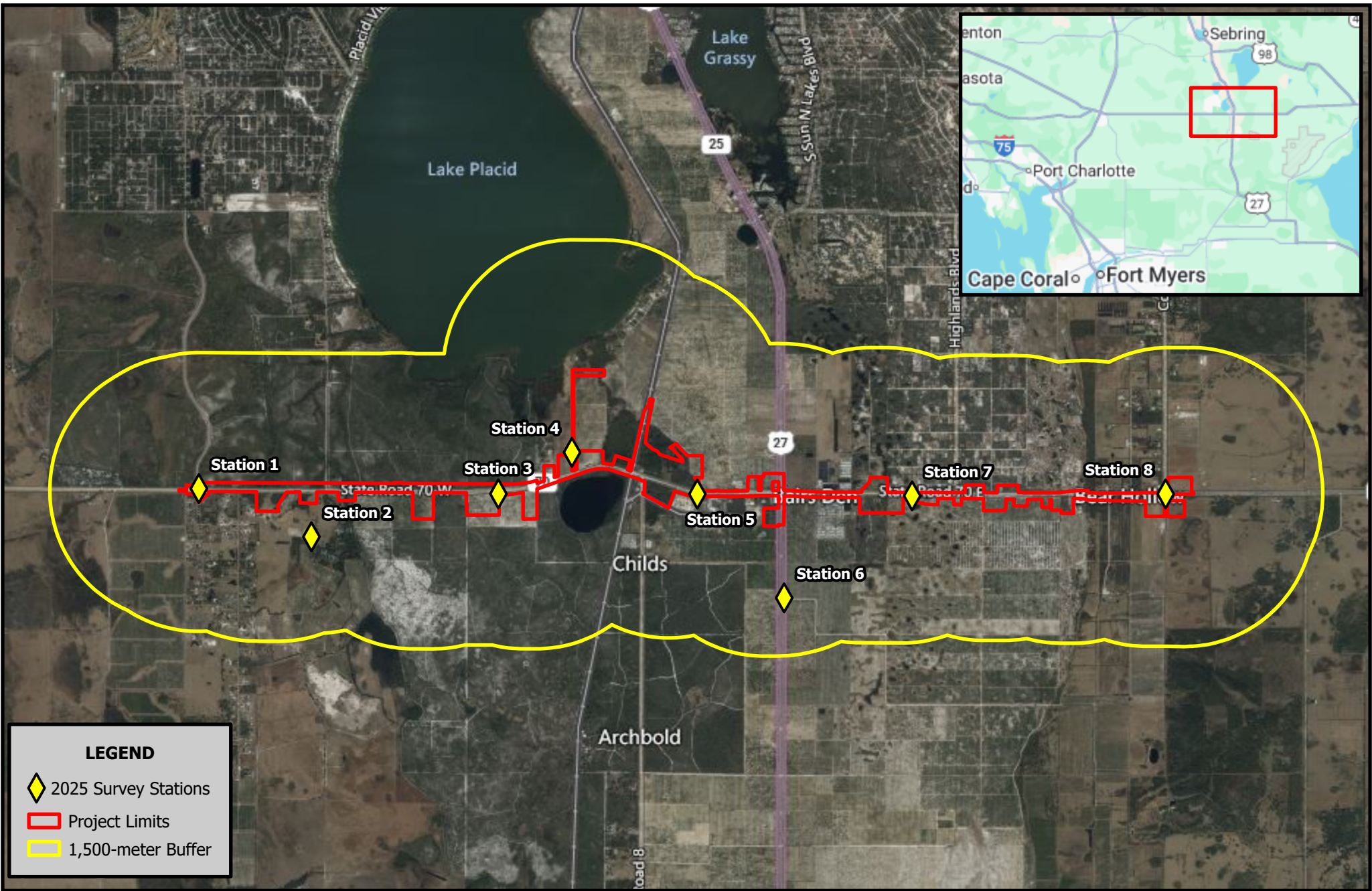
ETDM # 3054, Highlands County

Audubon's Crested Caracara Survey 2025 Technical Memorandum

1 INTRODUCTION

The subject State Road 70 (SR 70) from Jefferson Avenue to County Road 29 (CR 29) Project Development and Environment (PD&E) study falls within the U.S. Fish and Wildlife Service (USFWS) Consultation Area for Audubon's crested caracara (*Polyborus plancus audubonii*) (**Figure 1-1**). Two prior surveys for the Audubon's crested caracara have been conducted for this project. The first survey, which was conducted in 2018 (KCA 2019), documented two (2) nests within the subject survey limits (**Figure 1-2**). The second survey, which was conducted in 2023 (RK&K 2023), documented one (1) nest within the subject survey limits (**Figure 1-3**). Suitable foraging habitat occurs throughout the project area; however, suitable nesting habitat (i.e., open lands such as dry prairie, pasture, and agricultural lands) for the caracara occurs within the westernmost 4.8 miles and easternmost 1.8 miles of the project. The middle 3.4 miles of the project limits do not contain suitable caracara nesting habitat, as the areas surrounding the project are primarily Lake Wales scrub habitat, but also include industrial, commercial and residential areas.

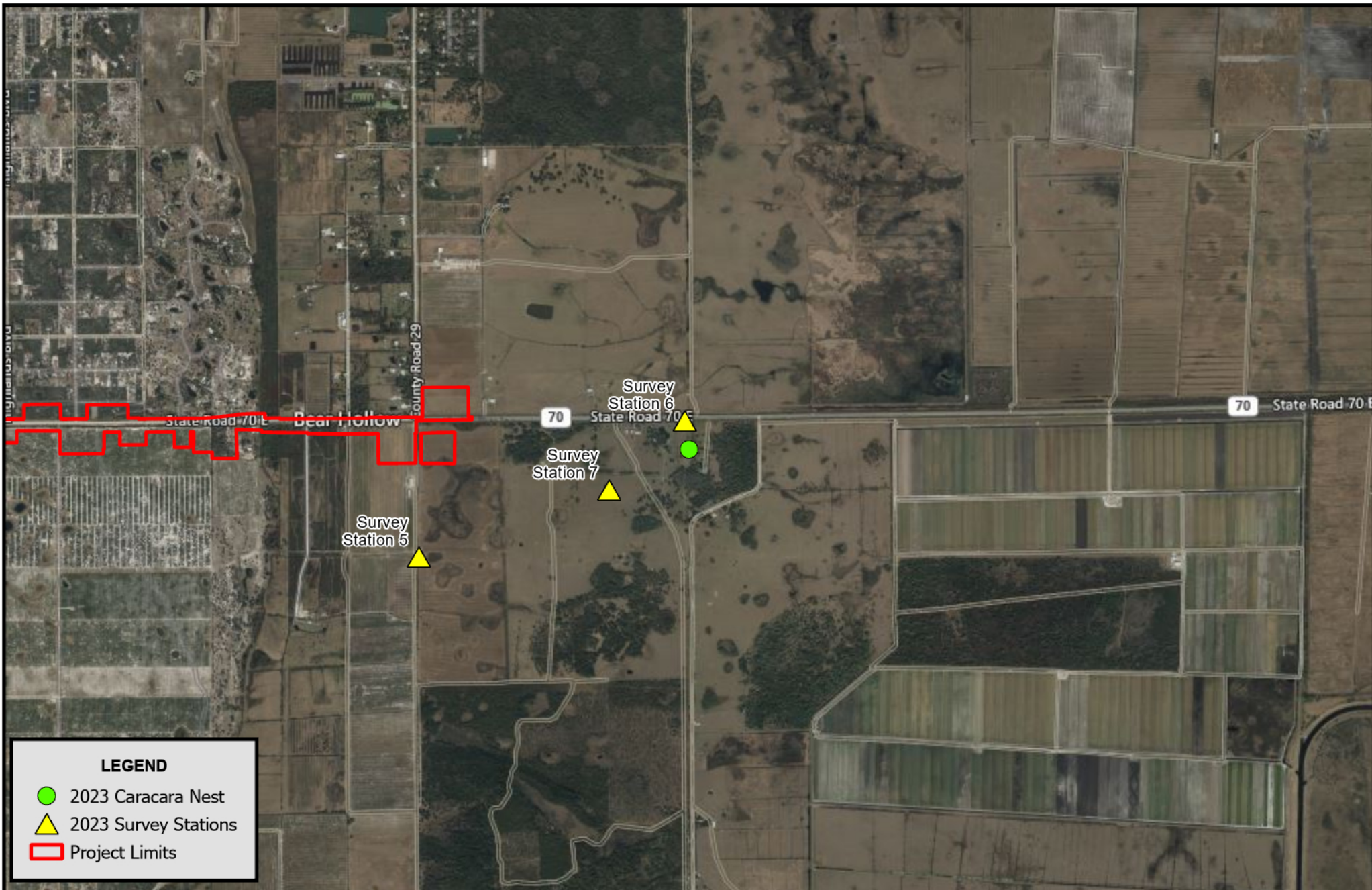
In an effort to gather information needed to determine the potential effect the project may have on Audubon's crested caracara, an updated survey of suitable habitat within the project study area was conducted by qualified biologists from January through April 2025 in accordance with USFWS Audubon's Crested Caracara Draft Survey Protocol – Additional Guidance (2016-2017 Breeding Season) (USFWS 2016). For the purposes of this memorandum, a 1,500-meter buffer around the project limits, was used for the survey study area which is consistent with the USFWS Caracara Survey Protocol. The 2025 survey stations and extent of the 2025 survey limits for this project are depicted in **Figure 1-1**.



LEGEND

-  2025 Survey Stations
-  Project Limits
-  1,500-meter Buffer

	0 5,500 11,000 Feet 1 inch = 5,500 feet	Figure 1-1 Project Location Map	SR 70 from Jefferson Ave to CR 29 FPID: 414506-1 Highlands County, Florida	N 
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0 2,500 5,000
Feet
1 inch = 2,500 feet

**Figure 1-3:
2023 Audubon's Crested
Caracara Survey Nest
Location**

**SR 70 from Jefferson Ave to CR 29
FPID: 414506-1
Highlands County, Florida**



2 METHODOLOGY

The survey methods outlined below were reviewed and approved by USFWS on August 30th, 2017, in preparation of the 2018 caracara survey. These methods were also used for the 2023 caracara survey as well. Seven (7) monitoring station locations were selected along the SR 70 corridor based on visibility and presence of suitable habitat for the species. In preparation of the 2025 caracara survey, an updated methodology memorandum was reviewed and approved by USFWS on December 19th, 2024. Eight (8) monitoring station locations were selected along the SR 70 corridor based on visibility and presence of suitable habitat for the species. Suitable habitat consists of open lands, including dry prairie, agricultural fields, and pasturelands with scattered cabbage palms, and cabbage palm/live oak hammocks. Land use data from the Southwest Florida Water Management District (SWFWMD) and South Florida Water Management District (SFWMD) was used to assess land use and cover types within the survey study area (SFWMD 2016) (SWFWMD 2017). Land use and cover types within 1,500 meters of the project were assessed by a desktop review with field verification and primarily consisted of orange groves and shrub and brushland. Land use and cover types were assigned values consistent with the Florida Land Use Cover and Forms Classification System (FLUCFCS) (FDOT 1999). The resulting land use map for the subject survey limits is provided in **Appendix A**. Stations were also selected based on the presence of suitable nesting trees such as cabbage palms and clumps of live oak trees located adjacent to contiguous pasturelands within the survey study area. Additionally, stations were selected based on their vantage point where large expanses of suitable habitat would easily be visible from a stationary location using spotting scopes and binoculars.

During the months of January through April 2025, observations were made at each station for one (1) day every two (2) weeks. Audubon's crested caracara surveys began during the week of January 6, 2025, and ended during the week of April 28, 2025. On each day of monitoring, stations were observed starting at least fifteen (15) minutes prior to sunrise each morning and continuing for a minimum of three (3) hours. All surveys were conducted by qualified biologists (see **Table 2-1**) and in accordance with USFWS Audubon's crested caracara survey protocol (*2016-2017 Breeding Season*) (USFWS 2016). Species activities were monitored at each station from a vehicle, or from the ground in areas where vehicular access was not possible. Cabbage palm, slash pine, and oak trees located within the study area were monitored during each field visit for nesting, roosting, and foraging activity. During each visit, Audubon's crested caracara presence or absence was noted along with the behaviors and flight patterns observed when caracara were present. Activity of other avian and non-avian species and general site conditions were also noted at each station. Observations were also made in transit to and from survey stations. Datasheets from each survey event are provided in **Appendix B**, maps depicting observed flight paths are provided in **Appendix C**, and representative photos of each survey station are provided in **Appendix D**.

Table 2-1: Audubon's Crested Caracara Observer Information

Name	Hours of Experience¹	Number of Audubon's Crested Caracara Nests Found²	Observer Position
Patrick Bates	1,216	32	Primary
Brett Berube	>200	1	Primary
Melanie Dalla Valle	351	7	Primary
Ryan Fowler	620	15	Primary
Ana Guzman	240	7	Primary
Jessica Hudson	332	8	Primary
Kiara Kallaway	324	7	Primary
Karyssa Kemp	100	2	Primary
Charmille Kirton	288	5	Primary
Adeolu Obateru	0	0	Secondary
Renee Price	625	14	Primary
Summer Sayre	64	1	Primary
Ben Shepherd	604	7	Primary

1: Approximate hours of experience surveying Audubon's crested caracara as of January 1, 2025.

2: Prior to the 2025 survey effort

3 RESULTS

No confirmed Audubon's crested caracara nests were observed during the 2025 monitoring season in the study area (see **Appendix B**). Despite these findings, individuals were observed flying over the study area at least once from each survey station. The only days when caracara were observed flying over each station are as follows:

Survey Station 1

- January 7
- February 18
- March 20
- April 15

Survey Station 2

- March 4
- March 18
- April 30

Survey Station 3

- January 22
- February 4
- February 19
- March 5

Survey Station 4

- January 7
- January 22

Survey Station 5

- January 7

Survey Station 6

- January 7
- February 4
- February 18
- March 6

Survey Station 7

- January 7
- February 18
- April 2
- April 30

Survey Station 8

- February 18
- March 4
- April 29

Table 3-1: 2023 Audubon's Crested Caracara Survey Dates and Results

Survey Event	Survey Station	Survey Date	Audubon's Crested Caracara Observed (Yes/No)
1	1	January 7, 2025	Yes
	2	January 8, 2025	No
	3	January 7, 2025	No
	4	January 8, 2025	Yes
	5	January 7, 2025	Yes
	6	January 7, 2025	Yes
	7	January 7, 2025	Yes
	8	January 7, 2025	No
2	1	January 22, 2025	No
	2	January 22, 2025	No
	3	January 22, 2025	Yes
	4	January 22, 2025	Yes
	5	January 21, 2025	No
	6	January 21, 2025	No
	7	January 21, 2025	No
	8	January 21, 2025	No
3	1	February 4, 2025	No
	2	February 5, 2025	No
	3	February 4, 2025	Yes
	4	February 4, 2025	No
	5	February 4, 2025	No
	6	February 4, 2025	Yes
	7	February 3, 2025	No
	8	February 4, 2025	No
4	1	February 18, 2025	Yes
	2	February 18, 2025	No
	3	February 19, 2025	Yes

Survey Event	Survey Station	Survey Date	Audubon's Crested Caracara Observed (Yes/No)
	4	February 18, 2025	No
	5	February 19, 2025	No
	6	February 18, 2025	Yes
	7	February 18, 2025	Yes
	8	February 18, 2025	Yes
5	1	March 5, 2025	No
	2	March 4, 2025	Yes
	3	March 5, 2025	Yes
	4	March 4, 2025	No
	5	March 4, 2025	No
	6	March 6, 2025	Yes
	7	March 4, 2025	No
	8	March 4, 2025	Yes
6	1	March 20, 2025	Yes
	2	March 18, 2025	Yes
	3	March 19, 2025	No
	4	March 18, 2025	No
	5	March 19, 2025	No
	6	March 18, 2025	No
	7	March 19, 2025	No
	8	March 18, 2025	No
7	1	April 2, 2025	No
	2	April 1, 2025	No
	3	April 1, 2025	No
	4	April 1, 2025	No
	5	April 2, 2025	No
	6	April 1, 2025	No
	7	April 2, 2025	Yes
	8	April 1, 2025	No

Survey Event	Survey Station	Survey Date	Audubon's Crested Caracara Observed (Yes/No)
8	1	April 15, 2025	Yes
	2	April 15, 2025	No
	3	April 15, 2025	No
	4	April 15, 2025	No
	5	April 15, 2025	No
	6	April 15, 2025	No
	7	April 15, 2025	No
	8	April 15, 2025	No
9	1	April 29, 2025	No
	2	April 30, 2025	Yes
	3	April 29, 2025	No
	4	April 30, 2025	No
	5	April 29, 2025	No
	6	April 29, 2025	No
	7	April 30, 2025	Yes
	8	April 29, 2025	Yes

Table 3-2 below lists additional species observed during the 2025 Audubon's crested caracara surveys.

Table 3-2: Incidental Species Observations

Scientific Name	Common Name
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Anhinga anhinga</i>	anhinga
<i>Antigone canadensis</i>	sandhill crane
<i>Aphelocoma coerulescens</i>	Florida scrub-jay
<i>Aramus guarana</i>	limpkin
<i>Ardea alba</i>	great egret
<i>Ardea coromanda</i>	eastern cattle-egret
<i>Ardea herodias</i>	great blue heron
<i>Ardea ibis</i>	western cattle-egret
<i>Bubulcus ibis</i>	cattle egret
<i>Buteo jamaicensis</i>	red-tailed hawk
<i>Buteo lineatus</i>	red-shouldered hawk
<i>Butorides virescens</i>	green heron
<i>Cardinalis cardinalis</i>	northern cardinal
<i>Cathartes aura</i>	turkey vulture
<i>Charadrius vociferus</i>	killdeer
<i>Chordeiles minor</i>	Common nighthawk
<i>Circus hudsonius</i>	northern harrier
<i>Colaptes auratus</i>	northern flicker
<i>Colinus virginianus</i>	bobwhite
<i>Columbina livia</i>	rock dove
<i>Columbina passerina</i>	common ground dove
<i>Coragyps atratus</i>	black vulture
<i>Corvus brachyrhynchos</i>	American crow
<i>Corvus ossifragus</i>	fish crow
<i>Cyanocitta cristata</i>	blue jay
<i>Dryobates pubescens</i>	downy woodpecker
<i>Dryocopus pileatus</i>	pileated woodpecker
<i>Dumetella carolinensis</i>	gray catbird
<i>Egretta caerulea</i>	little blue heron
<i>Egretta thula</i>	snowy egret
<i>Egretta tricolor</i>	tricolored heron
<i>Eudocimus albus</i>	white ibis
<i>Falco sparverius</i>	American kestrel
<i>Bubo virginianus</i>	great horned owl
<i>Haliaeetus leucocephalus</i>	bald eagle
<i>Himantopus mexicanus</i>	black-necked stilt
<i>Hirundo rustica</i>	barn swallow

Scientific Name	Common Name
<i>Lanius ludovicianus</i>	loggerhead shrike
<i>Megaceryle alcyon</i>	belted kingfisher
<i>Melanerpes carolinus</i>	red-bellied woodpecker
<i>Meleagris gallopavo</i>	wild turkey
<i>Mimus polyglottos</i>	northern mockingbird
<i>Molothrus aeneus</i>	bronzed cowbird
<i>Myiarchus crinitus</i>	great crested flycatcher
<i>Mycteria americana</i>	wood stork
<i>Nannopterum auritum</i>	double-crested cormorant
<i>Pandion haliaetus</i>	osprey
<i>Plegadis falcinellus</i>	glossy ibis
<i>Pipilo erythrophthalmus</i>	eastern towhee
<i>Polioptila caerulea</i>	blue-gray gnatcatcher
<i>Quiscalus major</i>	boat-tailed grackle
<i>Rostrhamus sociabilis</i>	snail kite
<i>Sayornis phoebe</i>	eastern phoebe
<i>Setophaga americana</i>	northern parula
<i>Setophaga coronata</i>	yellow-rumped warbler
<i>Setophaga palmarum</i>	palm warbler
<i>Setophaga petechia</i>	American yellow warbler
<i>Sialis sialis</i>	eastern bluebird
<i>Strix varia</i>	barred owl
<i>Sturnella magna</i>	eastern meadowlark
<i>Sturnus vulgaris</i>	European starling
<i>Tachycineta bicolor</i>	tree swallow
<i>Thryothorus ludovicianus</i>	Carolina wren
<i>Toxostoma rufum</i>	brown thrasher
<i>Turdus migratorius</i>	American robin
<i>Vireo griseus</i>	white-eyed vireo
<i>Zenaida macroura</i>	mourning dove

4 CONCLUSION

As a result of the 2025 Audubon's crested caracara surveys, no Audubon's crested caracara nests were found within the survey study area. If any nests are found during construction, a 300-meter primary zone and a 1,500-meter secondary zone must be placed around the nest in accordance with USFWS guidelines (USFWS 2004).

Impacts to Audubon's crested caracara nesting/foraging habitat will be unavoidable due to construction of the proposed project. FDOT District 1 will avoid and minimize impacts to caracara nesting/foraging habitat to greatest extent practicable. The FDOT will also offset all unavoidable project impacts to caracara habitat by contributing funds to the Wildlife Foundation of Florida to Support future monitoring. Based on this information, it has been determined that the proposed project “**may affect, not likely to adversely affect**” Audubon's crested caracara.

5 REFERENCES

- FDOT. 1999. Florida Land Use, Cover and Forms Classification System. Florida Department of Transportation. Tallahassee, Florida.
- Earth Resources. 2023. SR 70 PD&E Audubon's Crested Caracara Survey Technical Memorandum. Earth Resources. May 2023.
- Kisinger Campo & Associates (KCA). 2019. SR 70 PD&E Audubon's Crested Caracara Survey Technical Memorandum. KCA. October 2019.
- SFWMD. 2016. Land Use Land Cover 2016. Published November 7, 2018. South Florida Water Management District. West Palm Beach, Florida.
- SWFWMD. 2017. Land Use Land Cover 2017. Published February 27, 2020. Southwest Florida Water Management District. Brooksville, Florida.
- United States Fish and Wildlife Service (USFWS). 2004. Species Conservation Guidelines South Florida Audubon's Crested Caracara. South Florida Ecological Services, April 2004.
- United States Fish and Wildlife Service (USFWS). 2016. USFWS Crested Caracara Draft Survey Protocol – Additional Guidance (2016-2017 Breeding Season). South Florida Ecological Services, December 2016.

APPENDICES

Appendix A – Land Use Map

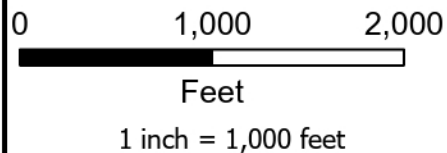
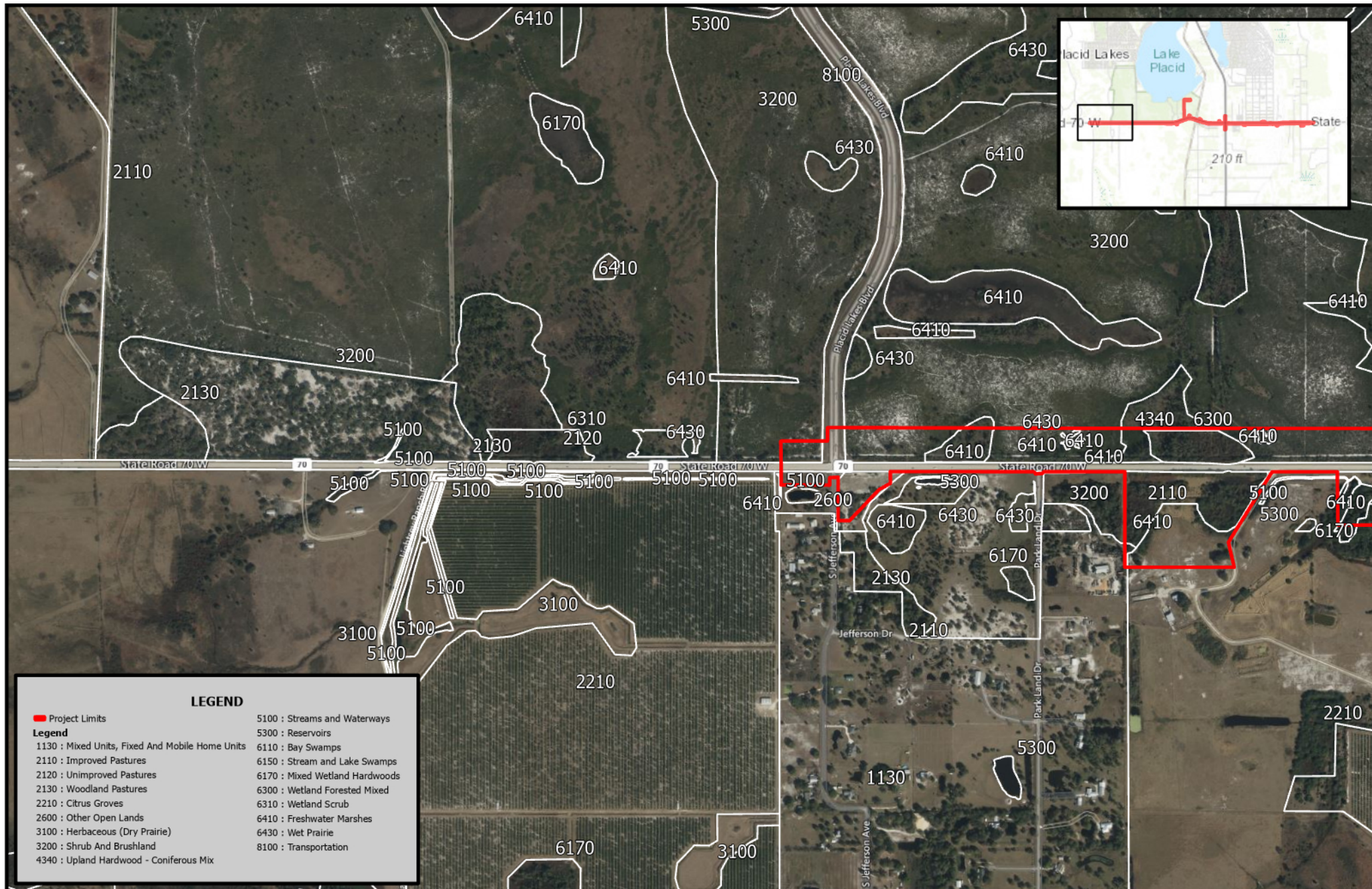
Appendix B – Audubon's Crested Caracara Monitoring Datasheets

Appendix C – Flight Path Maps

Appendix D – Survey Station Photos

APPENDIX A

Land Use Map



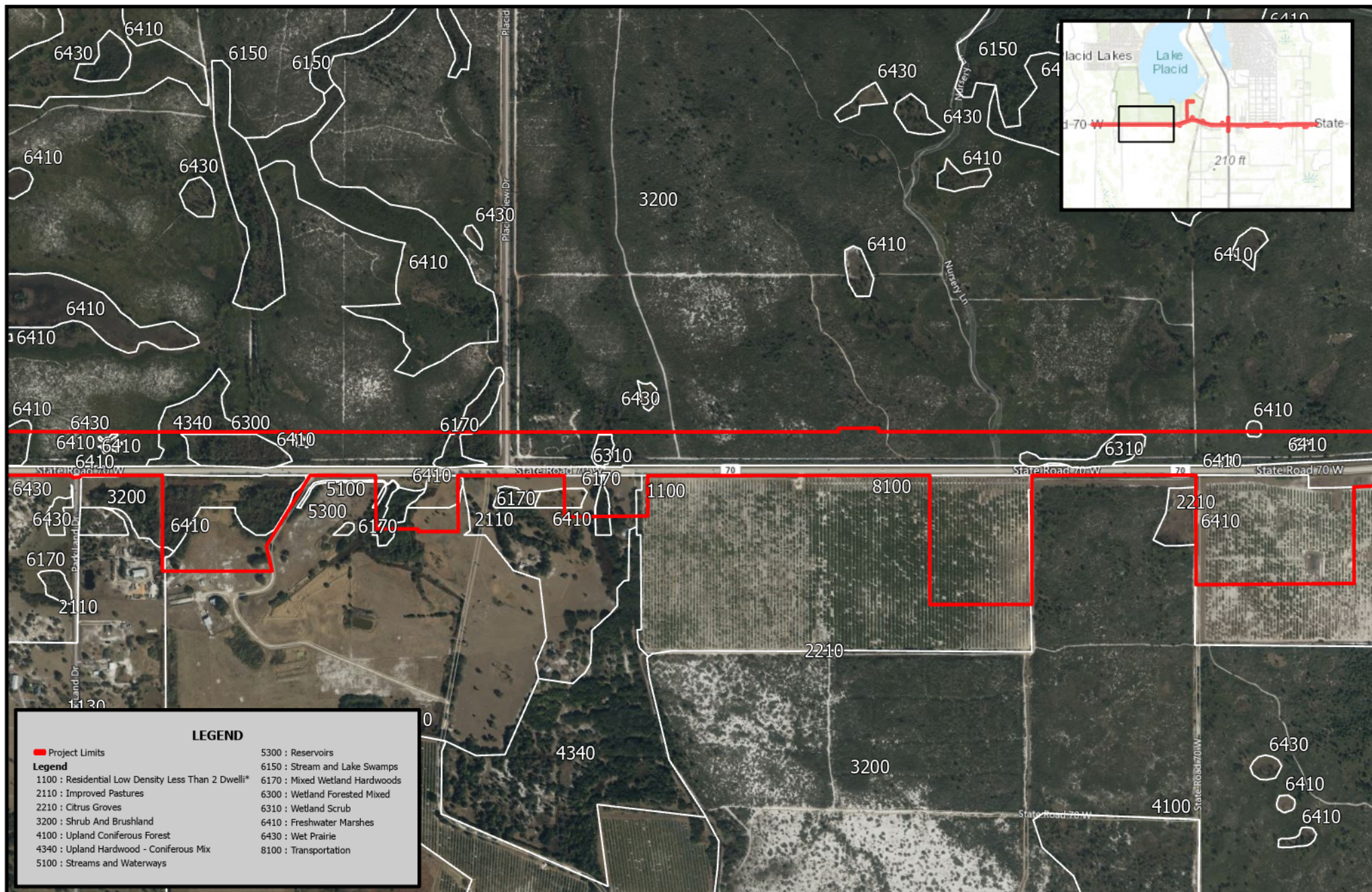
FLUCFCS Land Use Map

Sources: SWFWMD 2017; SFWMD 2016

SR 70 fr Jefferson Ave to CR 29
FPID: 414506-1-22-01
Highlands County, Florida

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0 1,000 2,000
Feet
1 inch = 1,000 feet

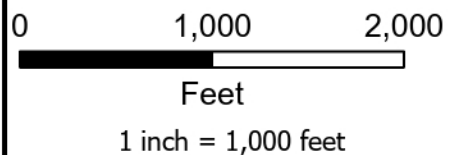
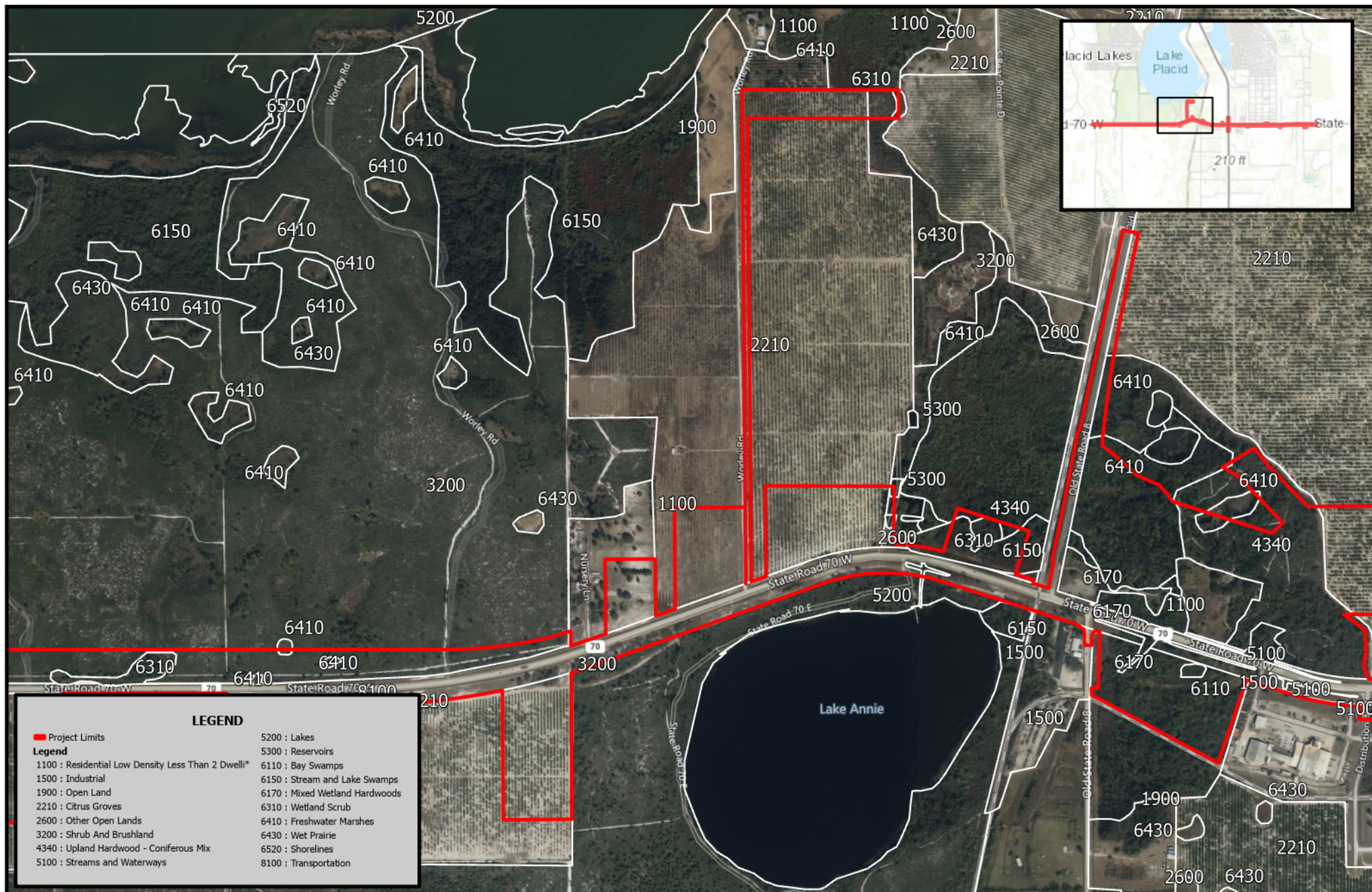
FLUCFCS Land Use Map

Sources: SWFWMD 2017; SWFWMD 2016

SR 70 fr Jefferson Ave to CR 29
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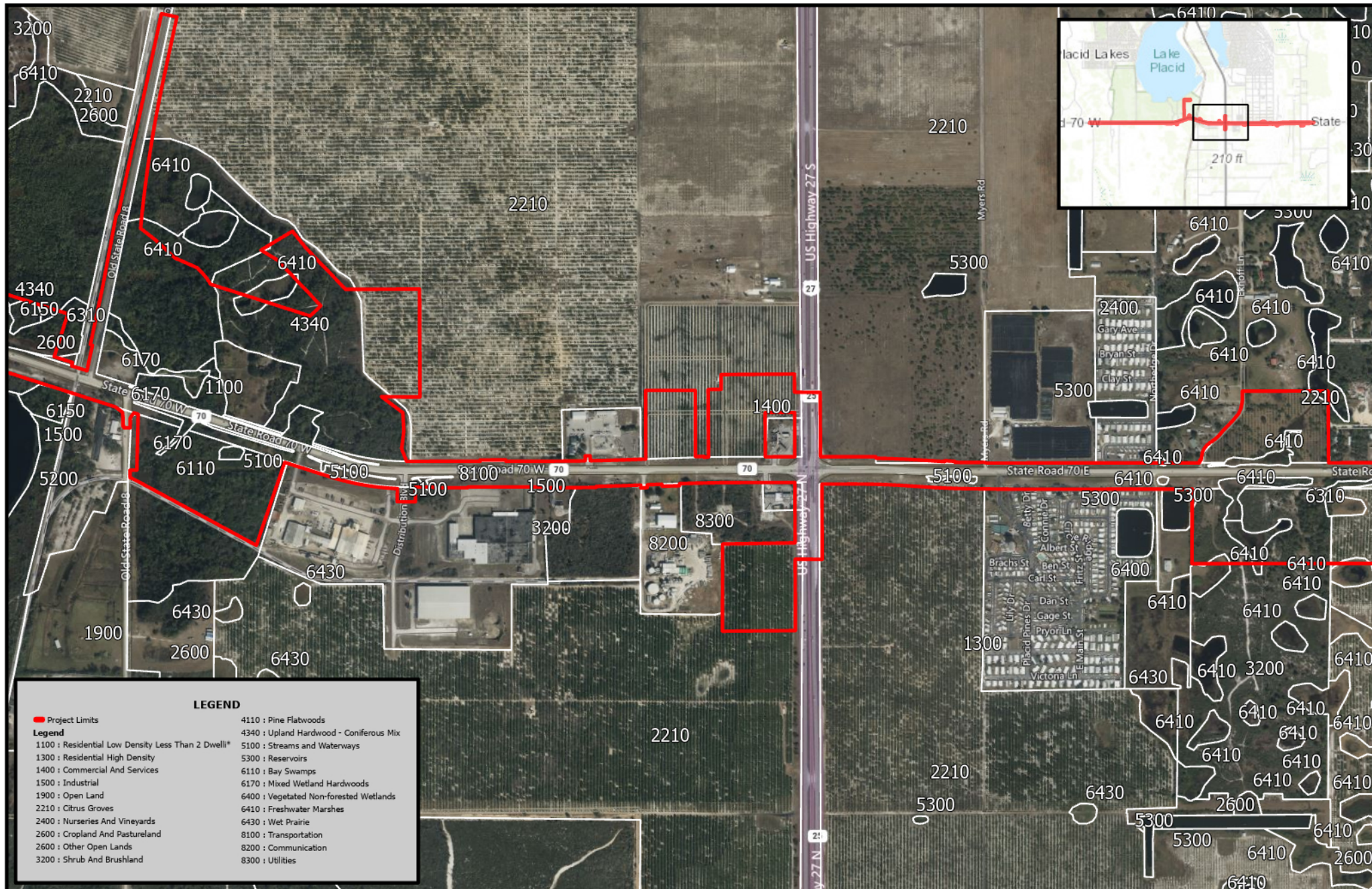
FLUCFCS Land Use Map

Sources: SWFWMD 2017; SWFWMD 2016

SR 70 fr Jefferson Ave to CR 29
 FPID: 414506-1-22-01
 Highlands County, Florida

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0 1,000 2,000
Feet
1 inch = 1,000 feet

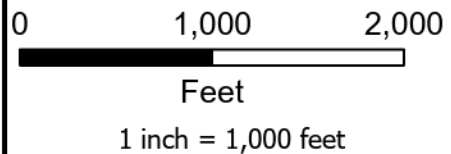
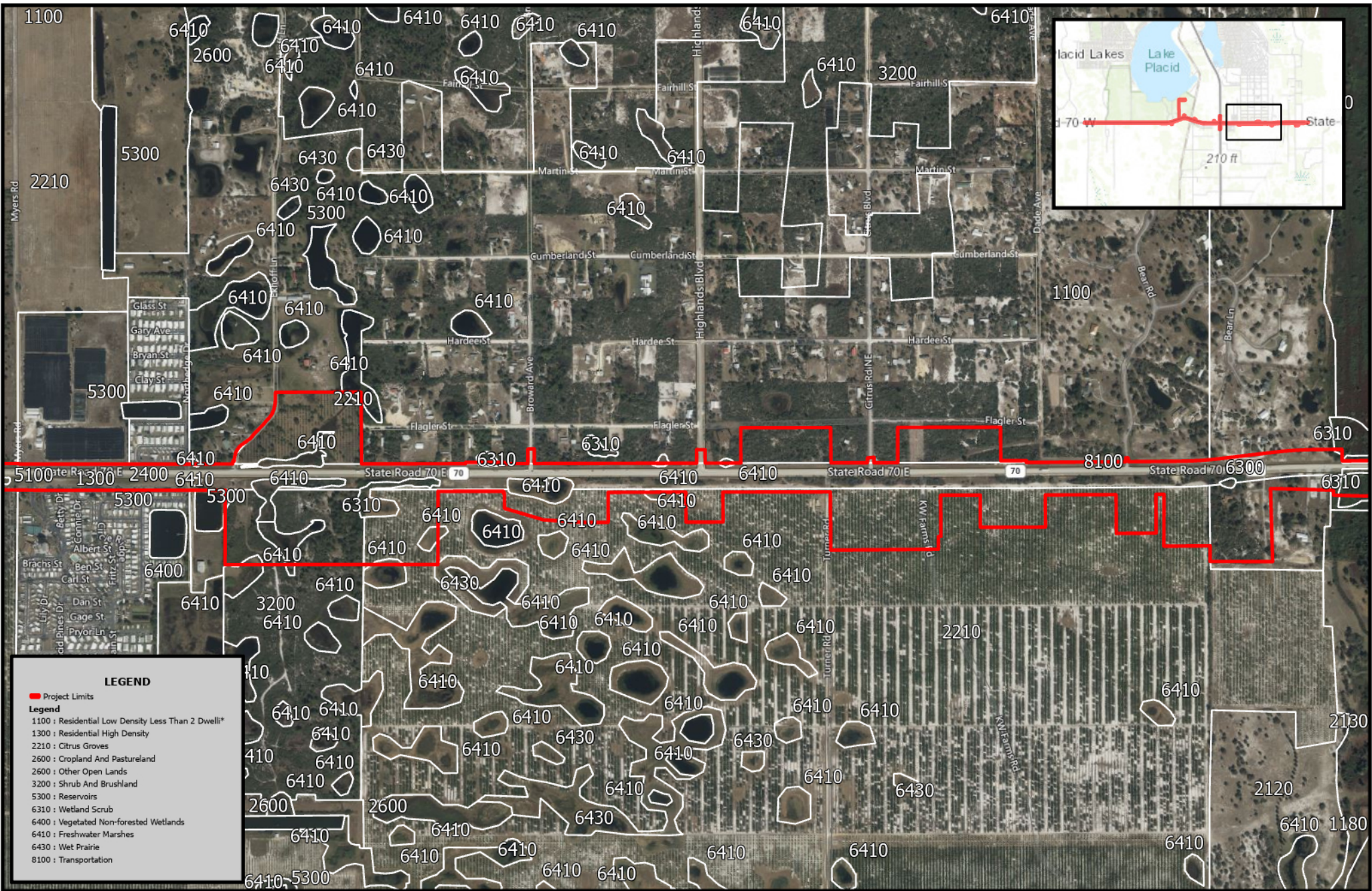
FLUCFCS Land Use Map

Sources: SWFWMD 2017; SFWMD 2016

SR 70 fr Jefferson Ave to CR 29
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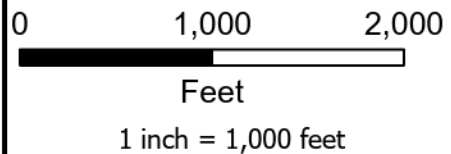
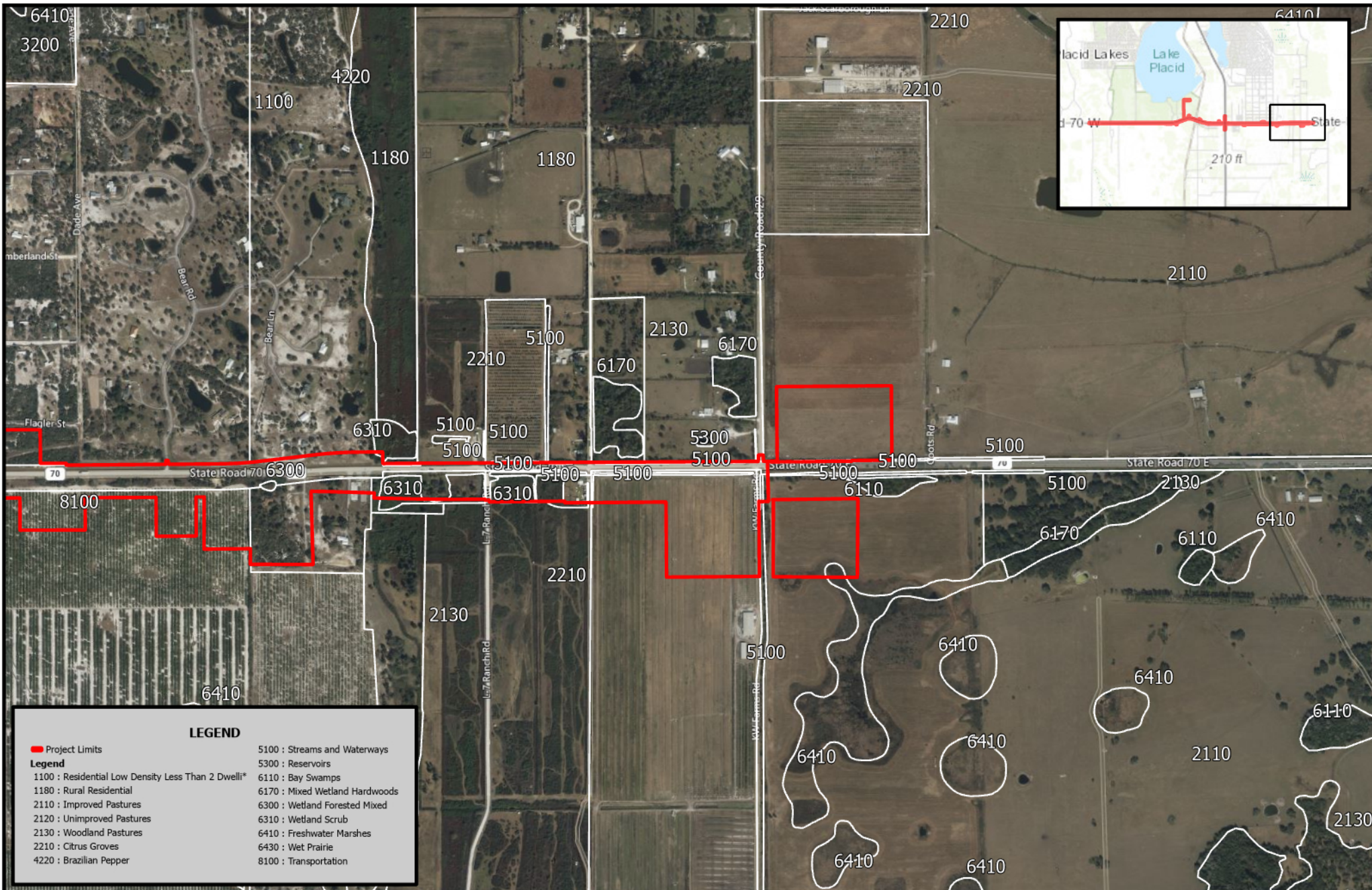
FLUCFCS Land Use Map

Sources: SWFWMD 2017; SFWMD 2016

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FLUCFCS Land Use Map

Sources: SWFWMD 2017; SWFWMD 2016

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APPENDIX B

Audubon's Crested Caracara Monitoring Datasheets

*On multiple field data sheets, the wind speed is referred to as "calm", this rating was given for wind speeds that ranged from 1 to 5 mph.

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13, SR 70, Highlands Co.

Date: 1/8/25

Start: 0700

Survey Event: 1

Survey Station/ Observation Block ID: Station 2 (modified Due to No Access)

AtkinsRealis Scientists: Ryan Fowler

End: 1030

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 42°F, Winds 8 mph N, Partly cloudy, Clear visibility, No precipitation

Finish: 52°F, Winds 9 mph NW, Partly cloudy, Clear visibility, No precipitation.

Habitat Type:

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes
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0700-1030 —

No CREAs observed during survey

Other Wildlife Observation Notes:

TUVU, SACR,	BLJA, EAPH, BAEA, AMRO, YRWA	BTGR,
AMCR, BWAH,	BRTH, BGGN, LBHE, CAWR, FRSE	TRES,
GRCA, GREG,	BLVU, PAWA, DOWO,	

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT DI Seg 12/13

Date: 1/7/25

Start: 7:00am

Survey Event: 01

Survey Station/ Observation Block ID: ~~000000~~ STA 3

AtkinsRealis Scientists: Charmille Kilton

End: 10:30am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 07:00: 46°F NW 5 mph. Partly cloudy. Clear visibility. No Precip.

Finish: 10:30: 49°F NW 10 mph. Partly cloudy. Clear vis. No P.

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

NO CARACARAS OBSERVED

Other Wildlife Observation Notes:

American crow, Killdeer, turkey vultures
Bluejay, palm warbler

01/14
XLB

7-10:30am	OSPR	GREG	NOHA	JACK	AMCR
	modo	BAEA	BLVU	EACE	
	ANHI				

[illegible]

[illegible]

[illegible]

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
11/7/25	7:17	6:52	10:30	Brett Berybe (Primary) & Lou Oberdu (Secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	43°F	11 mph, NNW	90%	Cumulus	None
Finish:	49°F	11 mph, NNW	30%	Stratocumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
Wood stork, heron egrets, sandhill cranes, crows, mockingbirds, ibis, grackle, rock dove, cowbird, turkey vulture, black vulture, northern harrier Low-lying cover, cabbage palms, saw palmetto, slash pine, oak trees

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8			

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County:

Date: 01.22.2025

Start: 0655

Survey Event: Session 2

Survey Station/ Observation Block ID: Sag. 12/13 Sta. 01

AtkinsRealis Scientists: JH

End: 1000

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 49°F 8 mph NE 90% clouds clear vis. intermittent light rain

Finish: 54°F 4 mph SE 80% clouds clear vis. precipitation

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

no CRCA observed

Other Wildlife Observation Notes:

BAEA NOMB NOFL MODO TRES
B/GAN WHIB BLVD CAEGY ADHA

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Seg 12/13

Date: 7/21/25

Start: 700

Survey Event: 02

Survey Station/ Observation Block ID: STA 3 ~~10000000~~

AtkinsRealis Scientists: Charmille Kirtan

End: 1000

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 49°F. 8mph NE. Clear vis. 90% Clouds. Intermittent light rain

Finish: 56°F. 11mph SW. Clear vis. 80% Clouds. Intermittent light rain

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

7:40

One CRCA flew from south over orchard heading north

Adult

7:42

Second CRCA followed the same path no feed present. See map for path.

Adult

Other Wildlife Observation Notes:

AMCR, BLJA, NOHA, CAEG, SACR
TUVU, BLVU

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County:	Segment 12/13 / Highlands County, FL	Start:	7/1/20
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Date: 1/22/2024	Start: 7:00am
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Start:	7:00am
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Survey Event:	2
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Survey Station/ Observation Block ID: 4	
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AtkinsRealis Scientists: <u>Kayissa Kemp</u>	End: <u>10:00am</u>
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End:	10:00am
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Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 43°F, Wind 12 mph N, mostly cloudy (20%), clear vs. intermittent drizzle

Finish: 47°F, wind 12 mph N, clear vis, partly cloudy, no precipitation

Habitat Type:

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes
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7:20am	2 CREA flew north towards Lake Annie & soared
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2CRA flew north towards Lake Annie & soared
over field - at times together & separate. Last
sight as flew over tree line @ 7:32 AM

7:55am	1 CRCA observed on snag in field N of 70	
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1 CCA observed on snag in field N of 70
Stayed on snag until ~ 8:19 am. Flew N

9:21am	2 CRCA flew SE over field S of 70. Lost	
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2 CRCA flew SE over field S of 70. Lost
Signal @ 9:22am as flew over tree-line

Other Wildlife Observation Notes:	
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Fly by's →	SACR	WOST	Amel GREG
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SACK	WOST	AMEL	GREG
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In field →	WETU	MODU	NOHA	PAWA
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WETU	MODU	NOHA	PAWA
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Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Segment 12/13

06:55am

Date: 01/21/25

Start: ~~06:55am~~

Survey Event: 2

Survey Station/ Observation Block ID: Seg 12/13 station 5

End: 10:00 am

AtkinsRealis Scientists: Kiara Kallaway

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 49°F, Wind 8mph NE, Clear visibility, 90% cloud cover, Intermittent light Rain.

Finish: 54°F, Wind 4mph East, clear visibility, 80% cloud cover, No Precipitation

Habitat Type: Roadway / Citrus Grove

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

-

No CRCA observed during survey event.

Other Wildlife Observation Notes:

KILL, BLVU, WOST, WHIB, BTGR, CAEG, MODO, PAWA

Florida Department of Transportation (FDOT)
2025 Full

2025 Full Season Crested Caracara Survey Station Data FDOT 01 seg 12/13

Project ID/Location/County: FOOT D1 Seg 12/13
Date: 11/21/2025

Start:	6:55am
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Survey Event: 2

Survey Station/ Observation Block ID: C

End: 10am

AtkinsRealis Scientists: Ana Guzmán

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start:	7am 44°F, Bmgh NE, clear Visibility, 95% clouds, intermittent light rain
Finish:	

Finish: 10am 54°F, 4mph E, clear Visibility, 80% clouds, intermittent + light rain

Habitat Type:

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes
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No Caracaras observed.

Other Wildlife Observation Notes: CAEG, MODO, BTGR, RSHA

[illegible]

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
1/21/25	7:15	6:55	10:30	Summer Sayre (primary) Lou Obateru (secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	51°F	11mph 8°N	95%	Nimbostratus	Intermittent
Finish:	56°F	10mph 27°NNE	100%	Nimbostratus	Intermittent

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Black vulture, paddle egret, black crow, sandhill crane, dove, white ibis,

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8			

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
2/4/25	7:09am	6:50am	10:15am	Low Obateru (inexperienced) Brett Berube (experienced)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	68°F	3 mph, 265°W	60%	AltoCumulus	None
Finish:	76°F	3 mph, 310°NW	0%	Clear	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
White ibis, great blue heron, great egret, blue jays, ^{morning} mockingbirds, rock dove, crow, black vulture, eastern bluebird @9:00: DOT maintenance crew

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 1			

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 2/5/25

Start: 6:55

Survey Event: 3

Survey Station/ Observation Block ID: Segment 12/13 STA 2

AtkinsRealis Scientists: MDV

End: 11:00

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 7:00: 66°F, wind 1 mph E, Partially cloudy, clear vis., no precip.

Finish: 10:00: 71°F, wind 2 mph SE, partially cloudy, clear vis. no precip.

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

- No caracara observed.

Other Wildlife Observation Notes: AMCR, RDSH, Pileated Woodpecker, PAWA

RBWD, BLJA, RWBB, AEG, NAMD
CGR, Green Catbird, NIA, Eastern Phoebe, ~~Blue Jay~~
BLM, YRAA, Osprey

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 2/4/25

Start: 6:55

Survey Event: 3

Survey Station/ Observation Block ID: 4

AtkinsRealis Scientists: MDV

End: 10:00

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 7:00am 67°F, wind=0, Clear vis. Partly cloudy, NO precipitation

Finish: 10:00am 76°F wind=3mph NW, Clear, Full sun, NO precipitation.

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

No caracara observed

Other Wildlife Observation Notes:

NOA, AMKE, PAWA, BOGR, AMCR, CACH
NAMO, SACK, OSPREY, BAEA, BLVU
Longhead snake

NOA, AMKE, PAWA, BOGR, AMCR, CACH, NAMO,
SACK, OSPREY, BAEA, BLVU, Longhead snake,

[illegible]

[illegible]

[illegible]

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
2/4/25	7:09	6:55	10:15	Summer Szyre, primary

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	67°F	2mph WSW	5%	Cirrus	Low Fog
Finish:	76°F	2mph NW	1%	Cirrus	N/A

Fog clear
7:50

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

FL Sandhill crane, great egret, American crow, mourning dove (h), wood stork, Carolina wren, eastern meadowlark (h), grackle, black vulture, rooster (h), cattle egret, Red-shouldered hawk ~~X~~

Busy intersection, sod & sugar cane trucks passing back & forth turning in & out of CR29. A lot of black vultures, a few birds that looked to have similar flight pattern as caracara but could not confirm with 100% certainty.

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8			N/A

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

SR 70 Station 1

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
2/18	6:49	6:42	10:00	Brett Berube (Primary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	55°	6 mph NE	40%	Stratus	N/A
Finish:	68°	9 mph NE	60%	Cumulus	N/A

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

red shoulder hawk, crow, mourning dove, ibis, blackbird, harrier, blue jay, mockingbird, black vulture, grackle, sandhill crane, cattle egret, turkey vulture

8:05 survey truck arrived east of Station 1
9:05 broken down diesel truck on "Placid Lakes Blvd"

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
1	2 Adults	7:38	2 adults flew N to S across station, didn't land, weren't carrying anything

Florida Department of Transportation (FDOT)
2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County:

Date: 2/18/2025

Survey Event: 4

Start: 6:40am

Survey Station/ Observation Block ID: Station 2, segment 12/13

AtkinsRealis Scientists: Ana Guzman

End: 10am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start:

Finish: ~~7:40am~~ @ 7am 56°F, 5mph NNE, clear vis, partially cloudy, no precipitation

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

No caracara observed

Other Wildlife Observation Notes:

WHIB, CAEG, GREG, BLVV, TUVU, BAEG,
WEVI, BLJA, FLSJ, AMCR, BGGN, GRCA, AMR, ROO
YRVA,

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: 12/13

Date: 2/19/25

Start: 0640

Survey Event: 4

Survey Station/ Observation Block ID: 3

AtkinsRealis Scientists: RP

End: 0940

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 66°F, winds S mph S, mostly cloudy, patchy haze, no P.

Finish:

Habitat Type: orange / citrus grove

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

0804 adult CRCA flying N over grove, crossed SR70, and into forested area. lost vis in treeline

0950 ~~Flew~~ adult CRCA flew SW across grove, then turned south and flew into pine. lost visual at treeline

Other Wildlife Observation Notes: PAWA, CAPH, KILL, NOCA, ~~AMCR~~, BTGR, NOMO, BLJA, OSPR, TUVU

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 2/18/2025

Start: 6:40a

Survey Event: 4

Survey Station/ Observation Block ID: Station 4

AtkinsRealis Scientists: Karyssa Kemp

End: 10:00am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 56°F, 5mph NE, clear vis, partially cloudy, no prec.

Finish: 62°F, 9mph NE, clear vis, partially cloudy, no prec.

Habitat Type: Open field

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes
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no CRCA observations

Other Wildlife Observation Notes:

6:40-10am

OSPR AMCR NOMB WETU
NOHA NOCA BEJA

GREG, BLVD, MODO, Nomo, SACR, PAWA, BGGN, KILL, AmCR, COGR, OSPR OSPB, CAEG,	
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Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT CRCA

Date: 2.18.2025

Start: 0640

Survey Event: 4

Survey Station/ Observation Block ID: 12/13 Sta. 6

AtkinsRealis Scientists: JH

End: 1000

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 56° F 5 NNE clear vis partly cloudy & precip.

Finish: 62° F 9 NE clear vis " " "

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

0713

AD CRCA flying ^{low} NNE over east orange groves, fast visibility over tree line

Other Wildlife Observation Notes:

GHOW BLUU AMCR NOTTA WHIB
BAGA OSPR AMKE AMRO MODO
TUVU RBWD PAWA BGIN NOMO

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 2.18.25

Start: 6:40

Survey Event: 4

Survey Station/ Observation Block ID: Segment 12/13 Sta 7

AtkinsRealis Scientists: MDV

End: 9:40

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 7:00 56°F wind: 5mph NNE, Clear visibility, Partially cloudy, no precipitation

Finish: 9:40 62°F wind: 9mph NE, Clear visibility, Partially cloudy, no precip.

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

7:12

Two Caracara flying after each other lost visual over tree line. (Adults) flying SW → NE

Other Wildlife Observation Notes:

BOB, CREG, GREG, AMKE, GBTIE
MADO, COGR, WEST AMCR, NIMO, DCLD
BEVA, AMRO, PAWA, NOCA, WEST, KILL

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
2/18	6:59	6:50	10:00	Summer Sayre (primary) Lou Obateru (secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	58°	6 mph 29° NNE	40%	Stratocumulus	None
Finish:	68°	9 mph 25° NNE	50%	Stratocumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Crow, egrets, carolina chickadee, white ibis, wood stork, mourning dove, black vulture

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8	A	7:15	Observed coming from south tree line Flying northwest
STA 8	A	7:26	Coming from southeast, flew northwest across SR 70, flew north along CR 29, crossed east across CR 29, landed in Scarborough Fields
			@ 7:28 - flew west past tree line

STA 8	A	9:02	Flying north overhead and then crossed CR 29 going west
STA 8	A	9:10	Flying east from west of SR 70

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
3/5/25	6:45	6:20	9:45	Brett Berube (primary) Lou Obateru (secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	67°F	11 mph 169°S	40%	Stratus	None
Finish:	75°F	16 mph 195°SSW	70%	Stratocumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
Black crow, mourning dove, wood stork, grackle, swallowtail kite, black vultures, Very windy throughout entire survey, resulted in very scarce bird activity

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 1			

2025 Full Season Crested Caracara Survey Station Data

Date: 3/4/25

Start:	6:30
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Survey Event: 5

Survey Station/ Observation Block ID: STA 2

End:	10:30
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AtkinsRealis Scientists: *WJW*

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 58°F, Winds - 5 mph E, Light fog, no clouds, no precipitation

Finish: 72°F, wind - 11 mph drSE 20% clouds, clear visibility, no precipitation.

Habitat Type:

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

8. 27

1 Adult *Caracara* flying from N $\rightarrow$ NE over
Scrub. last visual over tree line of large pines.

Other Wildlife Observation Notes:

Other Wildlife Observation Notes:	BBWO, RWBB, BGOB, NOCA, GRCA, YRNA, PWA,
AMER, CAEG, EAPH, NMO, BLVN, Swallow tailed Kite,	OSPR, PSH
COGD	

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Sag 12/13

Date: March 5, 2025

Start: 6:20 AM

Survey Event: Event # 5

Survey Station/ Observation Block ID: STA 3

AtkinsRealis Scientists: Charmille KiAm

End:

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 67°F, 8 mph S, 25% cloudy, clear visibility, no precipitation

Finish: 77°F, 11 mph S, 85% cloudy, clear visibility, no precipitation

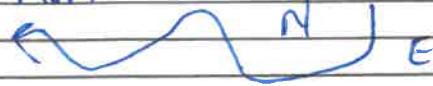
Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

9:40 AM

flying west along SR 70. Coming from North



Other Wildlife Observation Notes:

AMCB, NOMO, PAWA, AMPO, RBWO, BRTH, NOCA,

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 3/4/2025

Start: 6:14am

Survey Event: 5

Survey Station/ Observation Block ID: 4

AtkinsRealis Scientists: Karyssa Kemp

End: 10am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 56°F, 6mph wnw, clear visibility, partly cloudy, no precipitation

Finish: 60°F, 11mph w, clear vis, no clouds, no prec.

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

NO CRCA observed.

Other Wildlife Observation Notes:

6:14-10am

MOON, BLUU, AMCR, NANO, STKI
KILL, OSPR, CAEG

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Seg 12/13

Date: 3/4/25

Start: 6:15 AM

Survey Event: Survey

Survey Station/ Observation Block ID: STA 5

AtkinsRealis Scientists: Charnille K. Iton

End: 10:00 AM

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 58°F, 5 mph E, patchy light fog, no clouds, no precipitation

Finish: 72°F, 11 mph ESE, 50% clouds, clear visibility, no precipitation

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

No CRCA Observation

Other Wildlife Observation Notes:

KILL, ALMO, WHIB, COGR, AMGR, BGGN, GRCA, AMKE, RBWO, BLJA, CARW, BLVU, TUVU

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Seg 12/13

Date: 3/6/25

Start: 6:14 AM

Survey Event: Event 5

Survey Station/ Observation Block ID: STA 6

AtkinsRealis Scientists: Charmille Kilton

End: 10 AM

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 59°F, 6 mph WNW, Clear visibility, partly cloudy, no precipitation

Finish: 60°F, 11 mph NW, Clear visibility, no clouds, no precipitation

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

7:30 AM

CRCA flew up from grove, flew over station, crossed over ILS 20 into grove and flew back over station and back into grove located just NE of station. See path on map. Lost visual as bird went down into grove

9 AM

Spotted CRCA walking on access road (Rozier Rd) behind station. Then flew back into grove in the same general location as earlier. See map.

Other Wildlife Observation Notes:

Kill, BLUU, OSPR, TUVU,

Other Wildlife Observation Notes: BTGR, LOST, TUVN, SACK, AMICE, NOCA
AMCR, ANTH, GLIB, WITH, KILL, WHIB, MUDO

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
3/4/25	6:45	6:45 6:30	10:45 9	Summer Sayre (primary)

Weather Lou Obateru (secondary)

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	60°F	5 mph 88°E	1%	Stratus.	Fog (cleared 7:20 am)
Finish:	73°F	17 mph 88	4%	Stratus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Wood stork, black crow, Sandhill ~~crane~~ crane, great egret, white ibis, swallowtail kite, black vultures,

cattle egrets and cows grazing together in Scarborough Farm

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8	1 Adult	7:02	Flew from east of SR 70, crossed CR 29, flew north after crossing SR 70
STA 8	1 Adult	7:04	Flew from east to west down SR 70, flew north after crossing SR 70

STA 8	1 Adult	7:07	Carrying food item, perched in slash pine tree, Flew east
STA 8	1 Adult	7:22	Flew east to west down SR 70, then flew north
STA 8	1 Adult	7:24	Picked away at roadkill near intersection
STA 8	1 Adult	7:29	Flew from east to west down down SR 70 with food in beak beak
STA 8	1 Sub-Adult	8:26	Flew over CR 29 from west to east into Scarborough Farm Farm
STA 8	1 Adult	9:20	Flew from east to west down SR 70
STA 8	1 Adult	9:24	Carrying large animal (squirrel?) going from west to east
STA 8	1 Adult	9:30	Carrying smaller animal going from east to west, landed, went west to east, landed in thicket, continued east
STA 8	1 Adult	9:41	Flew from west to east down SR 70 west
STA 8	1 Adult	9:43	Flew from east to west, landed in scrag ^{Field} scavenging, picked up animal, flew from west to east (9:45)

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
3/20	7:29	7:09	10:29	Brett Berube (Primary) Lou Obateru (Secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	54°F	4 mph 247° WSW	5%	Stratus	None
Finish:	71°F	10 mph 231° SW	10%	Stratus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Grackle, sandhill crane, egret, american crow, great ~~blue~~ heron, rock dove, white ibis, eastern bluebird, mockingbird, black vulture

8:21 - Surveyor parked on west side of S Jefferson Ave, left at 8:30

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 1	Adult	7:38	Flew west from ^{from} S to east then the flew along S Jefferson Ave going south

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12A3

Date: 3/10/25

Start: 7:00

Survey Event: 6

Survey Station/ Observation Block ID: STA 2

AtkinsRealis Scientists: WDW

End: 10:30

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 46°F, Wind 5 mph NNW, Clear visibility, No clouds, No precipitation

Finish: 60°F Wind 6 mph NE, clear visibility, No clouds, No precip

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

7:32 Adult flying N→S. Visual lost over treeline

Other Wildlife Observation Notes: GRCA, NOCA, Banded Owl, PAMA, PMCH, ~~POSH~~ RSHA, YRNA, PIWD, EAME, BLRU, NCMO, BOGR, RWBB, CACG

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County:

Date: Wed. 3/19/2025

Start: 0700

Survey Event: 6

Survey Station/ Observation Block ID: Segment 113 Station 3

AtkinsRealis Scientists: Patricia Barrios

End: 1015

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: AT 0730: 44F, wind = 0 calm, clear visib., no clouds, NO P°

Finish: AT 1000: 61F, wind = 0 calm, clear visib., no clouds, NO P°

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

NO CRIT observed

Note: Florida Scrub-Jay present at Sta 3

Other Wildlife Observation Notes:

BAGA, FLST, MONO, BETA, FATO, AMCR, NOHA, TRSW, TUVU, CAGG, NOMO, CGDO,

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County:

Date: 3/18/2025

Survey Event: 6

Start: 7 am

Survey Station/ Observation Block ID: Station 4 Segment 12/13

AtkinsRealis Scientists: Ana Guzmán

End: 10 am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: @ 7:30 am 46F, wind 5mph NNW, clear visibility, no clouds, no precipitation

Finish:

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

NO CRCA Observed

Other Wildlife Observation Notes: NOMO, OSPR, KILL, BAEA, EATO, BLJA, PAWA, RSHA, AMKE

Florida Power and Light, LLC.

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: see 12/13

Date: 03.19.25

Start: 0700

Survey Event: 0

Survey Station/ Observation Block ID: ST95

AtkinsRealis Scientists: RP

End: 1000

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 44f, wind @ mph, clear vis, no clouds, no P

Finish: 61f, wind @ mph, clear vis, no clouds, no P

Habitat Type: pasture grove / business

Nesting and Construction Activity

Nest Activity= Y/N

Type of Activity=

Nest Activity Confirmed= Y/N Date Confirmed:

Nest Verified= Y/N Date Verified:

Active Construction within 1500m: Y/N

Active Construction within 300m: Y/N

Additional Notes:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

Other Wildlife Observation Notes: NOCA, MODO, KILL, Nomo, Amer
RBWO, NUPA, GBHE, BTOR, PAWA, GRCA, OSPR

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13 STA 7

Date: 3/19/25

Start: 7:00

Survey Event: 6

Survey Station/ Observation Block ID: Segment 12/13 STA 7

AtkinsRealis Scientists: WDJ

End: 10:00

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 44° F, wind 0, clear visibility, no clouds, no precipitation.

Finish: 61° F, Wind, clear visibility, no clouds, no precipitation.

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

No activity observed

Other Wildlife Observation Notes: NOCA, RAIBL, GBHE, WHIB, GLIB, BOGR, GREC, NDUE, MODA, AMEL, PINO, DECO, SACK, LOGR,

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
3/18	7:30	7:10	10:30	Brett Berube (Primary)

Weather

Lou Obateru (Secondary)

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	52°	9 mph SSW	0%	None	None
Finish:	63°	11 mph ESE	0%	None	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Carbirds calling, black vulture, bald eagle, grackle, swallowtail kite, great egret, crow, rock dove

- Surveyor parked nearby station for around 10 minutes
- Tractor spraying fields in southwest quadrant (where caracara have been observed to forage in the past)

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8			

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
4/2/25	7:14	7:00	10:15	Summer Sayre (Primary) Low Obateru (Secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	72°F	5 mph 124°SE	15%	Cirrostratus	Fog
Finish:	80°F	11 mph 126°SE	50%	Cumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
Egret, grackle, mockingbird, mourning dove, crow, sandhill crane, black vulture, Generally dense fog, cleared up around 8:20

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 1			

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 7/1/25

Start: 6:45

Survey Event: 7

Survey Station/ Observation Block ID: STA 2

AtkinsRealis Scientists: INDV

End: 10:00

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 68°F, wind 3mph SW, light fog, no clouds, no precipitation.

Finish: 75°F, 2mph NW, mostly cloudy, clear vis, no precip.

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

No Caracara observed.

Other Wildlife Observation Notes: NICA, FICR, ALUCR, NOMO, PANA, RDSH,

BLJA, EAME, GRCA

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Seg 12/13

Date: 4/1/2025

Start: 6:45am

Survey Event: 7

Survey Station/ Observation Block ID: 4

AtkinsRealis Scientists: Anna Guzmán

End: 10am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: @ 7am 68°F, 3mph SW, Fog, no clouds, no precipitation

Finish: @ 10am 75°F, 2mph WSW, clear vis, mostly cloudy, no precipitation

Habitat Type:

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes
-------------------------------	---

NO Caracara observed

Other Wildlife Observation Notes:

Eastern Towhee, NOCA, CAWR, LASH, NOMO, great crested flycatcher, sandhill crane, PAWA, GACA, wood pecker unknownsp, BLJA, BTGR, OSPB, NOPA, AMKE, COG, dove unknownsp, ~~woodpecker~~ Fish crow, BLVV, GREG,

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT DI Sag 12/13
Date: 11/1/25

Date: 4/1/25

Start: 8:45 AM

Survey Event: Event 07

Survey Station/ Observation Block ID: STA 06

AtkinsRealis Scientists: Charmille Kinton

End: 10:00 Am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 68°F, 3mph SW, heavy fog, no clouds, no precipitation.

Finish: TSE, 2 mph WSW, clear visibility, mostly cloudy, no precipitation

Habitat Type:

Observation Time and Location	Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

Location

Other Wildlife Observation Notes:

Notes: BIVU, TUVU, AMCR, BISA, EATO, GRCA, rno do

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: 29MVA 12/13

Date: 4/2/25

Start: 6:45

Survey Event: 7

Survey Station/ Observation Block ID: Station 7

AtkinsRealis Scientists: MWD

End: 10:00

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 71°F, 5mph SE, Light fog, no precip.

Finish: 79°F 10mph SE, mostly cloudy, clear vis, no precip.

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

9:53 - 9:54 Adult Caracara flying E → S along roadway.
nest in gravel

Other Wildlife Observation Notes: NKA, NKA, SACK, WHIR, BOGR, COGR, EAME

MWD, CREG, DEAD KILL, AMCK, USPR, EAME, TURK, RANA

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
4/1/25	7:15	6:59	10:15	Brett Berube (Primary) Lou Obateru (Secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	69°F	4 mph 243°WSW	90%	Cirrostratus	Fog
Finish:	76°F	3 mph 297°WNW	40%	Stratocumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
Catbirds, cattle egret, whistling ducks, mourning dove, green heron, black vulture, rock dove, osprey, palm warbler - Fog became denser after sunrise, cleared up mostly around 8:45 - Cattle egrets grazing with cows in Scarborough Fields

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8			

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
4/15/25	7:00	6:45	10:01	Brett Berube (Primary) Leu Obateru (Secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	62°	4 mph 248°WSW	0%	None	Light Fog
Finish:	75°	8 mph 264°W	5%	Cumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Grackle, eastern bluebird, rock dove, mourning dove, eastern kingbird, killdeer, sandhill cranes, mockingbirds, black vultures, scrub jay

Start of survey had much lighter fog conditions than the past few surveys at this station. Sandhill cranes found in pond southwest of station

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 1	Adult	7:44	Flew in from west of SR 70, then turned to fly south down S Jefferson Ave then north across SR 70, then back south down S Jefferson Ave

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 4/15/2025

Start: 6:30

Survey Event: 0

Survey Station/ Observation Block ID: Seg 12/13 STA 2

End: 10:00

AtkinsRealis Scientists: W.D.V.

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 62°F, wind - calm, no clouds, clear visibility, no precipitation

Finish: 74°F, wind - 4 mph, no clouds, clear visibility, no precipitation

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

- no caracara observed -

Other Wildlife Observation Notes: GCF, GRC, NOCA, BLJA, TUTI, AMOR,

RMB2, NAPA, GREG RINO, CAME, NOBOWHITE

[illegible]

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: April 15, 2025

Start: 6:30am

Survey Event: 8

Survey Station/ Observation Block ID: Station 5

AtkinsRealis Scientists: Karyssa Kempf

End: 10:00am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 62°F, wind calm, no clouds, clear visibility, no precipitation

Finish: 74°F, wind 4mph W, clear vis, no clouds, no precipitation

Habitat Type: Roadside adjacent to grove/industrial buildings

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

NO CRCA observations

Other Wildlife Observation Notes:

6:30-10am

NOCA AMCL COGR SACK BLVU

WHIB OSPR GREG MODO NOMO TUVU

2025 Full Season Crested Caracara Survey Station Data

Date: 4/15/25

Start: 6:30 AM

Survey Event: Event # 8

Survey Station/ Observation Block ID: STA 260

AtkinsRealis Scientists: Charmille Kinton

End: 10:00 AM

Start:	62°F, 0mph, No clouds, Clear visibility, No precip.
Finish:	74°F, 4mph W, Clear visibility, No clouds, no precipitation.
Moisture Type:	

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

Other Wildlife Observation Notes:

on Notes:

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County:

Date: 4.15.2025

Start: 0630

Survey Event: B

Survey Station/ Observation Block ID: 1213 7

End: 1000

AtkinsRealis Scientists: JH

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 62°F wind calm, 0 clouds, clear vis. 0 precip.

Finish: 74°F 4 W 0 clouds clear vis 0 precip.

Habitat Type:

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

no CCA observed

Other Wildlife Observation Notes:

CON1 SAUR LBHE WHIB GLIB BTGR
GREG NMOO CAEG MADO NOHA KILL
LIMP BNST LBHE ZUVU BLW RSAA

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
4/15	7:01	6:40	10:01	Summer Sayre

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	59	3mph NE	0%	N/A	low fog - gone by 7:15
Finish:	72	8mph NE	5%	stratocumulus	N/A

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
other species observed: wood stork, sandhill crane, cattle egrets, great egret, mourning dove, common grackle, black vulture, crow, northern bobwhite (h), swallow tailed kite

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 8			N/A

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
4/29/25	6:48	6:25	9:48	Brett Berube (Primary) Low Obateru (Secondary)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	70°F	6 mph 61°ENE	20%	Stratocumulus	Light fog
Finish:	79°F	8 mph 77°ENE	70%	Cumulus	None

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Grackle, mourning dove, crow, killdeer, mockingbird, eastern bluebird, black vulture, turkey vulture, swallowtail kite, sandhill crane

- Light fog above fields in northeast and northwest corners, lifted around 7:45
- Sandhill crane in nest located in southwest corner pond
- 9:20 - Turkey vulture foraging in ^{south} ditch west of Jefferson Ave

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA 1			

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: 4/30/25

Start: 6:30

Survey Event: 9

Survey Station/ Observation Block ID: 2

AtkinsRealis Scientists: NEDV

End:

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 62°F, Wind 5mph E, clear visibility, no clouds, no precipitation.

Finish: 76°F, wind 9mph E, clear visibility, no clouds, no precipitation.

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

7:00

adult flying from W → E-NE. Last visual over reeline

Other Wildlife Observation Notes: MODO, BLJA, NOCA, GRCA, LAWA, NUPA, RAHA, AMUR, PIND, BOOL, BLVA, NOMO

NOCA CONI NORD BUBL AMKE AMCR
SACB NDFL GBHE BLUU MODO

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT SR 70 Segment 12/13 ; Highland Co.

Date: 4/30/25

Start: 0615

Survey Event: 9

Survey Station/ Observation Block ID: Segment 12/13 - station 4

AtkinsRealis Scientists: Ryan Fowler

End: 1000

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 65°F, winds 6 mph ENE, 5% clouds, Clear visibility, No precipitation

Finish: 76°F, winds 9 mph E, 5% clouds, Clear visibility, No precipitation.

Habitat Type: Fallow grove Not, and sand pine scrub S of SR 70 w/ slash pine fringe

Observation Time and Location Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes Not Lake Annie

- No CRCA observed -

Other Wildlife Observation Notes: Nomo, BLVU, MODO, GCFL, GBHE, TRHE

AMCR, RTHA, DOWO, AMKE, BRTH, NOCA, BLJA
COGR, SACR,

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: FDOT D1 Seg 12/13

Date: 4/29/2025

Start: 6:18am

Survey Event: 9

Survey Station/ Observation Block ID: Segment 12/13, station #5

AtkinsRealis Scientists: Ana Guzman

End: 10am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: @ 7am 70°F, wind 5mph ENE, Clear vis, partly cloudy, no precipitation

Finish: @ 10am • 77°F, wind 9mph E, Clear vis, partly cloudy, no prec.

Habitat Type:

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

NO CARACARA OBSERVED

Other Wildlife Observation Notes: GREG, NOPA, NMO, GCFL, BLVU, WHIB, OSPR, COGR, CROW, WEVI, BLJA, GRCA, COGD,

[illegible]

Florida Department of Transportation (FDOT)

2025 Full Season Crested Caracara Survey Station Data

Project ID/Location/County: Segment 12/13

Date: April 30, 2025

Start: 6:18 am

Survey Event: 9

Survey Station/ Observation Block ID: 7

AtkinsRealis Scientists: Karyssa Kemp

End: 10 am

Weather Conditions (Temp F, wind speed/direction, % cloud cover, visibility, precipitation)

Start: 62°F, 5 mph E, clear vis, no clouds, no precipitation

Finish: 76°F, 9 mph E, clear vis, no clouds, no precipitation

Habitat Type: scrub / grove

Observation Time and Location

Description of behavior, caracara observed (adult/juv), (flight pattern and direction), nesting activity(s), additional notes

7:22 am

1 CRCA (adult) flying over S.R. 70 heading east. Lost sight when flew over treeline.

Other Wildlife Observation Notes:

6:18-10 am

CONZ BTGR GBHE NOMB KILL
 RWBL SPGR AMCR GREG BNST MODD
 ANHC BLUU

Caracara Survey Form (updated January 2025)

Project Name: Location/Observation Block/Lat-Long:

Date	Sunrise Time	Start Time	Stop Time	Observer Name(s) and Experience Level(s)
4/29/25	6:48	6:33	9:48	Summer Sore, primary

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:	64°	2mph S	70%	Strato Cumulus	low fog
Finish:	76°	8mph W	30%	Cumulus & stratus	N/A

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area
Common grackle, black vulture, wood stork, cattle egret, mourning dove, FL sandhill crane, northern bobwhite, eastern meadowlark, turkey vulture, northern cardinal

Observations

(Flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

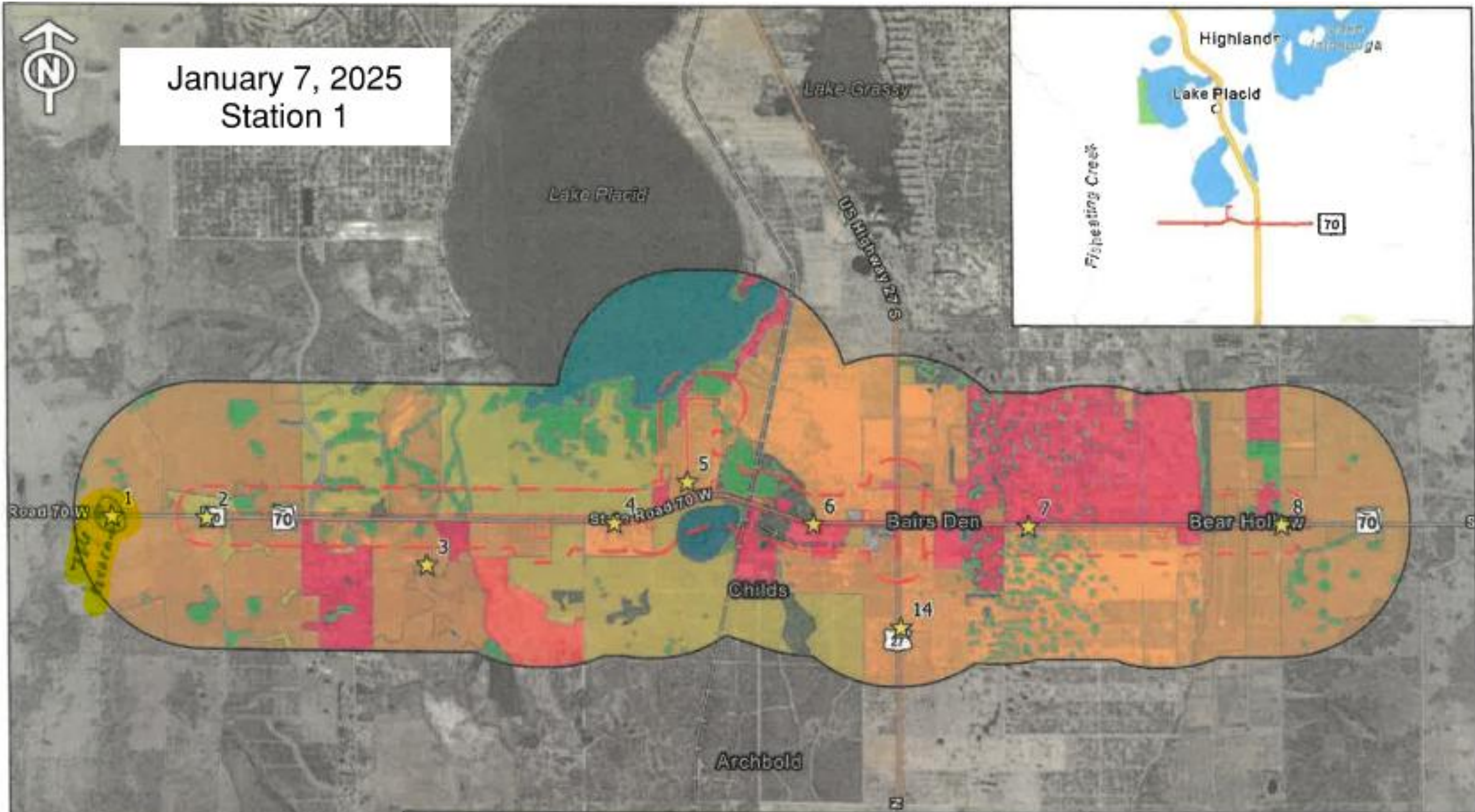
Observer Location	Age A/Im	Time	Description of behavior, flight path, etc
STA &	A	9:34	Flying SE along CR 29 then across SR 70 into hay field

APPENDIX C

Flight Path Maps



January 7, 2025
Station 1



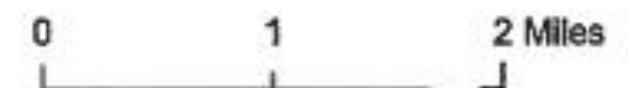
FLUCCS (Level 1)		
Agriculture (200)	Transportation, Communication, and Utilities (800)	Urban and Built-Up (100)
Barren Land (700)	Upland Forest (400)	Water (500)
Rangeland (300)	Wetlands (600)	

BS, 1/7/25

- ★ Stations
- Project Limits
- 300 meter buffer
- 1,500 meter buffer

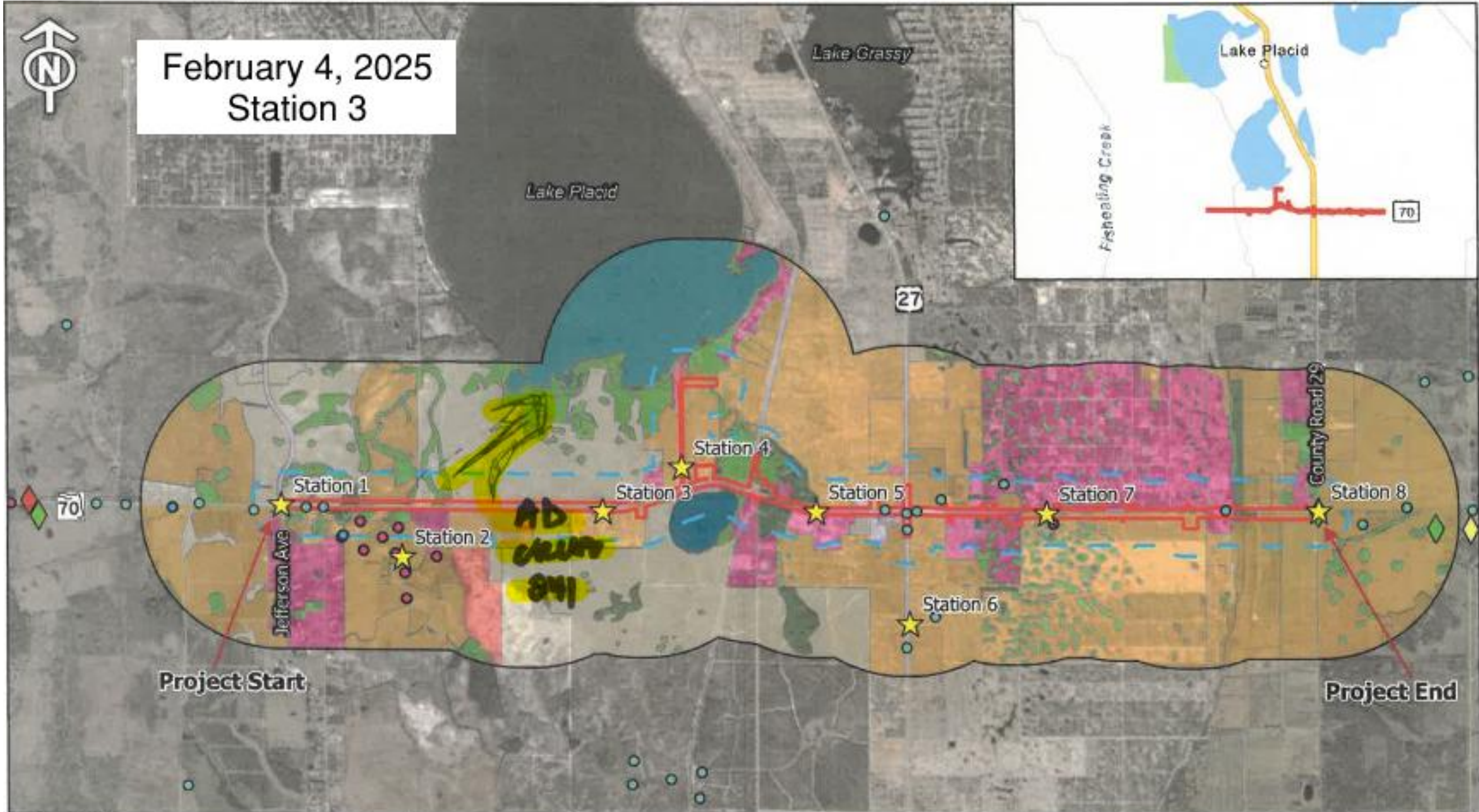


SR 70 Segment 12 and 13
Project Location and Potential Caracara Station Map





February 4, 2025
Station 3



- eBird Observations
- Caracara Nests (USFWS)
- Caracara Observations (USFWS)
- Caracara Nests Previously Identified (2018)
- Caracara Nest Previously Identified (May 2023)
- Caracara Nest Previously Identified (June 2023)

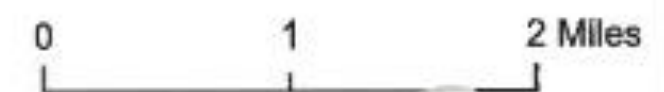
FLUCCS (Level 1)

- Agriculture (200)
- Barren Land (700)
- Rangeland (300)
- Transportation, Communication, and Utilities (800)
- Upland Forests (400)
- Urban and Built-Up (100)
- Water (500)
- Wetlands (600)

- ★ Stations
- 1,500-meter Buffer
- 300-meter Buffer
- Project Limits



Figure 1. Project Location Map
SR 70 from Jefferson Ave. to CR 29
FPID: 4145 -22-01



February 18, 2025
Station 1

Lake Wales Ridge Wildlife and...

Lake Wales Ridge Wildlife Refuge

Placid Lakes Blvd

Placid View Dr

Station 1

Park Land Dr

S Jefferson Ave

Google Earth

Image © 2025 Airbus



3000 ft

2/18/25

0713 - ADULT ORCA

Session 4

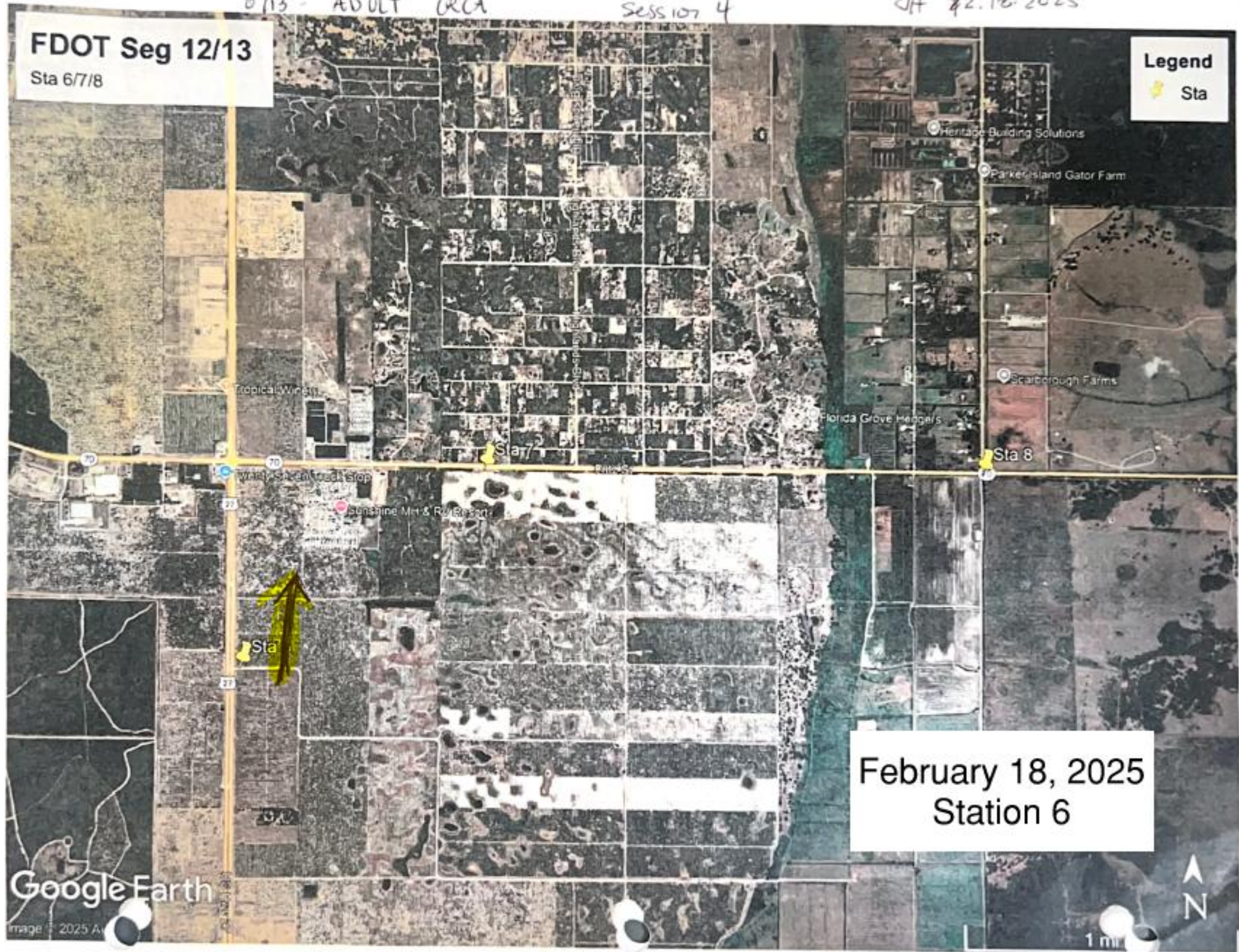
CH #2.18.2025

FDOT Seg 12/13

Sta 6/7/8

Legend

Sta



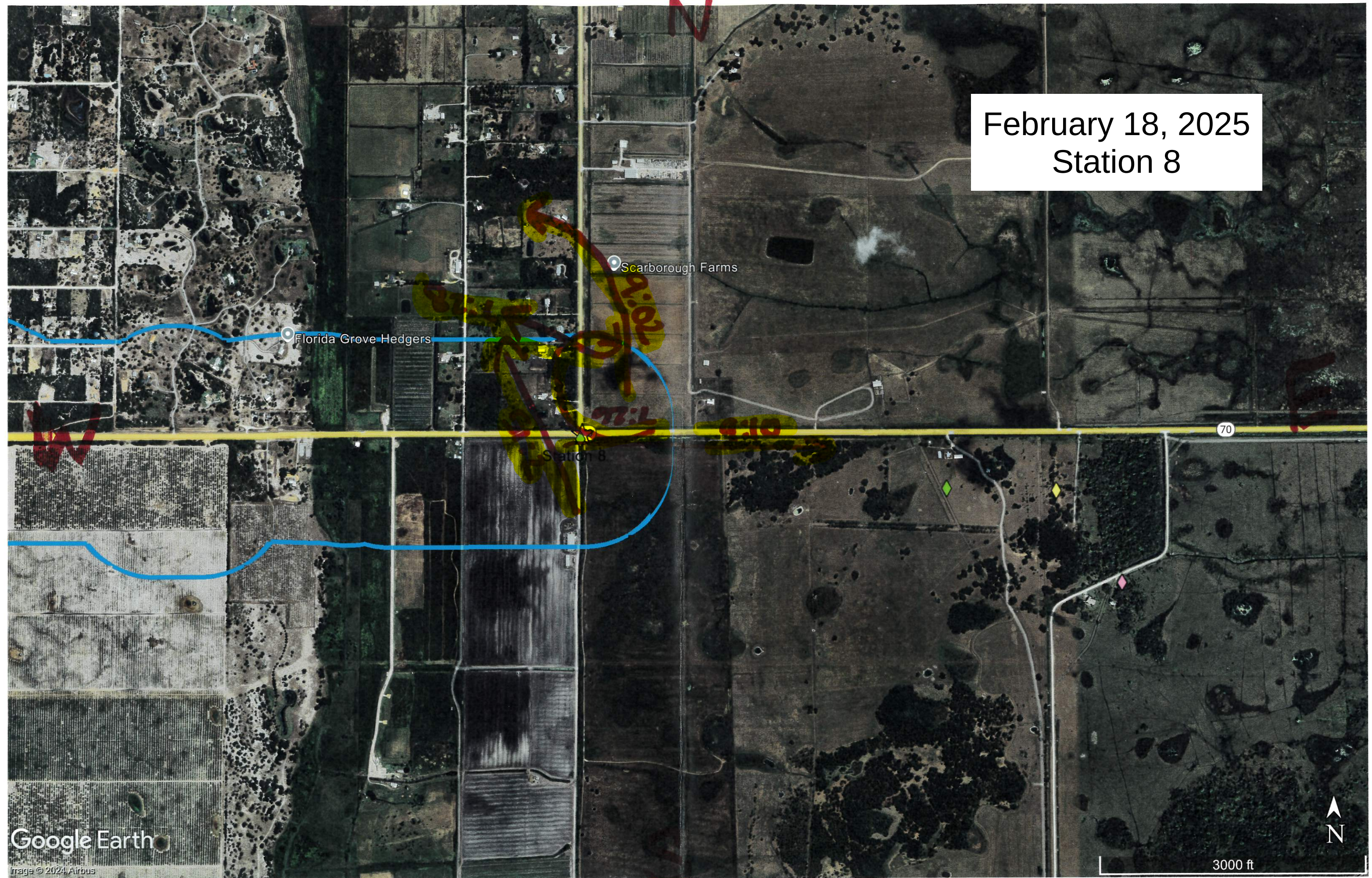
February 18, 2025
Station 6

Google Earth

Image © 2025 A

1 mi

February 18, 2025
Station 8



Google Earth

Image © 2024 Airbus

3000 ft

FDOT Seg 12/13

Sta 1 and Sta 2

Legend

Sta

Sta 1

Sta 2

March 4, 2025
Station 2

Google Earth

image © 2025

N

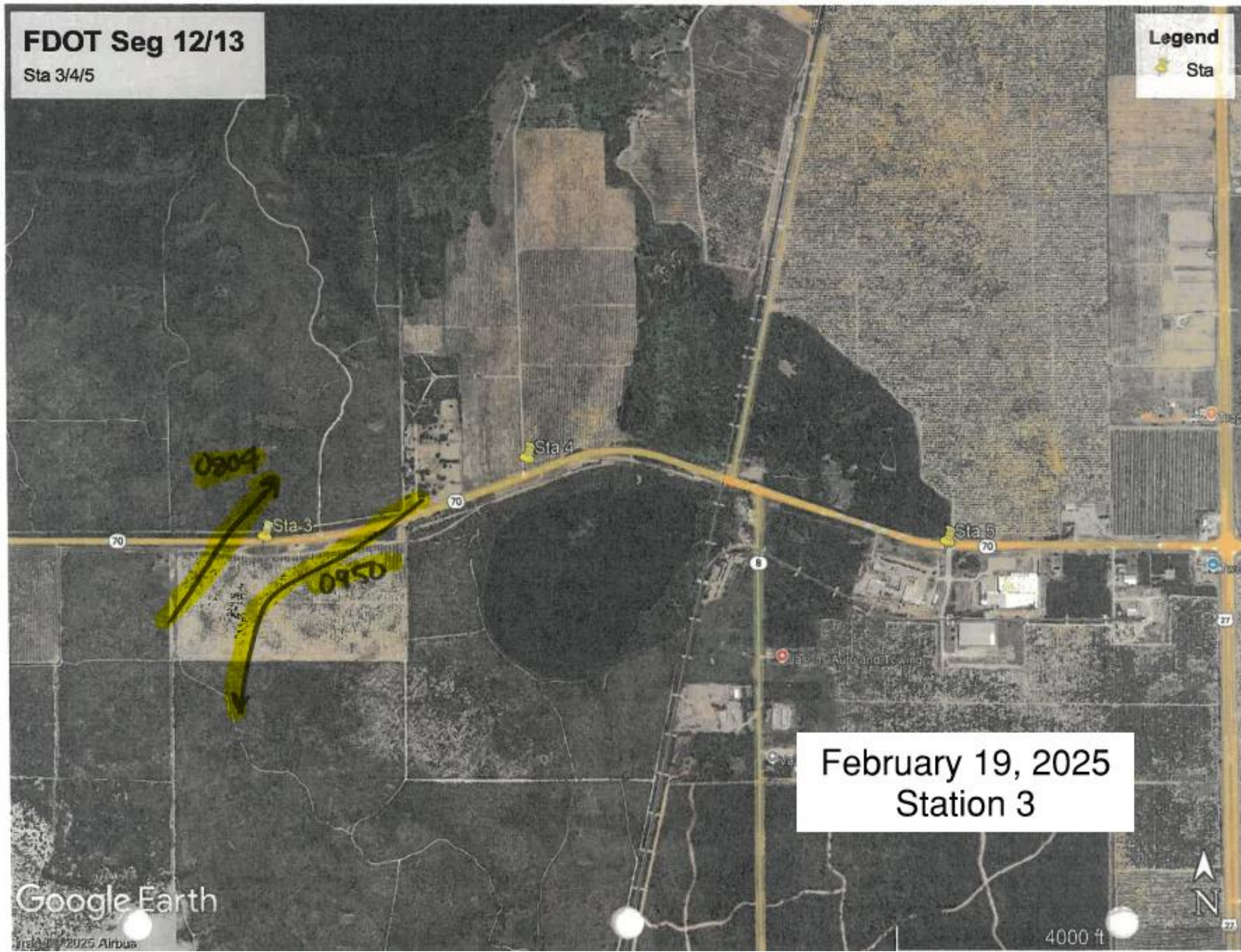
3000 ft

FDOT Seg 12/13

Sta 3/4/5

Legend

Sta



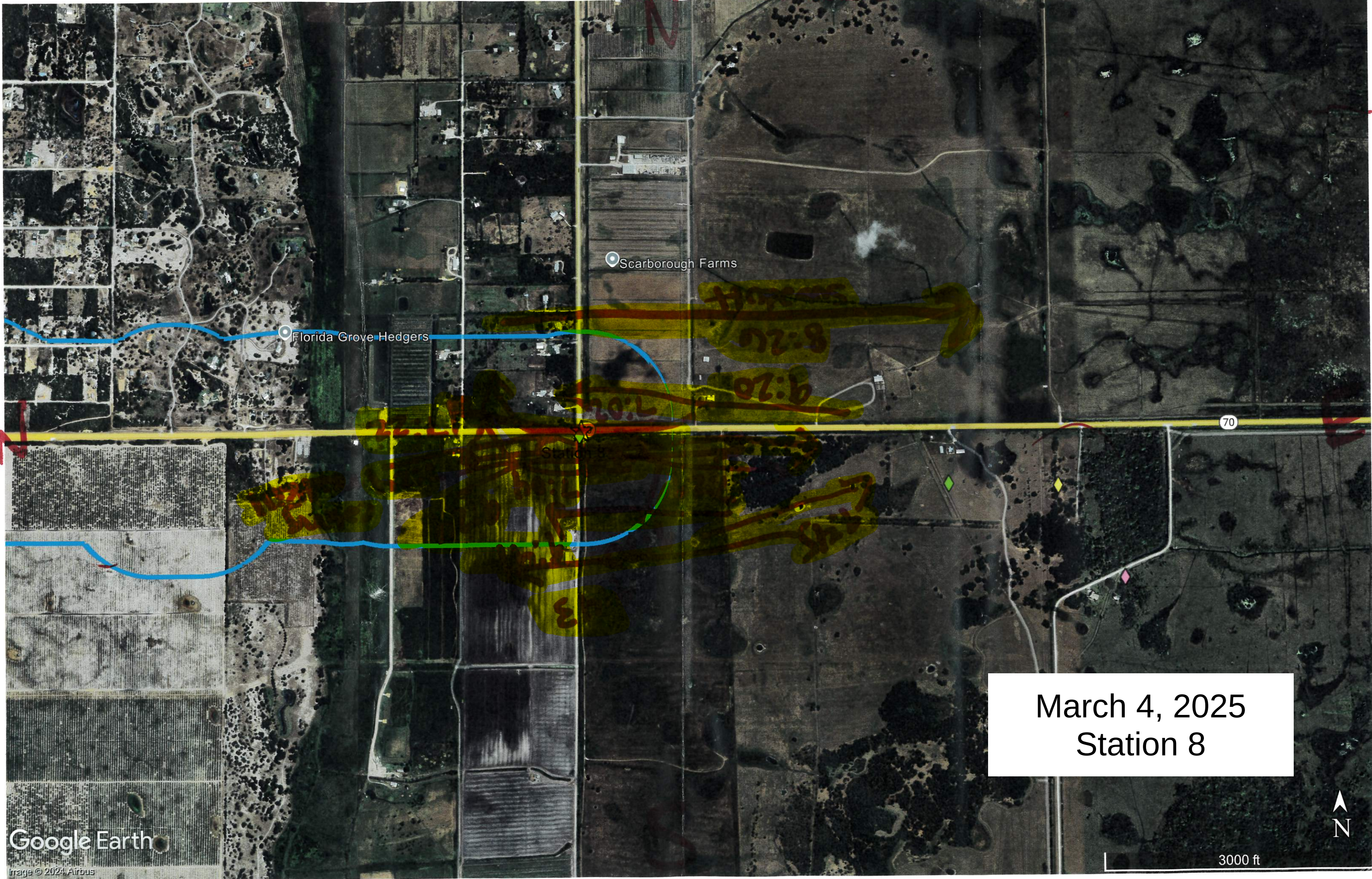
Google Earth

Imagery © 2025 Airbus

4000 ft

3/4/25

N



Florida Grove Hedgers

Scarborough Farms

Station 8

70

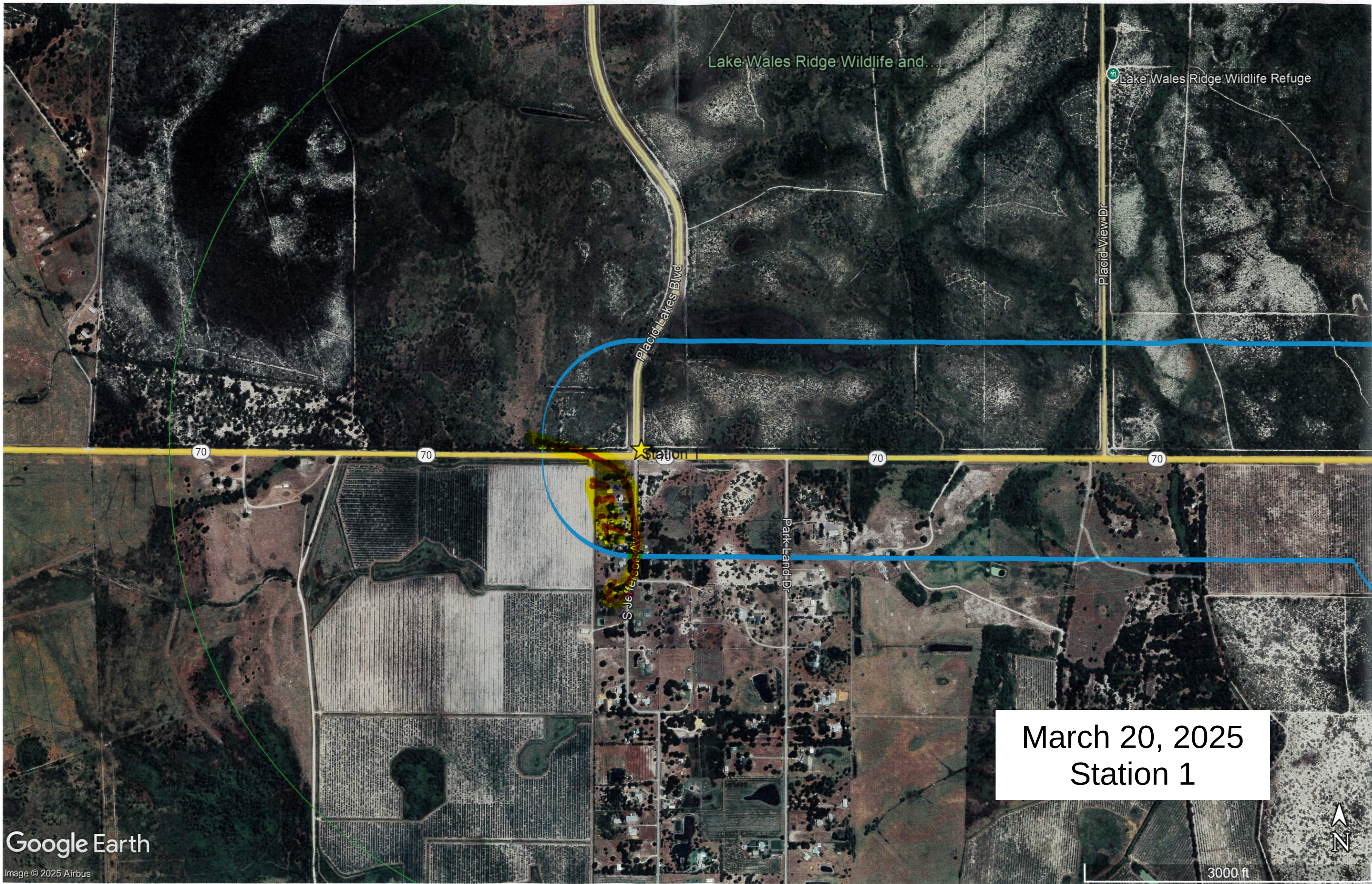
March 4, 2025
Station 8

Google Earth

Image © 2024 Airbus

3000 ft

N



Lake Wales Ridge Wildlife and...

Lake Wales Ridge Wildlife Refuge

Placid Lakes Blvd

Placid View Dr

Park Land Dr

S Jefferson Ave

Station 1

70

70

70

70

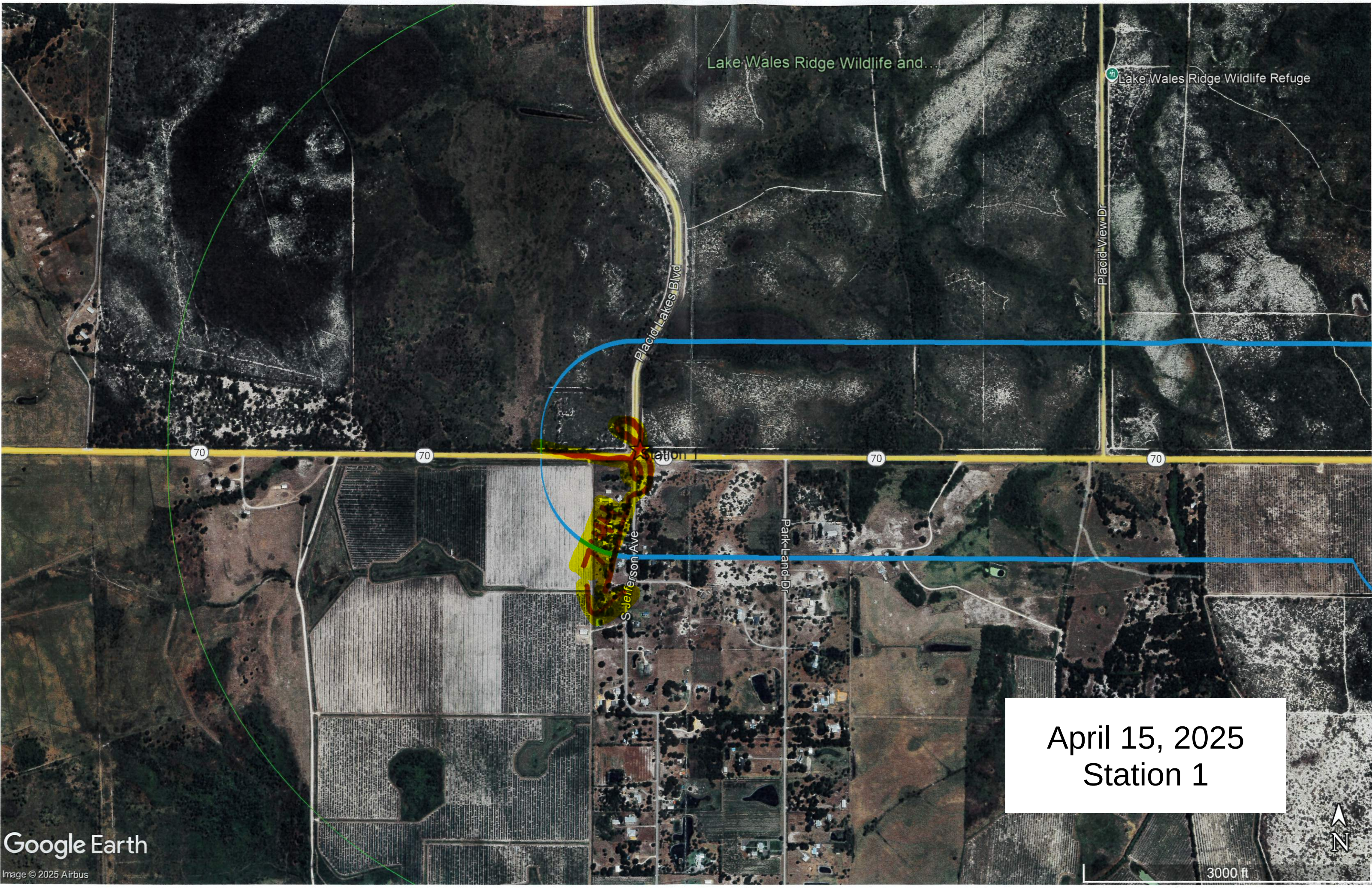
March 20, 2025
Station 1

Google Earth

Image © 2025 Airbus

3000 ft





Lake Wales Ridge Wildlife and...

Lake Wales Ridge Wildlife Refuge

Placid Lakes Blvd

Placid View Dr

70

70

Station 1

70

70

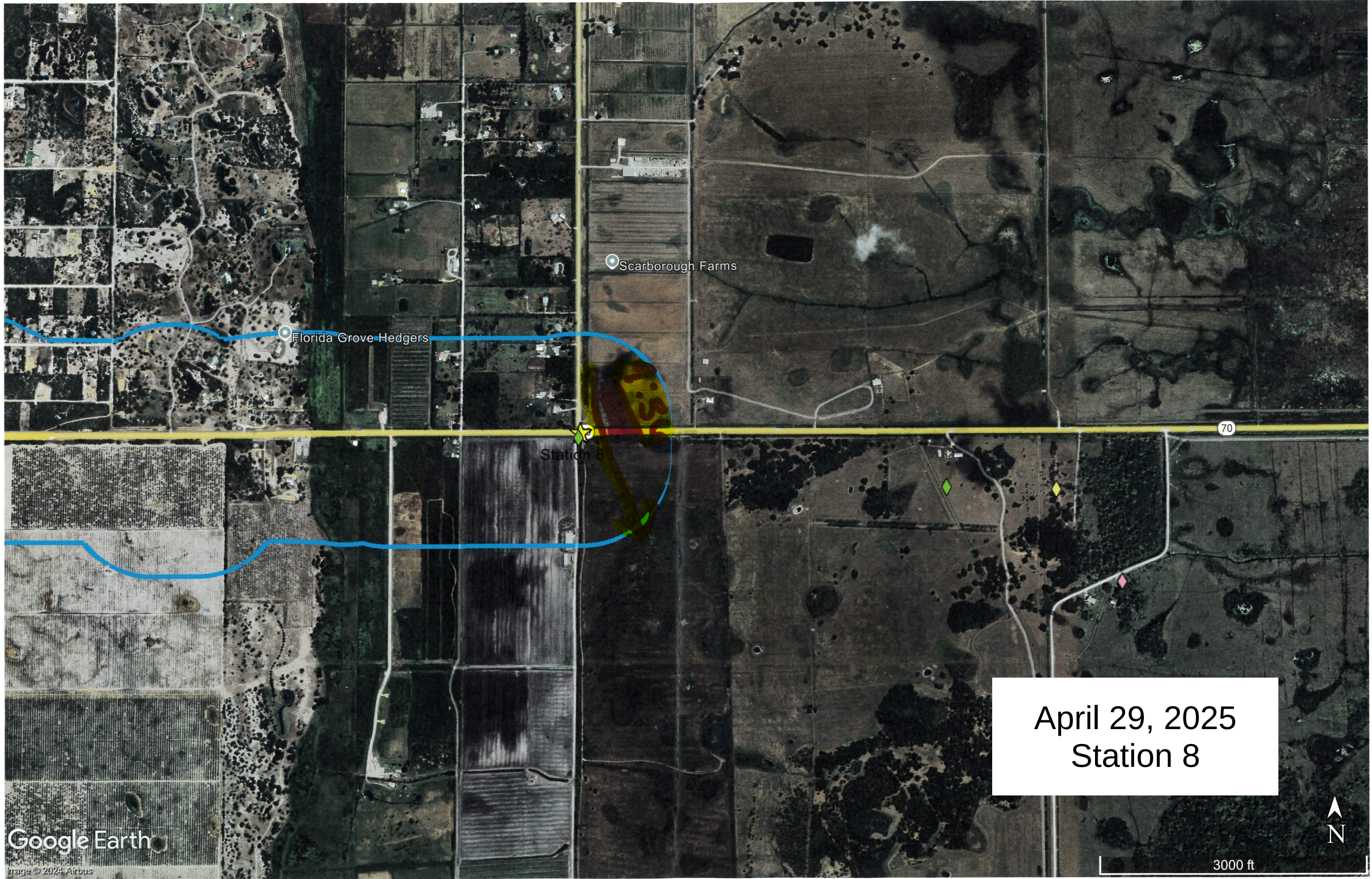
S Jefferson Ave

Park Land Dr

April 15, 2025
Station 1



3000 ft



Scarborough Farms

Florida Grove Hedgers

Station 8

70

April 29, 2025
Station 8

Google Earth

Image © 2024 Airbus

N

3000 ft

APPENDIX D

Survey Station Photos



Photo 1: Survey Station 1, facing north



Photo 2: Survey Station 1, facing south



Photo 3: Survey Station 1, facing west



Photo 4: Survey Station 1, facing east



Photo 5: Survey Station 2, facing north



Photo 6: Survey Station 2, facing south



Photo 7: Survey Station 2, facing west



Photo 8: Survey Station 2, facing east



Photo 9: Survey Station 3, facing north



Photo 10: Survey Station 3, facing south



Photo 11: Survey Station 3, facing west



Photo 12: Survey Station 3, facing east



Photo 13: Survey Station 4, facing north



Photo 14: Survey Station 4, facing south



Photo 15: Survey Station 4, facing west



Photo 16: Survey Station 4, facing east



Photo 17: Survey Station 5, facing north



Photo 18: Survey Station 5, facing south



Photo 19: Survey Station 5, facing west



Photo 20: Survey Station 5, facing east



Photo 21: Survey Station 6, facing north



Photo 22: Survey Station 6, facing south



Photo 23: Survey Station 6, facing west



Photo 24: Survey Station 6, facing east



Photo 25: Survey Station 7, facing north



Photo 26: Survey Station 7, facing south



Photo 27: Survey Station 7, facing west



Photo 28: Survey Station 7, facing east



Photo 29: Survey Station 8, facing north



Photo 30: Survey Station 8, facing south



Photo 31: Survey Station 8, facing west



Photo 32: Survey Station 8, facing east