Level I Contamination Screening Evaluation Report (Drainage Sites)

Florida Department of Transportation

District 5

LPGA Boulevard PD&E Study

Limits of Project: From US 92 (SR 600) to Williamson Boulevard

Volusia County, Florida

Financial Management Number: 448456-1

ETDM Number: 14332

Date: April 2023

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

LPGA BOULEVARD FROM US 92 (SR 600) TO WILLIAMSON BOULEVARD PD&E STUDY

FPID: 448456-1-22-01

Level I

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April 26, 2023

FDOT

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1.0 Executive Summary

The Florida Department of Transportation (FDOT), District 5, is conducting a Project Development and Environment (PD&E) study to evaluate the proposed drainage alternatives for LPGA Boulevard west of I-95 in Volusia County. Contamination sites along the mainline will be evaluated for this study and presented under separate cover.

This Contamination Screening Evaluation Report (CSER) was prepared in accordance with the FDOT PD&E Manual, Part 2, Chapter 20 (effective July 1, 2020). The purpose of this report is to present the findings of a Level I contamination screening for the proposed drainage alternatives; to identify, review, and evaluate known or potential contamination issues; provide risk ratings for each drainage alternative based on contamination involvement; and to present recommendations for further evaluation when needed. A Level I CSER dated March 17, 2023 for the mainline corridor (FPID: 448456-1-22-01) was reviewed and referenced within this report for relevant information to nearby drainage sites.

Based on the methodologies completed for this study, the following risk ratings were assigned to the 45 drainage alternatives:

Table 1 | Number of Drainage Sites per Risk Rating

High	Medium	Low	No
0	4	6	35

For the Medium rated sites (none were rated High), Level II testing should be considered, if deemed appropriate by the District Contamination Impact Coordinator. The Level II can include additional file review, hazardous material surveys, soil borings, monitoring well installation, soil and groundwater sampling, laboratory testing, and the use of field instruments such as an Organic Vapor Analyzer or Ground Penetrating Radar.

- Three Medium rated drainage sites (14B, 14D, and 16A) were rated as such due to the proximity of a former Historic Railroad (Map ID 11) that existed within the boundaries of the referenced drainage sites. Level II testing is recommended to determine soil and groundwater contaminant concentrations related to historical railroad operations.
- One drainage site (16B) was also assigned a risk rating of Medium given its proximity near an active retail gas station combined with proximity to the Historic Railroad (within 16B). Additional file review is recommended just prior to construction to verify regulatory status for the gas station operation. The discovery of new discharges at the gas station should be considered for field testing to determine presence and extent of contamination impacts to 16B. Additionally, Level II testing is recommended to determine soil and groundwater contaminant concentrations related to historical railroad operations.

For the locations rated No or Low for contamination, no further action is required. These locations have been determined not to have contamination risks which warrant further evaluation at this time.

Once final design plans are available, additional review is recommended in consideration of dewatering operations that may be necessary under the *National Pollutant Discharge Elimination System Generic Permit for Stormwater Discharges from Large and Small Construction Activities*. Verification testing may be warranted for contamination issues within 500 feet of the dewatering area. PD&E Manual, Chapter 20 identifies this as an “Additional Consideration” which does not require a risk rating.

2.0 Project Description

FDOT is conducting a PD&E Study of LPGA Boulevard from US 92 (International Speedway Boulevard) to Williamson Boulevard within the City of Daytona Beach in Volusia County (approximately 6.2 miles). The proposed improvements involve widening of LPGA Boulevard which will include the addition of bicycle and pedestrian facilities and modifications to the LPGA Boulevard/I-95 interchange.

A project location is provided in **Figure 1**. Existing LPGA Boulevard is a two-lane roadway from US 92 to Tomoka Farms Road (east of the Tomoka River), a four-lane roadway from Tomoka Farms Road to the I-95 Southbound Ramps, and a six-lane roadway from the I-95 Southbound Ramps over I-95 to Williamson Boulevard. There are 14 intersections along the corridor including ramp terminals at the I-95 interchange, nine of which are signalized.

LPGA Boulevard is a county road maintained by Volusia County, except between Tomoka Farms Road and Technology Boulevard/Outlet Boulevard where FDOT maintains the limited access ROW to the I-95 interchange. Most of LPGA Boulevard does not have paved shoulders and sidewalks, and there are only limited areas of sidewalks between Tymber Creek Road and Williamson Boulevard.

I-95 is a six-lane, Strategic Intermodal System (SIS) facility and is a hurricane evacuation route. The I-95 interchange at LPGA Boulevard (Exit 265) is a partial cloverleaf interchange, or parclo interchange, with six on and off ramps. This interchange is located approximately 3.5 miles north of the I-95 and US 92 interchange and approximately 2.7 miles south of the I-95 and SR 40 interchange.

2.1 Purpose and Need

The purpose of this project is to accommodate existing and projected future travel demand, enhance safety, and improve operations for the LPGA Boulevard corridor and the I-95 interchange.

The need for the project is based on existing and future transportation demand and safety along the LPGA Boulevard corridor and at the interchange area. Improvements are necessary to address unacceptable levels of service (LOS) (below target LOS D and LOS E) and enhance the safety of travel conditions along LPGA Boulevard and at the I-95 interchange area.

Figure 1 Project Location Map

3.0 Methodology

A contamination screening was conducted to identify contamination issues from properties or operations located within the vicinity of the project. This evaluation consisted of the following tasks:

- A Contamination Site Map (**Appendix A**) was prepared using data acquired by Environmental Data Management, Inc. (EDM) and other resources to illustrate the locations of the contamination sites with respect to the project.
- An environmental database search using EDM was conducted on March 14, 2023 to identify sites, facilities or listings within the study area containing documented or suspected petroleum contamination or other hazardous materials. This report utilizes the 500-foot search distance as requested by the District Contamination Impact Coordinator (DCIC). The EDM report is used as a preliminary screening tool to identify facilities that are registered with various county, state, and federal agencies. The regulatory review of federal and state environmental records utilizes an integrated geographic information system database. The database report provides geocoded and non-geocoded regulatory listings of interest that are identified within the study area. Each listing is located by address, facility identification number and field verified where possible. All are reviewed for the potential of contamination to impact the project. The reviewed records include information compiled by the United States Environmental Protection Agency (EPA), the Florida Department of Environmental Protection (FDEP), and other various reporting programs. A complete list of all regulatory record databases searched is included in the environmental database report, provided in **Appendix B**.
- Aerial photographs were reviewed to develop a history of the previous land uses within the study area and to identify sites which may have historical uses that pose contamination concerns. Aerial photographs dated 1943, 1950, 1958, 1969, 1976, 1984, 1992, 1995, 1999, 2002, 2004-2012, 2014-2019 and 2021-2022 were provided by EDM and Google Earth databases. A summary of our review is discussed in **Section 4.1**. Site specific details are provided, where appropriate, in **Table 2.** Copies of the historical aerial photographs are presented in **Appendix C**.
- Topographic map review using imagery available from the United States Geological Survey (USGS) website. Topographic maps can be useful identifying contamination concerns such as railroads, mine lands, bulk storage tanks, and landfills/disturbed lands. Additionally, land use and water features, including elevation contours can be identified on topographic maps. The USGS 7.5-Minute “Daytona Beach, Florida” Quadrangles dated 1952, 1970, 1980, 1988, and 1993 were reviewed as part of this study. The topographic maps are provided in **Appendix D**.
- A Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) was reviewed for suspect contamination sites not included in the EDM 500-foot search buffer. Sites in this report that are beyond 500 feet were not referenced.

- Volusia County Property Appraiser database information was reviewed for suspect contamination sites where other resources may not have provided ample information regarding the site, or to determine addresses, parcel boundaries and other pertinent information.

- Assigned risk ratings for each pond after evaluating the findings of each of the previously mentioned methodologies. The rating system defined in PD&E Manual is divided into four categories of risk which express the degree of concern for contamination problems. The four degrees of risk ratings are “No,” “Low,” “Medium,” and “High” and are defined as follows:

No Risk Site

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.

Low Risk Site

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.

Medium Risk Site

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.

High Risk Site

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.

Risk ratings for each drainage site are provided in **Section 7.0**.

4.0 Land Uses

Determination of previous land uses and occupancies is an important factor when evaluating the potential for contamination involvement. Developing a history of the project and surrounding areas can assist in determining the potential for releases or discharges of hazardous materials or petroleum products. To determine land uses for this project, a review of historical aerial photographs and topographic maps was performed. Contamination concerns are noted below in **Table 2** and further discussed in **Section 7.0**, **Table 4**.

4.1 Aerial Photographs

Table 2 | Aerial Photograph Review

Pond Sites	Historical Use	Contamination Concerns
1A	Undeveloped woods and trails from 1943 to 2021.	No concerns noted.
1B 1D	Undeveloped woods and trails from 1943 to 1969. Grassy fields depicted from 1976 to 2021.	No concerns noted.
1E 1C+2A 2B+3A	Undeveloped woods and trails from 1943 to 2003. Grassy fields depicted from 2012 to 2021.	No concerns noted.
3B	Undeveloped woods and trails from 1943 to 1958. Woods depicted from 1969 to 2013. Planted pine trees depicted from 2014 to 2022.	No concerns noted.
3C+4A	Undeveloped grassy fields and trails from 1943 to 1958. Woods depicted from1969 to 2003. Grassy field depicted from 2012 to 2021.	No concerns noted.
4B 4C+5A	Undeveloped grassy fields and trails depicted from 1943 to 1950. Woods depicted from1958 to 1976. Grassy fields and woods depicted from 1984 to 2003. Grassy fields depicted from 2012 to 2021.	No concerns noted.
5B	Undeveloped grassy fields and trails from 1943 to 1950. Woods depicted from1958 to 1976. Grassy fields and woods depicted from 1984 to 1992. Dirt road depicted from 1995 to 2012. Planted pine trees depicted from 2003 to 2004. Grassy fields depicted from 2012 to 2016. Woods depicted from 2017 to 2022.	Planted pine trees.

Pond Sites	Historical Use	Contamination Concerns
6C 6E 7A 7B 8B	Undeveloped woods from 1943 to 2021.	No concerns noted.
8C	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Grassy fields were depicted in 1976. Woods are depicted from 1984 to 2021.	No concerns noted.
9A	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Grassy fields are depicted from 1976 to 1984. Woods are depicted in 1992. Grassy fields are depicted in 2003. Earthwork depicted in 2012 associated with nearby residential development. Woods are depicted in 2021.	No concerns noted.
9B	Undeveloped woods from 1943 to 1969. Earthwork depicted in 1976 associated with the construction of a pond and LPGA Boulevard. Grassy fields depicted in 1984. Woods are depicted from 1992 to 2021.	No concerns noted.
9D	Undeveloped woods from 1943 to 1958. Woods with trails depicted in 1969. Grassy fields with trails depicted in 1976. Grassy woods with trails depicted from 1984 to 2003. Woods are depicted from 2012 to 2021.	No concerns noted.
9E	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Earthwork depicted in 1976 (related to the construction of LPGA Boulevard). Grassy fields depicted in 1984. Woods are depicted from 1992 to 2021.	No concerns noted.
9F	Undeveloped grassy fields with trails from 1943 to 1958.Woods are depicted in in 1969. Grassy fields with trails depicted in 1976. Woods are depicted from 1984 to 1992. Grassy fields are depicted in 2003. Woods are depicted from 2012 to 2021.	No concerns noted.

Pond Sites	Historical Use	Contamination Concerns
9C+10A	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Earthwork depicted in 1976 associated with the construction of a pond and LPGA Boulevard. Grassy fields depicted in 1984. Woods are depicted from 1992 to 2021.	No concerns noted.
10B	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Grassy fields with trails depicted in 1976. Woods are depicted from 1984 to 1992. Grassy fields are depicted in 2003. Woods are depicted from 2012 to 2021.	No concerns noted.
10C	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Grassy fields with trails depicted in 1976. Woods are depicted from 1984 to 1992. Planted pine trees are depicted from 2003 to 2021.	Planted pine trees.
11A 11C	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted from 1969 to 1992. Planted pine trees are depicted from 2003 to 2021.	Planted pine trees.
12B	Undeveloped grassy fields with trails from 1943 to 1958. Woods and trails are depicted from 1969 to 2021.	No concerns noted.
12C+13A	Undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted in 1969. Grassy fields are depicted from 1976 to 1992. Woods are depicted from 2003 to 2021.	No concerns noted.
13B	Undeveloped woods with trails are depicted from 1943 to 1969. Woods and grassy fields are depicted from 1976 to 1984. Woods depicted from 1992 to 2021.	No concerns noted.
14B	Undeveloped grassy fields, a railroad, and trails from 1943 to 1958. A flooded borrow pit, grassy fields, and woods were depicted (related to the construction of I-95) from 1969 to 1984. LPGA I-95 interchange depicted from 1992 to 2021.	No concerns noted.
14C	Undeveloped grassy fields with trails from 1943 to 1958. Grassy fields, and LPGA Boulevard depicted from 1969 to 2021.	No concerns noted.

Pond Sites	Historical Use	Contamination Concerns
14D	Undeveloped grassy fields with trails from 1943 to 1969. Grassy fields, and woods depicted from 1976 to 1992. I-95 Interchange, and ponded water depicted from 2003 to 2021.	No concerns noted.
14E 15A 15B	Undeveloped grassy fields with trails from 1943 to 1958. Grassy fields, and LPGA Boulevard depicted from 1969 to 2021.	No concerns noted.
15C 15D	Undeveloped grassy fields with trails from 1943 to 1958. A large rectangular area of ponded water (related to the construction of I-95 interchange) was depicted within LPGA Boulevard and I-95 from 1969 to 1993. I-95 Interchange and grassy fields depicted from 2003 to 2021	No concerns noted.
15D	Undeveloped grassy fields with trails from 1943 to 1958. Woods depicted from 1969 to 1992. Ponded water (related to the modification of I-95 Interchange) and grassy fields depicted from 2003 to 2021. I-95 depicted northeast of pond from 1969 to 2021.	No concerns noted.
16A	Grassy fields, and a railroad line depicted from 1943 to 1976. Woods are depicted from 1984 to 1993. Two areas of ponded water associated with the modified configuration of the I-95 LPGA Boulevard interchange, and grassy fields are depicted from 2003 to 2021.	No concerns noted.
16B	Grassy fields, and a railroad line depicted from 1943 to 1969. Woods are depicted from 1976 to 1993. Two areas of ponded water (associated with the modified configuration of the I-95 LPGA interchange), interchange roadway, and grassy fields are depicted from 2003 to 2021.	No concerns noted.
16C	Undeveloped grassy fields depicted from 1943 to 1958. LPGA Boulevard depicted in the southern portion of the pond from 1969 to 2021. Pond 16C's northern portion was depicted as grassy fields in 1969, and then woods from 1976 to 1993. Pond 16C's northern portion was depicted as a grassy field from 2003 to 2021 (part of the current configuration of the I-95 interchange).	No concerns noted.

Pond Sites	Historical Use	Contamination Concerns
16D	Undeveloped grassy fields depicted from 1943 to 1958. LPGA Boulevard depicted in the northern portion of the pond from 1969 to 2021. Pond 16D's southern portion was depicted as grassy fields from 1969 to 1984, and then woods in 1993. Pond 16D's southern portion was depicted as a grassy field from 2003 to 2021 (part of the current configuration of the I-95 interchange).	No concerns noted.
17A	Undeveloped grassy fields depicted from 1943 to 1958. The LPGA Boulevard depicted in the northern portion of the pond from 1969 to 2021. Pond 17A's southern portion was depicted as grassy fields from 1969 to 1984, and then woods in 1993. Pond 17A's southern portion was depicted as a grassy field from 2003 to 2021 (part of the current configuration of the I-95 interchange).	No concerns noted.
17B	Undeveloped grassy fields depicted from 1943 to 1958. Pond 16D's southern portion was depicted as a grassy field from 2003 to 2021 (part of the current configuration of the I-95 interchange).	No concerns noted.
17C	Undeveloped grassy fields depicted from 1943 to 1976. Woods depicted from 1984 to 1993. I-95 interchange, and ponded water (southern portion of Pond 17C) depicted from 2003 to 2021.	No concerns noted.

Contamination concerns noted during the review of aerial photographs are further discussed in **Table 4**.

4.2 USGS Topographic Maps

Topographic maps are reviewed to develop an understanding of previous land uses in the study area and to identify any areas that may show historical, natural and manmade features, which aid in determining contamination concerns. The following review is provided for the USGS 7.5-Minute topographic maps (**Appendix D**).

Table 3 | Topographic Map Review

Pond Sites	Historical Use	Contamination Concerns
1A	Shaded green indicating “woods” from 1952 to 1993.	No concerns noted.
1B 1D	Shaded green indicating “woods” in 1952 with a solid blackline indicating “road/trail.” Shaded white indicating “developed land” from 1970 to 1993.	No concerns noted.
1E	Shaded white indicating “developed land” from 1952 to 1988. Shaded green indicating “woods” in 1993.	No concerns noted.
1C+2A	Shaded green indicating “woods” from 1952 to 1988. Shaded white indicating “developed land” in 1993.	No concerns noted.
2B+3A	Shaded white indicating “developed land” from 1952 to 1988. Shaded green indicating “woods” in 1993.	No concerns noted.
3B 3C+4A 4B 4C+5A 5B 6C 6E 7A	Shaded green indicating “woods” from 1952 to 1993.	No concerns noted.
7B 8B 8C	Shaded green with blue plants indicating “woods and low wetted land” from 1952 to 1993.	No concerns noted.
9A	Shaded green indicating “woods” from 1952 to 1993.	No concerns noted.

Pond Sites	Historical Use	Contamination Concerns
9B 9D 9E 9F 9C+10A 10B 10C 11A 11C	Shaded white indicating “developed land” from 1952 to 1988. Shaded green indicating “woods” in 1993.	No concerns noted.
12B 12C+13A	Shaded green with a blue plant indicating “woods with low wetted land” from 1952 to 1993.	No concerns noted.
13B	Shaded green indicating “woods” from 1952 to 1993.	No concerns noted.
14B	Shaded green indicating “woods” and a black dashed line indicating “railroad tracks” from 1952 to 1970. A borrow pit and four small structures were depicted from 1970 to 1993.	No concerns noted.
14C	Shaded white indicating “developed land” in 1952. LPGA Boulevard depicted from 1970 to 1993.	No concerns noted.
14D	Shaded white indicating “developed land,” green indicating “woods,” and a black dashed line indicating “railroad line” from 1952 to 1988. The railroad line was no longer depicted after 1970. Shaded green indicating “woods” in 1993.	No concerns noted.
14E	Shaded white indicating “developed land,” from 1952 to 1988. Shaded as green indicating “woods” in 1993. LPGA Boulevard was depicted from 1970 to 1993.	No concerns noted.
15A	Shaded white indicating “developed land” in 1952. LPGA Boulevard depicted from 1970 to 1993.	No concerns noted.
15B	Shaded white “developed land,” from 1952 to 1988. Shaded as green for “woods” in 1993. LPGA Boulevard was depicted from 1970 to 1993.	No concerns noted.

Pond Sites	Historical Use	Contamination Concerns
15C	Shaded white indicating “developed land” in 1952, and with a black dashed line indicating “railroad line.” Shaded white indicating “developed land” from 1970 to 1988. Shaded green indicating woods in 1993.	No concerns noted.
15D 16A	Shaded white “developed land,” from 1952 to 1988. Shaded as green for “woods” in 1993. LPGA Boulevard was depicted from 1970 to 1993.	No concerns noted.
16B	Shaded green with blue plants indicating “woods and low wetted land,” and with a black dashed line indicating “railroad line” from 1952 to 1993.	No concerns noted.
16C	Shaded white “developed land,” from 1952 to 1988. Shaded as green for “woods” in 1993. LPGA Boulevard was depicted within the southern portion of the pond from 1970 to 1993.	No concerns noted.
16D	Shaded green with a blue plant indicating “woods and low wetted land” from 1952 to 1993.	No concerns noted.
17A	Shaded white indicating “developed land” from 1952 to 1988. Shaded green indicating “woods” in 1993. LPGA Boulevard depicted within the northern portion of the pond from 1970 to 1993.	No concerns noted.
17B 17C	Shaded green with a blue plant indicating “woods and low wetted land” from 1952 to 1993.	No concerns noted.

5.0 Hydrologic Features

5.1 Aquifers of Florida

The Floridan aquifer is found throughout Florida and extends into the southern portions of Alabama, Georgia, and South Carolina. This aquifer system is comprised of a sequence of limestone and dolomite, which thickens from about 250 feet in Georgia to about 3000 feet in south Florida. The Floridan aquifer system has been divided into an upper and lower aquifer separated by a unit of lower permeability. The upper Floridan aquifer is the principal source of water supply in most of north and central Florida. In the southern portion of the state, where it is deeper and contains brackish water, the aquifer has been used for the injection of sewage and industrial waste. Groundwater flow is generally from high elevations within the central portion of the state towards the east and west coasts.

The surficial aquifer system in Florida includes any otherwise undefined aquifers that are present at land surface. The surficial aquifer is mainly used for domestic, commercial, or small municipal supplies. The surficial aquifer system is generally under unconfined, or water table conditions and is made up of mostly unconsolidated sand, shelly sand, and shell. The aquifer thickness is typically less than 50 feet. Groundwater in the surficial aquifer generally flows from areas of higher elevation towards the coast or streams where it can discharge as base flow. Water enters the aquifer from rainfall and exits as base flow to streams, discharge to the coast, evapotranspiration, and downward recharge to deeper aquifers.

6.0 Interviews

Communication with landowners, facility operators, residents, and governmental agencies can aid in the understanding of past and current land uses within the study area. Where possible or when necessary, interviews or requests for information are collected in an effort to identify potential concerns associated with petroleum storage tanks; automotive or marine, maintenance, service or repair facilities; dry-cleaning processes; and other industrial or agricultural operations that could affect the project.

Due to sufficient information being available from the database search, as well as the historical aerial photographs and topographic maps, interviews with the past and present owners of properties were not conducted.

7.0 Project Impacts

In total, 45 drainage sites were evaluated to identify contamination concerns which may impact the proposed improvements. This table references a previous 448456-1-22-01 Level I CSER dated March 17, 2023 that identified contamination sites not identified in EDM's report. The sites identified in the previous CSER are categorized by their Map ID number. The location of each drainage site, and Map ID number from the previous CSER are illustrated in **Appendix A**.

Table 4 | Risk Ratings for Drainage Sites

Drainage Alternatives	Risk Rating	Comments
1A	No	No regulatory listings were found for Pond 1A or within 500 feet. No development has occurred at Pond 1A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
1B	No	No regulatory listings were found for Pond 1B or within 500 feet. No development has occurred at Pond 1B. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
1D	No	No regulatory listings were found for Pond 1D or within 500 feet. No development has occurred at Pond 1D. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
1E	No	No regulatory listings were found for Pond 1E or within 500 feet. No development has occurred at Pond 1E. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
1C+2A	No	No regulatory listings were found for Pond 1C+2A or within 500 feet. No development has occurred at Pond 1C+2A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
2B+3A	No	No regulatory listings were found for Pond 2B+3A or within 500 feet. No development has occurred at Pond 2B+3A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
3B	Low	No regulatory listings were found for Pond 3B. Aerial photographs (**Appendix C**) depict undeveloped woods and trails from 1943 to 1958. Woods are depicted from 1969 to 2013. Planted pine trees are depicted from 2013 to 2022 within Pond 3B. Planted Pine Trees, located within Pond 3B, were not identified in EDM's report. Fertilizers, herbicides, and pesticides are used to protect forests from disease and pests. Improper application of these chemicals could have minor impacts on water quality. Generally, these chemicals are applied at most one to three times at a harvest site. These chemicals specifically target biochemical pathways possessed by plants. The half-life of forestry herbicides are typically no more than 100 days and exhibit *de minimis* conditions. **Risk Rating**: Given the half-life of chemicals used, this pond was assigned a risk rating of Low.
3C+4A	No	No regulatory listings were found for Pond 3C+4A or within 500 feet. No development has occurred at Pond 3C+4A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
4B	No	No regulatory listings were found for Pond 4B or within 500 feet. No development has occurred at Pond 4B. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
4C+5A	No	No regulatory listings were found for Pond 4C+5A or within 500 feet. No development has occurred at Pond 4C+5A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
5B	Low	No regulatory listings were found for Pond 5B. Aerial photographs (**Appendix C**) depict undeveloped grassy fields and trails from 1943 to 1950. Woods are depicted from1958 to 1976. Grassy fields and woods are depicted from 1984 to 1992. Planted pine trees are depicted from 2003 to 2004. Dirt road is depicted from 2005 to 2012. Grassy fields are depicted from 2012 to 2016. Woods are depicted from 2017 to 2022. Planted Pine Trees, located within Pond 5B, were not identified in EDM's report. Fertilizers, herbicides, and pesticides are used to protect forests from disease and pests. Improper application of these chemicals could have minor impacts on water quality. Generally, these chemicals are applied at most one to three times at a harvest site. These chemicals specifically target biochemical pathways possessed by plants. The half-life of forestry herbicides are typically no more than 100 days and exhibit *de minimis* conditions. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified the nearest offsite contamination site: Map ID 1 – STCERC ERIC_5662 – Daytona Beach Stadium Site Part A-1900, located at 3917 LPGA Boulevard, approximately 95 feet north of Pond 5B. The site was found in the FDEP's Eliminate, Reduce, Isolate, Control (ERIC) waste cleanup database, and Florida Department of Environmental Regulation (FDER) Sites list STCERC. The site's status was listed as complete in the Site Investigation Section program. The status of the site was listed as closed, and no discharge date was provided. The facility was also listed as a disaster debris staging area. There are no concerns for soil or groundwater contamination regarding disaster debris. Excessively high levels of Cadmium and Chromium were observed onsite during a groundwater sampling event on May 31, 1988 for the installation of a waste water irrigation system. It was determined the fill dirt used onsite was sourced from an area where unauthorized plating waste dumping had occurred on city owned property. The half-lives for elements Chromium-51 is 28 days, and for Cadmium-109 is 1.3 years. The past contamination onsite exhibits *de minimis* conditions given the half-lives of those metals. No subsequent regulatory files were found after 1989. There are no concerns for contamination for Pond 5B associated with Map ID 1. **Risk Rating**: Given that Pond 5B has remained undeveloped, and the half-lives of both elements (Cadmium and Chromium) that are likely exhibiting *de minimis* conditions today, this site was assigned a risk rating of Low.
6C	No	No regulatory listings were found for Pond 6C. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified the nearest offsite contamination site: Map ID 1A – STCERC/LUST/TANKS ERIC_5872 – City of Daytona Wastewater Treatment Facility Part A-1993, located at 3651 LPGA Boulevard, approximately 210 feet east of Pond 6C. This site was not identified in the FDEP's Storage Tanks & Contamination Monitoring (STCM) database. Three discharges were reported: November 20, 1990 (given a No Further Action (NFA) March 22, 1991), March 15, 1993 (given a Site Rehabilitation Completion Order (SRCO) July 21, 1994, SRCO rescinded December 9, 2010), and June 3, 2010 (discovered during UST closure activities within the same area as the 1993 Discharge). A Template Site Assessment Report dated October 29, 2015, includes maps depicting the 1993 and 2010 discharge areas approximately 1,100 feet from Pond 6C and confined within the same area. A Site Assessment Report (SAR) dated September 6, 2022 by Universal Engineering Sciences (UES) states a discharge of under 25-gallons of diesel was reported on May 2, 2014 during the refueling of a 6,000-gallon aboveground storage tank (AST) located over 2,000 feet from Pond 6C. UES recommended NFA status for the reported discharge after remediation was concluded in 2022. There are no concerns for contamination for Pond 6C associated with Map ID 1A. **Risk Rating**: Given that Pond 6C has remained undeveloped as woods, and the location of the three discharges in excess of 1,100 feet east from Pond 6C, this pond was assigned a risk rating of No.
6E	No	No regulatory listings were found for Pond 6E. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified the nearest offsite contamination site: Map ID 1A – STCERC/LUST/TANKS ERIC_5872 – City of Daytona Wastewater Treatment Facility Part A-1993, located at 3651 LPGA Boulevard, approximately 170 feet east of Pond 6E. This site was not identified in the FDEP's STCM database. Three discharges were reported: November 20, 1990 (given a NFA March 22, 1991), March 15, 1993 (given a SRCO July 21, 1994, SRCO rescinded December 9, 2010), and June 3, 2010 (discovered during UST closure activities within the same area as the 1993 Discharge). A Template Site Assessment Report dated October 29, 2015, includes maps depicting the 1993 and 2010 discharge areas approximately 1,400 feet from Pond 6E and confined within the same area. A SAR dated September 6, 2022 by UES states a discharge of under 25-gallons of diesel was reported on May 2, 2014 during the refueling of a 6,000-gallon AST located over 2,300 feet from Pond 6E. UES recommended NFA status for the reported discharge after remediation was concluded in 2022. There are no concerns for contamination for Pond 6E associated with Map ID 1A. **Risk Rating**: Given that Pond 6E has remained undeveloped as woods, and the location of the three discharges in excess of 1,400 feet east from Pond 6E, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
7A	No	No regulatory listings were found for Pond 7A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified the nearest offsite contamination site: Map ID 1A – STCERC/LUST/TANKS ERIC_5872 – City of Daytona Wastewater Treatment Facility Part A-1993, located at 3651 LPGA Boulevard, approximately 250 feet southeast of Pond 7A. This site was not identified in the FDEP's STCM database. Three discharges were reported: November 20, 1990 (given a NFA March 22, 1991), March 15, 1993 (given an SRCO July 21, 1994, SRCO rescinded December 9, 2010), and June 3, 2010 (discovered during UST closure activities within the same area as the 1993 Discharge). A Template Site Assessment Report dated October 29, 2015, which includes maps depicting the 1993 and 2010 discharge areas approximately 1,500 feet from Pond 7A and confined within the same area. A Site Assessment Report (SAR) dated September 6, 2022 by UES states a discharge of under 25-gallons of diesel was reported on May 2, 2014 during the refueling of a 6,000-gallon AST located over 2,400 feet from Pond 7A. UES recommended NFA status for the reported discharge after remediation was concluded in 2022. There are no concerns for contamination for Pond 7A associated with Map ID 1A. **Risk Rating**: Given that Pond 7A has remained undeveloped as woods, and the location of the three discharges in excess of 1,500 feet east from Pond 7A, this pond was assigned a risk rating of No.
7B	No	No regulatory listings were found for Pond 7B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified the nearest offsite contamination site: Map ID 1A – STCERC/LUST/TANKS ERIC_5872 – City of Daytona Wastewater Treatment Facility Part A-1993, located at 3651 LPGA Boulevard, approximately 500 feet southeast of Pond 7B. This site was not identified in the FDEP's STCM database. Three discharges were reported: November 20, 1990 (given a NFA March 22, 1991), March 15, 1993 (given an SRCO July 21, 1994, SRCO rescinded December 9, 2010), and June 3, 2010 (discovered during UST closure activities within the same area as the 1993 Discharge). A Template Site Assessment Report dated October 29, 2015, which includes maps depicting the 1993 and 2010 discharge areas approximately 1,500 feet from Pond 7B and confined within the same area. A Site Assessment Report (SAR) dated September 6, 2022 by UES states a discharge of under 25-gallons of diesel was reported on May 2, 2014 during the refueling of a 6,000-gallon AST located over 2,400 feet from Pond 7B. UES recommended NFA status for the reported discharge after remediation was concluded in 2022. There are no concerns for contamination for Pond 7B associated with Map ID 1A. **Risk Rating**: Given that Pond 7B has remained undeveloped as woods, and the location of the three discharges in excess of 1,500 feet east from Pond 7B, this pond was assigned a risk rating of No.
8B	No	No regulatory listings were found for Pond 8B or within 500 feet. No development has occurred at Pond 8B. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
8C	No	No regulatory listings were found for Pond 8C or within 500 feet. No development has occurred at Pond 8C. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
9A	No	No regulatory listings were found for Pond 9A or within 500 feet. No development has occurred at Pond 9A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
9B	No	No regulatory listings were found for Pond 9B or within 500 feet. No development has occurred at Pond 9B. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
9D	No	No regulatory listings were found for Pond 9D or within 500 feet. No development has occurred at Pond 9D. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
9E	No	No regulatory listings were found for Pond 9E or within 500 feet. No development has occurred at Pond 9E. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
9F	No	No regulatory listings were found for Pond 9F or within 500 feet. No development has occurred at Pond 9F. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
9C+10A	No	No regulatory listings were found for Pond 9C+10A or within 500 feet. No development has occurred at Pond 9C+10A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
10B	No	No regulatory listings were found for Pond 10B or within 500 feet. No development has occurred at Pond 10B. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
10C	Low	No regulatory listings were found for Pond 10C. Aerial photographs (**Appendix C**) depict undeveloped grassy fields and trails from 1943 to 1958. Woods depicted in 1969. Grassy fields with trails depicted in 1976. Woods are depicted from 1984 to 1992. Planted pine trees depicted from 2003 to 2022. Planted Pine Trees, located within Pond 10C, were not identified in EDM's report. Fertilizers, herbicides, and pesticides are used to protect forests from disease and pests. Improper application of these chemicals could have minor impacts on water quality. Generally, these chemicals are applied at most one to three times at a harvest site. These chemicals specifically target biochemical pathways possessed by plants. The half-life of forestry herbicides are typically no more than 100 days and exhibit *de minimis* conditions. **Risk Rating**: Given the half-life of chemicals used, this site was assigned a risk rating of Low.
11A	Low	No regulatory listings were found for Pond 11A. Aerial photographs (**Appendix C**) depict undeveloped grassy fields with trails from 1943 to 1958. Woods are depicted from 1969 to 1992. Planted pine trees are depicted from 2003 to 2022. Planted Pine Trees, located within Pond 11A, were not identified in EDM's report. Fertilizers, herbicides, and pesticides are used to protect forests from disease and pests. Improper application of these chemicals could have minor impacts on water quality. Generally, these chemicals are applied at most one to three times at a harvest site. These chemicals specifically target biochemical pathways possessed by plants. The half-life of forestry herbicides are typically no more than 100 days and exhibit *de minimis* conditions. **Risk Rating**: Given the half-life of chemicals used, this pond was assigned a risk rating of Low.
11C	Low	No regulatory listings were found for Pond 11C. Aerial photographs (**Appendix C**) depict undeveloped grassy fields with trails from 1943 to 1958.Woods are depicted from 1969 to 1992. Planted pine trees are depicted from 2003 to 2021. Planted Pine Trees, located within Pond 11C, were not identified in EDM's report. Fertilizers, herbicides, and pesticides are used to protect forests from disease and pests. Improper application of these chemicals could have minor impacts on water quality. Generally, these chemicals are applied at most one to three times at a harvest site. These chemicals specifically target biochemical pathways possessed by plants. The half-life of forestry herbicides are typically no more than 100 days and exhibit *de minimis* conditions. **Risk Rating**: Given the half-life of chemicals used, this pond was assigned a risk rating of Low.
12B	No	No regulatory listings were found for Pond 12B or within 500 feet. No development has occurred at Pond 12B. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
12C+13A	No	No regulatory listings were found for Pond 12C+13A or within 500 feet. No development has occurred at Pond 12C+13A. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
13B	No	No regulatory listings were found for Pond 13B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified the nearest offsite contamination site: Map ID 12 – Biological Check Station, located approximately 100 feet southeast of Pond 13B. The site was identified using the FDEP's Impaired Waters database. The information provided on MapDirect at the Tomoka River and LPGA Boulevard intersection does not appear to be for this specific location. Several Storet, WIN monitoring stations and Impaired Water stations were listed at 11th Street Bridge, 11th Street Canal, and nearby Holly Hill. There are no concerns for contamination for Pond 13B associated with Map ID 12. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
14B	**Medium**	No regulatory listings were found for Pond 14B. The nearest onsite contamination sites: Map ID 11 – Historical Railroad, located within Pond 14B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined a former railroad, oriented northeast/southwest, was within Pond 14B. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are contamination concerns associated with Pond 14B given the Historical Railroad's proximity depicted within Pond 14B. Map ID 14 – Potential Historic Landfill located within and generally northwest of Pond 14B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. The site was depicted as disturbed/earthwork land from 1969 to 1976 in aerial photographs during the time frame of roadway construction for LPGA Boulevard and I-95. A borrow pit was excavated immediately south of the property. It is possible that this site was used for equipment/material staging during roadway construction. Previous reports could not confirm landfill activity or buried debris with available information. There are no concerns for contamination for Pond 14B associated with Map ID 14. The nearest offsite contamination site: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 400 feet southeast of Pond 14B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 14B associated with Map ID 9. **Risk Rating**: Given the proximity of Map ID 11 found within Pond 14B, and the possibility of residual contamination, this pond was assigned a risk rating of **Medium**.
14C	No	No regulatory listings were found for Pond 14C. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 14C is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 14C. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 370 feet southeast of Pond 14C. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 14C associated with Map ID 9. Map ID 11 – Historical Railroad, located approximately 90 feet west of Pond 14C. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. This report noted that railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are no concerns for contamination for Pond 14C associated with Map ID 11 given the railroad location outside the pond boundaries. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
14D	**Medium**	No regulatory listings were found for Pond 14D. The nearest onsite contamination site: Map ID 11 – Historical Railroad, located partially within Pond 14D. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined a former railroad, oriented northeast/southwest, was within Pond 14D. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are contamination concerns associated with Pond 14D given the Historical Railroad's proximity depicted within Pond 14D. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 370 feet southeast of Pond 14D. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 14D associated with Map ID 9. Map ID 14 – Potential Historic Landfill located approximately 350 feet west of Pond 14D. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. The site was depicted as disturbed/earthwork land from 1969 to 1976 in aerial photographs during the time frame of roadway construction for LPGA Boulevard and I-95. A borrow pit was excavated immediately south of the property. It is possible that this site was used for equipment/material staging during roadway construction. Previous reports could not confirm landfill activity or buried debris with available information. There are no concerns for contamination for Pond 14D associated with Map ID 14. **Risk Rating** Given the proximity of Map ID 11 found within Pond 14D, and the possibility of residual contamination, this pond was assigned a risk rating of **Medium**.
14E	No	No regulatory listings were found for Pond 14E. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 14E is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 14E. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 10 feet northeast of Pond 14E. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 14E associated with Map ID 9. Map ID 11 – Historical Railroad, located approximately 440 feet northwest of Pond 14E. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are no concerns for contamination for Pond 14E associated with Map ID 11 given the railroad location outside the pond boundaries. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
15A	No	No regulatory listings were found for Pond 15A. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 15A is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 15A. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 370 feet southeast of Pond 15A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 15A associated with Map ID 9. Map ID 11 – Historical Railroad, located approximately 90 feet northwest of Pond 15A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are no concerns for contamination for Pond 15A associated with Map ID 11 given the location of the railroad outside the footprint of the pond. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.
15B	Low	No regulatory listings were found for Pond 15B. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 15B is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 15B. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 10 feet northeast of Pond 15B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 15B associated with Map ID 9. Map ID 11 – Historical Railroad, located approximately 440 feet northwest of Pond 15B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are no concerns for contamination for Pond 15B associated with Map ID 11 given the location of the railroad outside the footprint of the pond. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of Low.
15C	No	No regulatory listings were found for Pond 15C. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 15C is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 15C. **Risk Rating**: Given that no contamination concerns have been identified, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
15D	No	No regulatory listings were found for Pond 15D. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 15D is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 15D. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 500 feet north of Pond 15D. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 15D associated with Map ID 9. **Risk Rating**: Given that no contamination concerns have been identified within pond 15D, this pond was assigned a risk rating of No.
16A	**Medium**	No regulatory listings were found for Pond 16A. The nearest onsite contamination sites: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 16A is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 16A. Map ID 11 – Historical Railroad, located within Pond 16A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined a former railroad, oriented northeast/southwest, was within Pond 16A. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are contamination concerns associated with Pond 16A given the Historical Railroad's proximity depicted within Pond 16A. The nearest offsite contamination sites: Map ID 6 – Buc-ee's #47, located at 2330 North Gateway Drive, is located 330 feet northeast of Pond 16A. EDM's report (**Appendix B**) identified this facility as Site 1; however, this report will refer to this facility as Map ID 6 to remain consistent with the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Map ID 6 is an active retail gas station with six 40,000-gallon USTs (four ethanol E10 fuel, and two vehicular diesel), which have been in service since April 1, 2020 with no reported discharges. A Storage Tank Facility Routine Compliance Site Inspection Report dated May 3, 2022, states the site was found in compliance. There are no concerns for contamination for Pond 16A associated with Map ID 6. Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 450 feet southwest of Pond 16A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 16A associated with Map ID 9. Map ID 14 – Potential Historic Landfill located approximately 410 feet west of Pond 16A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. The site was depicted as disturbed/earthwork land from 1969 to 1976 in aerial photographs during the time frame of roadway construction for LPGA Boulevard and I-95. A borrow pit was excavated immediately south of the property. It is possible that this site was used for equipment/material staging during roadway construction. Previous reports could not confirm landfill activity or buried debris with available information. There are no concerns for contamination for Pond 16A associated with Map ID 14. **Risk Rating**: Given the proximity of Map ID 11 found within Pond 16A, and the possibility of residual contamination, this pond was assigned a risk rating of **Medium**.

Drainage Alternatives	Risk Rating	Comments
16B	**Medium**	No regulatory listings were found for Pond 16B. The nearest onsite contamination sites: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 16B is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 16B. Map ID 11 – Historical Railroad, located approximately within Pond 16B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined a former railroad, oriented northeast/southwest, was within Pond 16B. Railroads are not sources of contamination, however chemicals such as arsenic, creosote, PAHs, other inorganic constituents, pesticides, and herbicides are used for the preservation of railroad ties, and to keep vegetation off the tracks. There are contamination concerns associated with Pond 16B given the Historical Railroad's proximity depicted within Pond 16B. The nearest offsite contamination sites: Map ID 6 – 9817837 – Buc-ee's #47, located at 2330 North Gateway Drive, is located 110 feet northeast of Pond 16B. EDM's report (**Appendix B**) identified this facility as Site 1; however, this report will refer to this facility as Map ID 6 to remain consistent with the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Map ID 6 is an active retail gas station with six 40,000-gallon USTs (four ethanol E10 fuel, and two vehicular diesel), which have been in service since April 1, 2020 with no reported discharges. A Storage Tank Facility Routine Compliance Site Inspection Report dated May 3, 2022, states the site was found in compliance. There are no concerns for contamination for Pond 16B associated with Map ID 6. **Risk Rating**: Given the proximity of Map ID 11 found within Pond 16B, and the possibility of residual contamination, this pond was assigned a risk rating of **Medium**.
16C	No	No regulatory listings were found for Pond 16C. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 16C is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 16C. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 20 feet southwest of Pond 16C. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 16C associated with Map ID 9. **Risk Rating**: Given that no contamination concerns have been identified within pond 16C, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
16D	No	No regulatory listings were found for Pond 16D. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 16D is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 16D. The nearest offsite contamination sites: Map ID 6 – 9817837 – Buc-ees #47, located at 2330 North Gateway Drive, is located approximately 460 feet north of Pond 16D. EDM's report (**Appendix B**) identified this facility as Site 1; however, this report will refer to this facility as Map ID 6 to remain consistent with the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Map ID 6 is an active retail gas station with six 40,000-gallon USTs (four ethanol E10 fuel, and two vehicular diesel), which have been in service since April 1, 2020 with no reported discharges. A Storage Tank Facility Routine Compliance Site Inspection Report dated May 3, 2022, states the site was found in compliance. There are no concerns for contamination for Pond 16D associated with Map ID 6. Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 460 feet southwest of Pond 16D. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 16D associated with Map ID 9. **Risk Rating**: Given that no contamination concerns have been identified within pond 16D, this pond was assigned a risk rating of No.
17A	No	No regulatory listings were found for Pond 17A. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 17A is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 17A. The nearest offsite contamination sites: Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 20 feet west of Pond 17A. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 17A associated with Map ID 9. **Risk Rating**: Given that no contamination concerns have been identified within pond 17A, this pond was assigned a risk rating of No.

Drainage Alternatives	Risk Rating	Comments
17B	No	No regulatory listings were found for Pond 17B. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 17B is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 17B. The nearest offsite contamination sites: Map ID 6 – 9817837 – Buc-ees #47, located at 2330 North Gateway Drive, is located approximately 490 feet north of Pond 17B. EDM's report (**Appendix B**) identified this facility as Site 1; however, this report will refer to this facility as Map ID 6 to remain consistent with the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Map ID 6 is an active retail gas station with six 40,000-gallon USTs (four ethanol E10 fuel, and two vehicular diesel), which have been in service since April 1, 2020 with no reported discharges. A Storage Tank Facility Routine Compliance Site Inspection Report dated May 3, 2022, states the site was found in compliance. There are no concerns for contamination for Pond 17B associated with Map ID 6. Map ID 9 – Shelton Trucking Spill Site, located at LPGA Boulevard overpass, is located approximately 460 feet southwest of Pond 17B. The Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01) identified this site. It was determined approximately 50 to 70-gallons of diesel fuel was discharged following a truck accident on January 3, 2006. Remediation documentation was submitted and approved for closure in September 2006. There are no concerns for contamination for Pond 17B associated with Map ID 9. **Risk Rating**: Given that no contamination concerns have been identified within Pond 17B, this pond was assigned a risk rating of No.
17C	No	No regulatory listings were found for Pond 17C. The nearest onsite contamination site: Map ID 10 – BF640401000 Daytona Beach Area Aero Park Brownfield Area, is located throughout the entire east portion of I-95 and partially within the I-95 interchange. This site was identified in the Level I CSER (mainline) dated March 17, 2023 (FPID: 448456-1-22-01). Pond 17C is located within the Brownfield area. The Brownfield area appears to have been designated for economic development purposes and doesn't indicate specific contamination impacts to Pond 17C. **Risk Rating**: Given that no contamination concerns have been identified within Pond 17C, this pond was assigned a risk rating of No.

8.0 Conclusions and Recommendations

8.1 Conclusions

Based on this contamination screening evaluation, a total of forty-five drainage alternatives were evaluated. The following table presents a summary of the risk ratings assigned for each drainage site:

Table 5 | Summary of Drainage Site Risk Ratings

High	Medium	Low	No
0	4	6	35

8.2 Recommendations

Based on the conclusions of this study and the risk ratings noted above, the following recommendations are made.

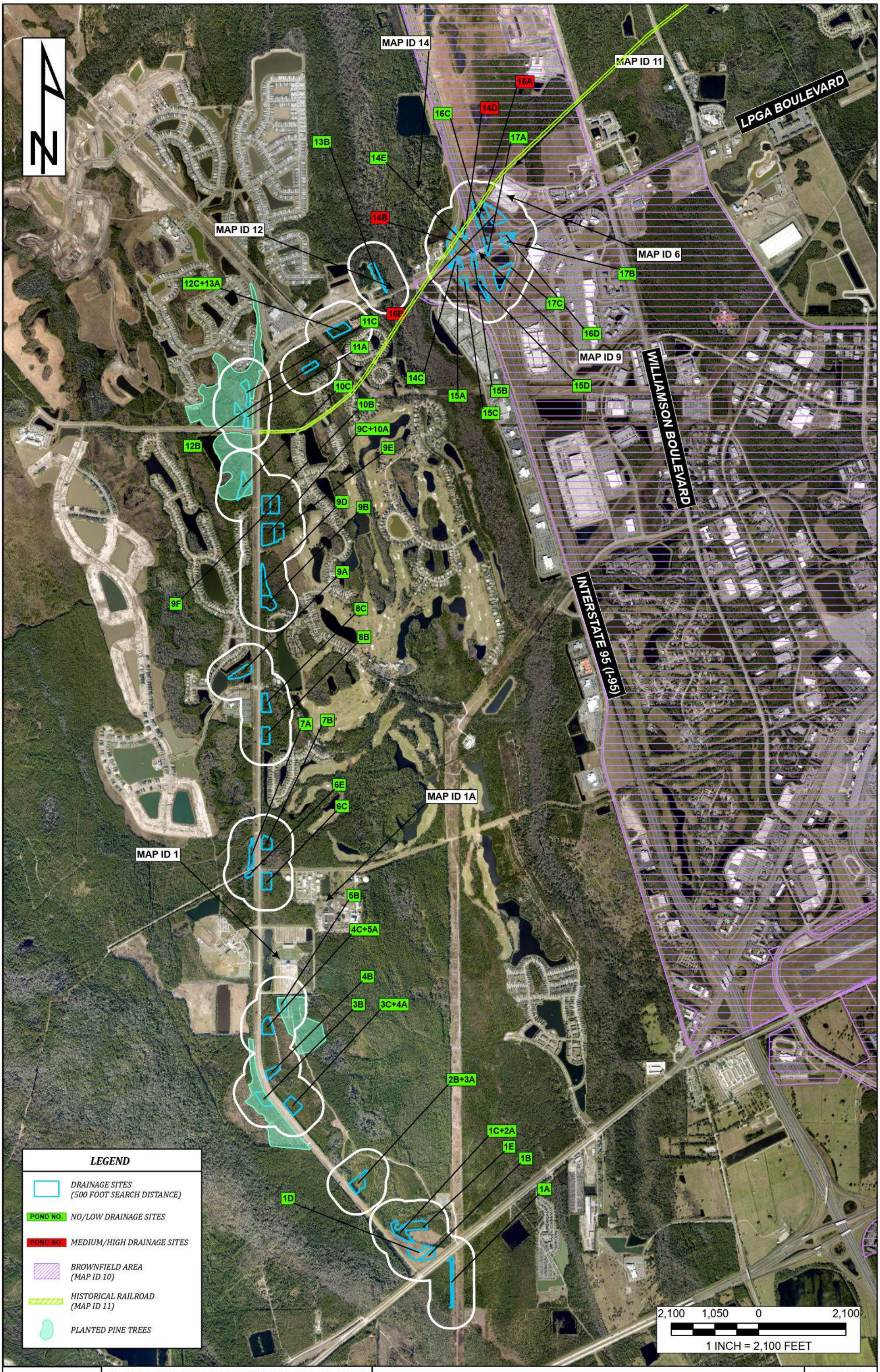
- Additional information may become available or site-specific conditions may change from the time this report was prepared and should be considered prior to acquiring ROW and/or proceeding with roadway construction. If the preferred alignment changes, and/or new potential contamination sites are identified, this report should be revised and updated to reflect those changes.
- For the locations rated No or Low for contamination, no further action is required. These locations have been determined not to have any contamination risk to the study area at this time.
- Four Medium rated drainage sites (14B, 14D, 16A, & 16B) were identified and should be considered for Level II testing. Zero High rated drainage sites were identified.
- Level II testing, if deemed appropriate by the District Contamination Impact Coordinator, is recommended for the following drainage sites:
    - Three drainage sites (14B, 14D, and 16A) were rated Medium due to the Historical Railroad (Map ID 11) within the pond footprints. Soil and groundwater analytical testing may include Polynuclear Aromatic Hydrocarbons by EPA Method 8270, RCRA 8 Metals by EPA Method 6010/7471 (including arsenic), and Herbicides by EPA Method 8151. Detections above the regulatory standards may warrant additional samples for delineation purposes.
    - One drainage site (16B) was rated Medium due to the Historical Railroad (Map ID 11) within the pond footprint and the nearby active gas station (Bucc-ee's #47, Map ID 7). Related to the Historical Railroad (Map ID 11), soil and groundwater analytical testing may include Polynuclear Aromatic Hydrocarbons by EPA Method 8270, RCRA 8 Metals by EPA Method 6010/7471 (including arsenic),

and Herbicides by EPA Method 8151. Related to Bucc-ee's #47 (Map ID 7), additional file review is recommended just prior to construction to verify regulatory status. The discovery of new discharges at the gas station should be considered for field testing to determine presence and extent of contamination impacts to 16B. If a discharge has reported, soil and/or groundwater analytical testing may include Total Recoverable Petroleum Hydrocarbons by the Florida PRO Method; benzene, toluene, ethylbenzene, xylenes, and methyl tertiary-butyl ether by EPA Method 8260; and Polynuclear Aromatic Hydrocarbons by EPA Method 8270. Organic Vapor Analyzer screening is also recommended. Detections above the regulatory standards may warrant additional samples for delineation purposes.

- Once final design plans are available, additional review is recommended in consideration of dewatering operations that may be necessary under the *National Pollutant Discharge Elimination System Generic Permit for Stormwater Discharges from Large and Small Construction Activities*. Verification testing may be warranted for contamination issues within 500 feet of the dewatering area.

Appendix A Contamination Site Map

SOURCE: ARCGIS PRO 2023



TIERRA GEOTECHNICAL • MATERIALS ENVIRONMENTAL • ENGINEERING	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		CONTAMINATION SITE MAP	SHEET NO.
	TIERRA PROJECT NO.	COUNTY	FINANCIAL PROJECT ID	LPGA BOULEVARD FROM US 92 (SR 600) TO WILLIAMSON BOULEVARD PD&E STUDY	1
	5511-21-038E	VOLUSIA COUNTY	448456-1-22-01		

Appendix B EDM's Report

Environmental Data Report

500 Feet Radius Research

Subject Property:

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:

Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

March 14, 2023

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

March 14, 2023

Collin Duncan
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **500 Feet Radius Research - EDM Project #26457**

Dear Mr. Duncan

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

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida

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

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria.
- **Site Summary Table** –displays the Map ID number, Permit or Registration number, Name/Address and the Government Database(s) for the identified regulatory listed sites.
- **Detail Reports** – data detail for each database record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Addl Maps (where applicable)** – includes Recent Aerial Photo, USGS Topographic maps, FEMA Floodplain & NWI Wetland Map, map of statewide American Indian Lands and our Environmental Impact Areas map, showing the location of suspect sites such as NPL/STNPL, Brownfields, FUDS, etc.... Our Florida well data report is also include with the Standard and Comprehensive formats.
- **Agency List Descriptions –** defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. This report is only intended as a means to assist in identifying locations that may pose an environmental concern relative to the property under evaluation. Its use is not intended to replace the need for a complete environmental assessment or regulatory file review, but rather as a supplement to the overall evaluation.

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

ENVIRONMENTAL DATA MANAGEMENT, INC.

Executive Summary

Report Date: 3/14/2023

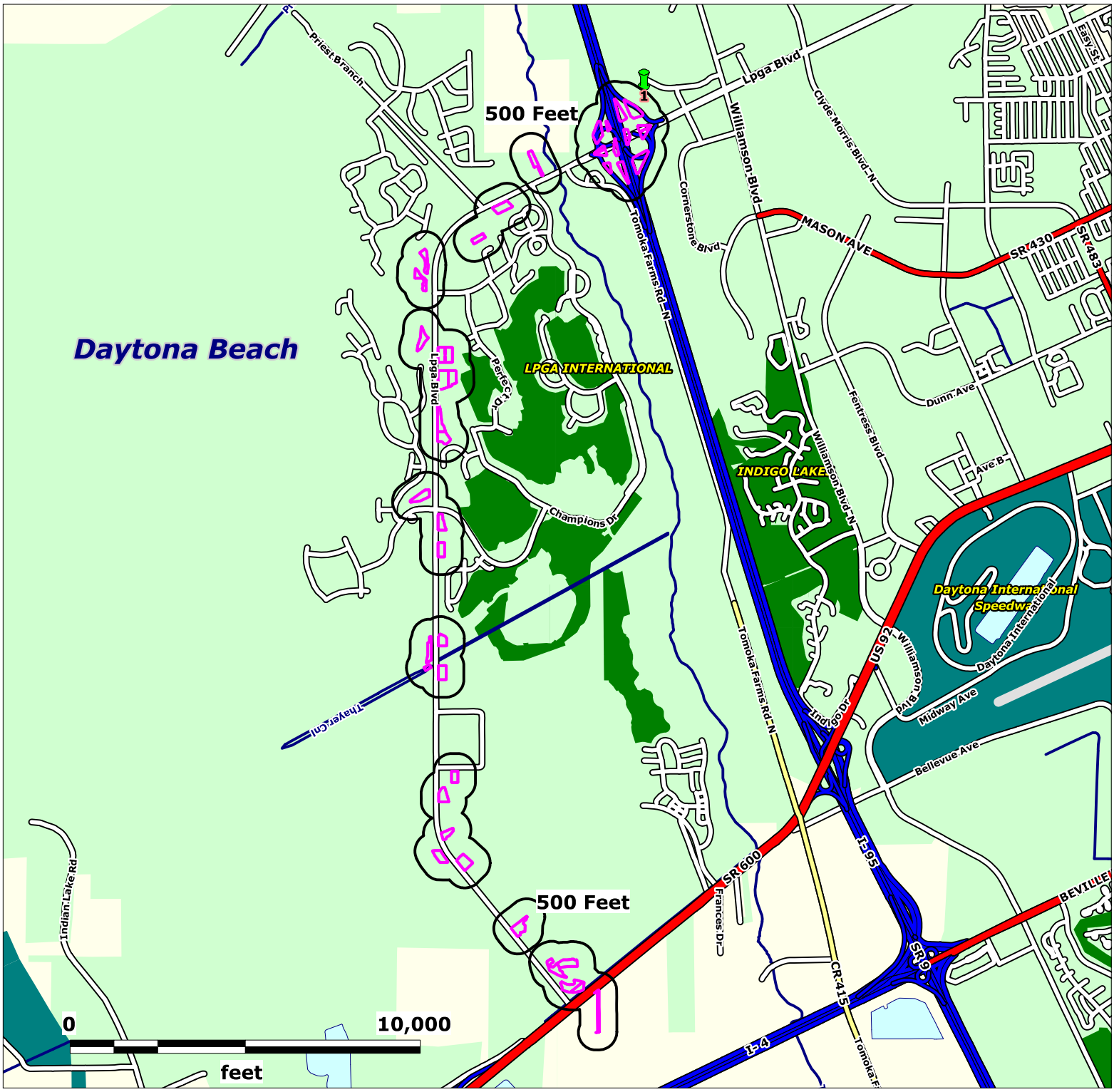
Client Information	Project Information
Tierra Inc 7351 Temple Terrace Hwy Tampa, FL 33637 Client Job No: Client P.O. No:	500 Feet Radius Research LPGA Boulevard from US 92 (SR 600) to Williamson Boulevard PD&E Study Volusia County, Florida EDM Job No# 26457

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

AGENCY DATABASES RESEARCHED	Total # Found
EPA DATABASES	
National Priorities List(NPL)	0
SEMS Active Site Inventory List(SEMSACTV)	0
Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)	0
SEMS Archived Site Inventory List(SEMSARCH)	0
Archived Cerclis Sites(NFRAP)	0
RCRIS Handlers with Corrective Action(CORRACTS)	0
Tribal Tanks List(TRIBLTANKS)	0
Tribal Lust List(TRIBLLUST)	0
Brownfields Management System(USBRWNFLDS)	0
Institutional and/or Engineering Controls(USINSTENG)	0
NPL Liens List(NPLLIENS)	0
RCRA-Treatment, Storage and/or Disposal Sites(TSD)	0

AGENCY DATABASES RESEARCHED	Total # Found
FDEP DATABASES	
State NPL Equivalent(STNPL)	0
State CERCLIS/SEMS Equivalent(STCERC)	0
Solid Waste Facilities List_Landfills(SLDWST_LF)	0
Leaking Underground Storage Tanks List(LUST)	0
Underground/Aboveground Storage Tanks(TANKS)	1
State Designated Brownfields(BRWNFLDS)	0
Voluntary Cleanup List(VOLCLNUP)	0
Institutional and/or Engineering Controls(INSTENG)	0
Dry Cleaners List(DRY)	0

500 Feet Radius Research Report
Street Map



Source: US Census Bureau TIGER Files

Map Scale and Property Boundaries are Approximate

Subject Property

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida

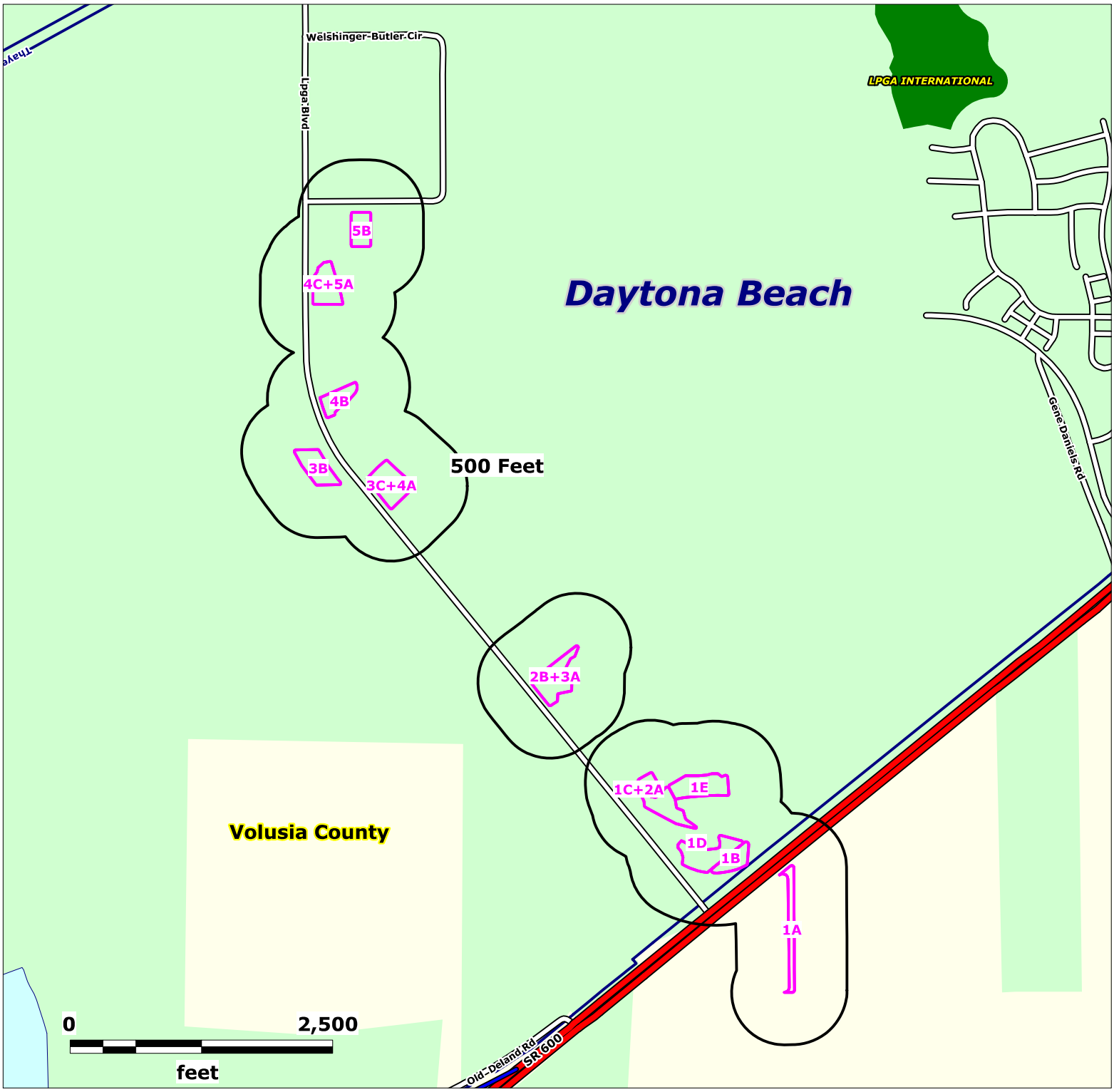
Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
Street Map



Source: US Census Bureau TIGER Files

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March 14, 2023

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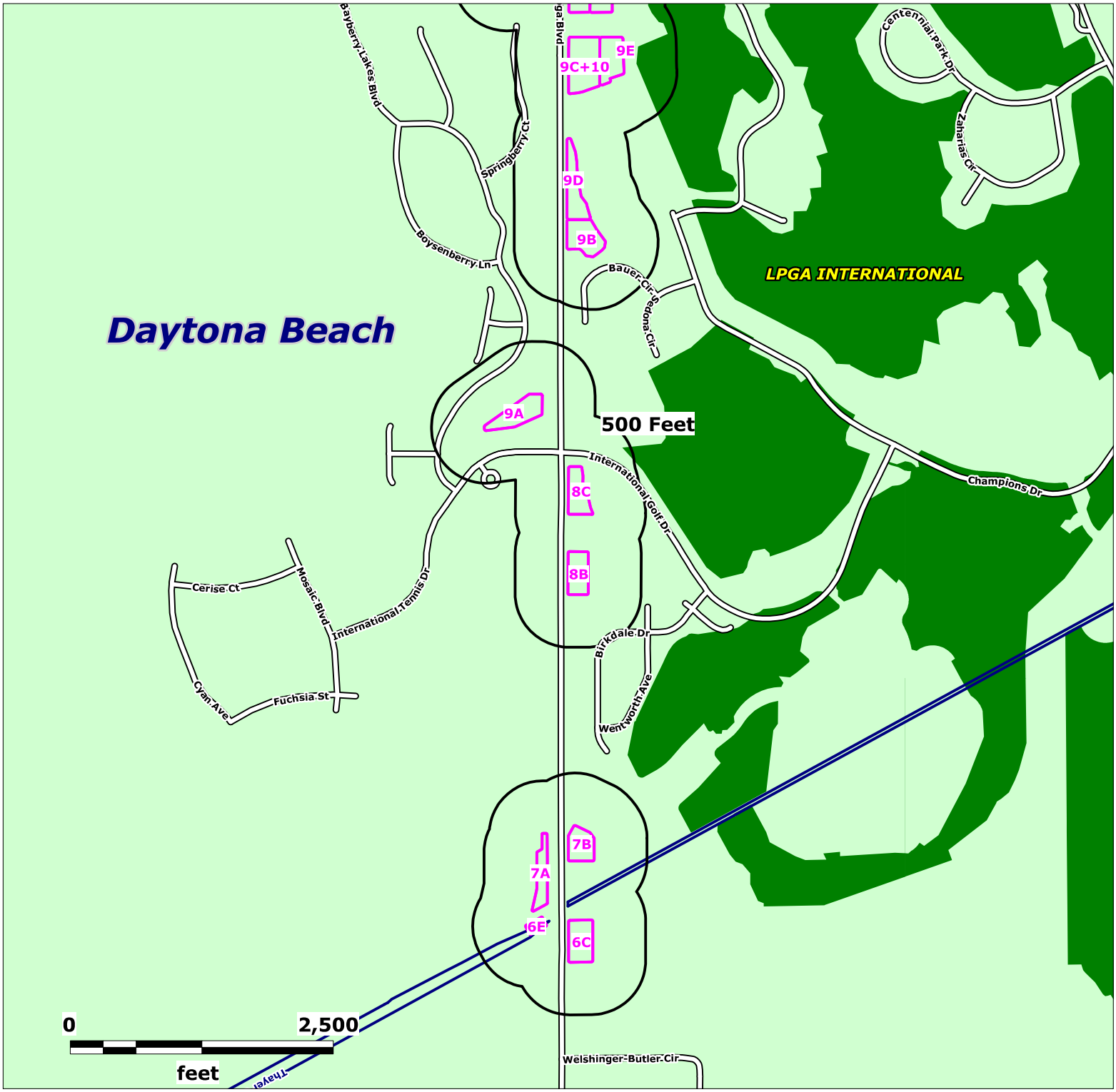
Regulated Site

500 Feet Radius Research Report
Street Map



Source: US Census Bureau TIGER Files

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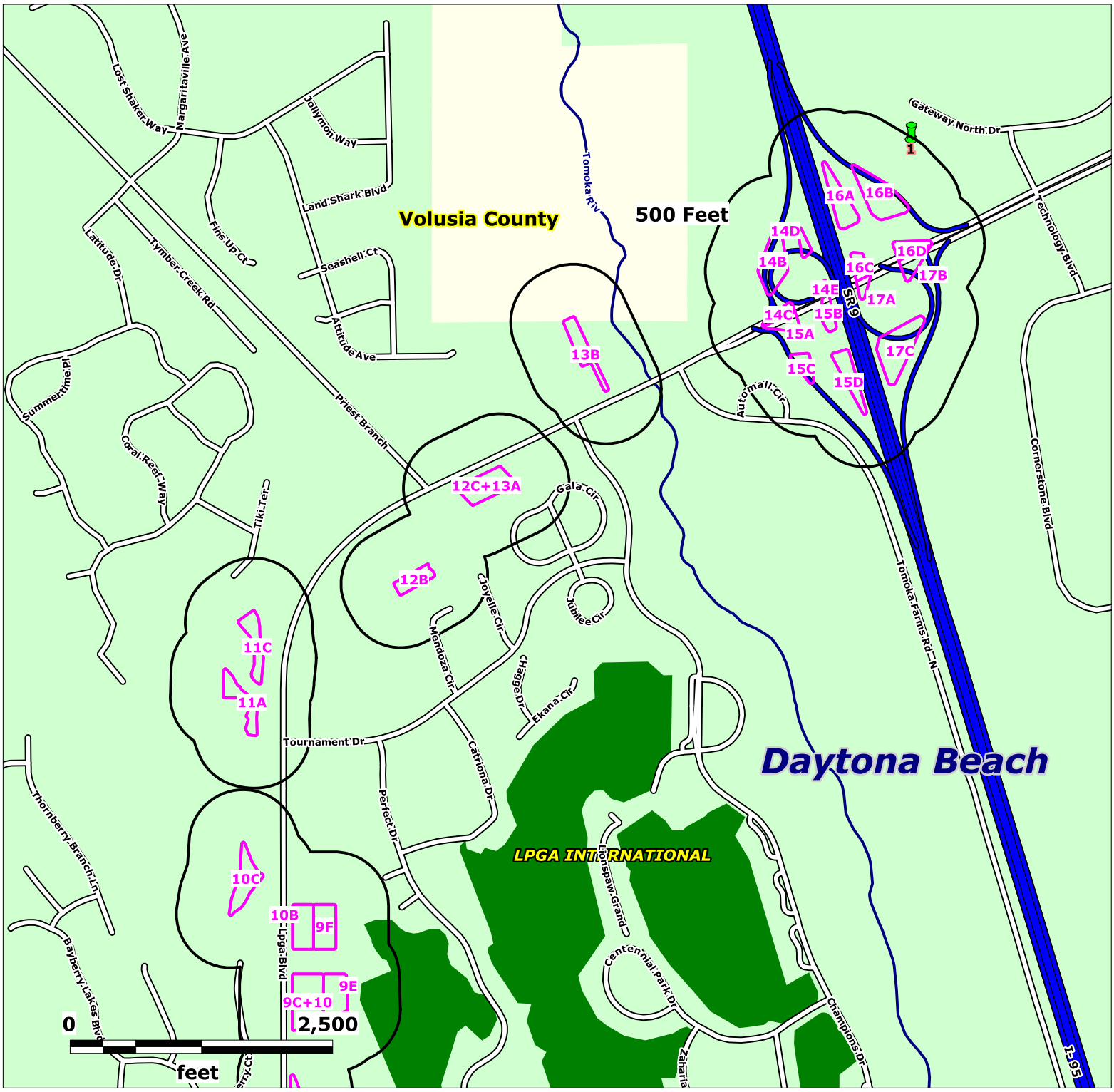
EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
2021 Aerial Photo



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

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Volusia County, Florida

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EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
2021 Aerial Photo

Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

LPGA Boulevard from US 92 (SR 600)
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Volusia County, Florida

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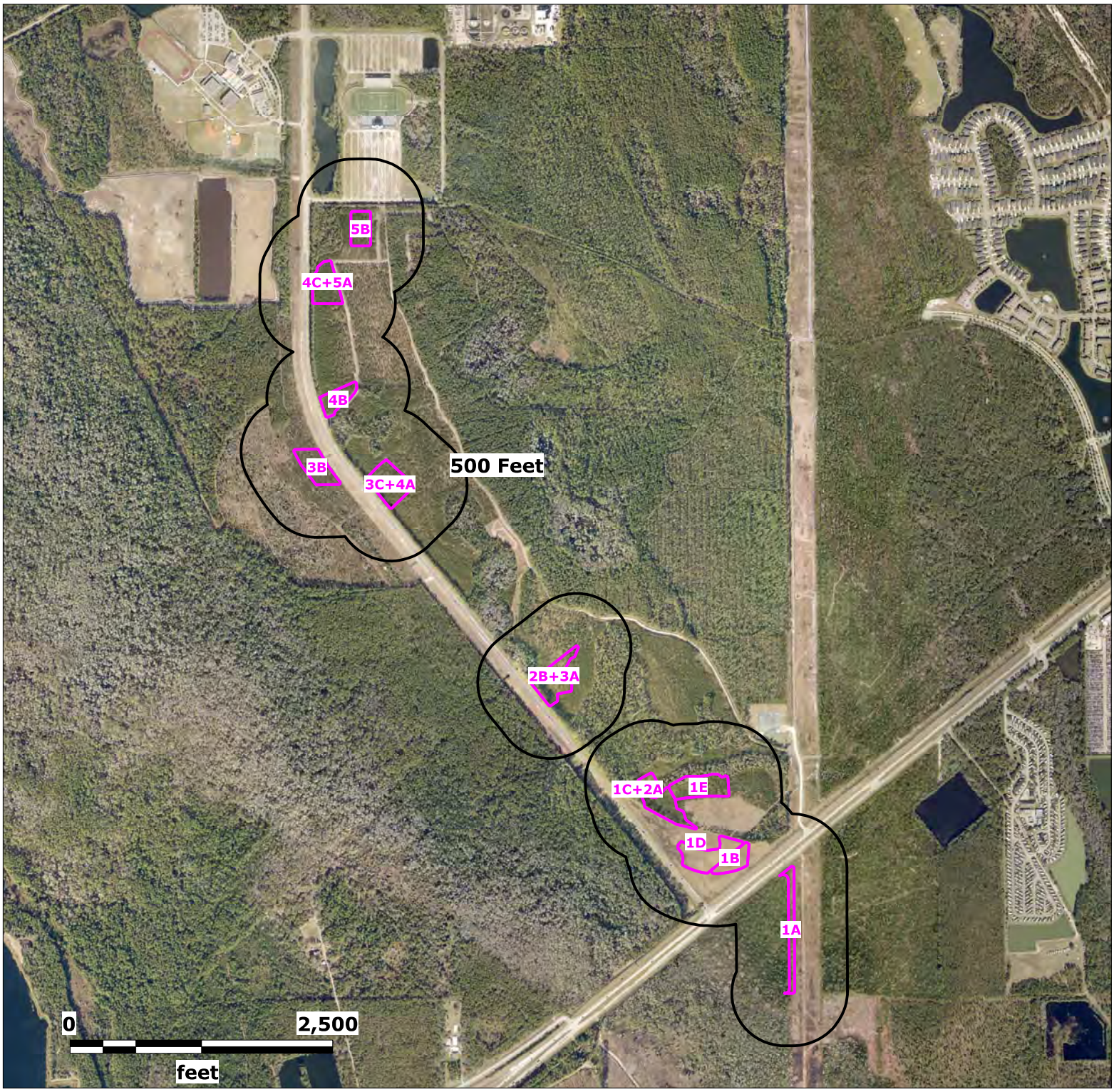
EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
2021 Aerial Photo



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

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Volusia County, Florida

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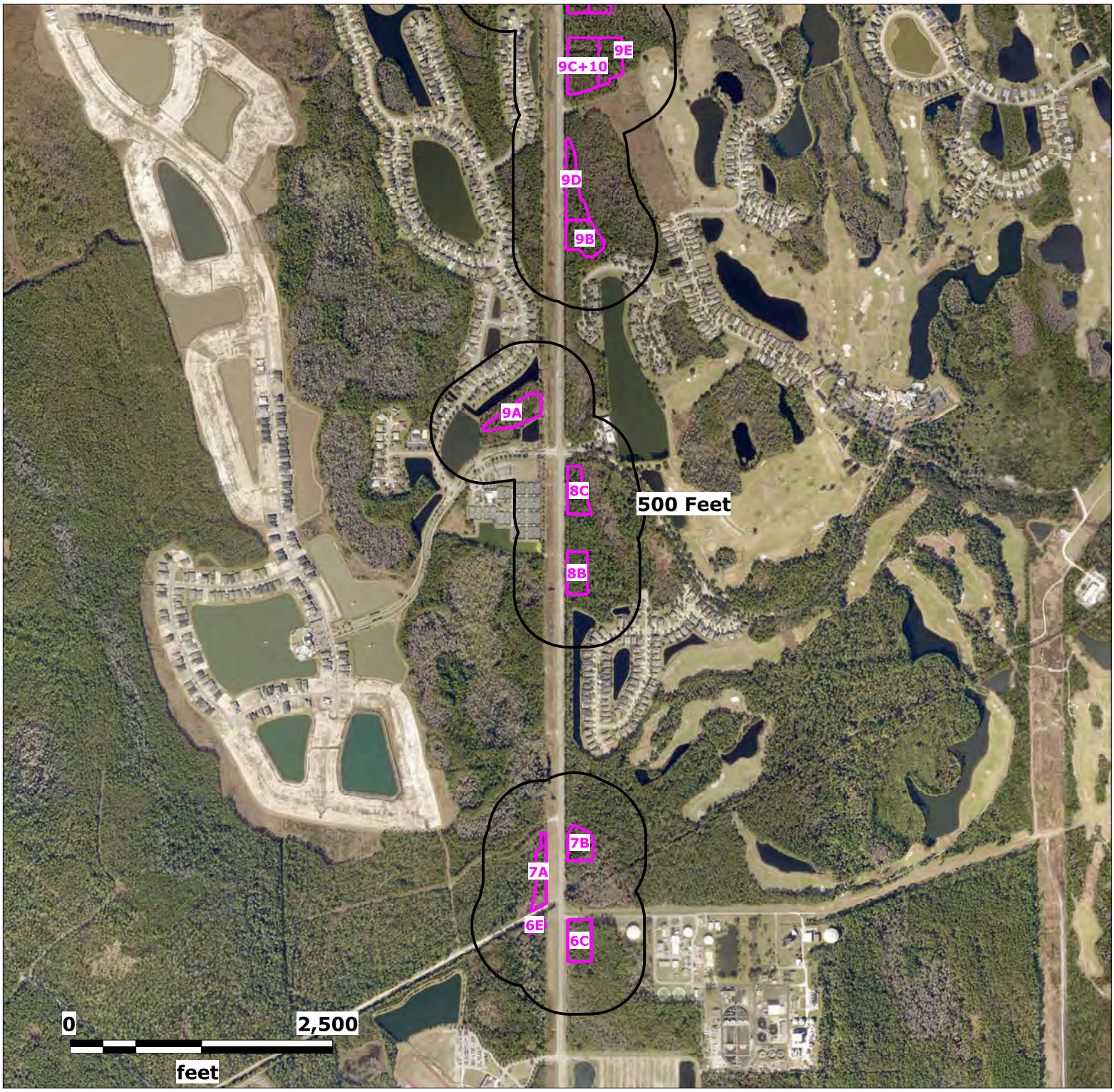
EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
2021 Aerial Photo



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

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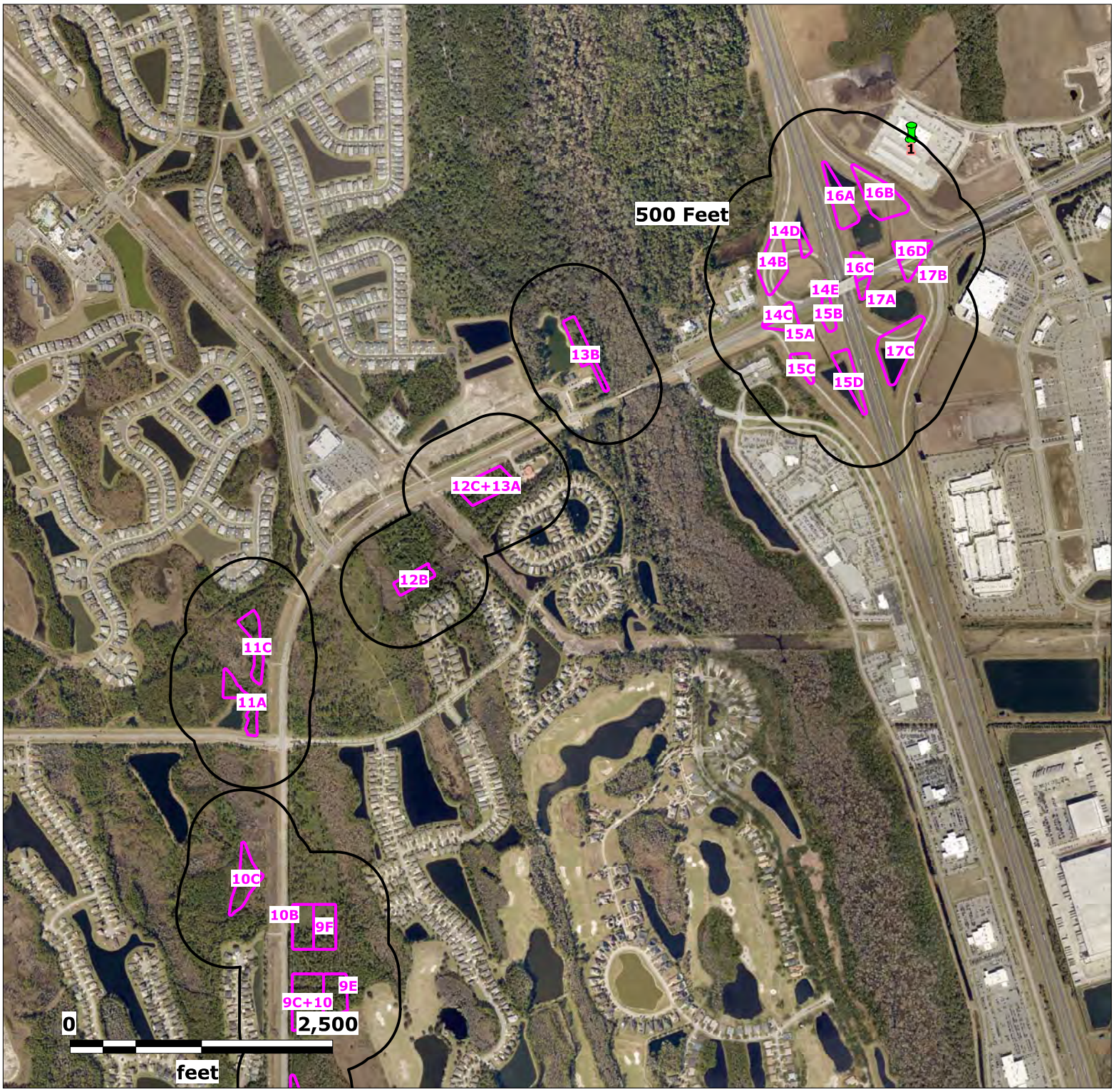
EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
2021 Aerial Photo



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

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to Williamson Boulevard PD&E Study
Volusia County, Florida

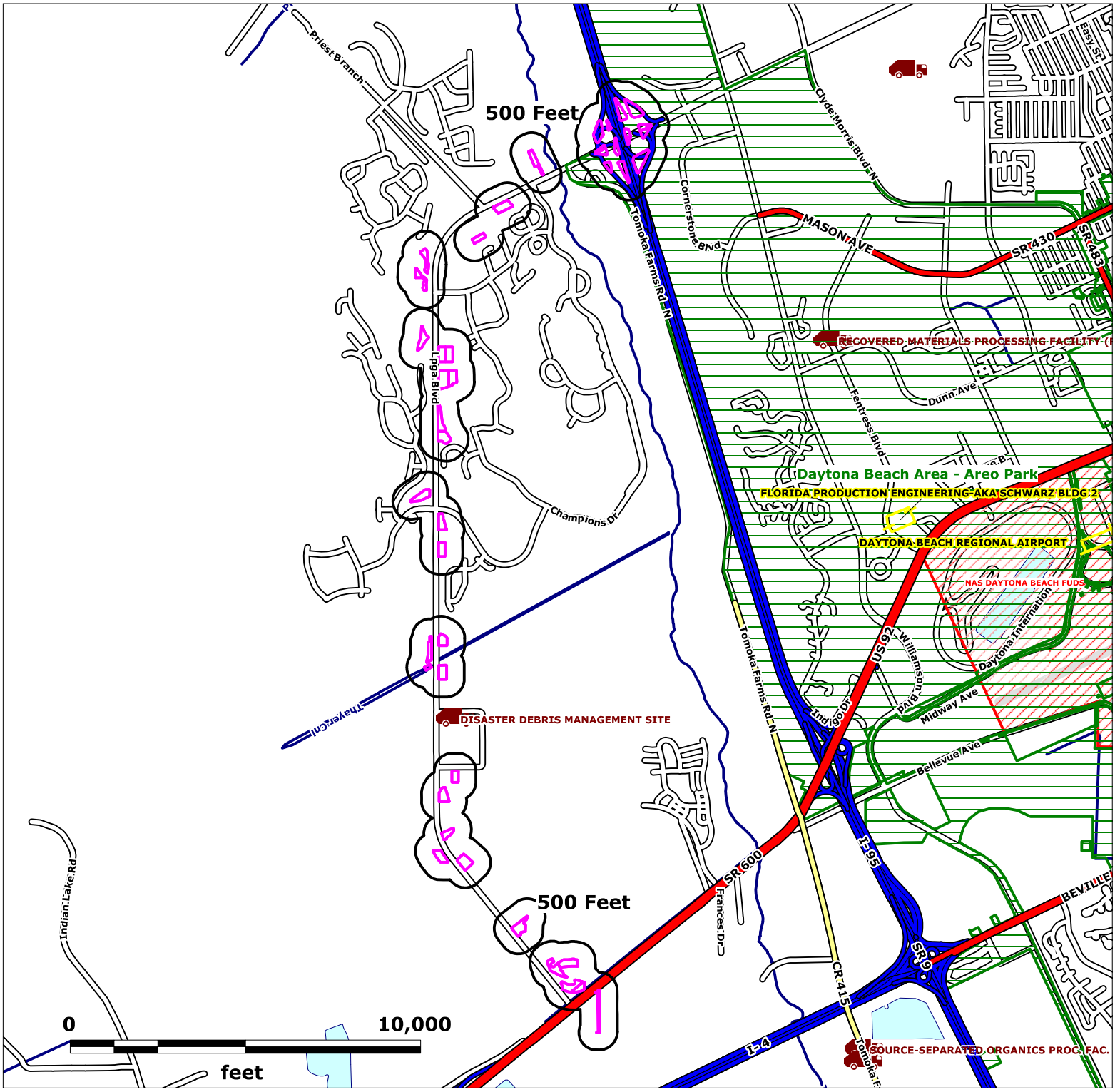
Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Approximate Site Boundary

Regulated Site

500 Feet Radius Research Report
Environmental Impact Areas Map



Source: FDEP and USEPA Geodata

Map Scale and Property Boundaries are Approximate

Subject Property

LPGA Boulevard from US 92 (SR 600) to Williamson Boulevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

- FDEP Brownfield Areas
- FDEP Brownfield Sites
- USEPA NPL & FDEP STNPL Sites
- FDEP Delineated GW Contamination
- Formerly Used Defense Sites FUDS
- FUDS Munitions Response Areas
- FDEP Cattle Dipping Vat
- FDEP Solid Waste Sites
- Approximate Site Boundary
- Institutional Controls

ENVIRONMENTAL DATA MANAGEMENT

500 Feet Radius Research

Site Summary Table

Report Date: 3/14/2023

MapID / Prgm List	Fac ID No	Site Dist (ft)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1						
TANKS	9817837	421	0.00	-	BUC-EES #47	2330 GATEWAY N DR DAYTONA BEACH, FL 32117

FDEP STORAGE TANKS REPORT

Report Date: 3/14/2023

(TANKS)

FACILITY ID NUMBER, NAME AND LOCATION

9817837
BUC-EES #47
2330 GATEWAY N DR
DAYTONA BEACH, FL 32117

OWNERSHIP INFORMATION

BUC-EES FLORIDA LLC
327 FM 2004 RD
LAKE JACKSON, TX 77566
CONTACT: JASON HARRIS / JEFF NADAL/34677422

SITE COUNTY: 64 VOLUSIA
SITE LAT/LON (AGCY): /

MAP ID NUMBER: 1
Dist (FEET): 421.00
Direction:
Elev (Ft): 0.00
Elev vs Sub Prop: -

TANKS

FDEP INFORMATION PORTAL ON LINE DOCUMENTS **(May Not Be Available For All Records)**

FAC STATUS: OPEN **FAC TYPE:** Retail Station

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
1	40000	01-Apr-2020	Ethanol E10	UNDERGROUND	IN SERVICE 01-Apr-2020

CONSTRUCTION TYPE: EIMNOP — FIBERGLASS/DOUBLE WALL/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK — FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 12345FGK — CONTINUOUS ELECTRONIC SENSING/VISUAL INSPECT PIPE SUMPS/ELECTRONIC MONITOR PIPE SUMPS/VISUAL INSPECT DISPENSER LINERS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/ELECTRONIC LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
2	40000	01-Apr-2020	Ethanol E10	UNDERGROUND	IN SERVICE 01-Apr-2020

CONSTRUCTION TYPE: EILMNOP — FIBERGLASS/DOUBLE WALL/COMPARTMENTED/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK — FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 12345FGK — CONTINUOUS ELECTRONIC SENSING/VISUAL INSPECT PIPE SUMPS/ELECTRONIC MONITOR PIPE SUMPS/VISUAL INSPECT DISPENSER LINERS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/ELECTRONIC LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
3	40000	01-Apr-2020	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Apr-2020

CONSTRUCTION TYPE: EILMNOP — FIBERGLASS/DOUBLE WALL/COMPARTMENTED/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK — FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 1345FGK — CONTINUOUS ELECTRONIC SENSING/ELECTRONIC MONITOR PIPE SUMPS/VISUAL INSPECT DISPENSER LINERS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/ELECTRONIC LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
4	40000	01-Apr-2020	Ethanol E10	UNDERGROUND	IN SERVICE 01-Apr-2020

CONSTRUCTION TYPE: EILMNOP — FIBERGLASS/DOUBLE WALL/COMPARTMENTED/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK — FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 12345FGK — CONTINUOUS ELECTRONIC SENSING/VISUAL INSPECT PIPE SUMPS/ELECTRONIC MONITOR PIPE SUMPS/VISUAL INSPECT DISPENSER LINERS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/ELECTRONIC LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
5	40000	01-Apr-2020	Ethanol E10	UNDERGROUND	IN SERVICE 01-Apr-2020

CONSTRUCTION TYPE: EILMNOP — FIBERGLASS/DOUBLE WALL/COMPARTMENTED/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK — FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 12345FGK — CONTINUOUS ELECTRONIC SENSING/VISUAL INSPECT PIPE SUMPS/ELECTRONIC MONITOR PIPE SUMPS/VISUAL INSPECT DISPENSER LINERS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/ELECTRONIC LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

FDEP STORAGE TANKS REPORT

(TANKS)

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
6	40000	01-Apr-2020	Vehicular Diesel	UNDERGROUND	IN SERVICE 01-Apr-2020

CONSTRUCTION TYPE:	EILMNOP	FIBERGLASS/DOUBLE WALL/COMPARTMENTED/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS
PIPING TYPE:	CFJK	FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS
LEAK MONITORING:	12345FGK	CONTINUOUS ELECTRONIC SENSING/VISUAL INSPECT PIPE SUMPS/ELECTRONIC MONITOR PIPE SUMPS/VISUAL INSPECT DISPENSER LINERS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/ELECTRONIC LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

ENVIRONMENTAL DATA MANAGEMENT

500 Feet Radius Research

Proximal Site Summary Table

This table includes mapped sites whose plotted coordinates fall just outside of the ASTM or client defined research distance but whose property boundaries may still extend into the search area. These sites are typically large commercial or industrial tracts that may merit inclusion in the evaluation process. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

MapID Prgm List	Fac ID No	Site Dist (ft)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1A						
STCERC	5662	949	30.45	Higher	Daytona Beach Stadium Site Part A-1900	LPGA Boulevard Daytona Beach, FL 32114
STCERC	ERIC_5662	949	30.45	Higher	Daytona Beach Stadium Site Part A-1900	LPGA Boulevard Daytona Beach, FL 32114
2A						
LUST	8622691	715	30.01	Higher	DAYTONA BEACH CITY WWTP-WESTSIDE REGIONAL	3651 LPGA BLVD DAYTONA BEACH, FL 32117
LUST	8631486	715	30.01	Higher	DAYTONA BEACH CITY-BRENNA WTP	3651 LPGA BLVD DAYTONA BEACH, FL 32117
STCERC	5872	715	30.01	Higher	City of Daytona Beach Wastewater Treatment Facility Part A-1993	3651 Lpga Blvd Daytona Beach, FL 32124
STCERC	8622691	715	30.01	Higher	DAYTONA BEACH CITY WWTP-WESTSIDE REGIONAL	3651 LPGA BLVD DAYTONA BEACH, FL 32117
STCERC	ERIC_5872	715	30.01	Higher	City of Daytona Beach Wastewater Treatment Facility Part A-1993	3651 Lpga Blvd Daytona Beach, FL 32124
TANKS	8622691	715	30.01	Higher	DAYTONA BEACH CITY WWTP-WESTSIDE REGIONAL	3651 LPGA BLVD DAYTONA BEACH, FL 32117
TANKS	8631486	715	30.01	Higher	DAYTONA BEACH CITY-BRENNA WTP	3651 LPGA BLVD DAYTONA BEACH, FL 32117
3A						
TANKS	9816708	636	27.07	Higher	SAMS CLUB #8138	1460 CORNERSTONE BLVD DAYTONA BEACH, FL 32114

ENVIRONMENTAL DATA MANAGEMENT

500 Feet Radius Research

Non-Mapped Records Summary Table

This table is a listing of database records that have not been plotted within our mapping system. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Prgm List Fac ID No	Site Name	Site Address

Agency List Descriptions

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

Florida Department of Environmental Protection (FDEP)

State Designated Brownfields(BRWNFLDS)

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

Agency File Date: 12/8/2022 **Received by EDM:** 12/28/2022 **EDM Database Updated:** 12/28/2022

Dry Cleaners List(DRY)

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

Agency File Date: 12/22/2022 **Received by EDM:** 12/28/2022 **EDM Database Updated:** 12/28/2022

Institutional and/or Engineering Controls(INSTENG)

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

Agency File Date: 10/27/2022 **Received by EDM:** 11/1/2022 **EDM Database Updated:** 11/1/2022

Leaking Underground Storage Tanks List(LUST)

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

Agency File Date: 11/1/2022 **Received by EDM:** 11/1/2022 **EDM Database Updated:** 11/1/2022

Solid Waste Facilities List_Landfills(SLDWST_LF)

The SLDWST_LF list identifies locations that have conducted solid waste landfill activities as determined by the applicable FDEP Facility Classifications. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 12/28/2022 **Received by EDM:** 12/28/2022 **EDM Database Updated:** 12/29/2022

State CERCLIS/SEMS Equivalent(STCERC)

The STCERC list is compiled from the FDEP Site Investigation Section list, the Florida SITES list(historical) and the FDEP Cleanup Sites list. These sites are being assessed and/or cleaned up as a result of identified or suspected contamination from the release of hazardous substances. The FDEP Cleanup Sites list programs include: Brownfields, Petroleum, EPA Superfund (CERCLA), Drycleaning, Responsible Party Cleanup, State Funded Cleanup, State Owned Lands Cleanup and Hazardous Waste Cleanup.

Agency File Date: 8/19/2022 **Received by EDM:** 8/19/2022 **EDM Database Updated:** 8/19/2022

State NPL Equivalent(STNPL)

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 9/6/2022 **Received by EDM:** 10/4/2022 **EDM Database Updated:** 10/4/2022

Underground/Aboveground Storage Tanks(TANKS)

The FDEP TANKS list contains sites with registered aboveground and underground storage tanks containing regulated petroleum products.

Agency File Date: 2/6/2023 **Received by EDM:** 2/6/2023 **EDM Database Updated:** 2/10/2023

Voluntary Cleanup List(VOLCLNUP)

The VOLCLNUP List is derived from the FDEP Brownfields Site Rehabilitation Agreement (BSRA) database, the FDEP ERIC Waste Cleanup database and the FDEP Office of Waste Cleanup Responsible Party Sites database (not available as of June 2021). The VOLCLNUP List identifies sites that have signed an agreement to Voluntarily cleanup a site and/or sites where legal responsibility for site rehabilitation exists pursuant to Florida Statutes and is being conducted either voluntarily or pursuant to enforcement activity.

Agency File Date: 12/21/2022 **Received by EDM:** 12/29/2022 **EDM Database Updated:** 12/29/2022

United States Environmental Protection Agency (EPA)

Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are proposed to be on the NPL, are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 11/12/2013 **Received by EDM:** 2/18/2016 **EDM Database Updated:** 2/18/2016

RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity.

Agency File Date: 1/16/2023 **Received by EDM:** 1/19/2023 **EDM Database Updated:** 1/19/2023

Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site. The NFRAP database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS) .

Agency File Date: 10/25/2013 **Received by EDM:** 2/18/2016 **EDM Database Updated:** 2/18/2016

National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL Report includes sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list. Previously, information for the NPL was managed under the CERLIS data management system. In 2014 this system was replaced with the Superfund Enterprise Management System (SEMS). EPA last updated CERCLIS in November of 2013. EDM's NPL Report contains available SEMS data and the archived CERCLIS data relative to NPL sites.

Agency File Date: 2/27/2023 **Received by EDM:** 2/27/2023 **EDM Database Updated:** 2/28/2023

NPL Liens List(NPLLIENS)

The US EPA NPL Liens List identifies those sites where under authority granted by CERCLA, liens have been filed against real property in order to recover expenditures from remedial action or when the property owner receives a notice of potential liability.

Agency File Date: 2/21/2023 **Received by EDM:** 2/28/2023 **EDM Database Updated:** 2/28/2023

SEMS Active Site Inventory List(SEMSACTV)

The US EPA Superfund Enterprise Management System (SEMS) tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. The SEMSACTV list contains sites that are on the National Priorities List (NPL) as well as sites that are prosposed for or in the screening and assessment phase for possible inclusion on the NPL. SEMS has replaced the CERCLIS database, which was retired in November of 2013.

Agency File Date: 12/22/2022 **Received by EDM:** 1/19/2023 **EDM Database Updated:** 1/19/2023

SEMS Archived Site Inventory List(SEMSARCH)

The US EPA Superfund Enterprise Management System (SEMS), contains archived data of CERCLIS or SEMS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. These sites may be reviewed in the future to determine if they should be returned to SEMS based upon newly identified contamination problems at the site. SEMS has replaced the CERCLIS database, which was retired in November of 2013. The SEMSARCH database contains these newly archived records under the SEMS database management system.

Agency File Date: 12/22/2022 **Received by EDM:** 1/19/2023 **EDM Database Updated:** 1/19/2023

Tribal Lust List(TRIBLLUST)

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

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

Tribal Tanks List(TRIBLTANKS)

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

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

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

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

Agency File Date: 12/26/2022 **Received by EDM:** 12/30/2022 **EDM Database Updated:** 12/30/2022

Brownfields Management System(USBRWNFLDS)

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

Agency File Date: 1/3/2023 **Received by EDM:** 1/3/2023 **EDM Database Updated:** 1/13/2023

Institutional and/or Engineering Controls(USINSTENG)

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

Agency File Date: 1/17/2023 **Received by EDM:** 1/17/2023 **EDM Database Updated:** 1/17/2023

Environmental Impact Areas

Brownfield Areas and Sites

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

Agency File Date: 8/12/2022 **Received by EDM:** 8/15/2022 **EDM Database Updated:** 8/15/2022

https://floridadep.gov/waste/waste-cleanup/content/brownfields-program

Cattle Dipping Vats

From the 1910's through the 1950's, vats were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT where also widely used. By State law, all cattle, horses, mules, goats, and other susceptible animals were required to be dipped every 14 days. Under certain circumstances, the arsenic and other pesticides remaining at the site may present an environmental or public health hazard.

Some of the sites have been located and are currently under investigation. However, most of the listings are from old records of the State Livestock Board, which listed each vat as it was put into operation. In addition, some privately operated vats may have existed which were not listed by the Livestock Board. EDM's Cattle Dipping Vat sites are retrieved from the Voluntary Cleanup and STCERC datablases. For additional information on Cattle Dipping Vats visit the FDEP and FDOH websites at:

Agency File Date: 10/31/2018 **Received by EDM:** 1/25/2019 **EDM Database Updated:** 1/25/2019

https://floridadep.gov/waste/district-business-support/content/cattle-dipping-vats-cdv

http://www.floridahealth.gov/environmental-health/drinking-water/cattledipvathome.html

Formerly Used Defense Sites

The DoD is responsible for the environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and operated under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. For more information on the FUDS Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/29/2018 **Received by EDM:** 1/25/2019 **EDM Database Updated:** 1/25/2019

http://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/

FUDS Munitions Response Sites

The DoD developed the Military Munitions Response Program (MMRP) in 2001 to addresses munitions-related concerns, including explosive safety, environmental, and health hazards from releases of unexploded ordnance (UXO), discarded military munitions (DDM), and munitions constituents (MC) found at locations, other than operational ranges, on active and Base Realignment and Closure (BRAC) installations and Formerly Used Defense Sites (FUDS) properties. The MMRP addresses non-operational range lands with suspected or known hazards from munitions and explosives of concern (MEC) which occurred prior to September 2002, but are not already included with an Installation Response Program (IRP) site cleanup activity. For more information on the FUDS MMRP Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/14/2018 **Received by EDM:** 1/25/2019 **EDM Database Updated:** 1/25/2019

http://www.asaie.army.mil/Public/ESOH/mmrp.html

Groundwater Contamination Areas

The Ground Water Contamination Areas GIS layer is a statewide map showing the boundaries of delineated areas of known groundwater contamination pursuant to Chapter 62-524, F.A.C., New Potable Water Well Permitting In Delineated Areas. 38 Florida counties have been delineated primarily for the agricultural pesticide ethylene dibromide (EDB), and to a much lesser extent, volatile organic and petroleum contaminants. This GIS layer represents approximately 427,897 acres in 38 counties in Florida that have been delineated for groundwater contamination. However, it does not represent all known sources of groundwater contamination for the state of Florida.

This information is intended to be used by regulatory agencies issuing potable water well construction permits in areas of ground water contamination to protect public health and the ground water resource. Permitted water wells in these areas must meet specific well construction criteria and water testing prior to well use. This dataset only indicates the presence or absence of specific groundwater contaminants and does not represent all known sources of groundwater contamination in the state of Florida.

Agency File Date: 8/15/2022 **Received by EDM:** 8/15/2022 **EDM Database Updated:** 9/7/2022

https://floridadep.gov/water/source-drinking-water/content/delineated-areas

Institutional Controls

The FDEP Institutional Controls GIS layer is a statewide map showing the approximate boundaries of delineated areas where Institutional Controls are in place.

An institutional control provides for certain restrictions on a property. For example, a site may be cleaned up to satisfy commercial contamination target levels and an institutional control may be placed on that property indicating that it may only be used for commercial activities. If the owner of the property ever wanted to use that property for residential purposes, the owner would have to ensure that any contamination meets residential target levels.

The locational data for this layer is provided by the responsible party and reviewed by FDEP staff. Neither FDEP or EDM assumes respondibility for the accuracy of the boundary data.

Agency File Date: 10/27/2022 **Received by EDM:** 11/1/2022 **EDM Database Updated:** 11/1/2022

https://ca.dep.state.fl.us/mapdirect/?webmap=cff8d21797184421ab4763d3e4a01e48

National Priorities List

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL site boundaries data include sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list.

Agency File Date: 11/14/2018 **Received by EDM:** 12/10/2018 **EDM Database Updated:** 1/22/2019

https://www.epa.gov/superfund/search-superfund-sites-where-you-live

Solid Waste Facilities

The FDEP SLDWST list identifies locations that have been permitted to conduct solid waste handling activities.

Agency File Date: 8/15/2022 **Received by EDM:** 8/15/2022 **EDM Database Updated:** 8/15/2022

https://floridadep.gov/waste

State Funded Cleanup Sites

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 3/30/2021 **Received by EDM:** 3/31/2021 **EDM Database Updated:** 3/31/2021

https://floridadep.gov/waste/waste-cleanup/documents/state-funded-cleanup-program-site-list

Appendix C Historical Aerials

Historical Aerial Photograph Report

Subject Property:

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:

Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

March 15, 2023

Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770
(727) 586-1700
http://www.edm-net.com

March 15, 2023

Collin Duncan
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Historical Aerial Photos-- EDM Project #: 26457**
Client Project #: 448456-1-22-01

Dear Mr. Duncan:

Thank you for choosing Environmental Data Management, Inc. The following report contains a series of Historical Aerial Photographic images for the following location:

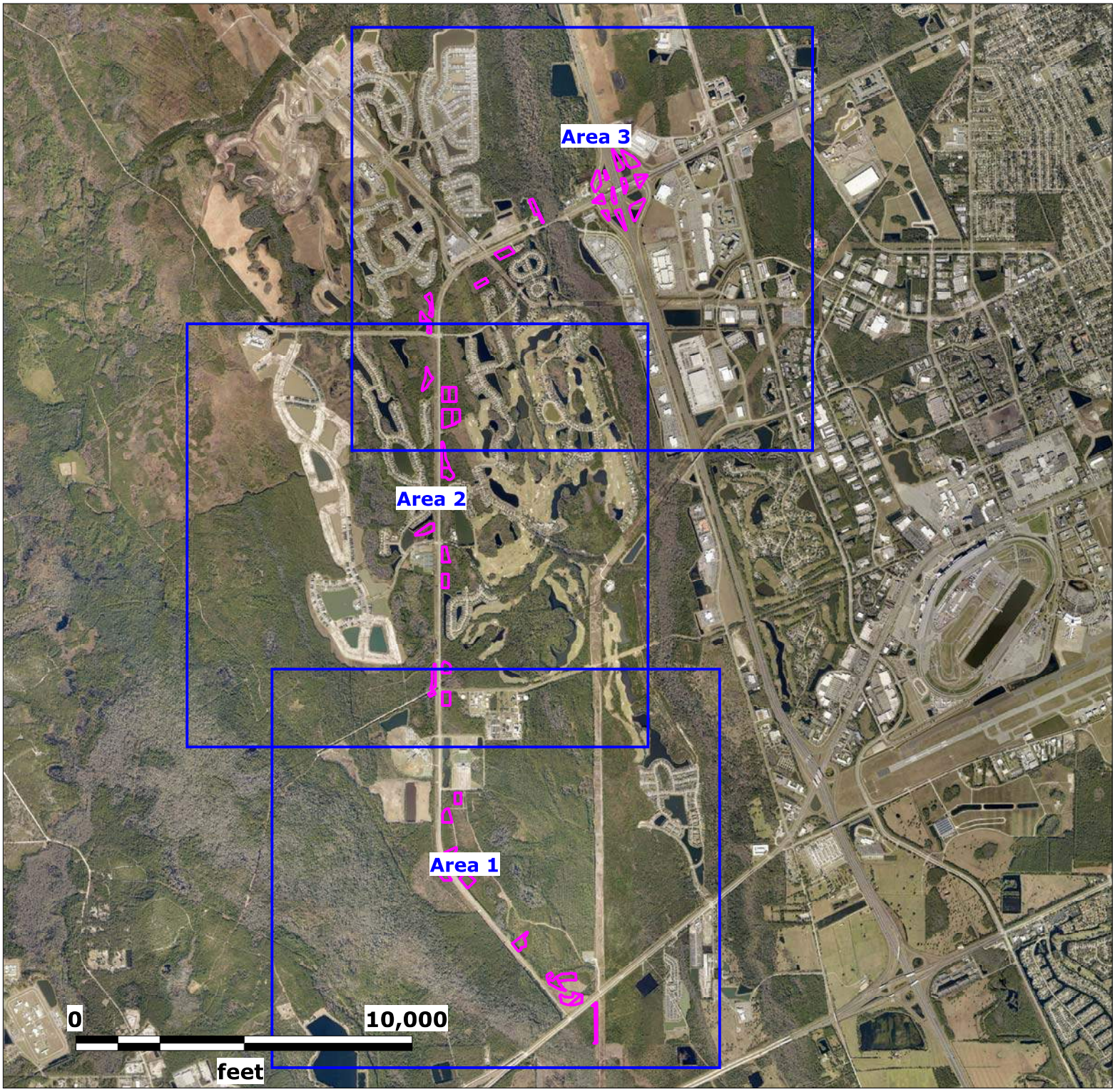
LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida

These images were selected to provide you with an aerial photographic record of this location at approximate ten year intervals and/or one photograph per decade, where available.

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Historical Aerial Photo Index Map



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

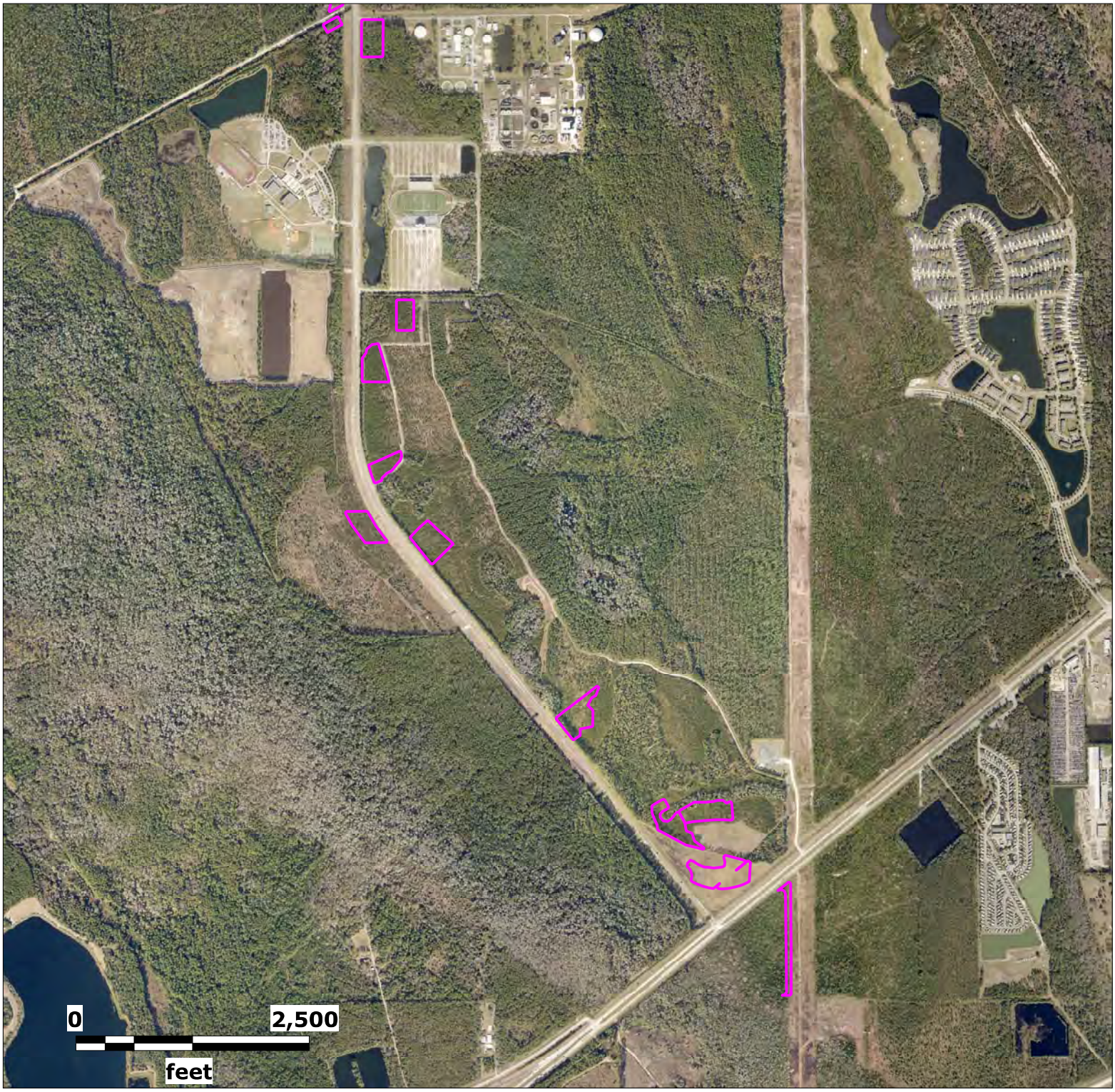
Approximate Site Boundary

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulvevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
2021



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

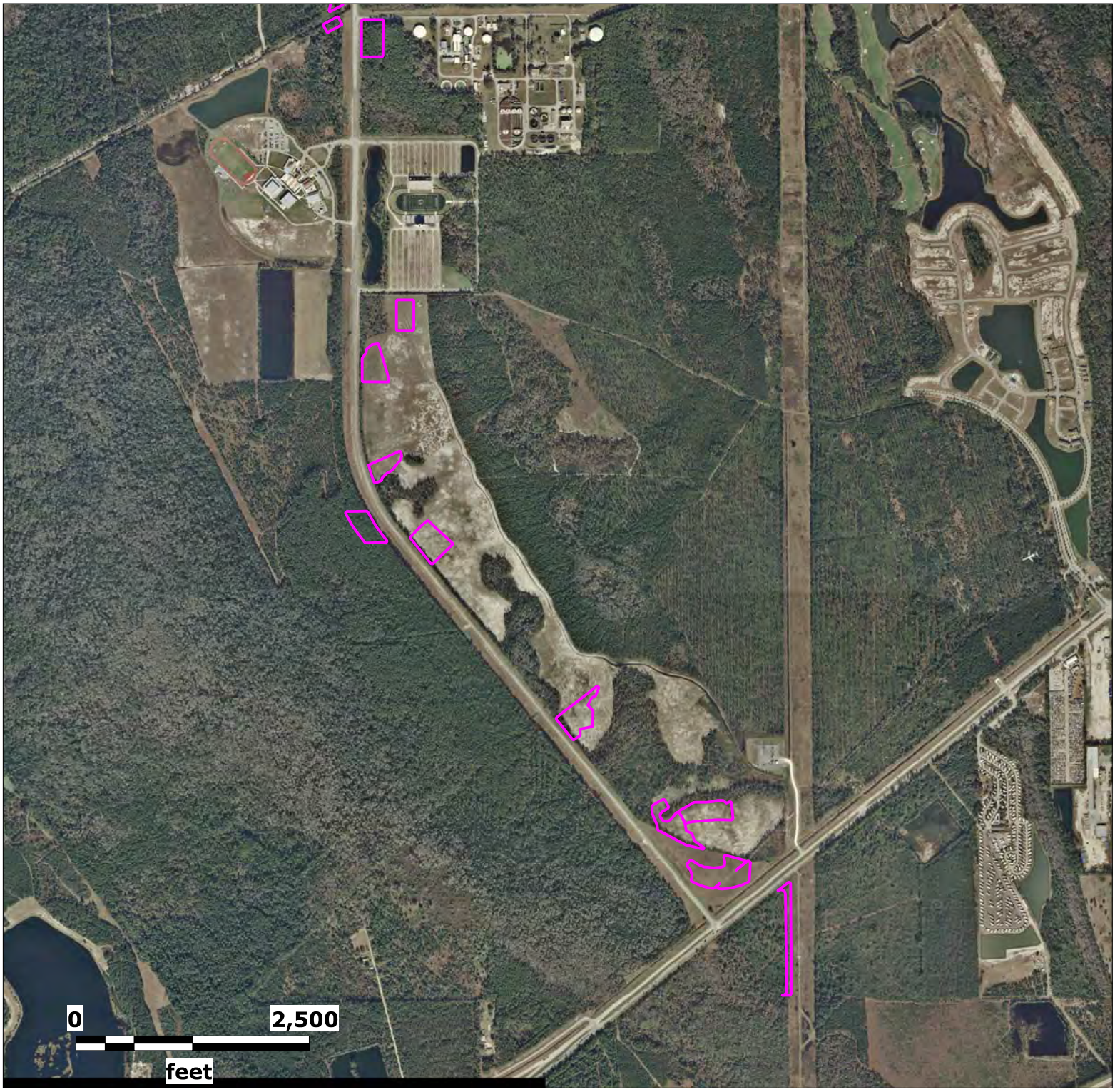
Approximate Site Location

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulvevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
2012



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

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to Williamson Boulvevard PD&E Study
Volusia County, Florida

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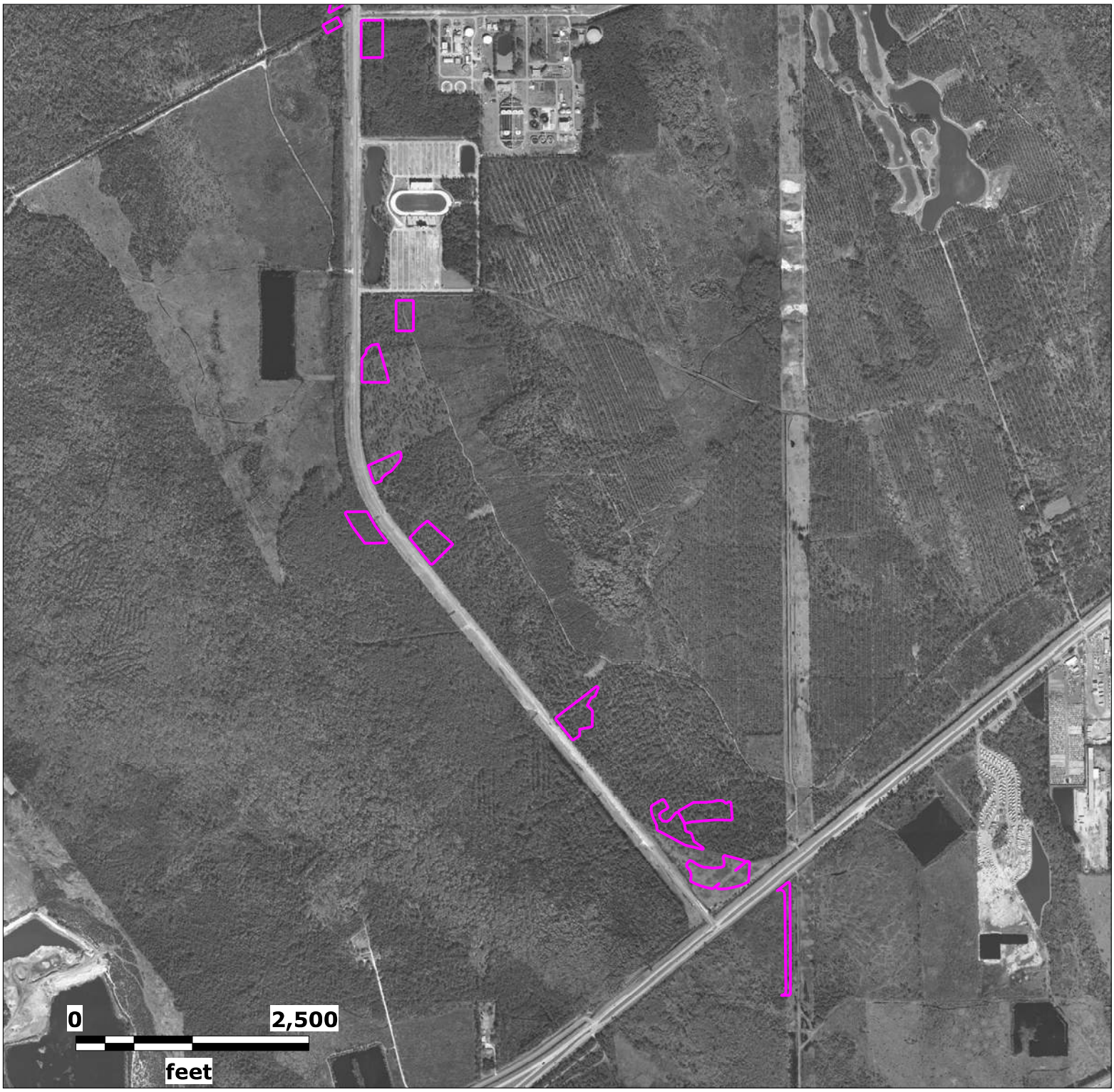
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
2003



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

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Volusia County, Florida

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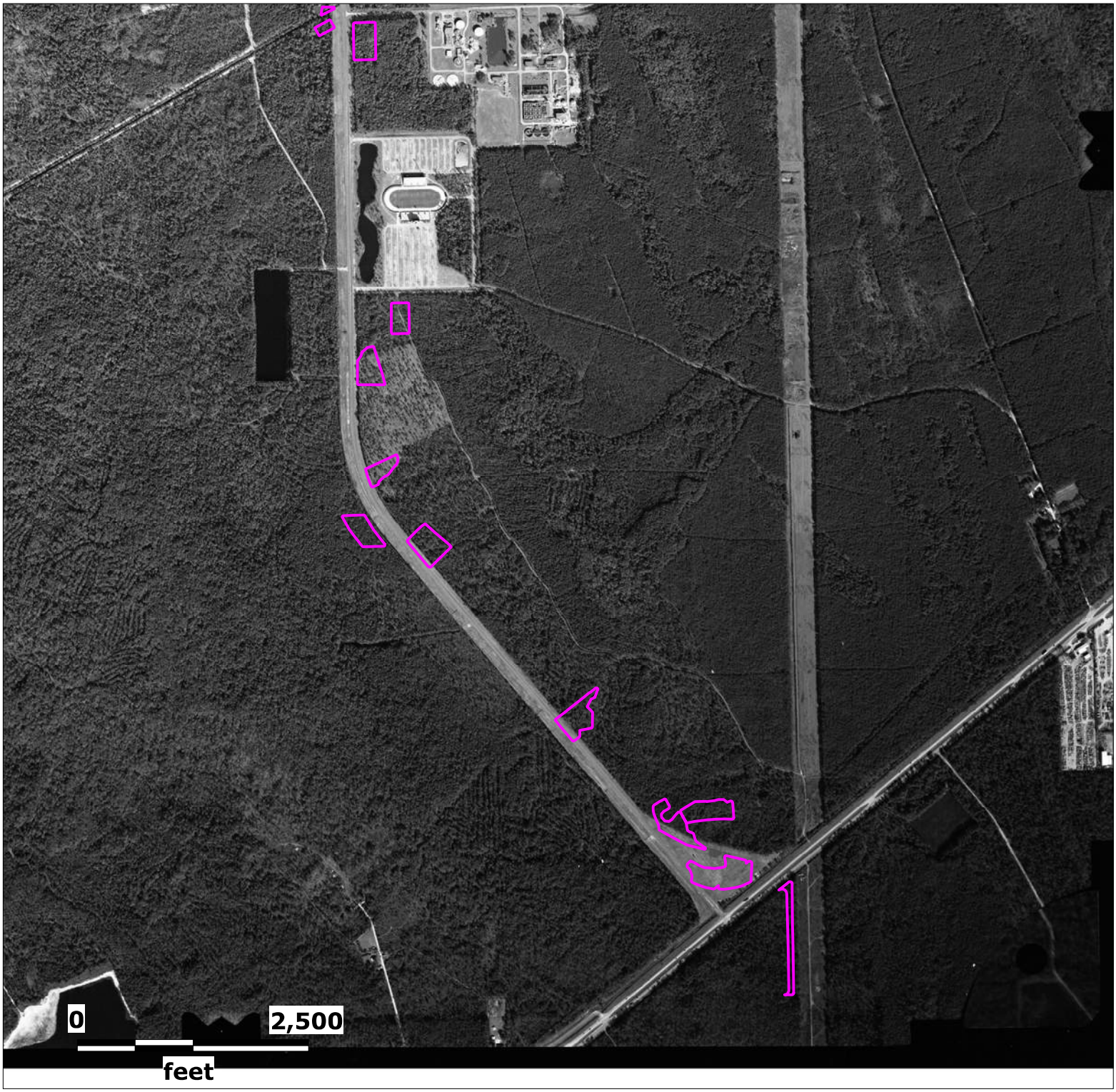
EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1992



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulvevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1984

Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

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Volusia County, Florida

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Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1976

Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

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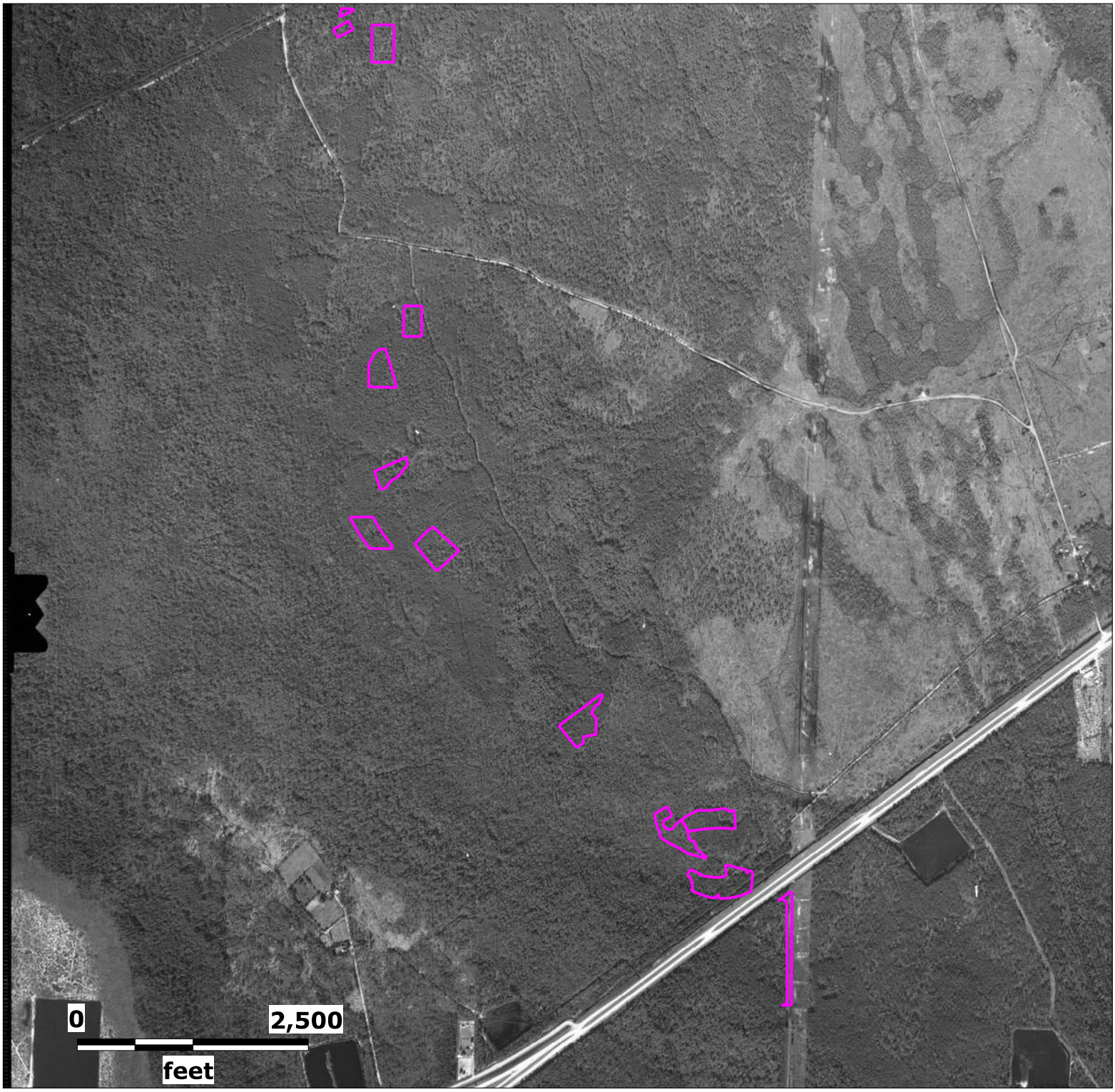
to Williamson Boulvevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1969



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

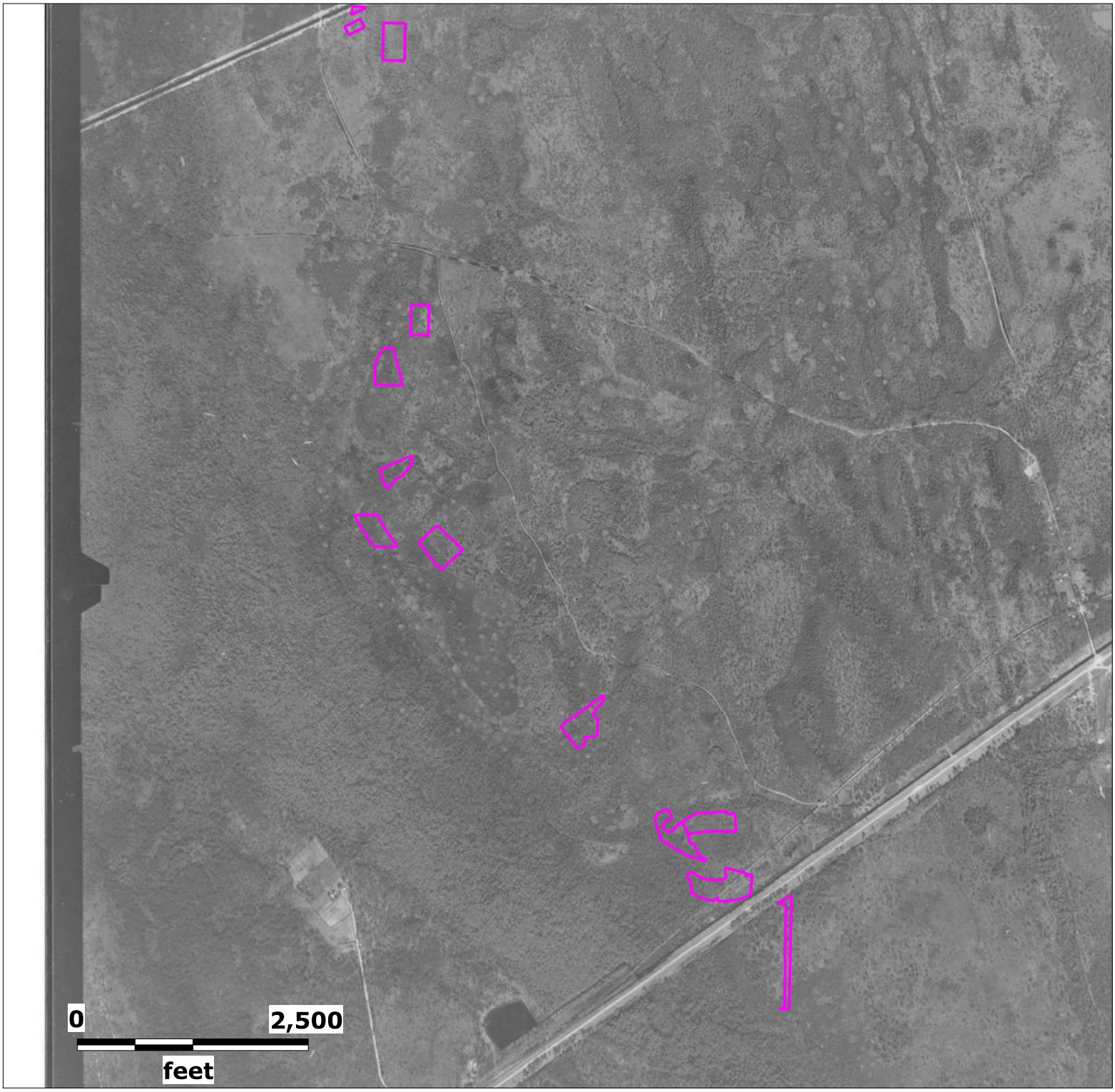
Approximate Site Location

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulvevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1958



Source: University of Florida

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

LPGA Boulevard from US 92 (SR 600)
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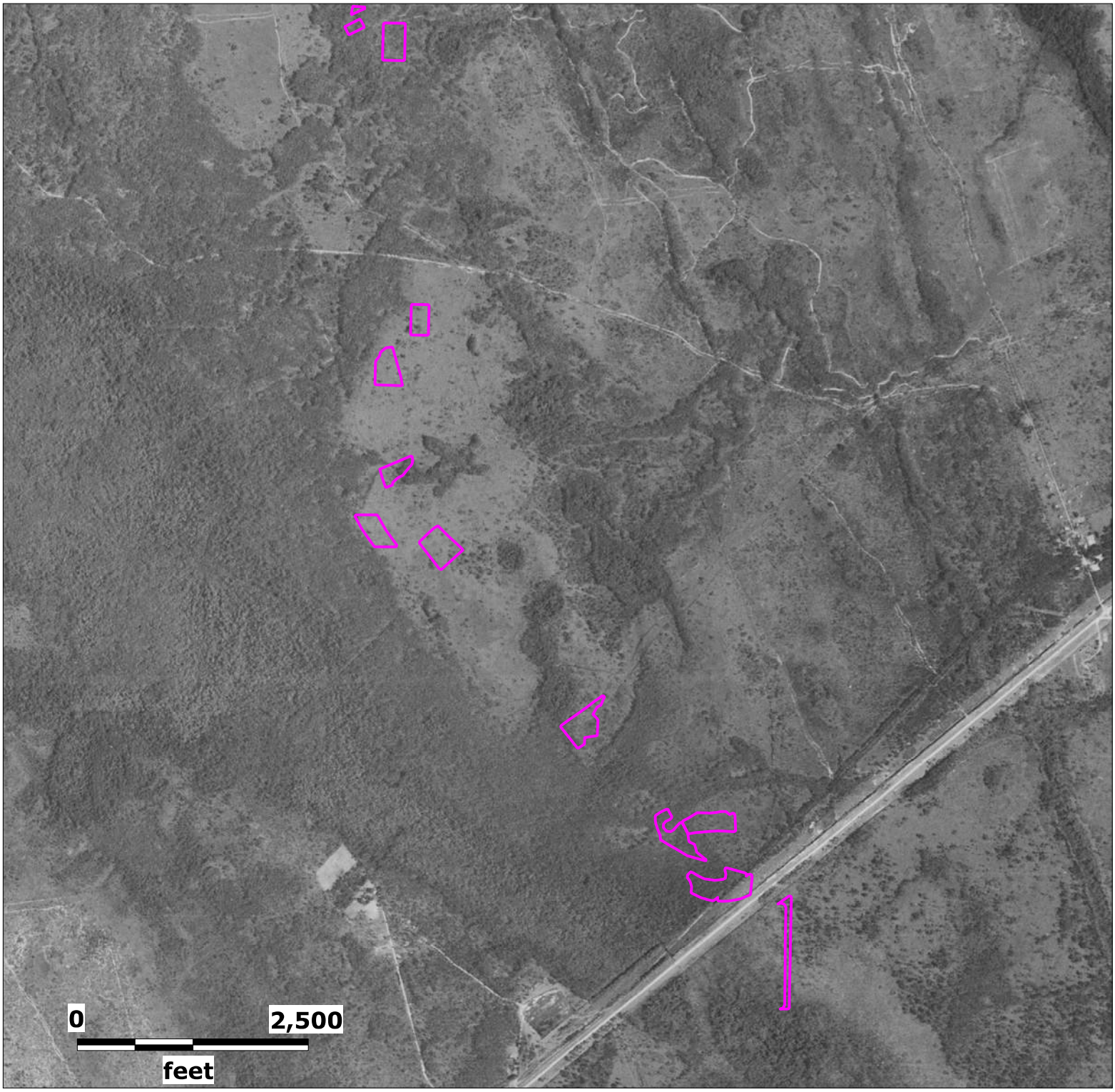
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1950



Source: University of Florida

Map Scale and Property Boundaries are Approximate

Subject Property

Approximate Site Location

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Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
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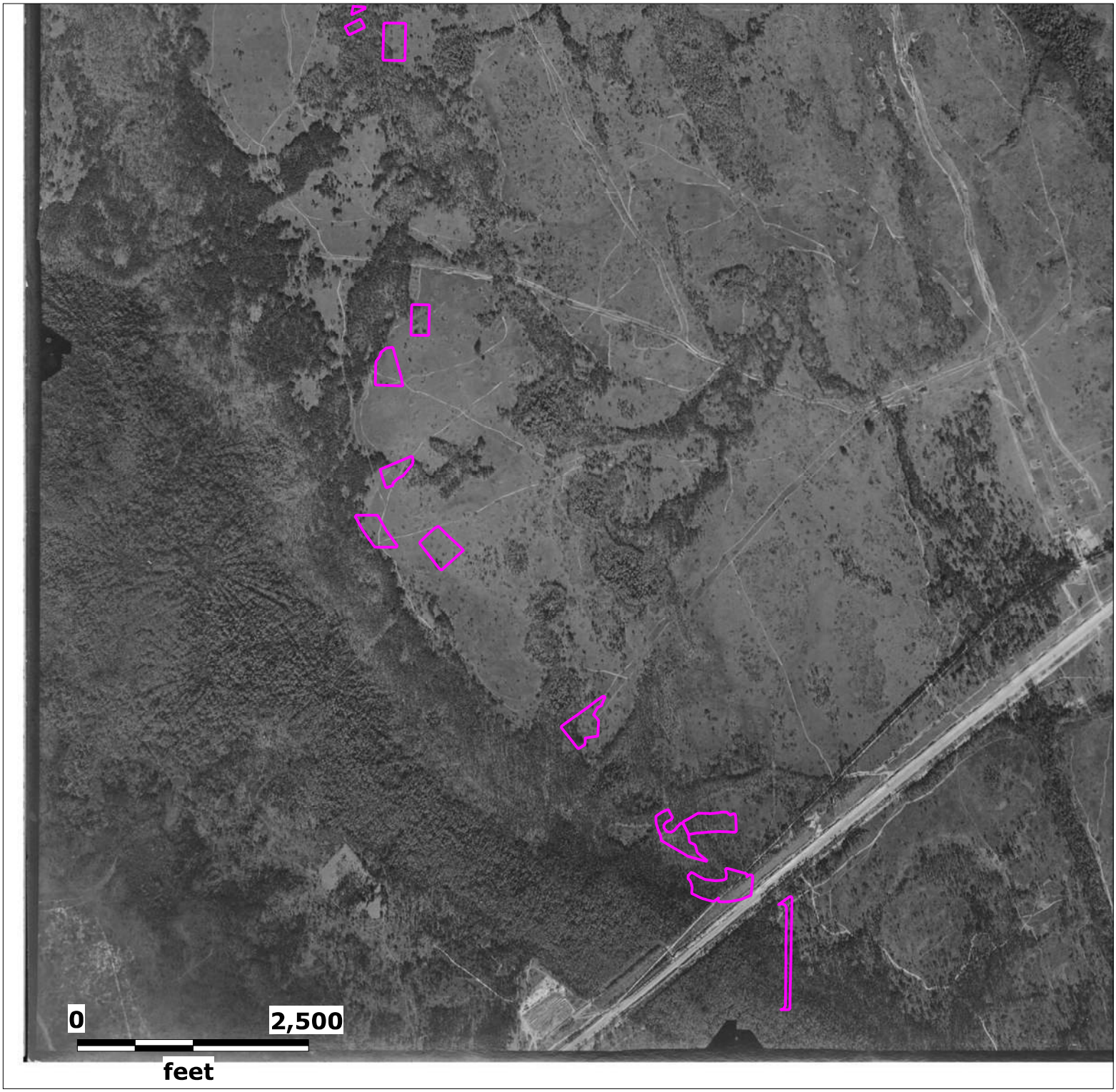
EDM Job No: 26457
March 14, 2023

Aerial Photo Image
1943



Source: University of Florida

Map Scale and Property Boundaries are Approximate

Subject Property

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EDM Job No: 26457
March 14, 2023

Aerial Photo Image
2021

Source: Florida Department of Transportation

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Subject Property

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EDM Job No: 26457
March 14, 2023

Aerial Photo Image
2012

Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

Subject Property

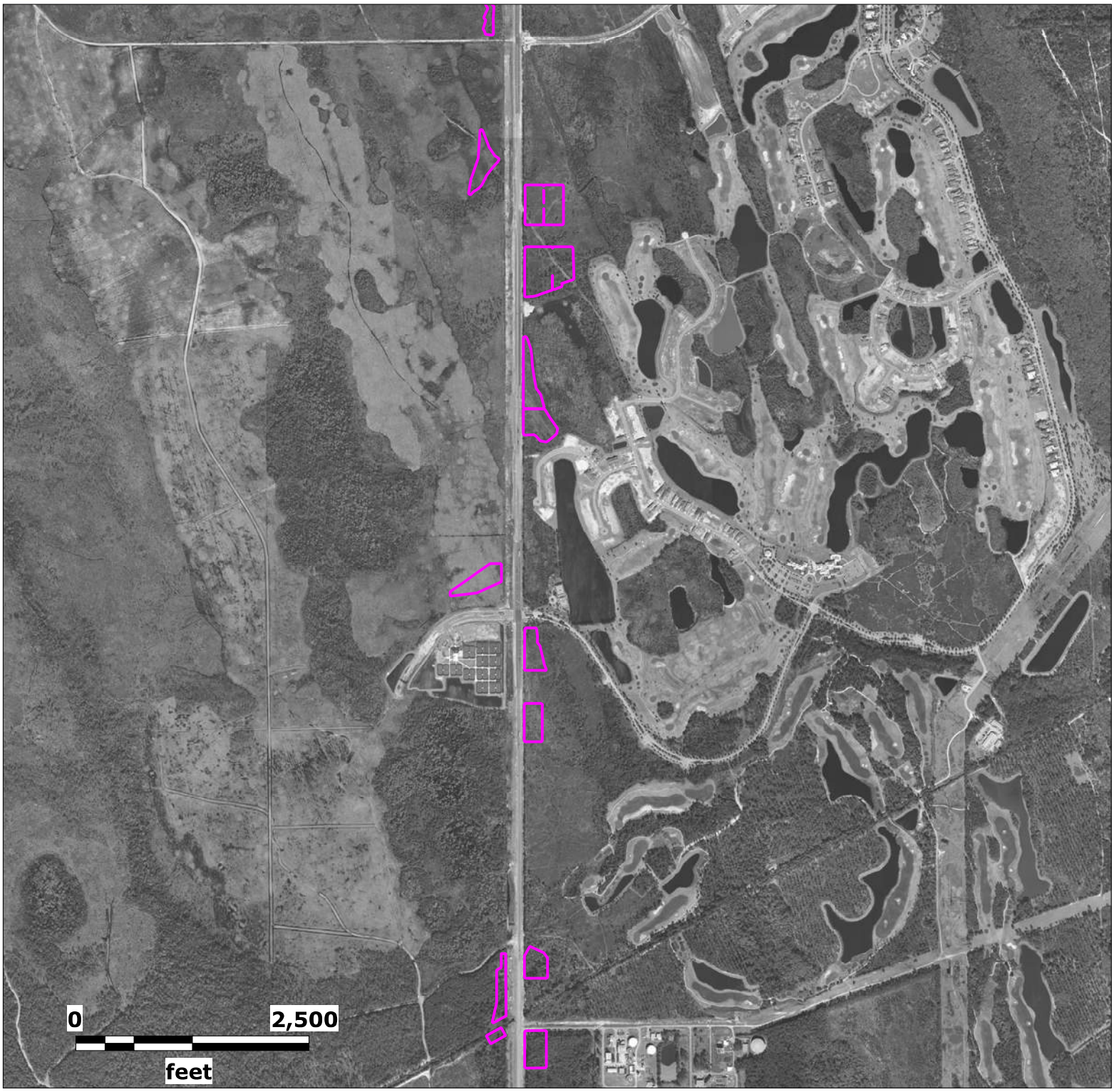
Approximate Site Location

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulvevard PD&E Study
Volusia County, Florida

Lat (DMS): 29 12' 4.3668"
Lon (DMS: -81 7' 7.3668"

EDM Job No: 26457
March 14, 2023

Aerial Photo Image
2003



Source: Florida Department of Transportation

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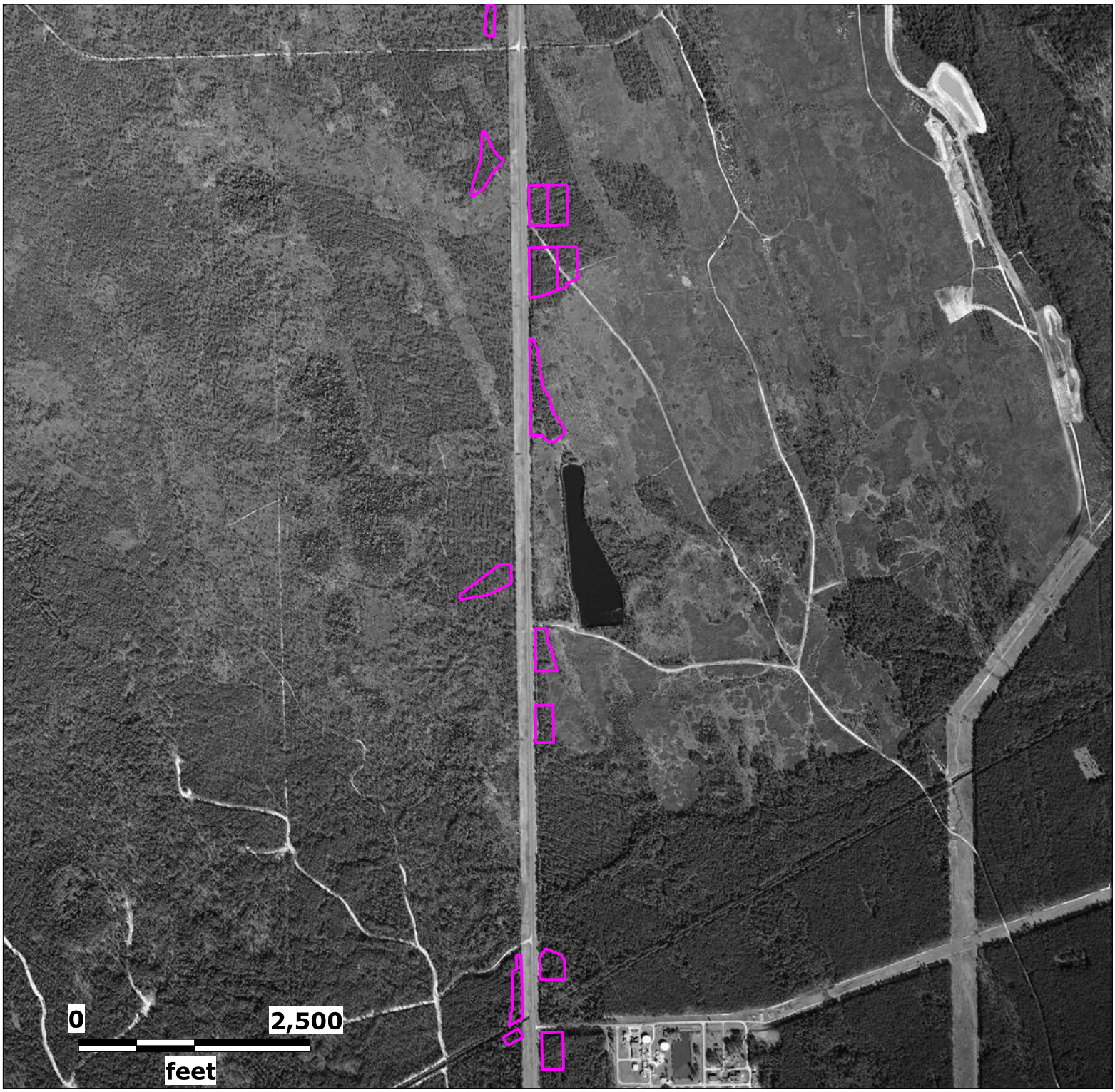
1992



Source: Florida Department of Transportation

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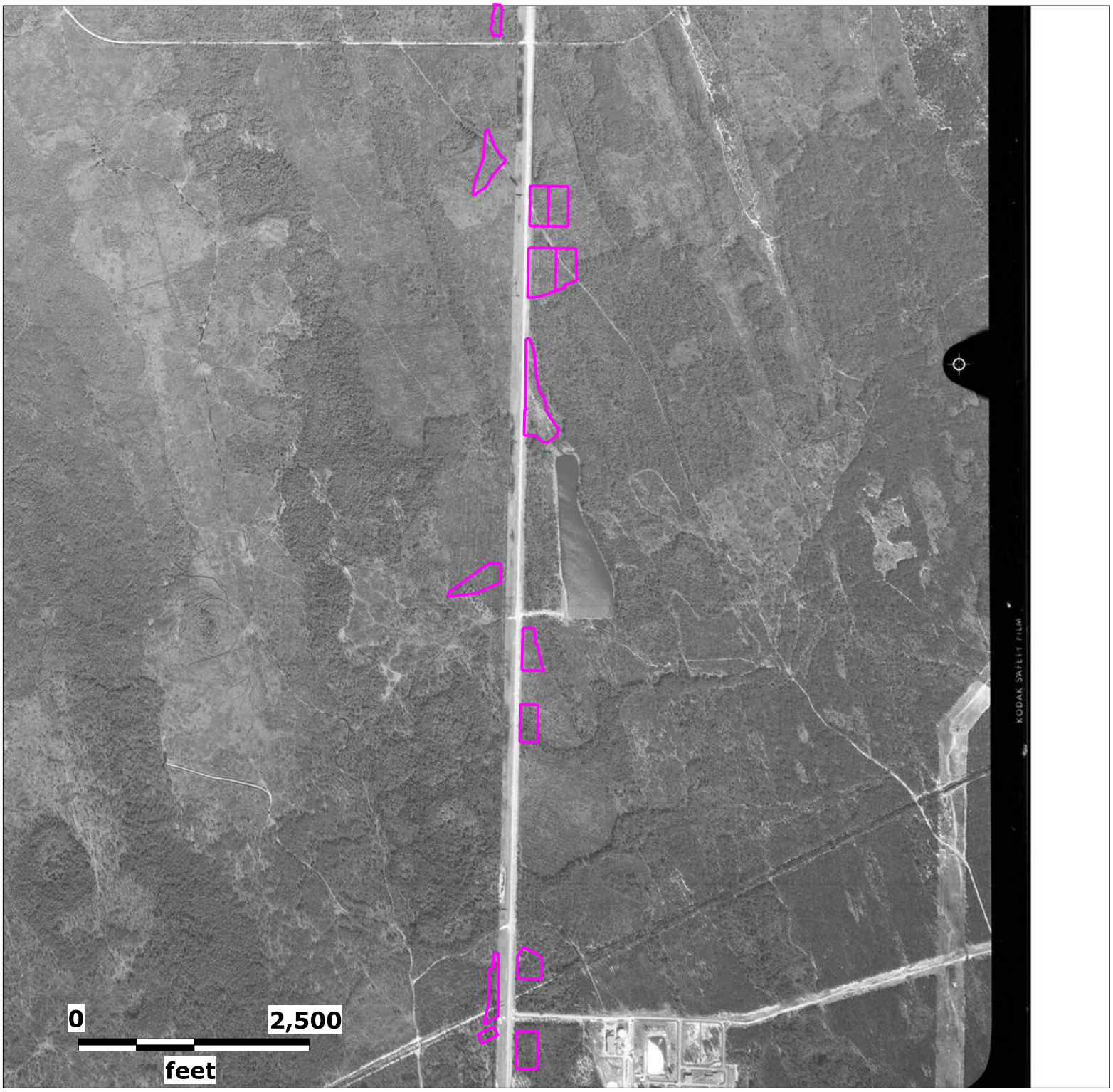
Aerial Photo Image
1984



Source: Florida Department of Transportation

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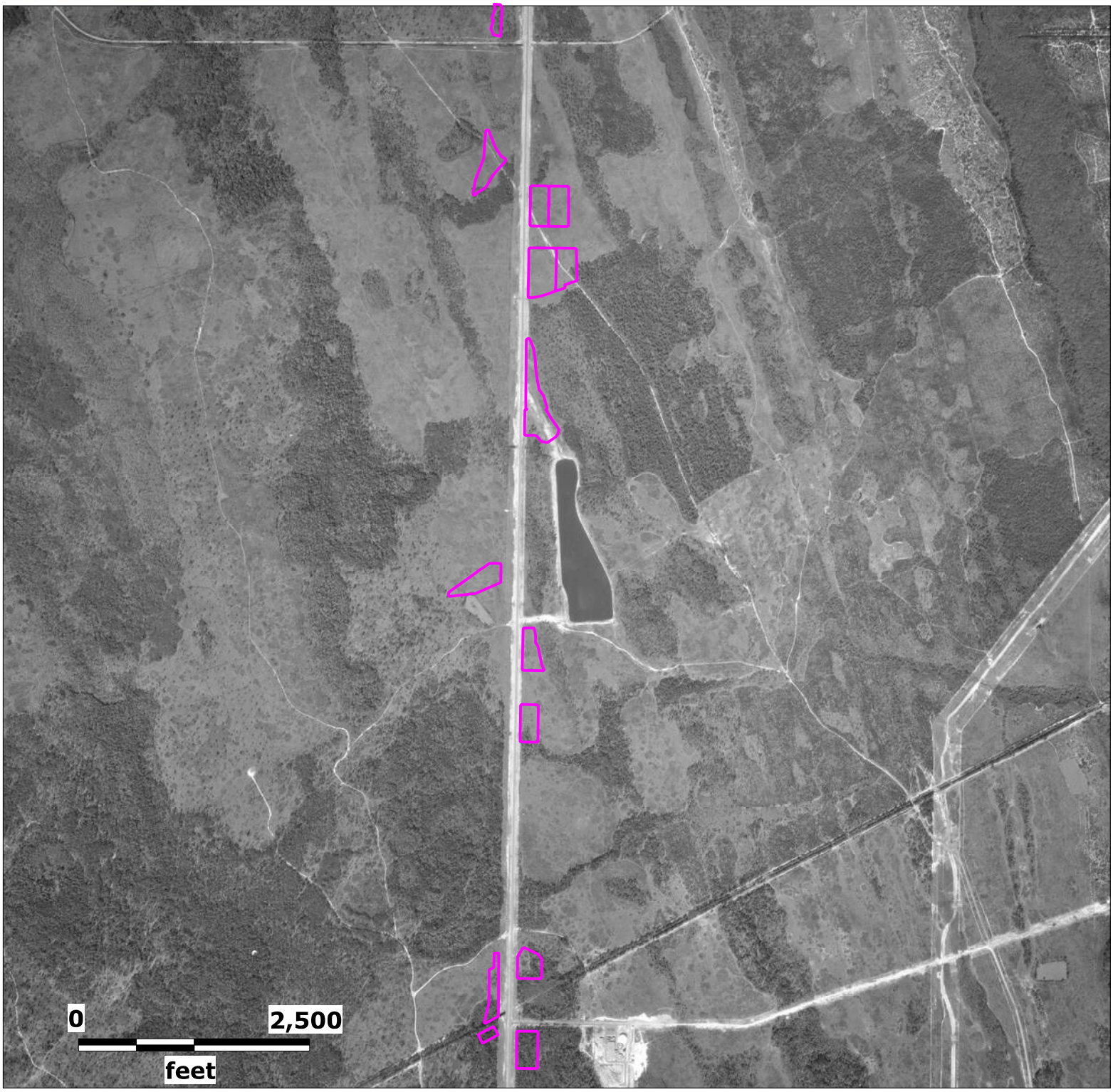
1976



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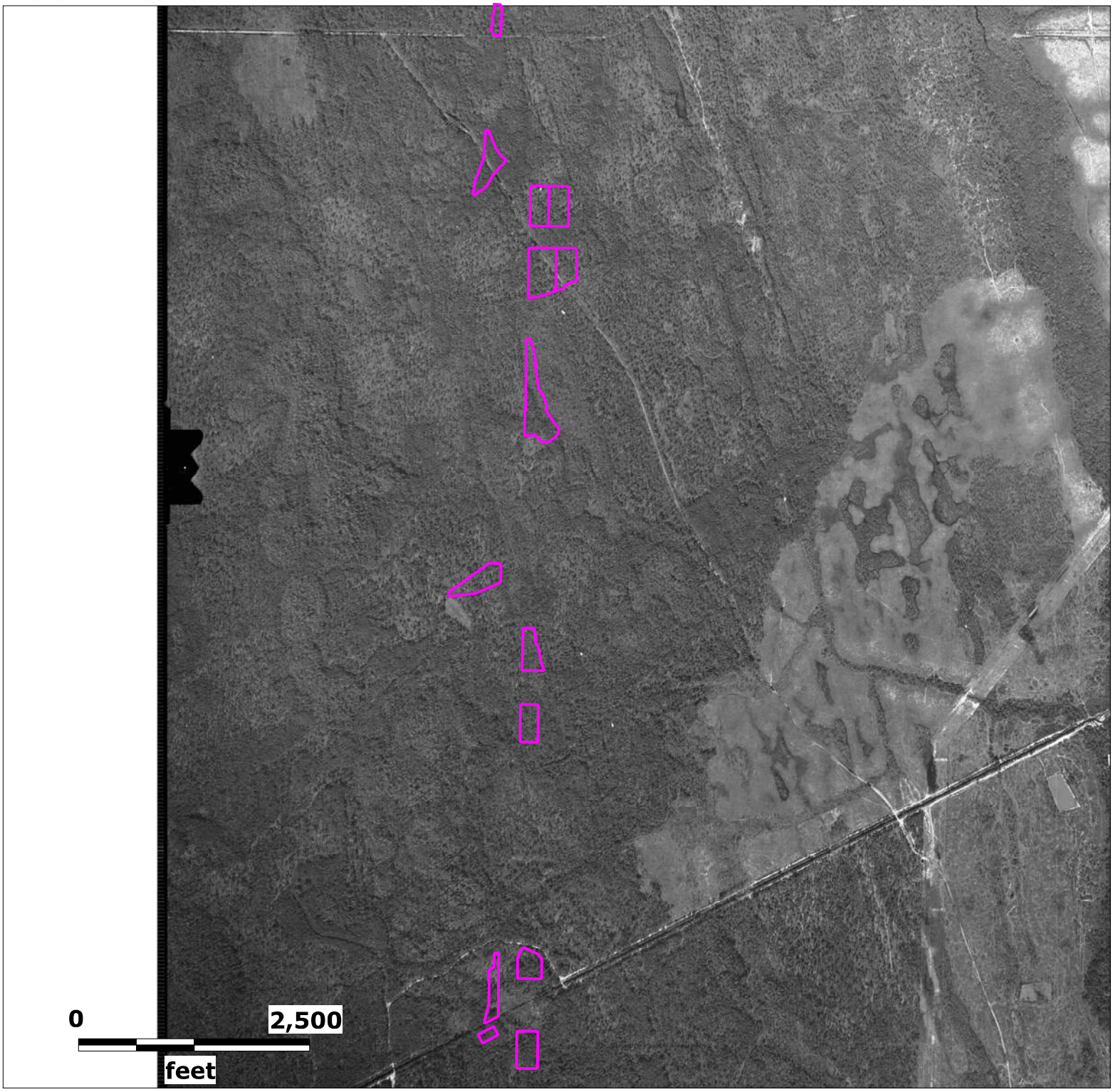
1969



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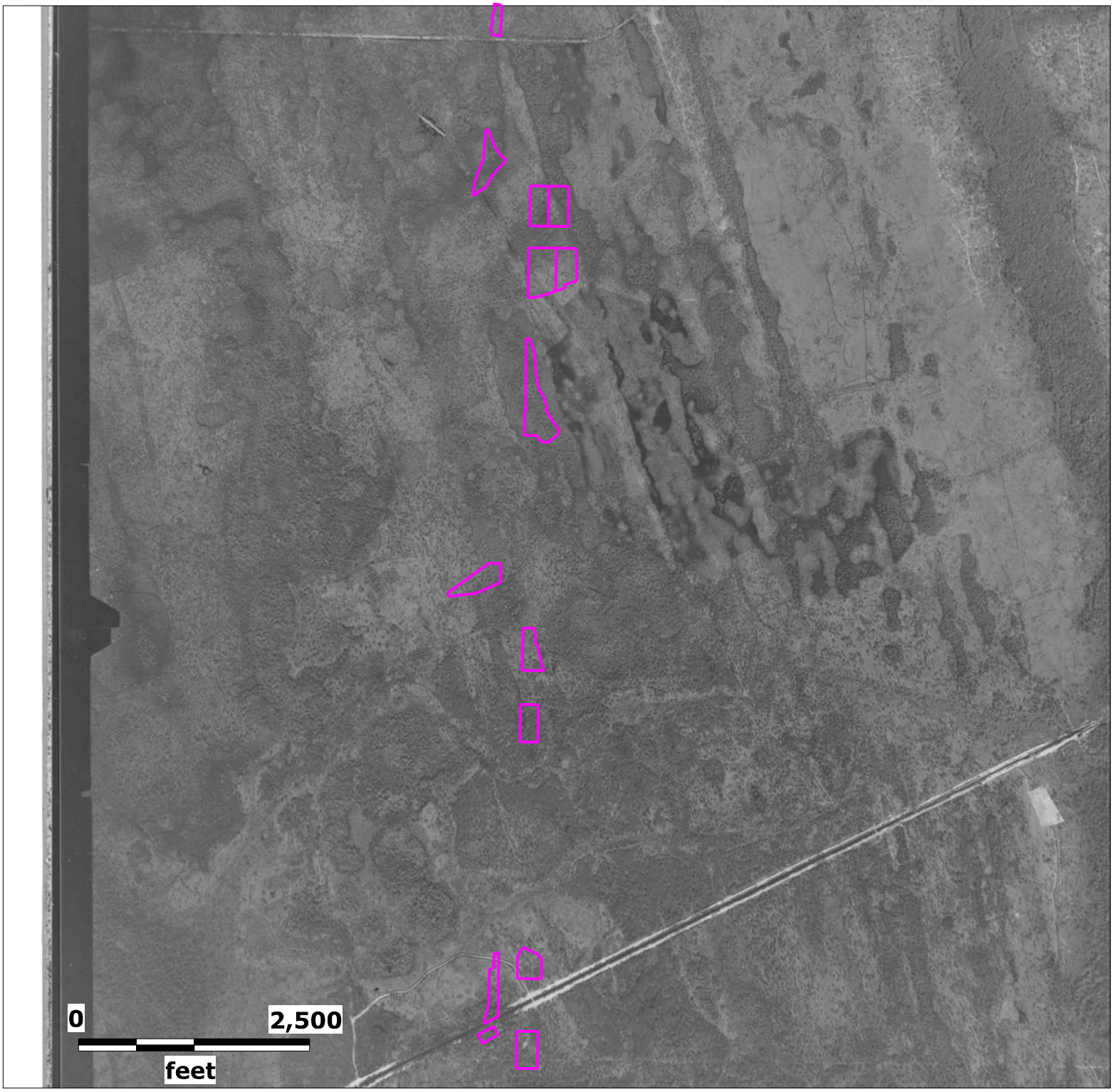
Aerial Photo Image
1958



Source: University of Florida

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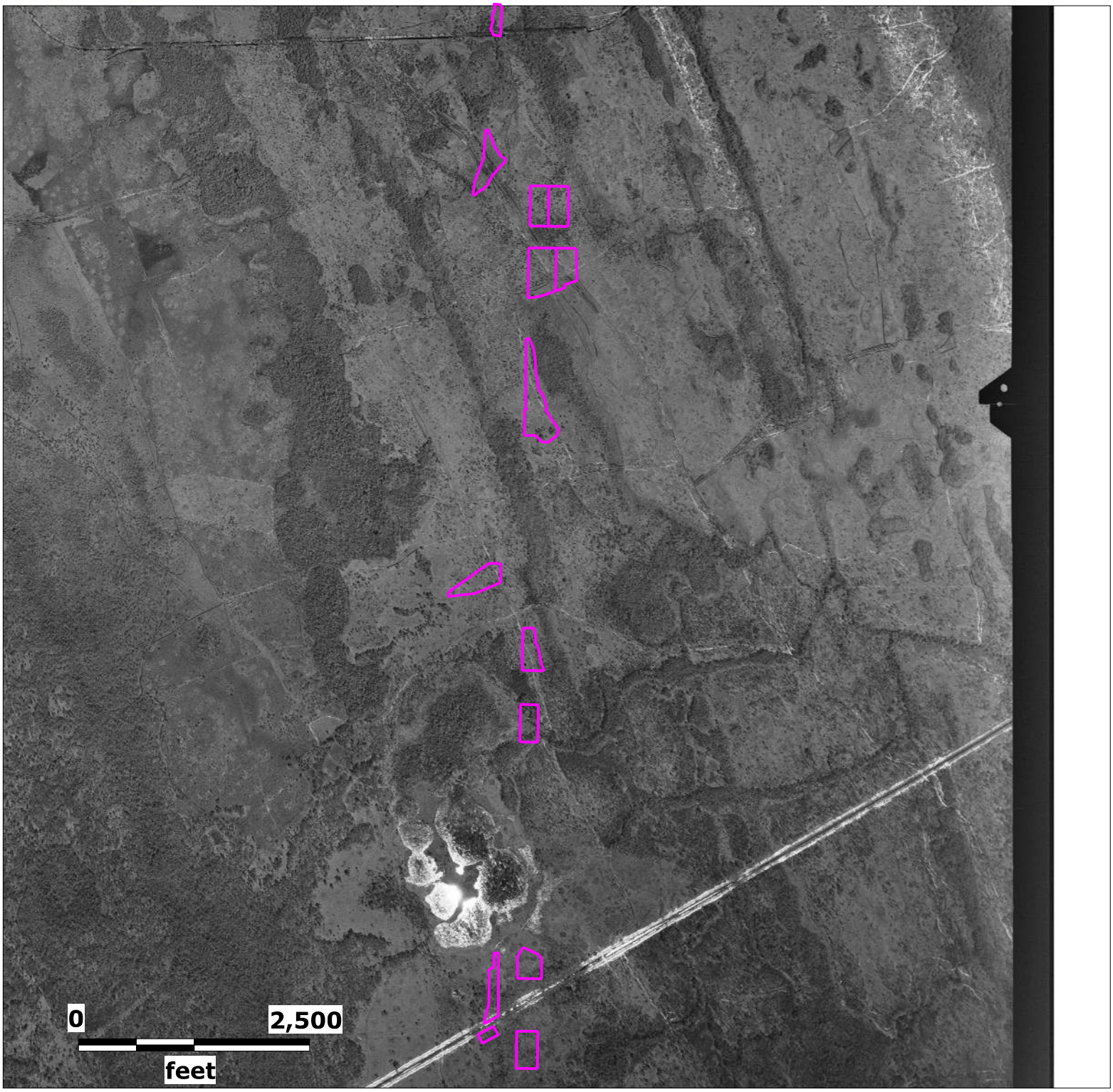
Aerial Photo Image
1950



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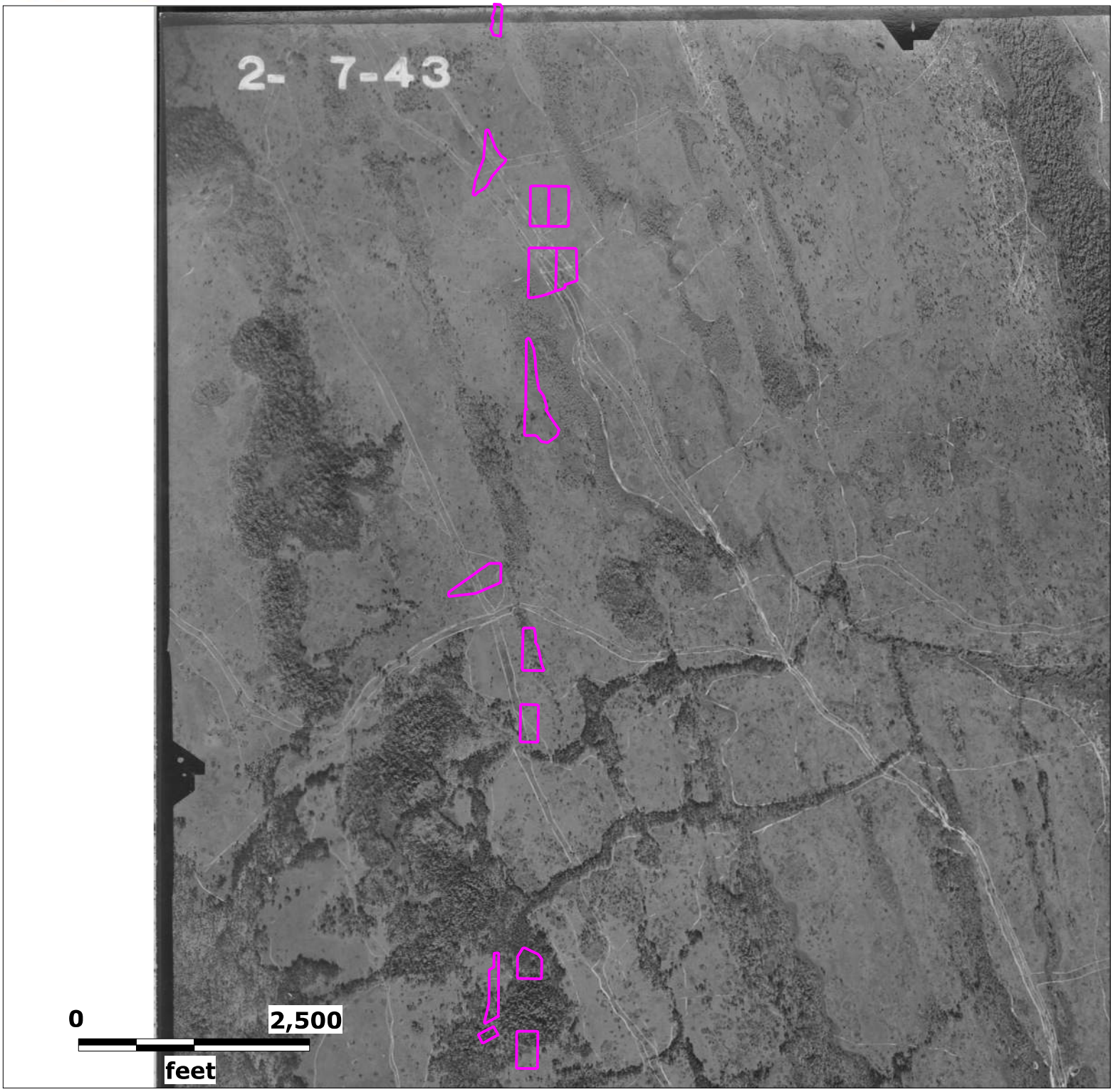
Aerial Photo Image
1943



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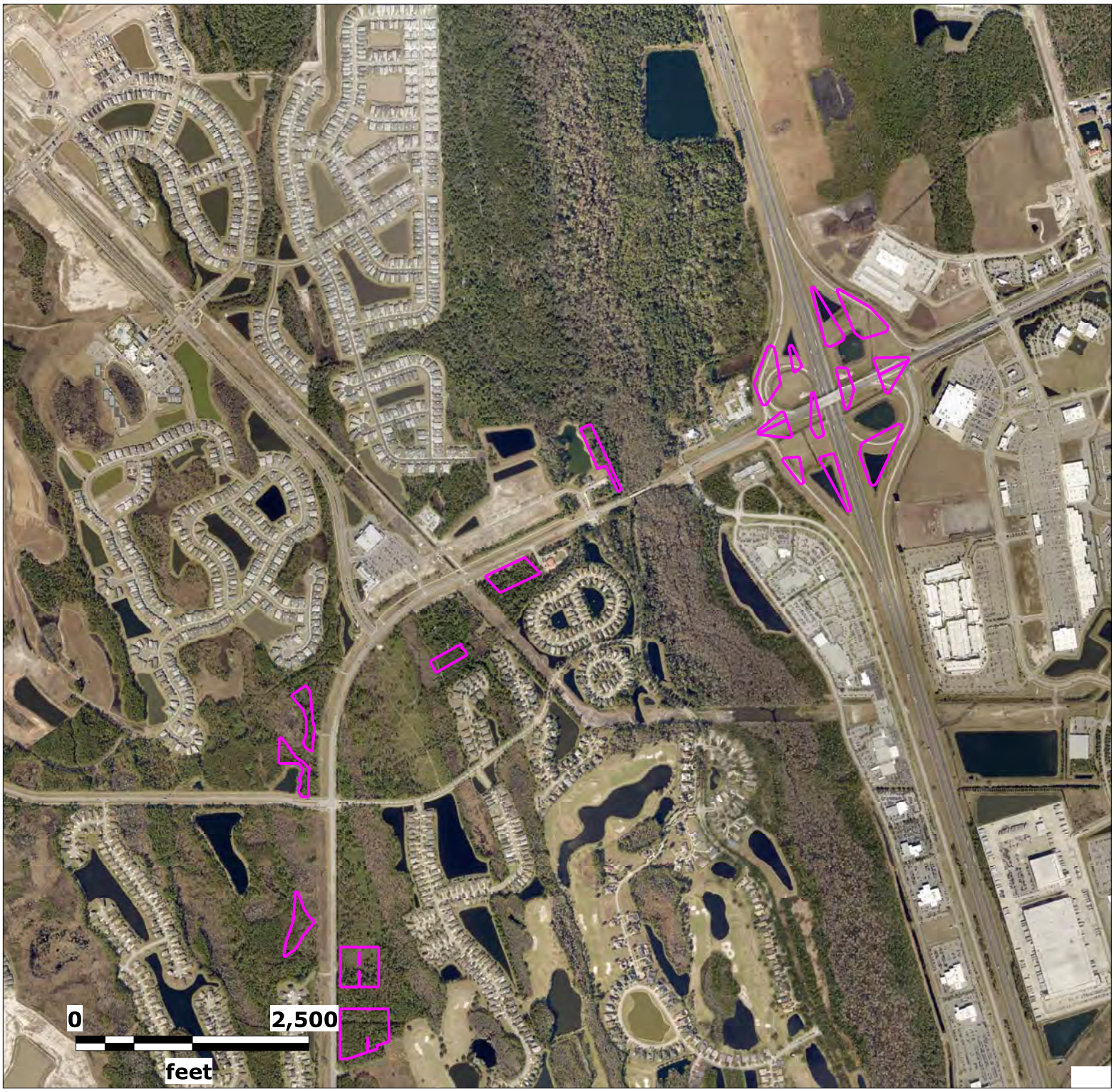
Aerial Photo Image
2021



Source: Florida Department of Transportation

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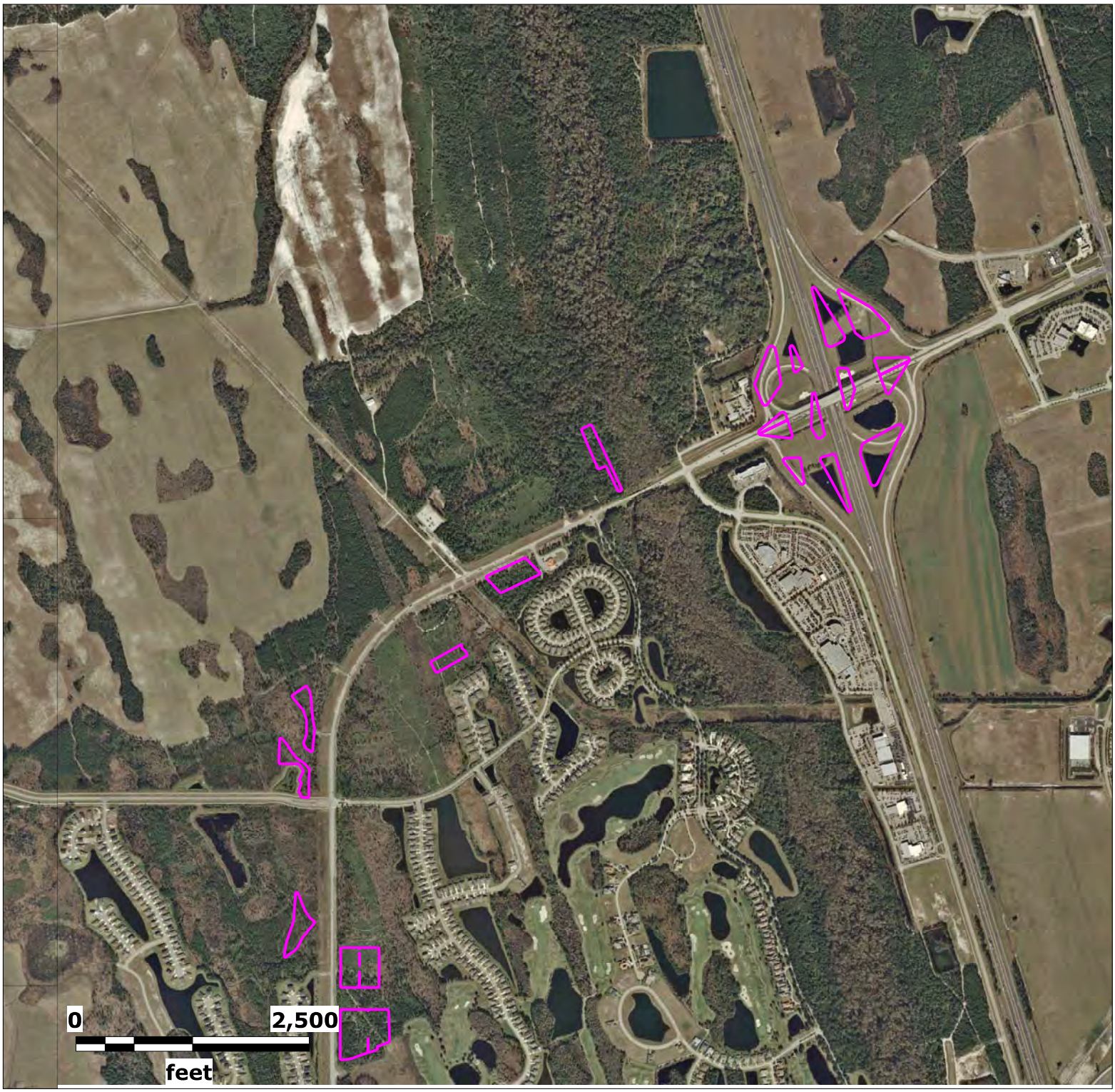
2012



Source: Florida Department of Transportation

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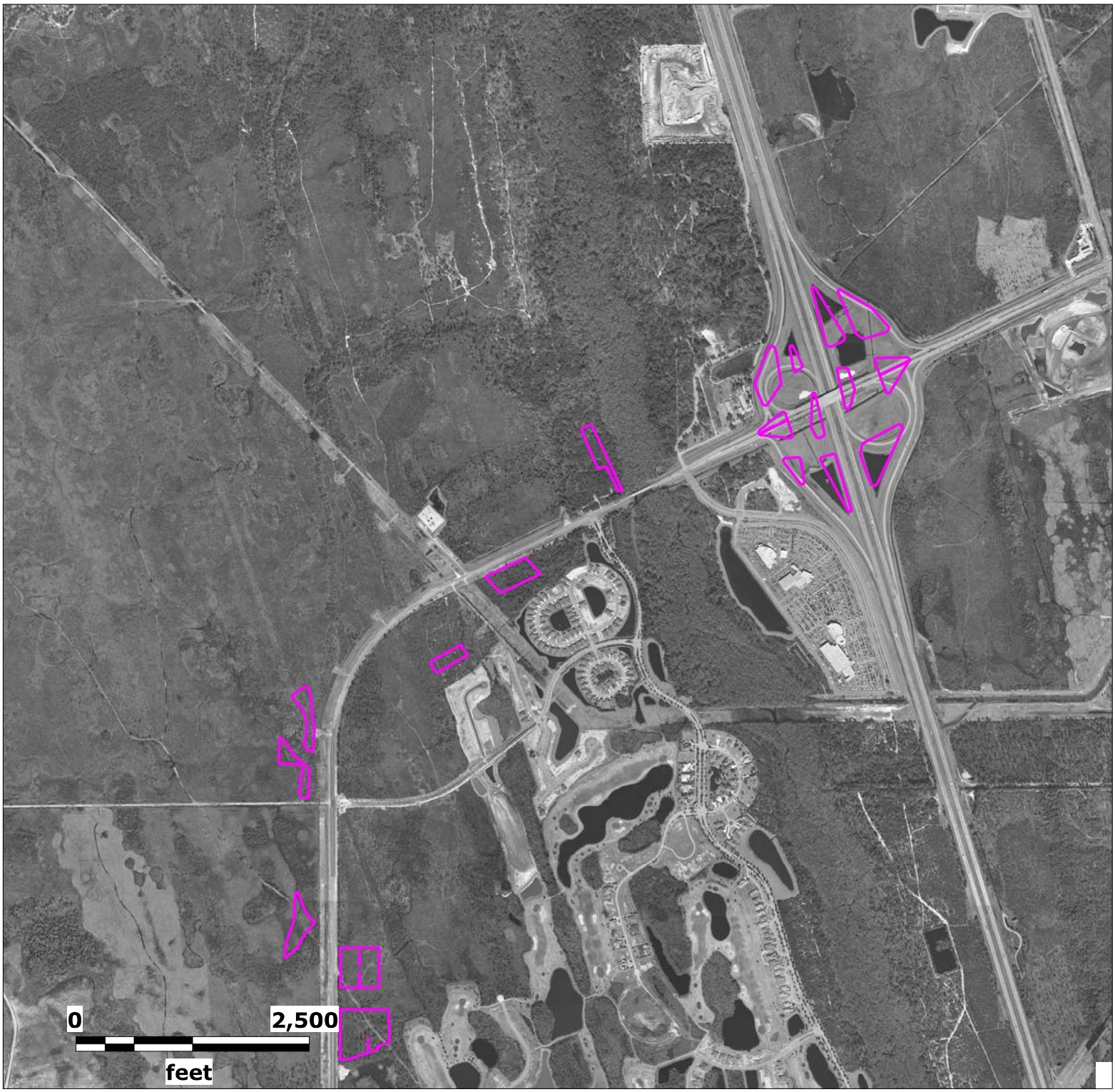
2003



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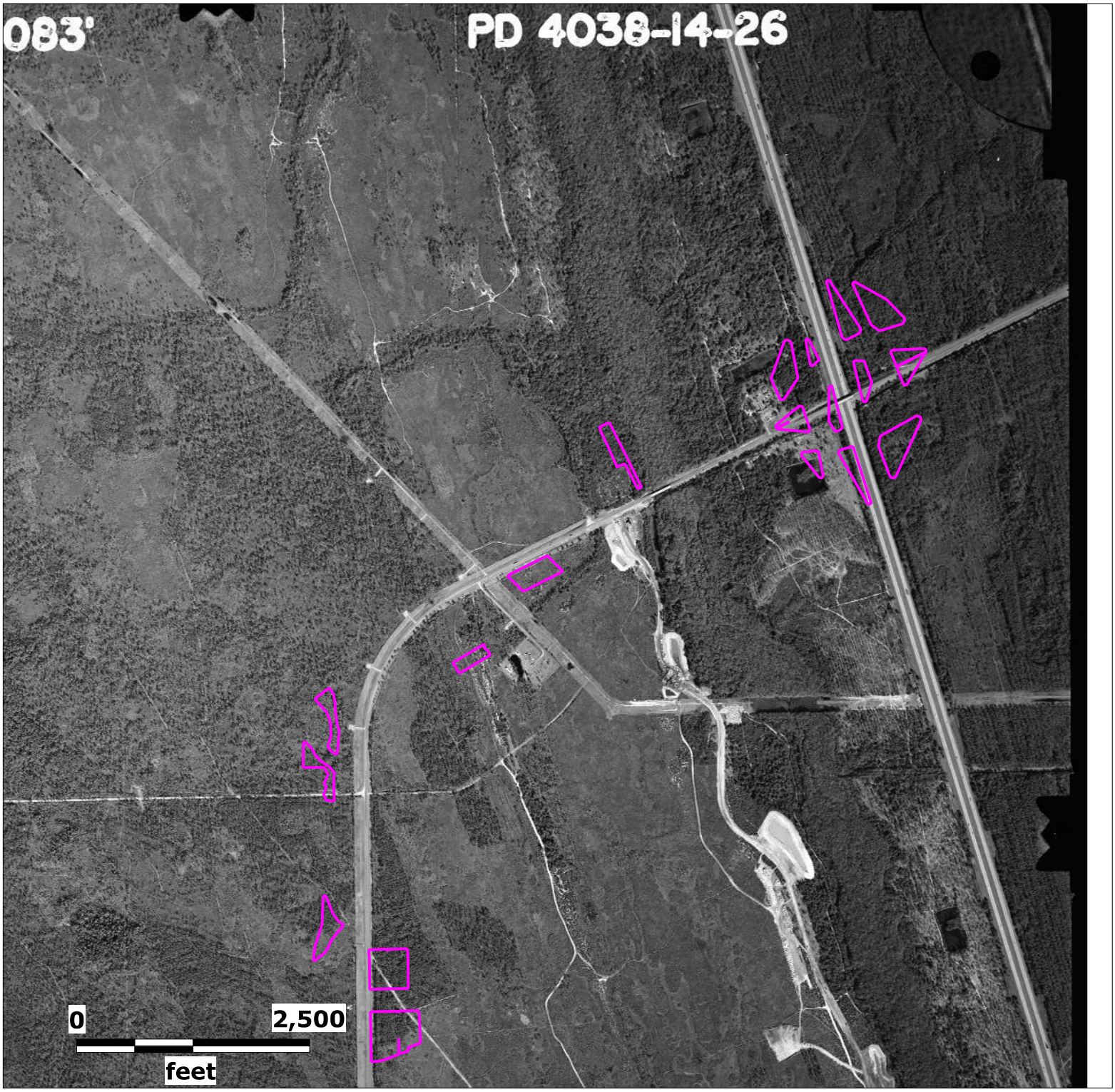

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Approximate Site Location

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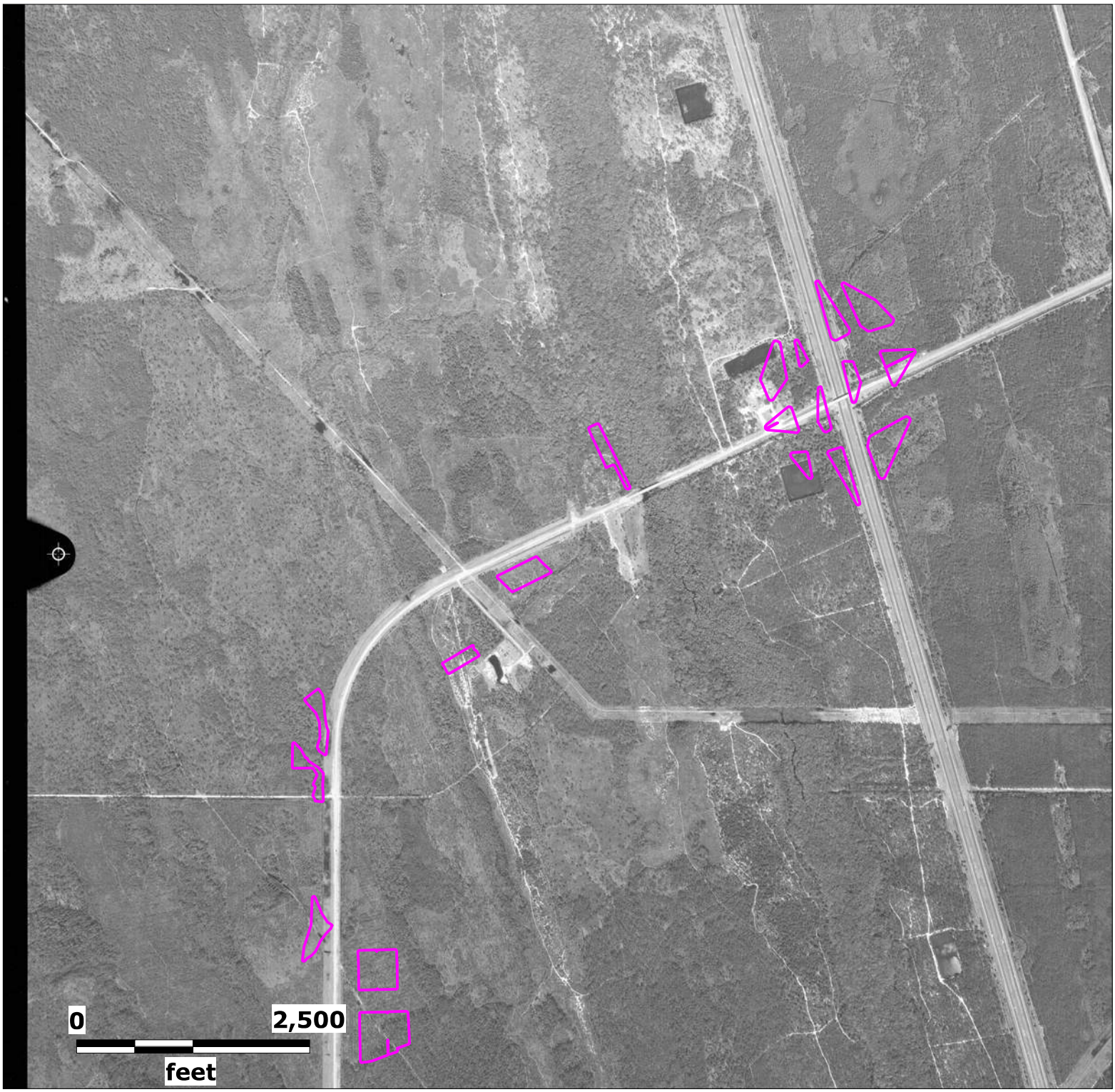
1984



Source: Florida Department of Transportation

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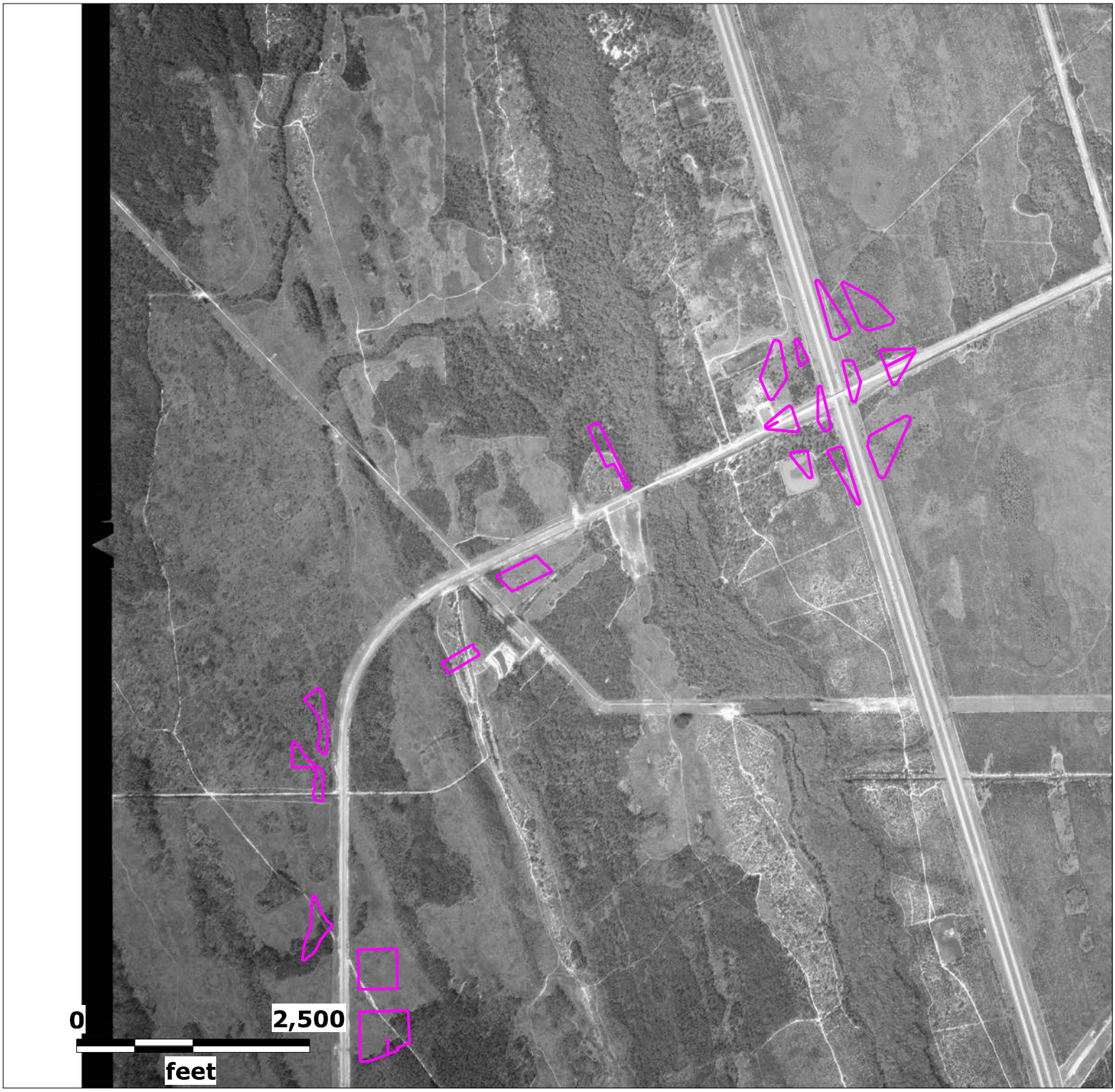
Aerial Photo Image
1976



Source: Florida Department of Transportation

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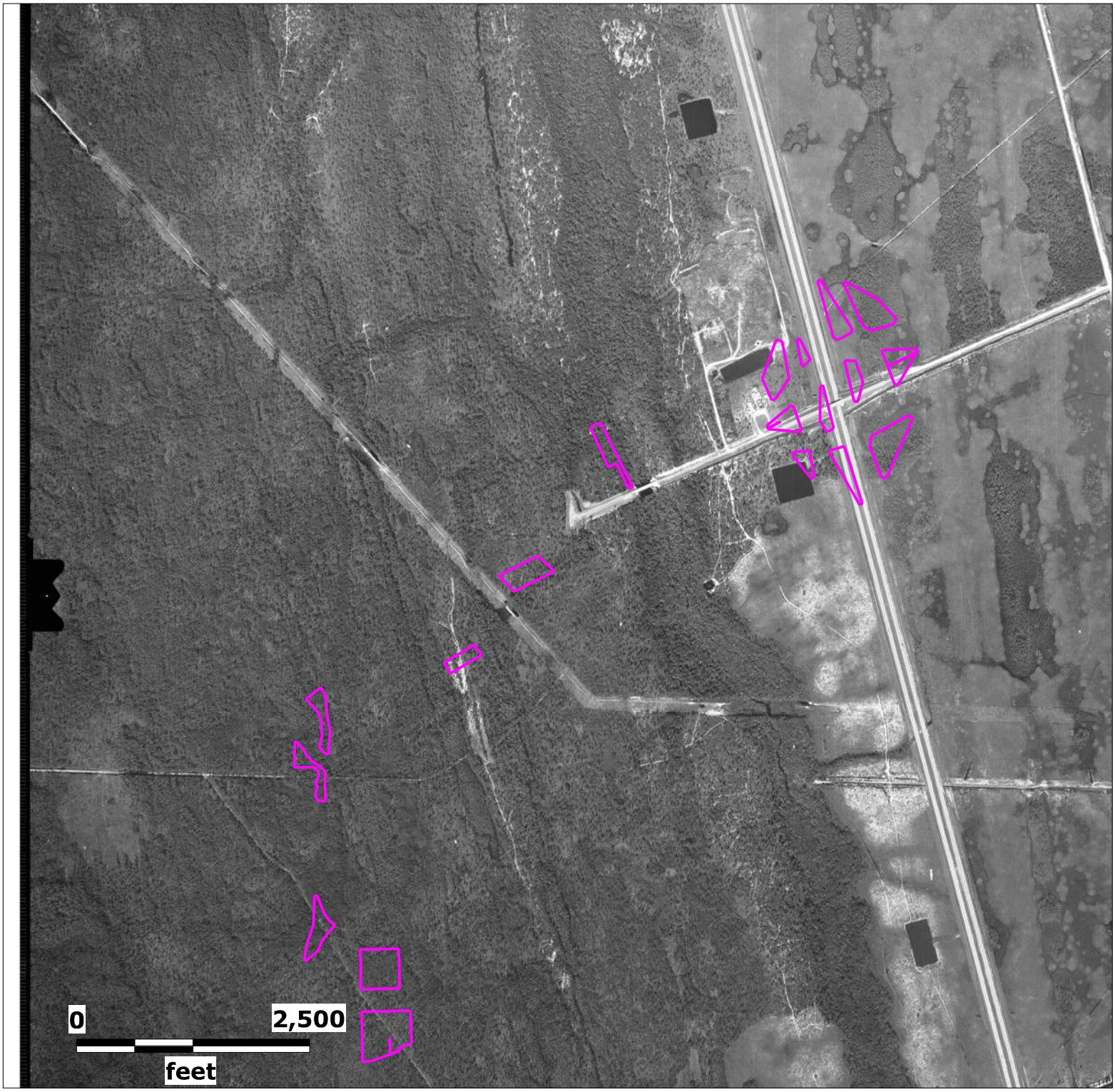
1969



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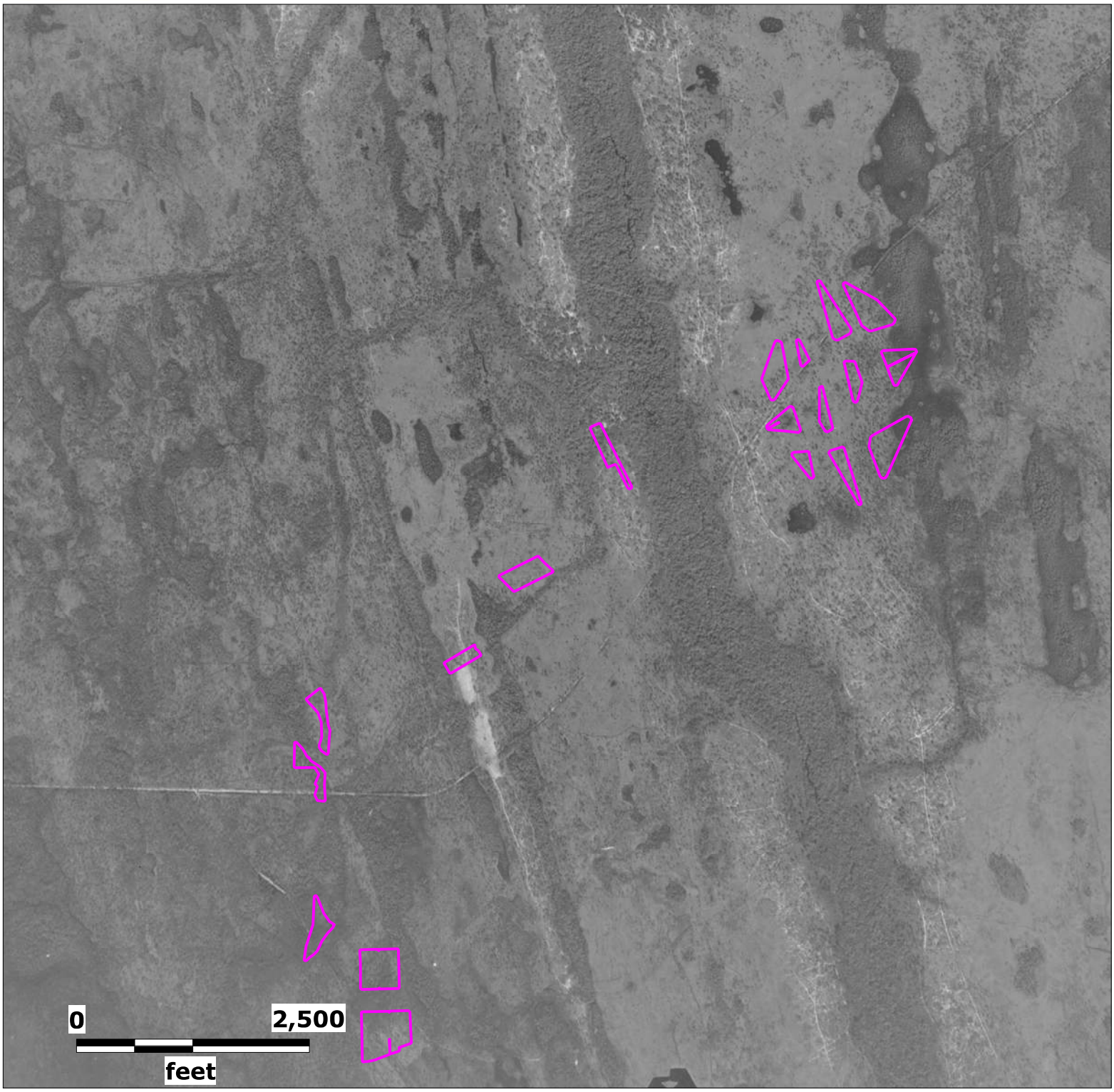
1958



Source: University of Florida

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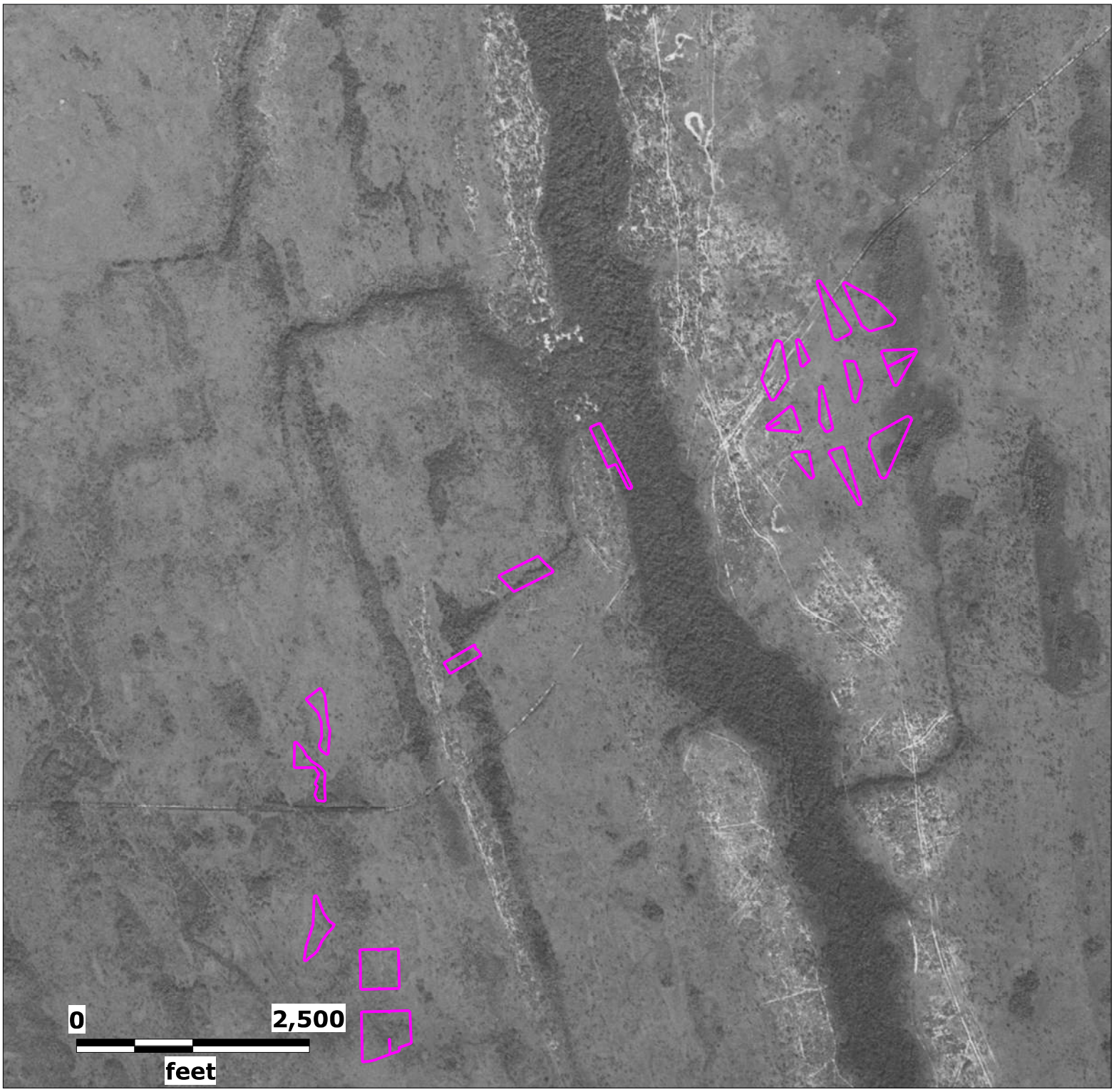
Aerial Photo Image
1950



Source: University of Florida

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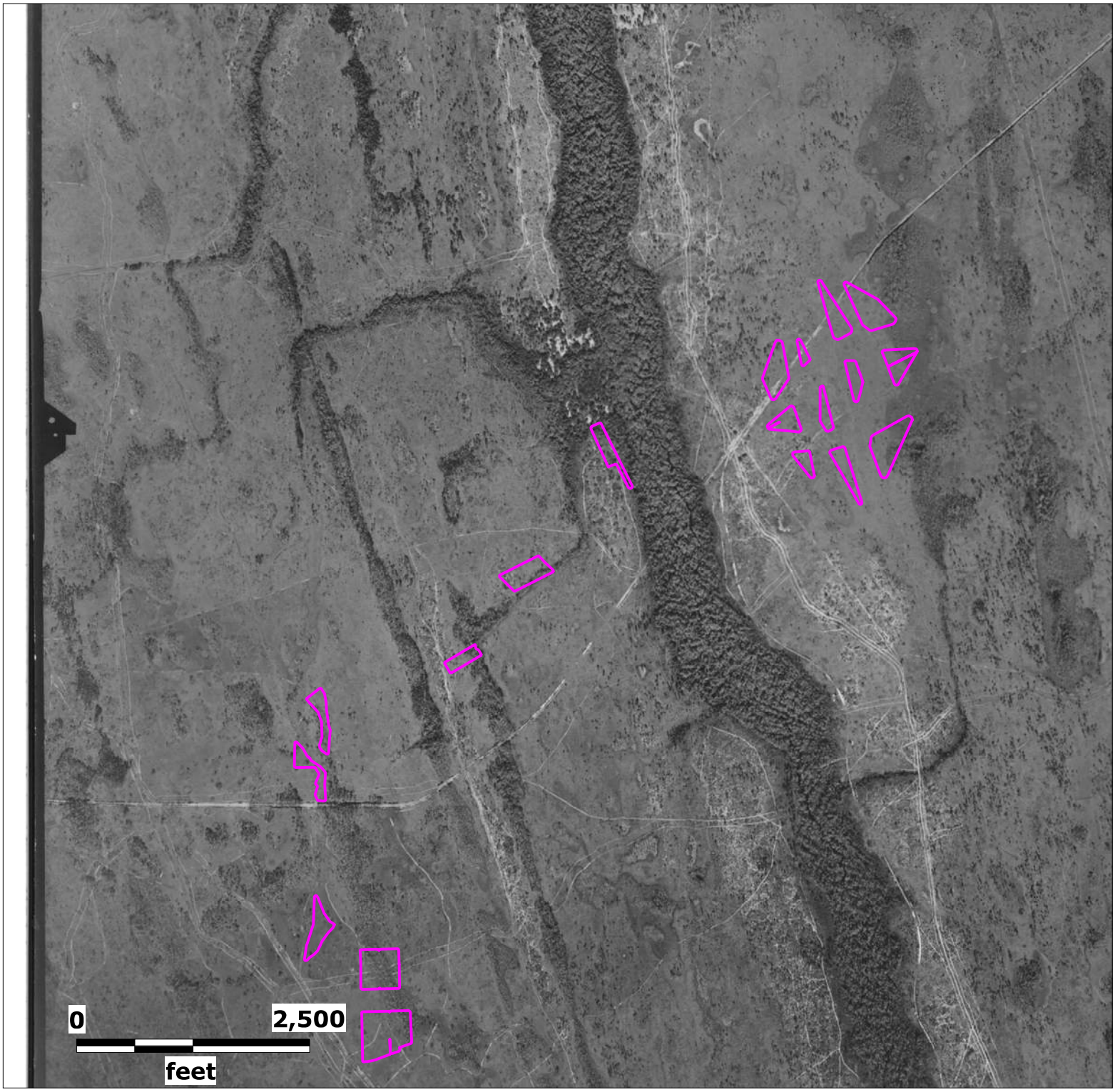
March 14, 2023

Aerial Photo Image
1943



Source: University of Florida

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March 14, 2023

Appendix D Topographic Maps

Historical Topographic Map Report

Subject Property:

LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida
Daytona Beach Quadrangle

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:

Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

March 14, 2023

Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770
(727) 586-1700
http://www.edm-net.com

March 14, 2023

Collin Duncan
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Historical Topographic Maps-- EDM Project #: 26457**
Client Project #:

Dear Mr. Duncan:

Thank you for choosing Environmental Data Management, Inc. The following report contains a series of Historical Topographic Maps for the following location:

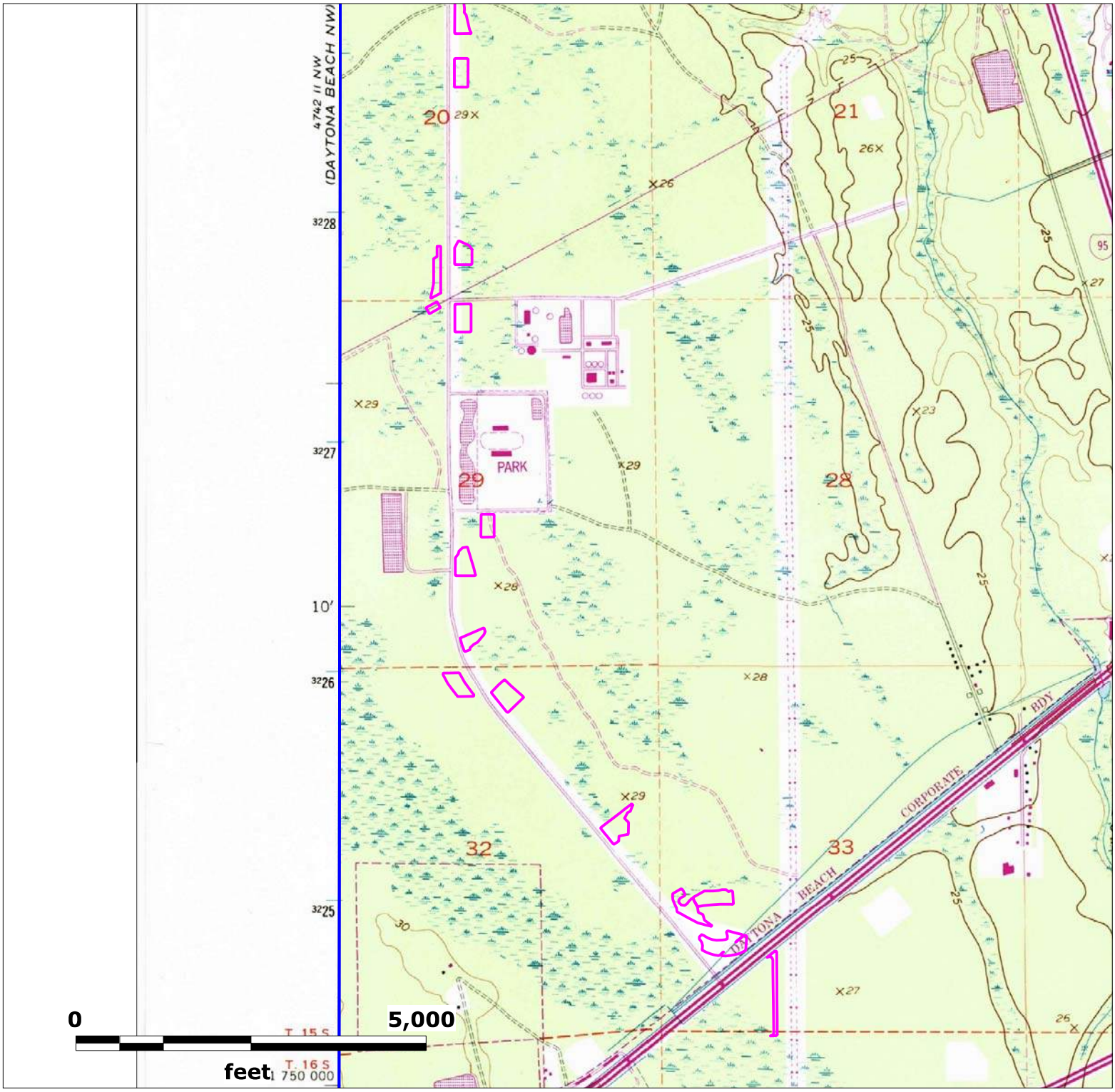
LPGA Boulevard from US 92 (SR 600)
to Williamson Boulevard PD&E Study
Volusia County, Florida
Daytona Beach Quadrangle

These maps were obtained from the digital map collections of the US Geological Survey. Only 7.5 Minute Series maps were selected for this report.

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Historical Topographic Map
Daytona Beach 1993



Source: USGS Historical Topographic Map Collection

Map Scale and Property Boundaries are Approximate

Subject Property

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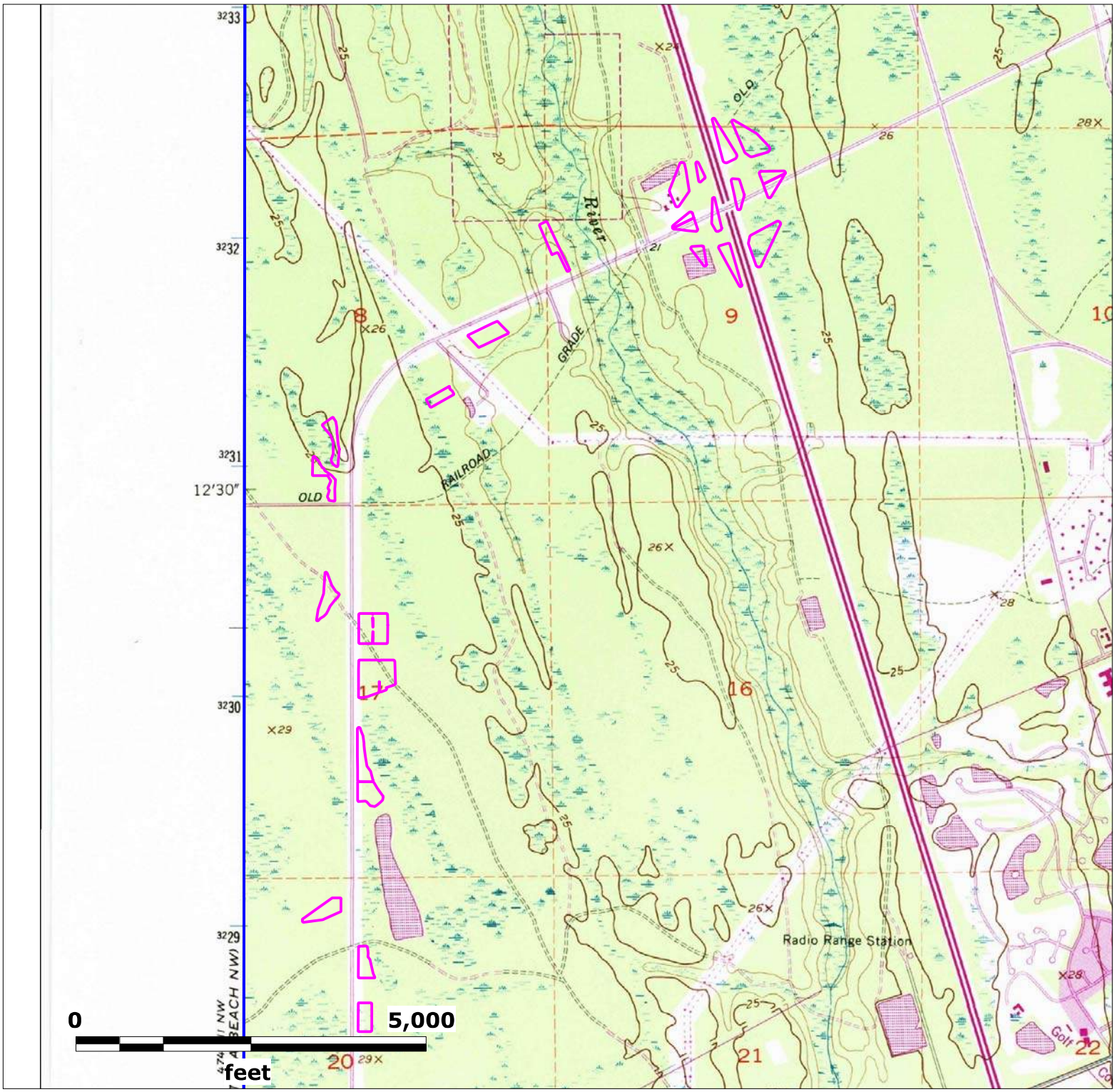
EDM Job No: 26457
March 14, 2023

Historical Topographic Map
Daytona Beach 1993



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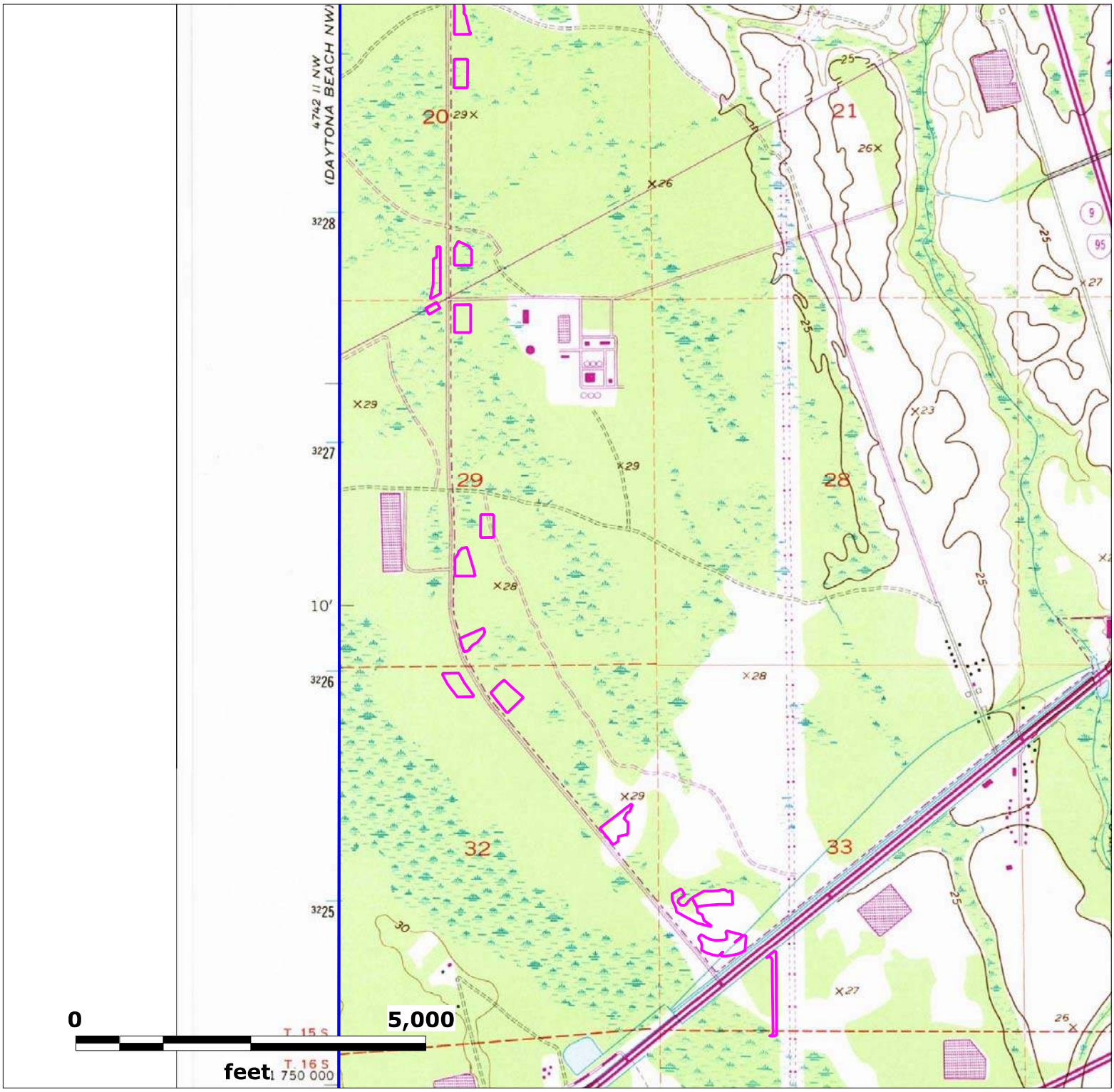
Historical Topographic Map
Daytona Beach 1988



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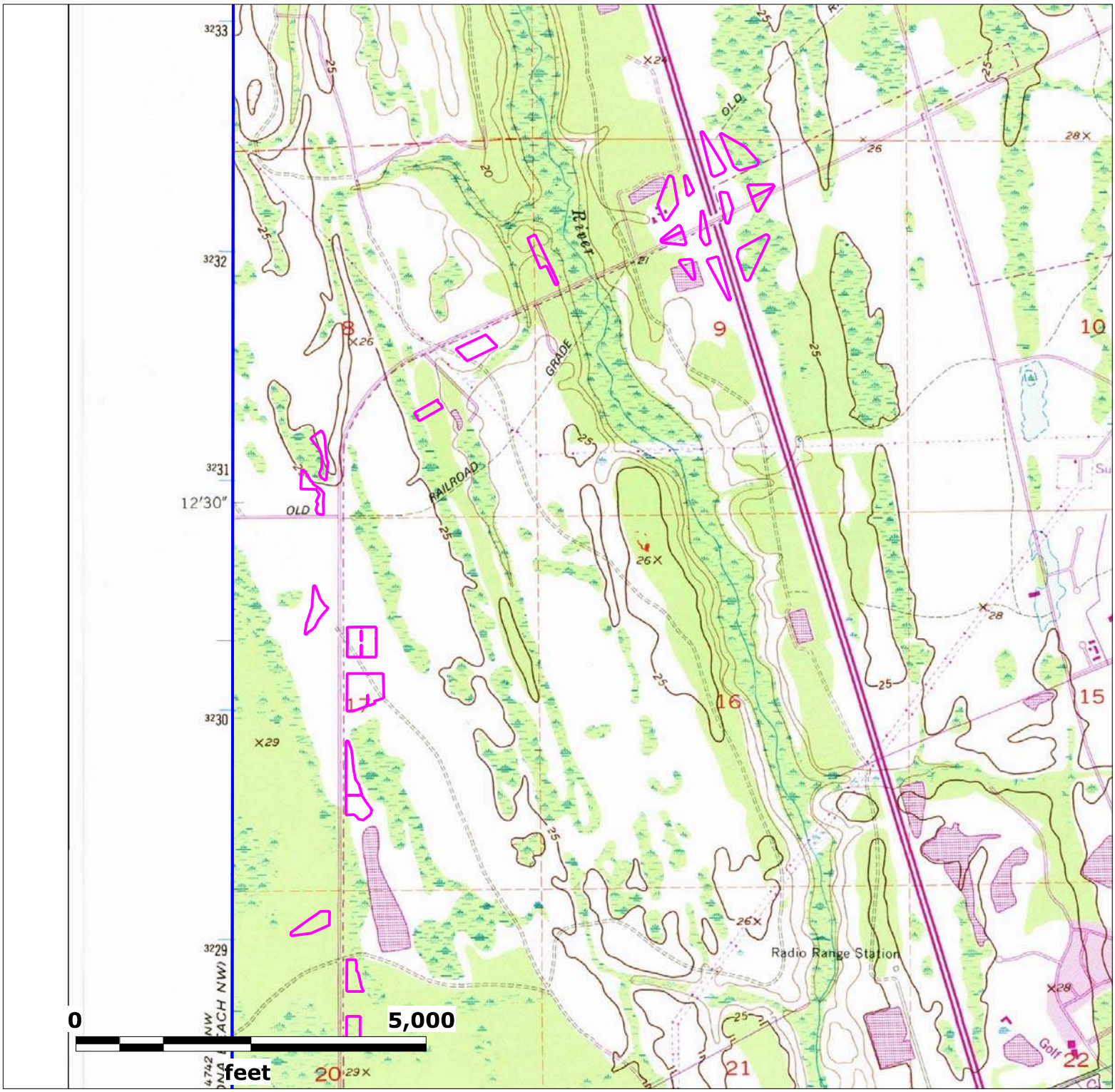
Daytona Beach 1988



Source: USGS Historical Topographic Map Collection

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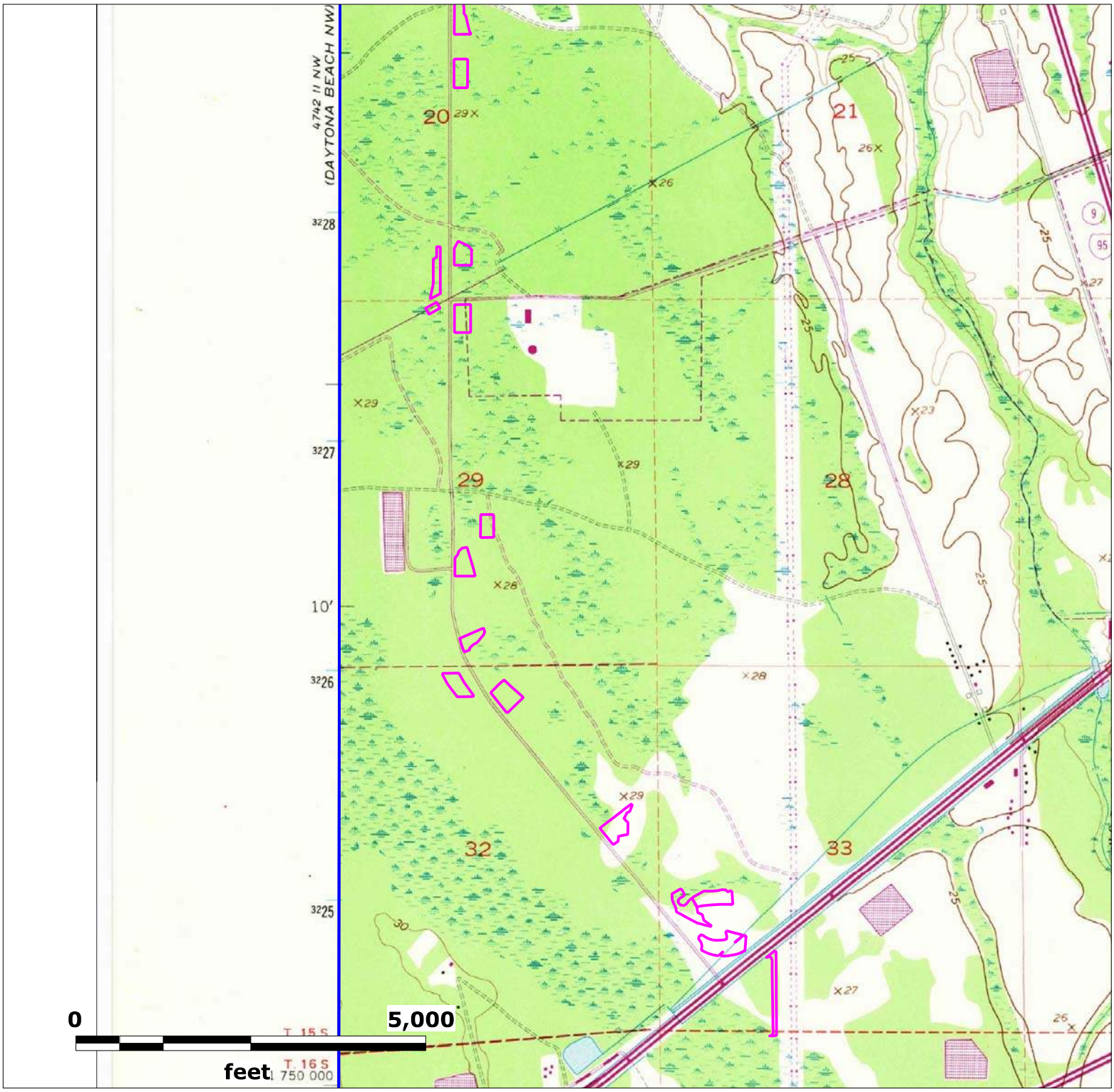
Historical Topographic Map
Daytona Beach 1980



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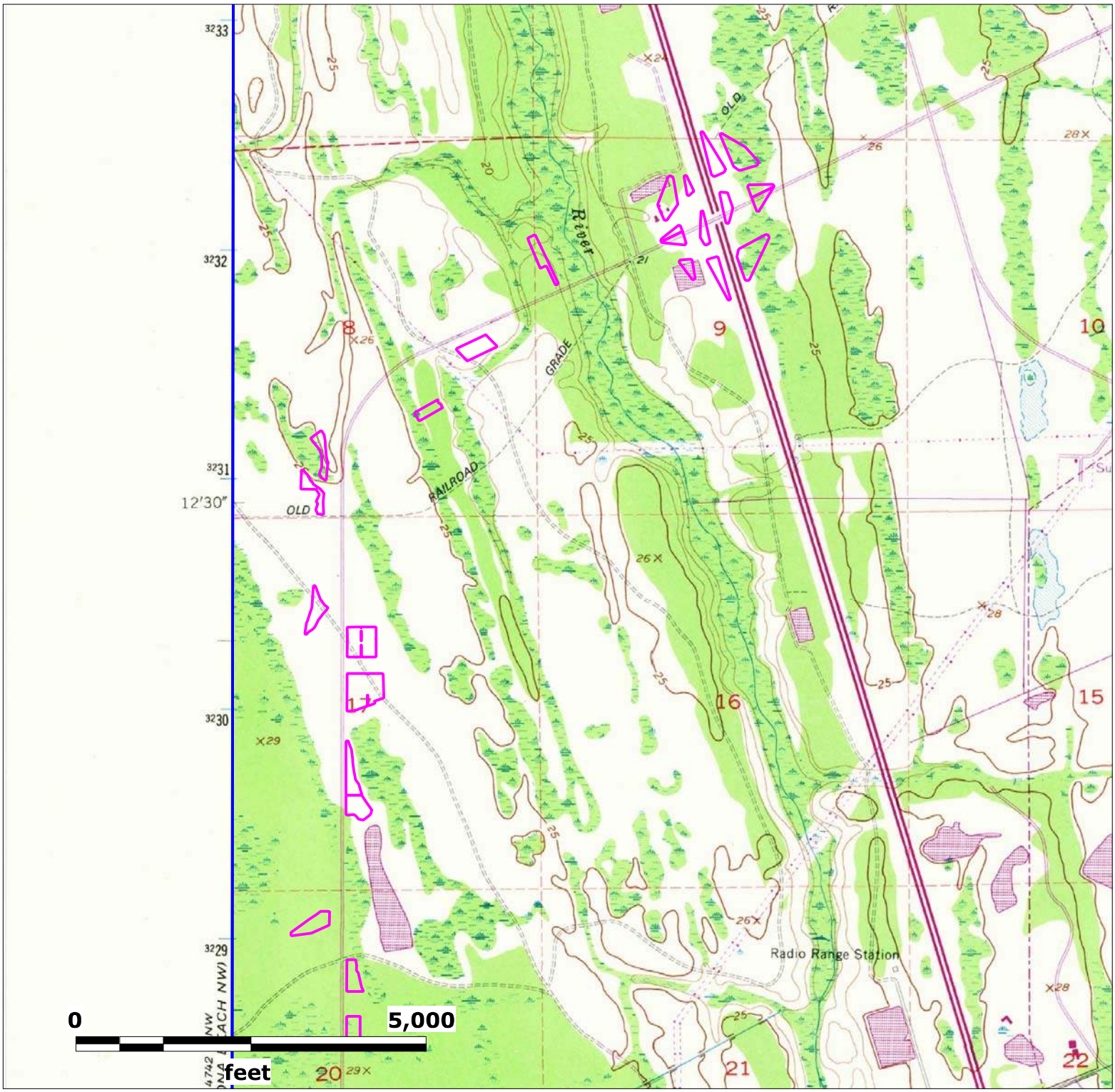
Historical Topographic Map
Daytona Beach 1980



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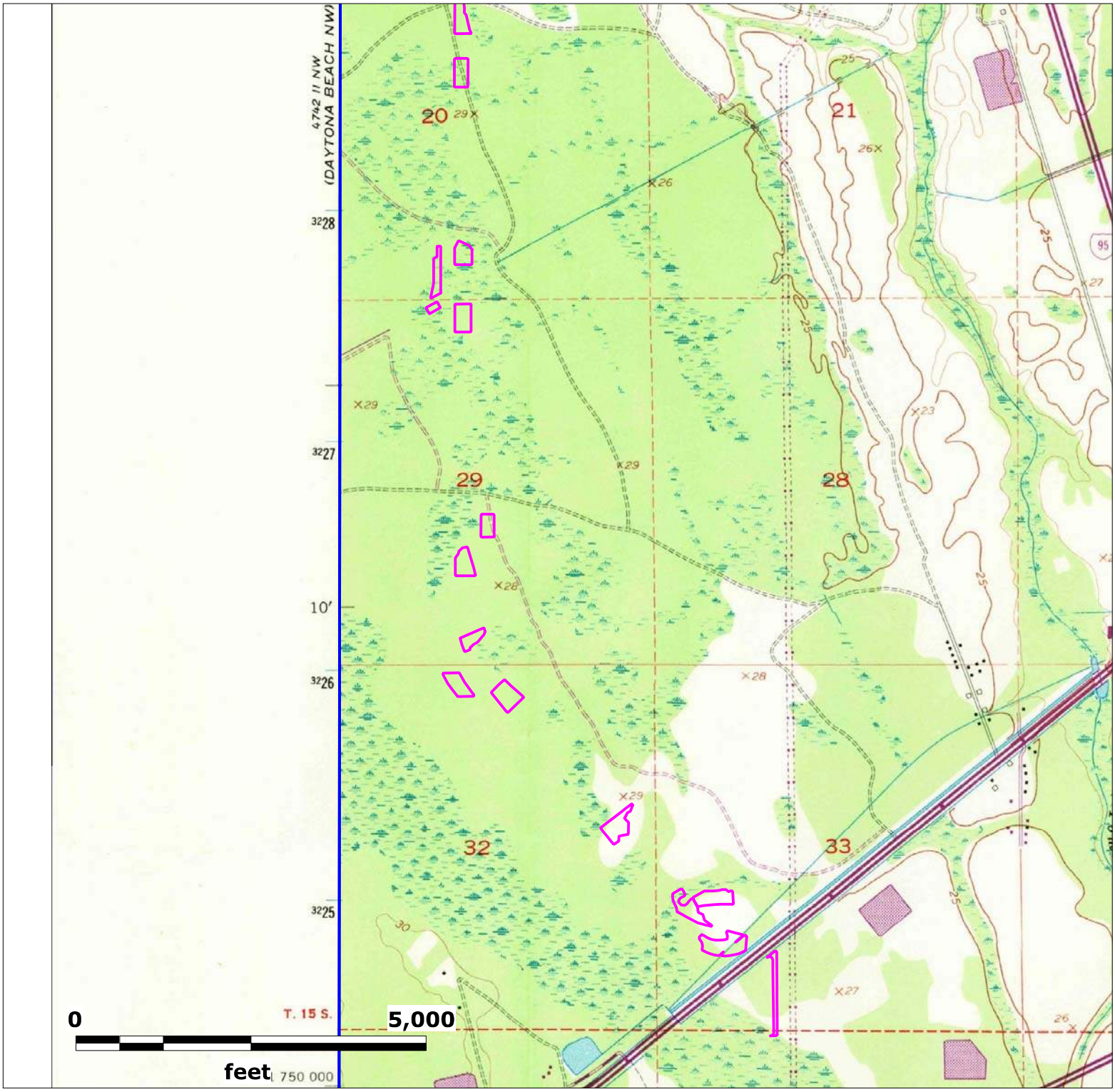
Historical Topographic Map
Daytona Beach 1970



Source: USGS Historical Topographic Map Collection

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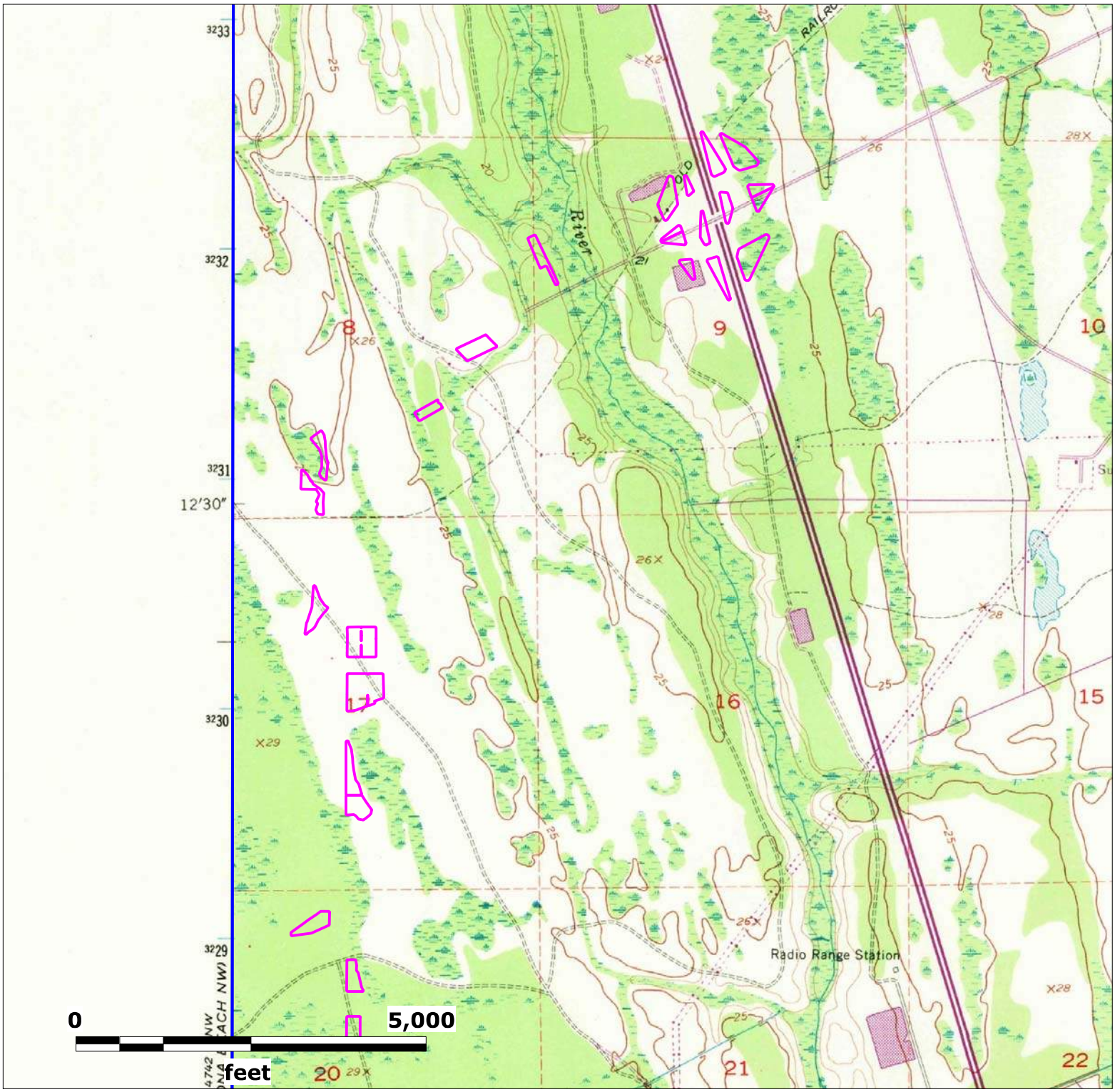
March 14, 2023

Historical Topographic Map
Daytona Beach 1970



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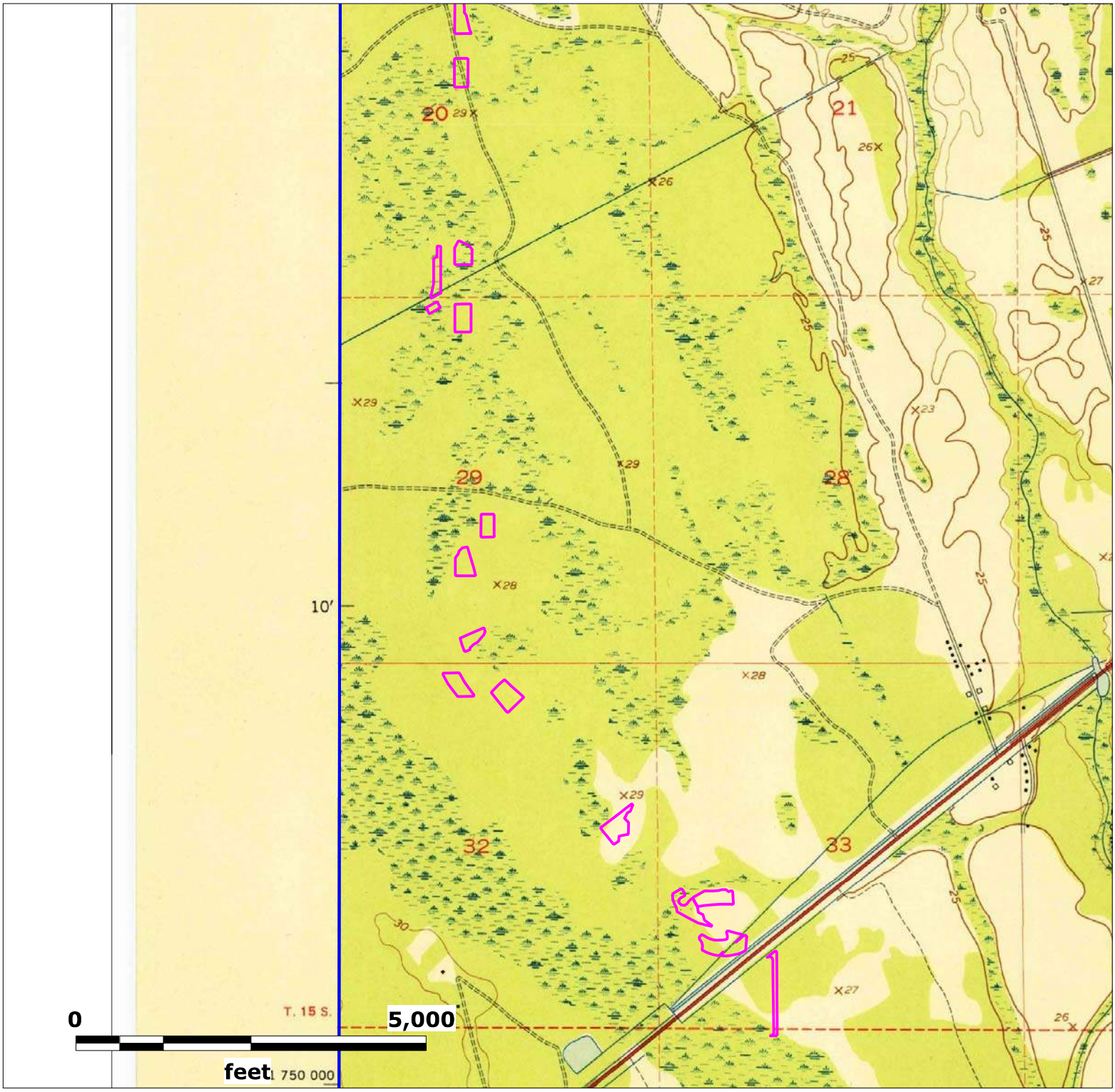
Historical Topographic Map
Daytona Beach 1952



Source: USGS Historical Topographic Map Collection

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Florida Department of Transportation District 5

Environmental Management Office

719 S. Woodland Blvd.

DeLand, FL 32720