TECHNICAL MEMORANDUM
CULTURAL RESOURCE ASSESSMENT SURVEY OF THE I-75 (SR 93) AT NW 49TH STREET POND SITES, MARION COUNTY, FLORIDA

CONSULTANT:	SEARCH 700 N. 9th Avenue, Pensacola, Florida 32501
PRINCIPAL INVESTIGATOR:	Steven RabbySmith, MA, RPA
CLIENT:	Metric Engineering
DATE:	October 2020
FPID#:	435209-1
SEARCH PROJECT #:	3954-17098

This technical memorandum details the results of a cultural resource assessment survey (CRAS) of five preferred pond locations in Marion County, Florida. The Florida Department of Transportation (FDOT), District 5, is proposing to construct five retention ponds (Ponds E-1, E-3, F1, G1-1, and 49-1) associated with a new interchange and new roads leading to the interchange with the extension of NW 49th Street and NW 35th Street (**Figure 1**). The current ponds CRAS is an addendum to a 2019 SEARCH survey report titled *Cultural Resource Assessment Survey in Support of the I-75 (SR 93) at NW 49th Street from the End of NW 49th Street to the End of NW 35th Street Project Development and Environment (PD&E) Study, Marion County, Florida* (Florida Master Site File [FMSF] Survey No. 25810). Three of the five pond sites (Ponds F-1, G1-1 and 49-1) intersect the original interchange CRAS and were subject to an archaeological and architectural resource survey during that investigation. The remaining two pond sites (Ponds E-1 and E-3) are located outside the original interchange CRAS project area and consequentially were surveyed as part of the current investigation. The current study includes archaeological and architectural history survey of the two unsurveyed pond locations. The total area tested for the current survey is 7.25 acres. The discussions of regional prehistory and history, current environmental conditions, historic map and aerial review, and research design provided in the previous report apply to the current CRAS and are not repeated in this technical memorandum.

The Area of Potential Effects (APE) defines the area within which visual, audible, and atmospheric effects that the roadway improvements and subsequent maintenance may have on historic properties. The APE defined for this project includes the proposed pond footprints plus a 100-foot (30.5-meter) buffer (**Figure 2**). The archaeological survey was conducted within the proposed pond footprints; the architectural history survey included the entire APE. The project is federally funded.

The purpose of the survey was to locate, identify, and bound any archaeological resources, historic structures, and potential districts within the project's APE and assess their potential for listing in the National Register of Historic Places (NRHP). This study was conducted to comply

Figure 1. Location of the I-75 at NW 49th Street Ponds project area, Marion County, Florida.

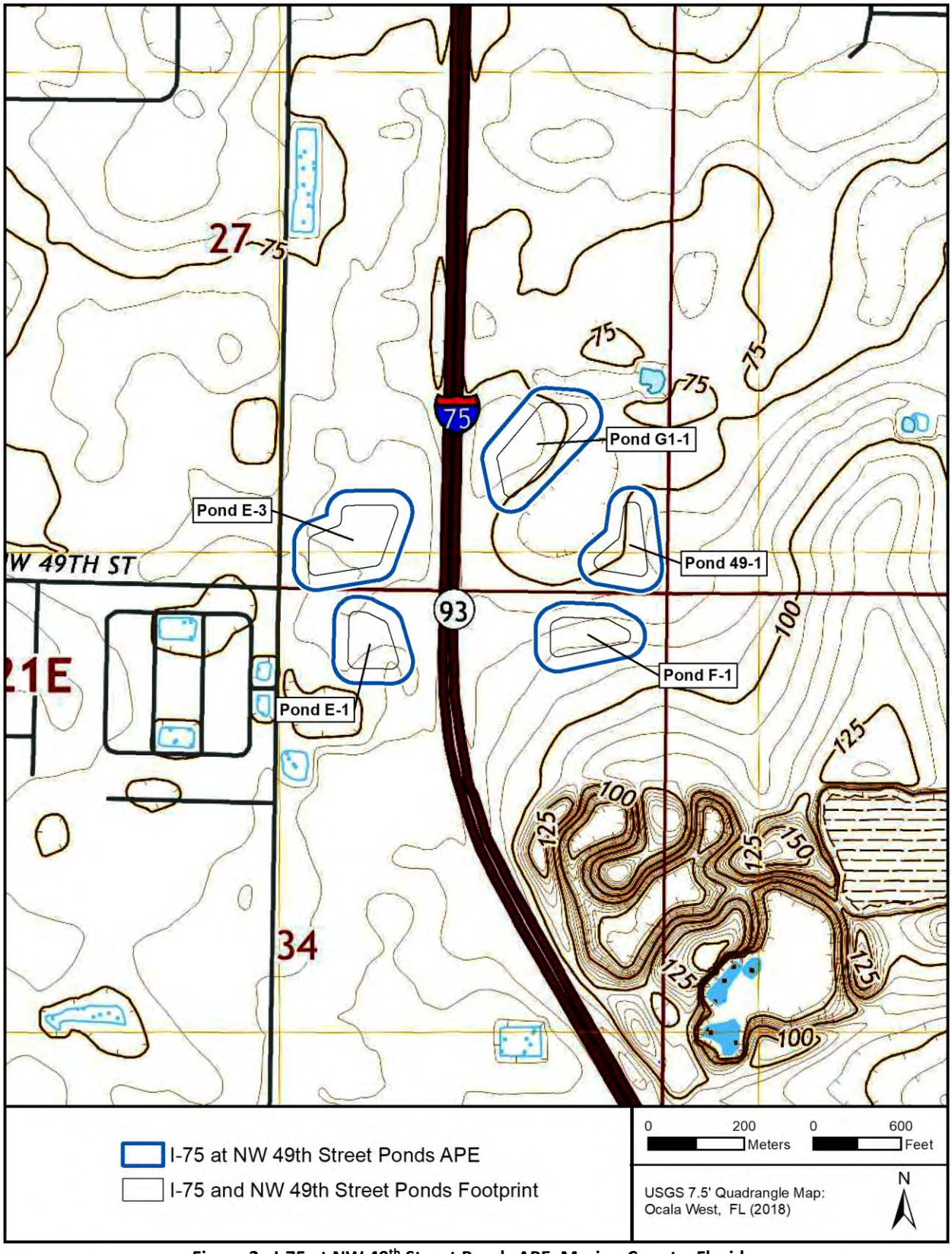

Figure 2. I-75 at NW 49th Street Ponds APE, Marion County, Florida.

with Public Law 113-287 (Title 54 U.S.C.), which incorporates the provisions of the National Historic Preservation Act (NHPA) of 1966, as amended, and the Archeological and Historic Preservation Act of 1979, as amended. The study meets the regulations for implementing NHPA Section 106 found in 36 CFR Part 800 (*Protection of Historic Properties*). This study also complies with Chapter 267 of the Florida Statutes and Rule Chapter 1A-46, Florida Administrative Code. All work was performed in accordance with Part 2, Chapter 8 of the FDOT's Project Development and Environment (PD&E) Manual (revised July 2020), as well as the Florida Division of Historical Resources (FDHR) recommendations for such projects, as stipulated in the FDHR's *Cultural Resource Management Standards & Operations Manual, Module Three: Guidelines for Use by Historic Preservation Professionals*. The Principal Investigator for this project meets the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 FR 44716-42).

FLORIDA MASTER SITE FILE REVIEW

A review of the FMSF database updated in July 2020 indicates that two previous surveys intersect the Interstate 75 (I-75) at NW 49th Street Ponds APE (**Table 1; Figure 3**). FMSF Survey No. 1371 was a county-wide historic structure survey carried out by Florida Preservation Services in 1987. This survey recorded 528 historic resources, including one building within the current APE. Because this survey encompassed the entire county, it is not depicted in **Figure 3**. The second previous investigation intersecting the APE was the CRAS for the I-75 at NW 49th Street interchange alignment (FMSF Survey No. 25810), for which the current undertaking is an addendum. The survey covered a total of 434 acres, including the entire APE of Ponds F-1, 49-1, and G1-1. No archaeological or historic resources were documented as a result of this survey. The FMSF review indicates that one historic structure (8MR01660) has been recorded within the APE of Pond E-3 (see **Figure 3**). Resource 8MR01660 (Tenant House) is recorded as a hall and parlor tenant house with gable roof and shed porch. The structure was recorded in 1987 during the Maron County historic structure inventory (FMSF Survey No. 1371) mentioned above. **Figure 3** shows the structure's location as depicted by the FMSF geographic information system (GIS) data; however, SEARCH confirmed that the building was no longer extant during FMSF Survey No. 25810. A letter to the FMSF indicating the demolished or removed status of this resource was provided in Appendix D of the I-75 at NW 49th Street interchange CRAS report.

Table 1. Previous Surveys within the I-75 at NW 49th Street Ponds APE.

FMSF No.	Title	Year	Author
1371	*Marion County Historic and Architectural Survey.*	1987	Florida Preservation Services
25810	*Cultural Resource Assessment Survey in Support of the I-75 (SR 93) at NW 49th Street from the End of NW 49th Street to the End of NW 35th Street Project Development and Environment (PD&E) Study, Marion County, Florida*	2019	SEARCH

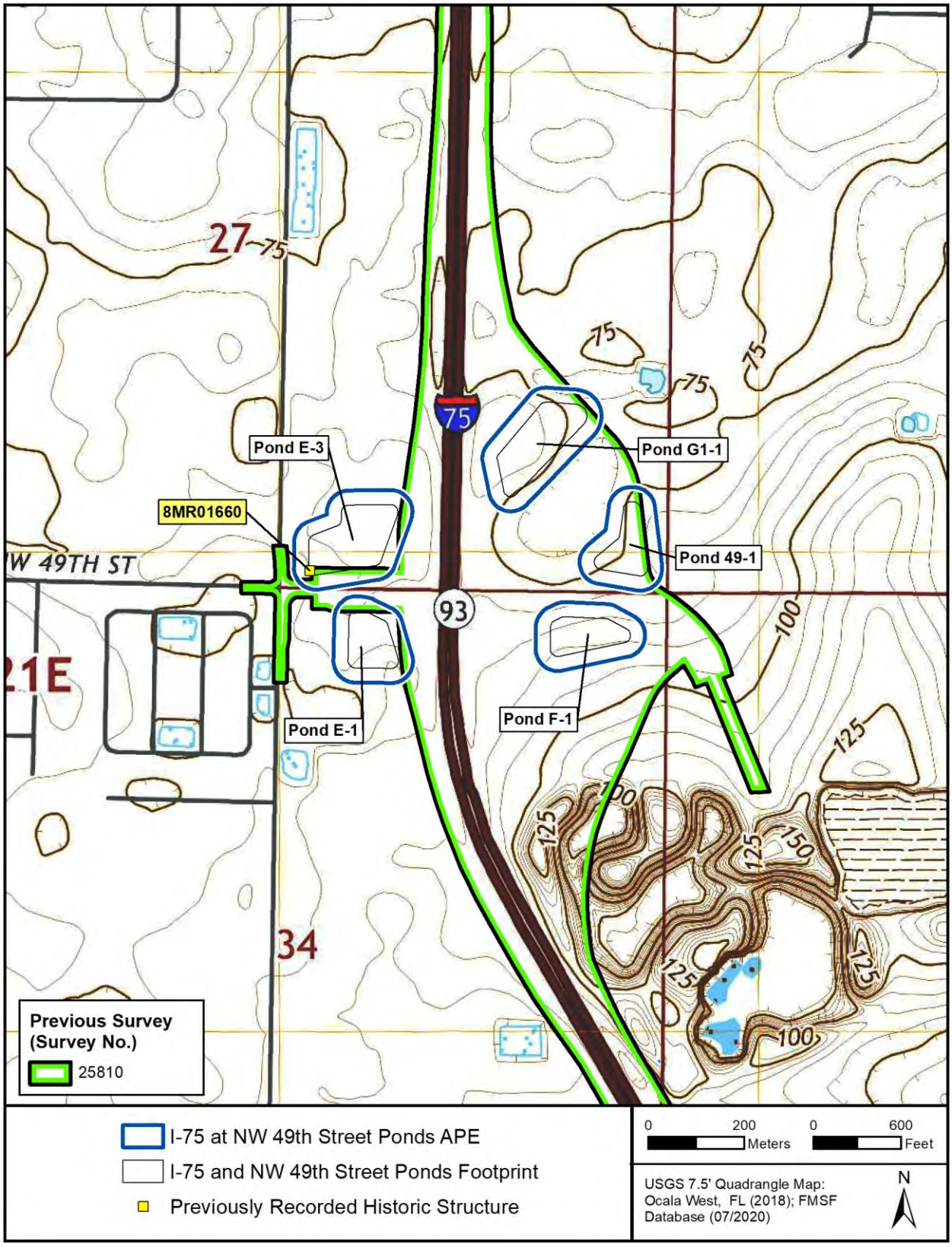

Figure 3. Previously recorded cultural resources and previously conducted cultural resource surveys intersecting the I-75 at NW 49th Street Ponds APE.

SURVEY METHODOLOGY

Archaeological Field Methods

Based on an examination of environmental variables (soil drainage, access to wetlands and freshwater resources, and relative elevation), as well as the results of previously conducted surveys, the potential for prehistoric archaeological sites to be present within the project area was considered to be moderate to low in the two unsurveyed pond locations. The soils in these ponds are well drained (**Figure 4**); however, no viable freshwater sources are present in the vicinity (see **Figure 2**). The absence of significant freshwater sources tends to indicate a low probability for prehistoric sites. Because a historic structure, 8MR01660, once stood near the edge of the Pond E-3 footprint, Ponds E-1 and E-3 were considered to have a moderate probability for historic archaeological resources.

The ponds were visually examined via pedestrian survey for the presence of exposed artifacts and aboveground features (e.g., structural remains and prehistoric mounds). In addition, the survey included systematic subsurface shovel testing within the proposed pond footprint at 50-meter (164-foot) intervals according to a moderate potential for containing buried archaeological sites.

Shovel tests measuring approximately 50 centimeters (19.7 inches) in diameter were excavated to a minimum depth of 100 centimeters below surface (cmbs) (39.4 inches), unless prevented by groundwater inundation or impenetrable zones, such as rubble/fill, limestone, or clay. Excavated soil was screened through 0.25-inch (0.64-centimeter) mesh hardware cloth. The location of each shovel test was marked on aerial photographs of the project area. Global Positioning System (GPS) coordinates were taken for each shovel test with handheld units that used the Wide Area Augmentation System (WAAS). The cultural content, stratigraphy, and environmental setting of each shovel test were recorded on field forms. Field maps marked with shovel tests locations, disturbances, and geographic features are included as **Attachment 1**.

Architectural Field Methods

The architectural field reconnaissance, including a visual examination of the project APE, confirmed the absence of historic-aged buildings or structures (50 years of age or older); therefore, no further work beyond background research and fieldwork occurred.

Laboratory Methods

No artifacts were recovered during the I-75 at NW 49th Street Ponds CRAS; therefore, laboratory analysis was not conducted.

Figure 4. Soil drainage characteristics within the I-75 at NW 49th Street Ponds APE.

Curation

As no artifacts were recovered during the CRAS, preparation for artifact curation was not necessary. The original maps and field notes are presently housed at the Newberry, Florida, office of SEARCH.

Certified Local Government Consultation

There is no Certified Local Government (CLG) listed for Marion County on the current (April 2020) list from the FDHR. As such, no CLG consultation was required for this project.

Procedures to Deal with Unexpected Discoveries

Every reasonable effort has been made during this investigation to identify and evaluate possible locations of prehistoric and historic archaeological sites; however, the possibility exists that evidence of cultural resources may yet be encountered within the project limits. Should evidence of unrecorded cultural resources be discovered during construction activities, all work in that portion of the project area must stop. Evidence of cultural resources includes aboriginal or historic pottery, prehistoric stone tools, bone or shell tools, historic trash pits, and historic building foundations. Should questionable materials be uncovered during the excavation of the project area, representatives of the FDOT, District 5, will assist in the identification and assessment of the materials. If such evidence is found, the FDHR will be notified within two working days.

In the unlikely event that human skeletal remains or associated burial artifacts are uncovered within the project area, all work in that area must stop. The FDOT, District 5, Cultural Resources Coordinator must be contacted. The discovery must be reported to local law enforcement, who will in turn contact the medical examiner. The medical examiner will determine whether or not the State Archaeologist should be contacted per the requirements of Chapter 872.05, Florida Statutes.

SURVEY RESULTS

Archaeology Results

Archaeological survey of the area coinciding with three of the five proposed I-75 at NW 49th Street pond sites (Ponds F-1, 49-1, and G1-1) was completed during survey of the I-75 at 49th Street interchange alternatives (FMSF Survey No. 25810). No archaeological remains were documented at these locations during survey of the interchange footprint. Archaeological investigation of the two unsurveyed ponds sites (Ponds E-1 and E-3) found the terrain to consist of mostly open fields with stands of mixed hardwoods and pine scattered across the landscape.

A total of 13 shovel tests were excavated within the two proposed ponds as part of the current survey. None of these tests were positive for prehistoric or historic cultural remains. The results of the archaeological survey are summarized in **Table 2** and depicted in **Figure 5**.

Table 2. Summary of Archaeological Survey Results from the I-75 at NW 49th Street Ponds CRAS.

Pond Name	Footprint Acreage	Shovel Tests	Comments	Recommendations
E-1	2.52	5	All negative for cultural remains	No further work required
F-1	2.52	Conducted during FMSF Survey No. 25810	All negative for cultural remains	No further work required
49-1	2.39	Conducted during FMSF Survey No. 25810	All negative for cultural remains	No further work required
E-3	4.73	8	All negative for cultural remains	No further work required
Pond G1-1	2.52	Conducted during FMSF Survey No. 25810	All negative for cultural remains	No further work required

Greater detail regarding Ponds E-1 and E-3 and the results of archaeological testing are provided below. Marked field maps depicting shovel test locations, disturbances, and geographic characteristics within the APE can be found in **Attachment 1**. An FDHR survey log sheet is included as **Attachment 2**. No further work is recommended.

Pond E-1

Pond E-1 is located approximately 295 feet (90 meters) west of I-75, southeast of the intersection of NW 49th Street and NW 44th Avenue. The proposed pond footprint is situated within a regularly maintained grassy field with a few stands of oaks and pine (**Figure 6**). A total of five shovel tests were excavated within the Pond E-1 footprint at 50-meter (164-foot) intervals; none of these tests were positive for cultural material, including artifacts or other evidence of the previously recorded, currently demolished, structure 8MR01660 (see **Figure 5**). A typical soil profile observed in shovel tests excavated within Pond E-1 consisted of dark yellowish-brown (10YR 4/4) sand with dense limestone gravel from 0 to 15 cmbs (0 to 5.9 inches) above dark grayish-brown (10YR 3/2) sand mottled with strong brown (7.5YR 4/6) fine sand from 15 to 50 cmbs (5.9 to 19.7 inches) above yellowish-brown (10YR 5/6) sand from 50 cmbs (19.7 inches) to the base of the excavation at 100 cmbs (39.4 inches) (see **Figure 6**). No artifacts or cultural features were encountered in subsurface tests or on the surface, and no further archaeological survey is recommended.

Pond E-3

Pond E-3 is located approximately 328 feet (100 meters) west of I-75, northeast of the intersection of NW 49th Street and NW 44th Avenue. The proposed pond footprint is situated in an open field covered with grasses and other low-lying vegetation (**Figure 7**). A total of eight shovel tests were excavated within the Pond E-3 footprint at 50-meter (164-foot) intervals;

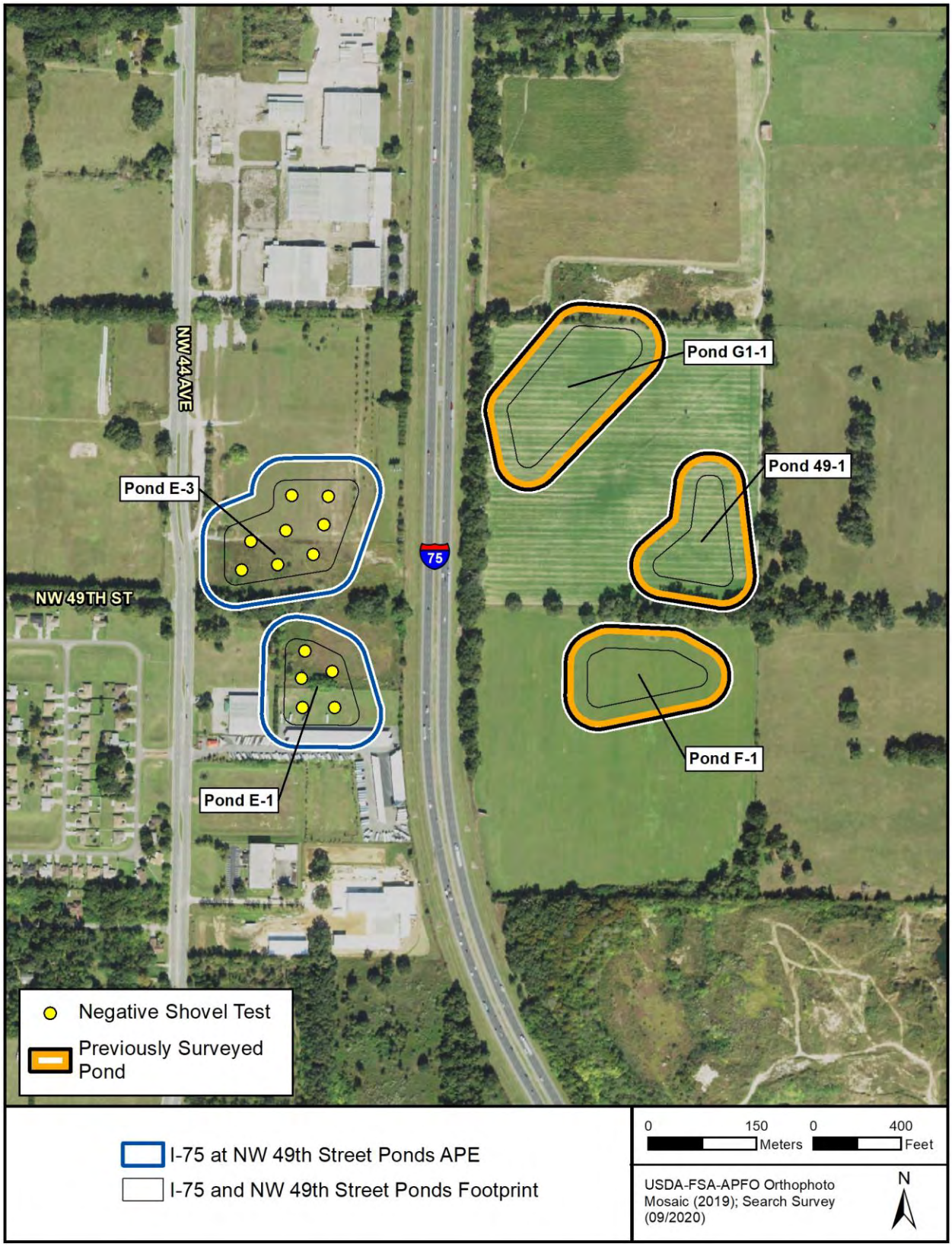

Figure 5. Archaeological survey results.

Figure 6. Left: Terrain and vegetation within the Pond E-1 footprint, view to the west. Right: Typical soil profile observed in the Pond E-1 footprint.

none of these tests were positive for cultural material (see **Figure 5**). A typical soil profile observed in shovel tests within the pond site consisted of dark grayish-brown (10YR 4/2) sand from 0 to 33 cmbs (0 to 13 inches) above dark yellowish-brown (10YR 4/6) fine sand from 33 cmbs (13 inches) to the base of the excavation at 100 cmbs (39.4 inches) (see **Figure 7**). No artifacts or cultural features were encountered in subsurface tests or on the surface, and no further archaeological survey is recommended.

Architecture Results

Background research found that one previously recorded structure (8MR01660) was once located in the Pond E-3 APE. This structure was found to be no longer standing during SEARCH's 2019 survey of the I-75 at NW 49th Street interchange alignment. The architectural field reconnaissance conducted as part of the present survey, including visual examination of the project APE, confirmed the absence of historic-aged buildings or structures.

Figure 7. Left: Terrain and vegetation in the Pond E-3 footprint, view to the north. Right: Typical shovel test profile observed in the Pond E-3 footprint.

CONCLUSIONS

This technical memorandum details the results of a CRAS of five preferred pond locations in Marion County, Florida. The FDOT, District 5, is proposing to construct five retention ponds (Ponds E-1, E-3, F-1, G1-1, and 49-1) associated with a new interchange and new roads leading to the interchange with the extension of NW 49th Street and NW 35th Street. The current ponds CRAS is an addendum to a 2019 SEARCH survey report titled *Cultural Resource Assessment Survey in Support of the I-75 (SR 93) at NW 49th Street from the End of NW 49th Street to the End of NW 35th Street Project Development and Environment (PD&E) Study, Marion County, Florida* (FMSF Survey No. 25810). Three of the five pond sites (PondsF-1, 49-1, and G1-1) were situated within the APE of the original interchange CRAS and, therefore, require no further cultural resource survey. The remaining two pond sites (Ponds E-1 and E-3) are located outside the initial interchange CRAS APE and were surveyed as part of the current investigation. The current study includes archaeological and architectural history survey of the two unsurveyed pond locations.

Archaeological survey completed during the CRAS for the I-75 at NW 49th Street interchange alternatives encountered no archaeological remains in the areas coinciding with Ponds F-1, 49-1, and G1-1. Archaeological investigation of the two unsurveyed pond sites (Ponds E-1 and E-3) for the present investigation found an environment of mostly open fields with stands of mixed hardwoods and pine scattered across the landscape. A total of 13 shovel tests were excavated within the two proposed ponds as part of the current survey. None of these tests were positive for prehistoric or historic cultural remains.

Background research indicates that one previously recorded structure (8MR01660) was once located in the Pond E-3 APE. This structure was found to be no longer standing during SEARCH's 2019 survey of the I-75 at NW 49th Street interchange alignments. The architectural field reconnaissance conducted as part of the present survey, including visual examination of the project APE, confirmed the absence of historic-aged buildings or structures. A demolished or removed resource letter for 8MR01660 was included as part of the I-75 at NW 49th Street CRAS report submittal to the State Historic Preservation Officer (SHPO).

No NRHP-eligible or -listed resources were identified within the I-75 at NW 49th Street Ponds APE. It is the opinion of SEARCH that the proposed project will have no effect on cultural resources listed or eligible for listing in the NRHP. No further work is recommended.

REFERENCES CITED

Florida Division of Historical Resources (FDHR)

2002 *Cultural Resources Management Standards & Operational Manual, Module Three: Guidelines for Use By Historic Preservation Professionals*. Florida Division of Historical Resources, Tallahassee.

Florida Preservation Services

1987 *Marion County Historic and Architectural Survey*. Florida Master Site File Survey No. 1371. Report on file, Florida Division of Historical Resources, Tallahassee.

SEARCH

2012 *Cultural Resource Assessment Survey in Support of the I-75 (SR 93) at NW 49th Street from the End of NW 49th Street to the End of NW 35th Street Project Development and Environment (PD&E) Study, Marion County, Florida.* Florida Master Site File Survey No. 25810. Report on file, Florida Division of Historical Resources, Tallahassee.

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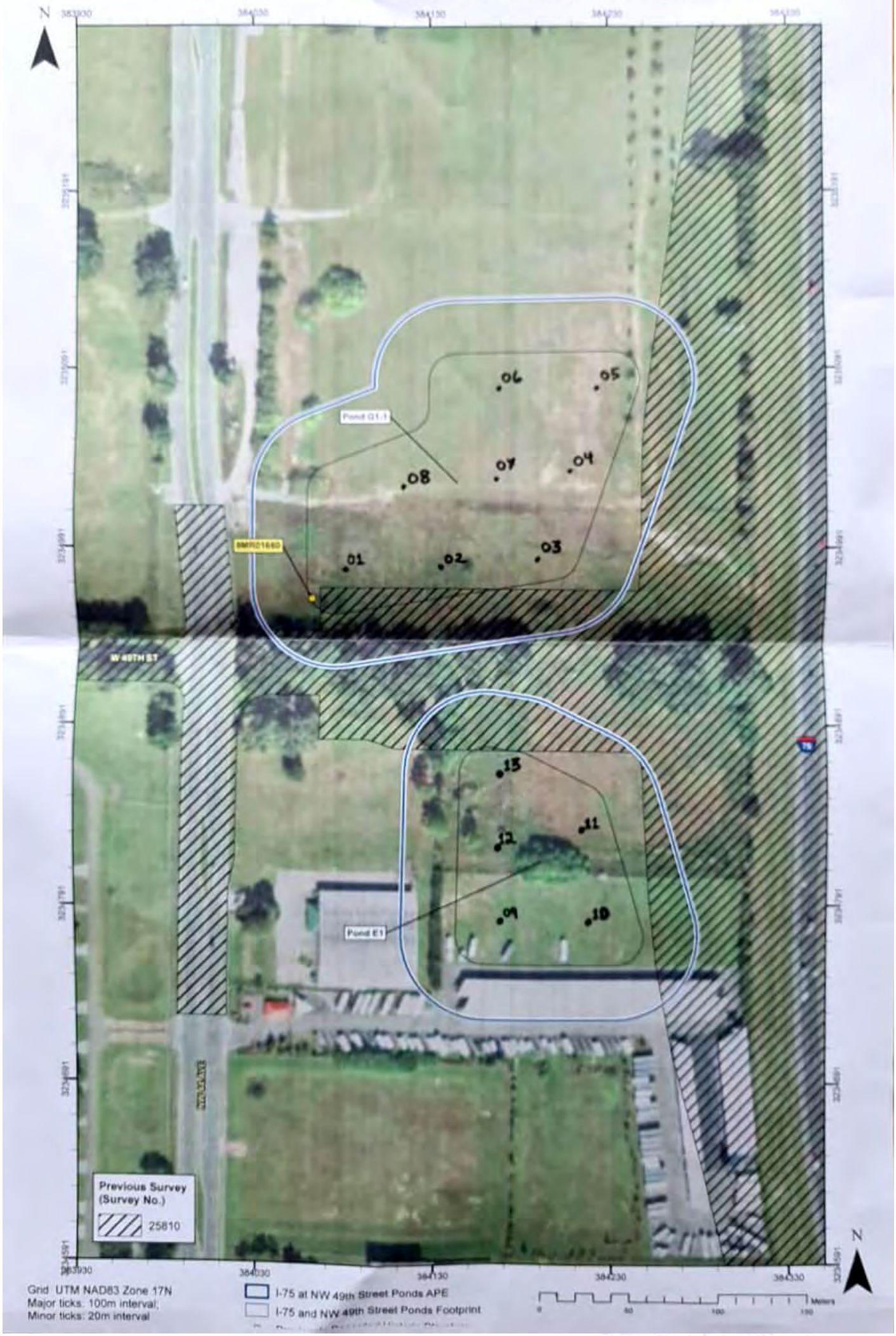
ATTACHMENT 1:

MARKED FIELD MAPS



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ATTACHMENT 2:

FDHR SURVEY LOG SHEET

Ent D (FMSF only) _____

Survey Log Sheet

Florida Master Site File
Version 5.0 3/19

Survey # (FMSF only) _____

Consult *Guide to the Survey Log Sheet* for detailed instructions.

Manuscript Information

Survey Project (name and project phase)

CRAS OF THE I-75 (SR 93) AT NW 49TH STREET POND SITES

Report Title (exactly as on title page)

TECHNICAL MEMORANDUM: CULTURAL RESOURCE ASSESSMENT SURVEY OF THE I-75 (SR 93) AT NW 49TH STREET POND SITES, MARION COUNTY, FLORIDA

Report Authors (as on title page) 1. RabbySmith, Steven 3. _____ 2. _____ 4. _____

Publication Year 2020 **Number of Pages in Report** (do not include site forms) 13

Publication Information (Give series, number in series, publisher and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*.)

Report on file at SEARCH, Newberry, Florida. SEARCH Project No. 3954-17098. FPID No. 435209-1.

Supervisors of Fieldwork (even if same as author) Names Jon Simon Suarez

Affiliation of Fieldworkers: Organization Southeastern Archaeological Research City Jacksonville

Key Words/Phrases (Don't use county name, or common words like *archaeology*, *structure*, *survey, architecture, etc.*)

1. Ponds survey 3. New interchange 5. SR 93 7. _____
2. Interstate 75 4. 8MR01660 6. _____ 8. _____

Survey Sponsors (corporation, government unit, organization, or person funding fieldwork)

Name Catherine B. Owen Organization Florida Dept of Transportation - District 5

Address/Phone/E-mail 719 S. Woodland Blvd. Deland, FL 32720, catherine.owen@dot.state.fl.us

Recorder of Log Sheet Steven RabbySmith **Date Log Sheet Completed** 9-29-2020

Is this survey or project a continuation of a previous project? ☐No ☒Yes: **Previous survey #s (FMSF only)** 25810

Project Area Mapping

Counties (select every county in which field survey was done; attach additional sheet if necessary)

1. Marion 3. _____ 5. _____
2. _____ 4. _____ 6. _____

USGS 1:24,000 Map Names/Year of Latest Revision (attach additional sheet if necessary)

1. Name OCALA WEST Year 2018 4. Name _____ Year _____
2. Name _____ Year _____ 5. Name _____ Year _____
3. Name _____ Year _____ 6. Name _____ Year _____

Field Dates and Project Area Description

Fieldwork Dates: Start 9-8-2020 End 9-9-2020 **Total Area Surveyed** (fill in one) _____hectares 7.25 acres

Number of Distinct Tracts or Areas Surveyed _____

If Corridor (fill in one for each) **Width:** _____meters _____feet **Length:** _____kilometers _____miles

Florida Master Site File / Div. of Historical Resources / R.A. Gray Bldg / 500 S Bronough St., Tallahassee, Florida 32399-0250
Phone 850.245.6440, Fax 850.245.6439, Email: SiteFile@dos.myflorida.com

Survey Log Sheet

Survey #_____

Research and Field Methods

Types of Survey (select all that apply): ☒archaeological ☐architectural ☐historical/archival ☐underwater ☐damage assessment ☐monitoring report ☐other(describe): _____

Scope/Intensity/Procedures

Pedestrian reconnaissance and subsurface testing at 50-meter intervals; architecture windshield survey.

Preliminary Methods (select as many as apply to the project as a whole)

☐Florida Archives (Gray Building)	☐library research- *local public*	☒local property or tax records	☒other historic maps	☐LIDAR
☐Florida Photo Archives (Gray Building)	☐library-special collection	☐newspaper files	☒soils maps or data	☐other remote sensing
☒Site File property search	☐Public Lands Survey (maps at DEP)	☒literature search	☒windshield survey	
☒Site File survey search	☐local informant(s)	☐Sanborn Insurance maps	☒aerial photography	

☐other (describe): _____

Archaeological Methods (select as many as apply to the project as a whole)

☐Check here if **NO** archaeological methods were used.

☐surface collection, controlled	☐shovel test-other screen size	☐block excavation (at least 2x2 m)	☐metal detector
☐surface collection, **un**controlled	☐water screen	☐soil resistivity	☐other remote sensing
☒shovel test-1/4"screen	☐posthole tests	☐magnetometer	☒pedestrian survey
☐shovel test-1/8" screen	☐auger tests	☐side scan sonar	☐unknown
☐shovel test 1/16"screen	☐coring	☐ground penetrating radar (GPR)	
☐shovel test-unscreened	☐test excavation (at least 1x2 m)	☐LIDAR	

☐other (describe): _____

Historical/Architectural Methods (select as many as apply to the project as a whole)

☐Check here if **NO** historical/architectural methods were used.

☐building permits	☐demolition permits	☐neighbor interview	☐subdivision maps
☐commercial permits	☒windshield survey	☐occupant interview	☒tax records
☐interior documentation	☒local property records	☐occupation permits	☐unknown

☐other (describe): _____

Survey Results

Resource Significance Evaluated? ☐Yes ☒No

Count of Previously Recorded Resources 0 **Count of Newly Recorded Resources** 0

List Previously Recorded Site ID#s with Site File Forms Completed (attach additional pages if necessary)

List Newly Recorded Site ID#s (attach additional pages if necessary)

Site Forms Used: ☐Site File Paper Forms ☒Site File PDF Forms

REQUIRED: Attach Map of Survey or Project Area Boundary

SHPO USE ONLY	SHPO USE ONLY	SHPO USE ONLY

Origin of Report: ☐872 ☐Public Lands ☐UW ☐1A32 # _____ ☐Academic ☐Contract ☐Avocational ☐Grant Project # _____ ☐Compliance Review: CRAT # _____

Type of Document: ☐Archaeological Survey ☐Historical/Architectural Survey ☐Marine Survey ☐Cell Tower CRAS ☐Monitoring Report ☐Overview ☐Excavation Report ☐Multi-Site Excavation Report ☐Structure Detailed Report ☐Library, Hist. or Archival Doc ☐Desktop Analysis ☐MPS ☐MRA ☐TG ☐Other: _____

Document Destination: Plottable Projects **Plotability:** _____

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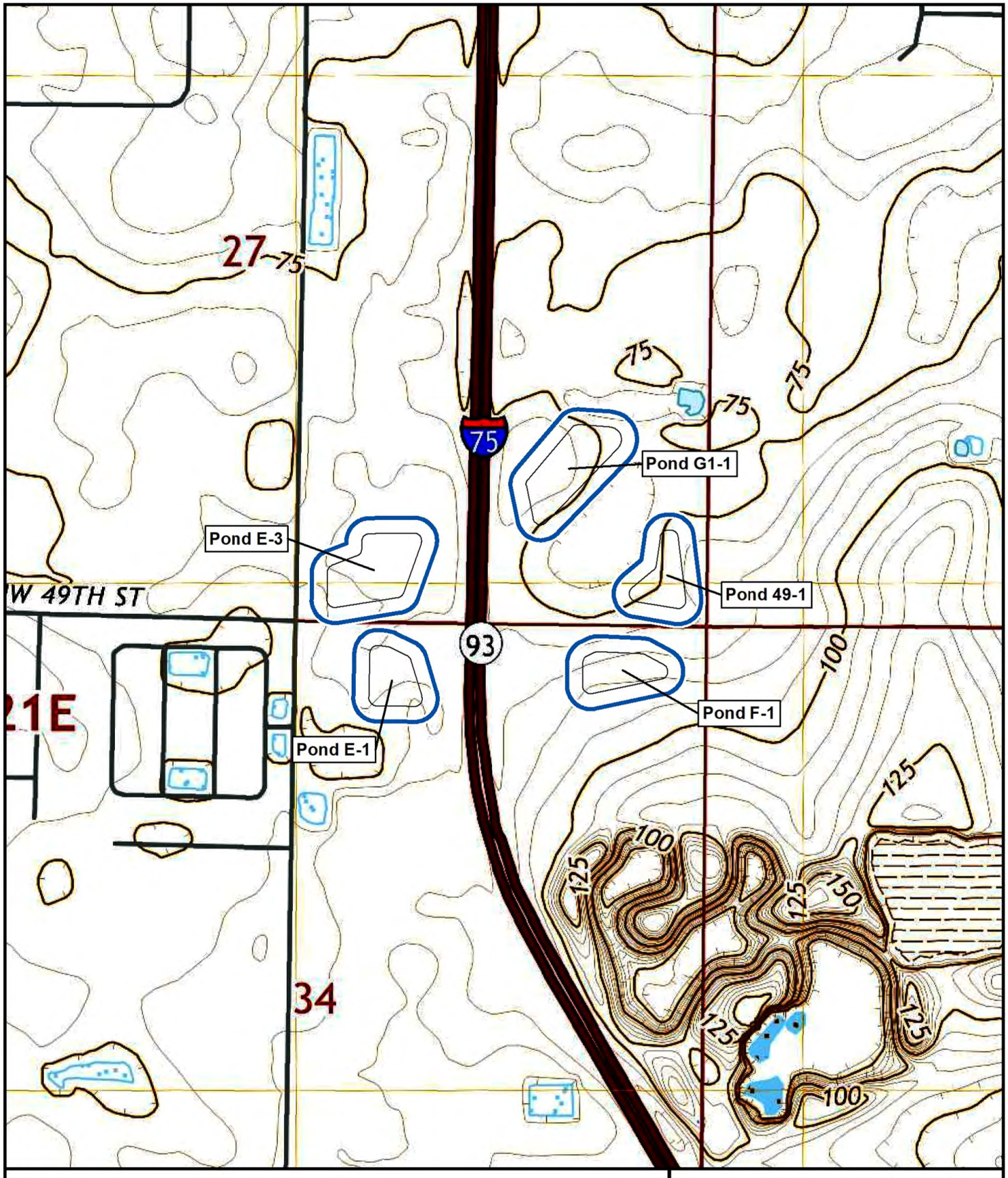
27
75
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Pond G1-1
Pond E-3
Pond 49-1
W 49TH ST
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Pond F-1
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34
I-75 at NW 49th Street Ponds APE
I-75 and NW 49th Street Ponds Footprint
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200
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Feet
USGS 7.5' Quadrangle Map:
Ocala West, FL (2018)
N