



Professional Engineers, Planners & Land Surveyors

June 21, 2022

VIA ELECTRONIC MAIL ONLY

Donna Marie Collins, Esq.
Lee County Hearing Examiner
1500 Monroe Street – Suite 218
Fort Myers, FL 33901

Reference: DCI2021-00011 – OWL CREEK RESERVE MINOR RPD
HEARING DATE: JUNE 23, 2022
APPLICANT'S 48-HOUR NOTICE AND EXHIBIT/WITNESS LISTS

Dear Madam Hearing Examiner:

The applicant has reviewed the Staff Report dated April 6, 2022 and received on June 9, 2022 and has identified no unresolved issues. The Applicant submits the following clarifications/corrections and supplemental information which has been coordinated with staff and no objections have been received to date.

Staff Report

1. Page 6, 2nd to last paragraph, second to last sentence typo: should be two-family attached not detached
2. Page 7, 2nd paragraph, typo: should be Policy 125.1.2 not 115.1.2
3. Page 8, 4th line, typo: should be Policy 124.1.1 not 123.1.1
4. Page 8, 20th line, typo: should be 13.95 acres instead of 13.99
5. Page 12, 2nd sentence, clarification: The site proposes to connect to FGUA for wastewater but proposes to connect to Lee County Utilities for potable water.

Staff Report Attachment C: Recommended Conditions and Deviations

6. Page 3, Condition 5, 3rd line, typo: "...direct all other traffic to the main entrance located to the west."
7. Page 4, Condition 6: Propose to delete condition 6 and combine with Condition 16.
8. Page 4, Condition 8: Propose rewording since 1.62 acres of upland restoration does not meet indigenous as outlined in the proposed CPA Text language which states "*The indigenous preserve may consist of preserved existing indigenous wetlands and/or uplands and/or created or restored wetlands, flowways, or Rare and Unique upland habitats.*":
Condition 8: "...168.41 acres of indigenous open space and 1.62 acres of upland restoration (total of 170.03 acres) in substantial compliance with the Master Concept Plan dated July 12, 2021, last revised April 22, 2022 per the following breakdown..."
9. Page 4, Condition 11: Propose to update wetland impact acreage and reword condition similar to proposed Deviation 3 conditions. Please note that pursuant to Attachment Y, Page 2 there is a net gain in wetland function on the property as a result of the project so no mitigation payments are anticipated.: "*Prior to the issuance of a development order proposing wetland impacts (up to 13.95 acres), the applicant must submit a copy of the*

mitigation receipt of payment or mitigation plans for the ~~13.99 acres of~~ wetland impacts associated with the development order to the Lee County Department of Community Development."

10. Page 5, Condition 14. The Surface and Ground Water Monitoring Plan should not be attached to the zoning resolution, so propose following revision. A copy of the Water Resources Report submitted with the application is attached for reference.: *"Prior to local development order approval, the developer must provide the **attached** Surface Water and Groundwater Monitoring Plan on file with this zoning case with the following modifications..."*
11. Page 6, Condition 15: Propose revision since cannot connect to utilities prior to DO approval.: *"Prior to local development order approval, the development **plans** must demonstrate connection to public utilities for water and wastewater services."*
12. Page 6, Condition 16: Propose revision to combine with deleted Condition 6: *"Prior to issuance of a local development order, a preliminary plat showing the drainage and access easement must be submitted for review and approval that permits Lee County access to the floodway to allow for the right but not the obligation to maintain the floodway per LDC 10-328. The easement must be granted at the time of the first plat for the project."*
13. Page 6, Condition 17: Propose revision similar to proposed Deviation 3 conditions.: *"At time of local development order for the multi-slip docking facility, the multi-slip docking facility is limited to 96 boat slips and the remaining 234 boat slips cannot be created into slip credits."*
14. Page 6, Condition 18: Propose revision similar to proposed Deviation 3 conditions.: *"Prior to issuance of a local development order for the multi-slip docking facility, the developer must demonstrate..."*
15. Page 6, Condition 19: Propose revision similar to proposed Deviation 3 conditions.: *"Prior to issuance of a local development order for the multi-slip docking facility, the Indigenous Habitat Management Plan, received March 15, 2022, littoral marsh plant list must be updated to include red mangroves installed at 1 gallon 8-foot on center around the perimeter of the tidal lagoon."*
16. Page 6, Condition 20: Cannot add kayak/canoe launch to Great Calusa Blueway map until it is constructed and available for public use. Propose revision: *"~~Prior to issuance of a local development order, the developer must demonstrate that~~ for the boat ramp, limited to kayak and canoe launch, ~~has been~~ will be subject to a condition that the County will include the boat ramp on The Great Calusa Blueway upon completion of construction and issuance of a certificate of completion for the boat ramp. The boat ramp, limited to kayak and canoe launch, must remain open to the public during daylight hours and cannot be for the exclusive use of the residents."*

17. Pages 7-8: Renumber deviations 2 through 4.

Staff Report Attachment P: Environmental Staff Report

18. Page 3, last paragraph and page 4, first paragraph, typos: Wetlands are 120.31 not 121.43, Other surface waters are 10.13 not 10.12, and wetland impacts are 13.95 not 13.99.
19. Attachments C to Environmental Staff Report: Please see attached email correspondence between Dex Bender and SFWMD regarding minor corrections to the OSW and Wetland acreages in the formal wetland determination.
20. Attachment D to Environmental Staff Report: Formal Wetland Determination Survey – See updated version reflecting minor corrections that was emailed to SFWMD staff.
21. Attachment E to Environmental Staff Report: Vegetation Map (FLUCCS) – See attached updated FLUCCS and Wetlands Map showing the minor corrections.
22. Attachment F to Environmental Staff Report: See attached replacement for Figure 2. Enhancement & Preservation Map (Pages 231 & 287 of 514 of PDF) which has been

updated to correct wetland impact hatch south of Trout Creek. This exhibit shows correct Rare & Unique Upland Preservation areas.

23. Delete old attachment (page 288 of 514 of PDF) Old Rare & Unique Upland Preservation Map that is not accurate. Refer to revised Enhancement & Preservation Map.

Staff Report Attachment R: Indigenous Habitat Management Plan

24. See attached replacement for Figure 2. Enhancement & Preservation Map (Page 353 of 514 of PDF).

For the Applicant's Exhibit List, the Applicant will refer to the Lee County Land Development Code, the Lee Plan, the Staff Report including its Attachments, this letter with attachments and submitted application materials and intends to provide the following Exhibits at the hearing:

- Applicant's PowerPoint Presentation
- 24"x36" Master Concept Plan

The following individuals will be attending the hearing as the Applicant's potential witnesses. Those marked by an asterisk (*) will be factual and expert witnesses who will testify during the Applicant's presentation-in-chief, while the remaining potential witnesses will be available for questions and rebuttal, if necessary.

1. *Stacy Ellis Hewitt, AICP (Planning and Zoning)
2. *Ashley Palmer (Ecology) - Resume Attached
3. *Yury Bykau, P.E. (Transportation Planning)
4. *David R. Underhill, Jr., P.E. (Surface Water Management)
5. *Hans Wilson, P.E. (Marine Engineering)
6. *Michael J. Jessich (Hydrogeology/Water Resources) – Resume attached
7. Daniel L. Trescott, MSP (Hurricane Preparedness)

In addition to the above, Richard Akin and Russell Schropp will be attending as counsel for the Applicant.

I look forward to seeing you at the upcoming hearing.

Sincerely,
BANKS ENGINEERING



Stacy Ellis Hewitt, AICP
Director of Planning

Attachments: Applicant's proposed revisions to Conditions and Deviations (strike-through/underline)
Applicant's proposed revisions to Conditions and Deviations (clean)
Hydrogeologic Water Resources Report submitted 10-27-2021
Email correspondence between Dex Bender and SFWMD
Updated Formal Wetland & Surface Water Survey
Vegetation & Wetland Map submitted 03-15-2022
Revised Figure 2. Enhancement & Preservation Map
Analysis of Potential Impacts to Cultural Resources/Historical Resources Impact
Analysis submitted 03-24-2021

Ashley Palmer's Resume
Michael J. Jessich's Resume

cc: Dirk Danley Jr, AICP
Richard Akin, Esq.
Russell P. Schropp, Esq.
Joseph A. Adams, Esq.
Amanda L. Swindle, Esq.
Michael D. Jacob, Esq.

Attachment C – Conditions – Applicant's Proposed Revisions

Section A. - Conditions

1. The development of this project must be consistent with the three-page Master Concept Plan (MCP) entitled "Owl Creek Reserve Minor RPD," prepared by Banks Engineering, Inc., dated last revised 4/12/2022, except as modified by the conditions below. This development must comply with all requirements of the Lee County LDC at the time of local development order, except as may be granted by deviation as part of this planned development. If changes to the MCP are subsequently pursued, appropriate approvals will be necessary.

This project is limited to a total of 380 dwelling units, accessory uses, a boat ramp for paddlecraft, and 96 private boat slips within a multi-slip docking facility.

2. The following limits apply to the project and uses:

- a. Schedule of Uses

Accessory Uses and Structures

Administrative Offices

Boat dockage

Boat ramp, limited to the use of paddlecraft

Clubs, private

Community Gardens

Community Residential Home

Consumption on Premises, clubhouse (indoor and outdoor)

Dwelling Unit -

Single-Family

Two-Family Attached (limited to Tract 1)

Entrance Gate and Gatehouse

Essential Services

Essential Service Facilities, Group I only

Excavation, Water Retention

Fences, Walls

Home care facility

Home occupation

Models: Display center, display group, model home

Multi-slip docking facility (Private on-site recreation facility only)

Parks, Group I

Parking Lot: Accessory

Real Estate Sales Office

Recreational Facilities: Personal, Private-on-site

Residential accessory uses

Signs

Stable: Boarding, Private, limited to lots 40,000 SF or greater in area

Temporary Uses, temporary construction trailers and equipment storage sheds

b. Site Development Regulations

Development Perimeter Setback: 50 feet

Minimum Open Space: (Per Lee Plan Policy 29.2.4): Minimum 60% of which 50% must be indigenous

Single Family

Minimum lot size: 6,500 square feet

Minimum lot width: 40 feet

Minimum lot depth: 100 feet

Minimum Setbacks:

Private Street: 20 feet (15 feet for side-loading garage)

Public Street: 20 feet

Side: 5 feet

Rear: 20 feet (5 feet for accessory structure)

Waterbody: 25 feet

Preserve: 20 feet (10 feet for accessory structure), 30 feet for communities subject to fire

Maximum building height: 35 feet

Maximum lot coverage: 55 percent

Setback for lot line from Owl Creek Boat Works: 100 feet to internal residential lot lines

Two-Family Attached

Minimum lot size: 3,750 square feet

Minimum lot width: 32 feet

Minimum lot depth: 100 feet

Minimum Setbacks:

Private Street: 20 feet (15 feet for side-loading garage)

Public Street: 20 feet

Side: 5 feet (0 feet for common wall unit)

Rear: 20 feet (5 feet for accessory structure)

Waterbody: 25 feet

Preserve: 20 feet (10 feet for accessory structure), 30 feet for communities subject to fire

Maximum building height: 35 feet

Maximum lot coverage: 55 percent

Setback for property line from Owl Creek Boat Works: 100 feet to internal residential lot lines

Recreation Area

Minimum lot size: N/A

Minimum lot width: N/A

Minimum lot depth: N/A

Minimum Setbacks:
Private Street: 20 feet
Public Street: 20 feet
Side: 5 feet
Rear: 20 feet (5 feet for accessory structure)
Waterbody: 25 feet
Preserve: 20 feet (10 feet for accessory structure), 30 feet for communities subject to fire

Maximum building height: 35 feet
Maximum lot coverage: 55 percent

Parking for Private Multi-Slip Docking Facility: 1 parking space for every 3.5 slips

3. Density Derived from Rare and Unique Habitat

The developer may plat up to 339 residential lots upon recording of a conservation easement over a minimum of 106.36 ac. of preserved wetlands and 15.16 acres of Rare & Unique upland Preservation areas as shown on MCP Sheet 2 Density Exhibit. Plat approval for the remaining 41 dwelling units cannot be issued until:

- a) The site preservation and restoration of the 41.28 ac. of Rare & Unique upland restoration as shown on MCP Sheet 2 Density Exhibit is completed and a Certificate of Completion is issued by Lee County; and
- b) A conservation easement is recorded over the 41.28 ac. of Rare & Unique upland restoration areas. Alternatively, the cost of the restoration work on the 41.28 ac. restoration area may be bonded to permit approval of the plat for the additional 41 dwelling units.

4. Owl Creek Road Access

- a. Prior to development order approval, the developer must provide an access easement subject to approval by the County Attorney's Office. This easement must provide access for the existing development that currently utilizes Owl Creek Road. Prior to development order approval, the easement must be properly recorded in the public records of the county at the developer's expense.
- b. The project entrance gate on North River Road at Owl Creek Drive must remain open to allow public access during daylight hours. Access to Owl Creek Boatworks and the existing single-family residence must still be provided 24 hours a day.

5. Secondary Access Signage

As part of the local development order approval proposing the second access from North River Road, the developer must provide signage stating that the secondary access on North River Road is limited for use by residents only and direct all other traffic to the main entrance located to the west.

6. Drainage Easement ~~DELETED~~

~~A drainage easement must be granted at the time of the first plat for the project to allow the County to access the flow-way for the right but not the obligation to maintain the flow-way.~~

7. FEMA Floodway

At the time of local development order approval, areas located in FEMA Regulatory floodways must provide a FEMA No Rise analysis, or the site plan must be revised to avoid the floodway.

8. Open Space

Prior to the issuance of the first development order, the development order plans must depict a total of 168.41 acres of indigenous open space and 1.62 acres of upland restoration (total of 170.03 acres) in substantial compliance with the Master Concept Plan dated July 12, 2021, last revised April 22, 2022 per the following breakdown:

- a. Rare and Unique Upland Preservation 15.16 acres;
- b. Rare and Unique Upland Restoration 41.28 acres;
- c. Upland Restoration 1.62 acres;
- d. Wetland Preservation 23.56 acres;
- e. Wetland Restoration 82.80 acres; and
- f. Surface Waters 5.61 acres.

9. Open Space Phasing

Prior to the issuance of the first development order, the development order plans must depict 60% open space and provide a phasing schedule demonstrating how the open space requirement will be met to support the proposed dwelling units.

10. Recording of Conservation Easement

A conservation easement must be recorded for all areas used towards a density incentive. The conservation easements must be dedicated to the appropriate maintenance entity that provides Lee County or some other public agency acceptable to Lee County with third party enforcement rights. All conservation easements required as part of the planned development must be recorded within five years of the date of the first development order approval.

11. Wetland Impacts

Prior to the issuance of a development order proposing wetland impacts (up to 13.95 acres), the applicant must submit a copy of the mitigation receipt of payment or mitigation plans for the 13.99 acres of wetland impacts associated with the development order to the Lee County Department of Community Development.

12. Indigenous Habitat Management Plan

- a. Prior to the issuance of the first development order, the development order plans must be in substantial compliance with the Indigenous Habitat Management Plan received March 15, 2022.
- b. Prior to the issuance of the first development order, the development order plans must include a schedule for the indigenous preservation and restoration to be completed within at least five consecutive years.
- c. Prior to the issuance of the first development order, the development order plans must include a map depicting where mechanical and hand-removal methods of exotic vegetation removal will be located.
- d. The applicant must submit with the vegetation removal permit survey point maps depicting the preservation and restoration areas and mechanical clearing limits.
- e. The applicant must submit with the vegetation removal permit application a surveyed point map depicting the flushing canal and littoral marsh clearing limits.

13. Northern Buffer Planting Material

Prior to the issuance of the first development order, the development order plans must depict a 25-foot wide buffer within the restoration area that includes 14-foot-in-height native canopy trees, spaced approximately 25-feet-on-center to comply with LDC Section 33-1673.

14. Surface and Ground Water Monitoring

Prior to local development order approval, the developer must provide the **attached** Surface Water and Groundwater Monitoring Plan **on file with this zoning case** with the following modifications:

- a) A Surface Water and Groundwater Monitoring Plan for review and approval by the Lee County Division of Natural Resources. At a minimum, the Surface Water and Groundwater Monitoring Plan must establish the following:
 - I. The overall Goals and Objectives of the Surface Water and Groundwater Monitoring Plan;
 - II. An outfall monitoring schedule during “wet” season of June through September and “dry” season of October through May, for Total Kjeldahl Nitrogen, Ammonia, Total Nitrogen, Nitrite, Nitrate, Chlorophyll A, Total Phosphorus, Chloride, Total Dissolved Solids, Florida PRO, Arsenic, Copper, Mercury, Lead, E. coli, Total Hardness, Field Temperature, Specific Conductance, pH, Dissolved Oxygen, Lake Stage, Water Table Aquifer Elevation, and Sandstone Aquifer Elevation Turbidity and Stage.
 - III. A baseline monitoring event to be part of the monitoring plan that must be completed prior to commencement of construction.
 - IV. Identify the monitoring point locations
 - V. Water quality monitoring data must be provided to the Division of Natural Resources annually for a minimum of 5 years and must include a report with a comparison of State water quality standards, plots of parameters, and recommendations. After five years of meeting or exceeding state water quality monitoring standards, the developer may amend water quality monitoring and reporting after written request, review, and approval by the Division of Natural

Resources. Results must be reported as an Electric Data Deliverable (EDD), in a format approved by the Division of Natural Resources.

- VI. A contingency plan in the event an exceedance of State Water Quality Standards is discovered. This plan must include notification to impacted residents and applicable authorities.

15. Utility Connection

Prior to local development order approval, the development plans must demonstrate connection to public utilities for water and wastewater services.

16. Drainage and Access Easement

Prior to issuance of a local development order, a preliminary plat showing the drainage and access easement must be submitted for review and approval that permits Lee County access to the floodway to allow for the right but not the obligation to maintain the floodway per LDC 10-328. The easement must be granted at the time of the first plat for the project.

17. Maximum Boat Slips

At time of local development order for the multi-slip docking facility, the multi-slip docking facility is limited to 96 boat slips and the remaining 234 boat slips cannot be created into slip credits.

18. Manatee Protection Plan

Prior to issuance of a local development order for the multi-slip docking facility, the developer must demonstrate:

- a) The project complies with the standard manatee construction conditions;
- b) provides manatee education program; and
- c) Prior to issuance of a dock and shore permit, the applicant must pay \$546 per slip for enhanced marine law enforcement.

19. Indigenous Habitat Management Plan

Prior to issuance of a local development order for the multi-slip docking facility, the Indigenous Habitat Management Plan, received March 15, 2022, littoral marsh plant list must be updated to include red mangroves installed at 1 gallon 8-foot on center around the perimeter of the tidal lagoon.

20. Great Calusa Blueway Designation

Prior to issuance of a local development order, the developer must demonstrate that for the boat ramp, limited to kayak and canoe launch, has been will be subject to a condition that the County will include the boat ramp on The Great Calusa Blueway upon completion of construction and issuance of a certificate of completion for the boat ramp. The boat ramp, limited to kayak and canoe launch, must remain open to the public during daylight hours and cannot be for the exclusive use of the residents.

Section B. – Deviations

1. “Deviation (1) seeks relief from Land Development Code (LDC) Section 34-1748(5), which requires a paved turn-around, having a turning radius sufficient to accommodate a U-turn for a single unit truck (SU) vehicle as specified in the AASHTO Green Book current addition to be provided on the ingress side of the gate or gatehouse, to allow ~~no turn-around~~ a paved turn-around, having a turning radius sufficient to accommodate a passenger car as specified in the Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Florida Greenbook) current edition at the eastern resident only gate on North River Road.”

This deviation is APPROVED, subject to the following conditions:

- a. As part of the local development order approval, the developer shall provide signage stating that the eastern access point is a resident only access.
- b. Prior to local development order approval that includes the resident only access gate as designated on the Master Concept Plan, the developer must provide a letter of no objection from the Bayshore Fire Protection and Rescue Service District.

2. Deviation (2) seeks relief from LDC Section 10-296(k)(1), which requires dead-end streets to provide a circular turnaround, to allow a dead-end street with a T-intersection in Tract 1 as shown on the MCP.

This deviation is APPROVED.

3. Deviation (3) seeks relief from LDC Section 10-416(d)(9), which requires a 50-foot wide vegetative buffer landward of nonseawalled natural waterways, to allow the following encroachments as shown on the Master Concept Plan:

- 3A – Tributary to Owl Creek: Tract 3 access road crossing and any necessary improvements on North River Road;
- 3B – Trout Creek: Tract 7 access bridge crossing and existing bridge;
- 3C – Natural basin of Caloosahatchee River: Flushing connection; and
- 3D – Trout Creek: Flushing connection.

This deviation is APPROVED, subject to the following conditions:

- a. 3A - Prior to approval of a development order that includes impacts to the Owl Creek natural waterway and its tributaries, the development order plans must provide detail drawings (including cross sections) of the impacts, limited to 140 feet on the east side and 145 feet on the west side of the Owl Creek tributary accessing Tract 3 and impacts of 25 feet to the east and west of the Owl Creek tributary along North River Road in substantial compliance with sheet 2 and sheet 3 of the Master Concept Plan.
- b. 3B - Prior to approval of a development order that includes impacts to Trout Creek natural waterway, the development order plans must provide detail drawings of the

proposed bridge and existing bridge (including cross sections) that are in substantial compliance with sheet 2 and 3 of the Master Concept Plan. The impacts for the new bridge are limited to 190-feet on the north side and 170 feet along the south side of Trout Creek.

- c. 3C - Prior to approval of a development order that includes impacts to Trout Creek and/or the Caloosahatchee River, the development order plans must be in substantial compliance with the Private Multi-Slip Docking Facility Tidal Lagoon received March 15, 2022 and attached as Attachment T.
- d. 3D - Prior to approval of a development order that includes impacts to Trout Creek and/or the Caloosahatchee River, the development order plans must be in substantial compliance with the Private Multi-Slip Docking Facility Tidal Lagoon received March 15, 2022 and attached as Attachment T.

4. Deviation (4) seeks relief from LDC Section 10-416(d)(6), which requires where proposed roads, drives, or parking areas are located less than 125 feet from existing single-family residential lots, a solid wall or combination berm and solid wall not less than eight feet in height must be constructed not less than 25 feet from the abutting property and landscaped (between the wall and the abutting property) with a minimum of five trees and 18 shrubs per 100 lineal feet or a 30-foot wide Type F buffer with the hedge planted a minimum of 20 feet from the abutting property; to allow no buffer where the proposed internal road will be constructed within 125' of the adjacent single family lot as shown on the MCP.

This deviation is APPROVED.

Attachment C – Conditions – Applicant's Proposed Revisions - Clean

Section A. - Conditions

1. The development of this project must be consistent with the three-page Master Concept Plan (MCP) entitled "Owl Creek Reserve Minor RPD," prepared by Banks Engineering, Inc., dated last revised 4/12/2022, except as modified by the conditions below. This development must comply with all requirements of the Lee County LDC at the time of local development order, except as may be granted by deviation as part of this planned development. If changes to the MCP are subsequently pursued, appropriate approvals will be necessary.

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Two-Family Attached (limited to Tract 1)

Entrance Gate and Gatehouse

Essential Services

Essential Service Facilities, Group I only

Excavation, Water Retention

Fences, Walls

Home care facility

Home occupation

Models: Display center, display group, model home

Multi-slip docking facility (Private on-site recreation facility only)

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Parking Lot: Accessory

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Stable: Boarding, Private, limited to lots 40,000 SF or greater in area

Temporary Uses, temporary construction trailers and equipment storage sheds

b. Site Development Regulations

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Minimum Open Space: (Per Lee Plan Policy 29.2.4): Minimum 60% of which 50% must be indigenous

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Minimum lot width: 40 feet

Minimum lot depth: 100 feet

Minimum Setbacks:

Private Street: 20 feet (15 feet for side-loading garage)

Public Street: 20 feet

Side: 5 feet

Rear: 20 feet (5 feet for accessory structure)

Waterbody: 25 feet

Preserve: 20 feet (10 feet for accessory structure), 30 feet for communities subject to fire

Maximum building height: 35 feet

Maximum lot coverage: 55 percent

Setback for lot line from Owl Creek Boat Works: 100 feet to internal residential lot lines

Two-Family Attached

Minimum lot size: 3,750 square feet

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Setback for property line from Owl Creek Boat Works: 100 feet to internal residential lot lines

Recreation Area

Minimum lot size: N/A

Minimum lot width: N/A

Minimum lot depth: N/A

Minimum Setbacks:
Private Street: 20 feet
Public Street: 20 feet
Side: 5 feet
Rear: 20 feet (5 feet for accessory structure)
Waterbody: 25 feet
Preserve: 20 feet (10 feet for accessory structure), 30 feet for communities subject to fire

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7. FEMA Floodway

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14. Surface and Ground Water Monitoring

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- a) A Surface Water and Groundwater Monitoring Plan for review and approval by the Lee County Division of Natural Resources. At a minimum, the Surface Water and Groundwater Monitoring Plan must establish the following:
 - I. The overall Goals and Objectives of the Surface Water and Groundwater Monitoring Plan;
 - II. An outfall monitoring schedule during “wet” season of June through September and “dry” season of October through May, for Total Kjeldahl Nitrogen, Ammonia, Total Nitrogen, Nitrite, Nitrate, Chlorophyll A, Total Phosphorus, Chloride, Total Dissolved Solids, Florida PRO, Arsenic, Copper, Mercury, Lead, E. coli, Total Hardness, Field Temperature, Specific Conductance, pH, Dissolved Oxygen, Lake Stage, Water Table Aquifer Elevation, and Sandstone Aquifer Elevation Turbidity and Stage.
 - III. A baseline monitoring event to be part of the monitoring plan that must be completed prior to commencement of construction.
 - IV. Identify the monitoring point locations
 - V. Water quality monitoring data must be provided to the Division of Natural Resources annually for a minimum of 5 years and must include a report with a comparison of State water quality standards, plots of parameters, and recommendations. After five years of meeting or exceeding state water quality monitoring standards, the developer may amend water quality monitoring and reporting after written request, review, and approval by the Division of Natural Resources. Results must be reported as an Electric Data Deliverable (EDD), in a format approved by the Division of Natural Resources.

- VI. A contingency plan in the event an exceedance of State Water Quality Standards is discovered. This plan must include notification to impacted residents and applicable authorities.

15. Utility Connection

Prior to local development order approval, the development plans must demonstrate connection to public utilities for water and wastewater services.

16. Drainage and Access Easement

Prior to issuance of a local development order, a preliminary plat showing the drainage and access easement must be submitted for review and approval that permits Lee County access to the floodway to allow for the right but not the obligation to maintain the floodway per LDC 10-328. The easement must be granted at the time of the first plat for the project.

17. Maximum Boat Slips

At time of local development order for the multi-slip docking facility, the multi-slip docking facility is limited to 96 boat slips and the remaining 234 boat slips cannot be created into slip credits.

18. Manatee Protection Plan

Prior to issuance of a local development order for the multi-slip docking facility, the developer must demonstrate:

- a) The project complies with the standard manatee construction conditions;
- b) provides manatee education program; and
- c) Prior to issuance of a dock and shore permit, the applicant must pay \$546 per slip for enhanced marine law enforcement.

19. Indigenous Habitat Management Plan

Prior to issuance of a local development order for the multi-slip docking facility, the Indigenous Habitat Management Plan, received March 15, 2022, littoral marsh plant list must be updated to include red mangroves installed at 1 gallon 8-foot on center around the perimeter of the tidal lagoon.

20. Great Calusa Blueway Designation

Issuance of a local development order for the boat ramp, limited to kayak and canoe launch, will be subject to a condition that the County will include the boat ramp on The Great Calusa Blueway upon completion of construction and issuance of a certificate of completion for the boat ramp. The boat ramp, limited to kayak and canoe launch, must remain open to the public during daylight hours and cannot be for the exclusive use of the residents.

Section B. – Deviations

1. "Deviation (1) seeks relief from Land Development Code (LDC) Section 34-1748(5), which requires a paved turn-around, having a turning radius sufficient to accommodate a U-turn for a single unit truck (SU) vehicle as specified in the AASHTO Green Book current addition to be provided on the ingress side of the gate or gatehouse, to allow ~~no turn-around~~ a paved turn-around, having a turning radius sufficient to accommodate a passenger car as specified in the Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Florida Greenbook) current edition at the eastern resident only gate on North River Road."

This deviation is APPROVED, subject to the following conditions:

- a. As part of the local development order approval, the developer shall provide signage stating that the eastern access point is a resident only access.
- b. Prior to local development order approval that includes the resident only access gate as designated on the Master Concept Plan, the developer must provide a letter of no objection from the Bayshore Fire Protection and Rescue Service District.

2. Deviation (2) seeks relief from LDC Section 10-296(k)(1), which requires dead-end streets to provide a circular turnaround, to allow a dead-end street with a T-intersection in Tract 1 as shown on the MCP.

This deviation is APPROVED.

3. Deviation (3) seeks relief from LDC Section 10-416(d)(9), which requires a 50-foot wide vegetative buffer landward of nonseawalled natural waterways, to allow the following encroachments as shown on the Master Concept Plan:

- 3A – Tributary to Owl Creek: Tract 3 access road crossing and any necessary improvements on North River Road;
- 3B – Trout Creek: Tract 7 access bridge crossing and existing bridge;
- 3C – Natural basin of Caloosahatchee River: Flushing connection; and
- 3D – Trout Creek: Flushing connection.

This deviation is APPROVED, subject to the following conditions:

- a. 3A - Prior to approval of a development order that includes impacts to the Owl Creek natural waterway and its tributaries, the development order plans must provide detail drawings (including cross sections) of the impacts, limited to 140 feet on the east side and 145 feet on the west side of the Owl Creek tributary accessing Tract 3 and impacts of 25 feet to the east and west of the Owl Creek tributary along North River Road in substantial compliance with sheet 2 and sheet 3 of the Master Concept Plan.
- b. 3B - Prior to approval of a development order that includes impacts to Trout Creek natural waterway, the development order plans must provide detail drawings of the proposed bridge and existing bridge (including cross sections) that are in substantial compliance with sheet 2 and 3 of the Master Concept Plan. The

impacts for the new bridge are limited to 190-feet on the north side and 170 feet along the south side of Trout Creek.

- c. 3C - Prior to approval of a development order that includes impacts to Trout Creek and/or the Caloosahatchee River, the development order plans must be in substantial compliance with the Private Multi-Slip Docking Facility Tidal Lagoon received March 15, 2022 and attached as Attachment T.
 - d. 3D - Prior to approval of a development order that includes impacts to Trout Creek and/or the Caloosahatchee River, the development order plans must be in substantial compliance with the Private Multi-Slip Docking Facility Tidal Lagoon received March 15, 2022 and attached as Attachment T.
4. Deviation (4) seeks relief from LDC Section 10-416(d)(6), which requires where proposed roads, drives, or parking areas are located less than 125 feet from existing single-family residential lots, a solid wall or combination berm and solid wall not less than eight feet in height must be constructed not less than 25 feet from the abutting property and landscaped (between the wall and the abutting property) with a minimum of five trees and 18 shrubs per 100 lineal feet or a 30-foot wide Type F buffer with the hedge planted a minimum of 20 feet from the abutting property; to allow no buffer where the proposed internal road will be constructed within 125' of the adjacent single family lot as shown on the MCP.

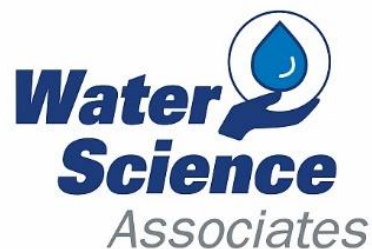
This deviation is APPROVED.

Water Resources Report Owl Creek Reserve North Olga, Lee County, Florida

Banks Engineering, Inc.
10511 Six Mile Cypress Parkway, Suite 101
Fort Myers, Florida 33966



OCTOBER 2021
(REVISED PER REVIEW COMMENTS
DATED SEPTEMBER 10, 2021)



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SECTION A

EXECUTIVE SUMMARY

The Owl Creek Reserve project is a proposed residential development located in Sections 18 and 19, Township 43 South, Range 26 East in North Olga, Lee County Florida. The project is situated immediately south of State Road 78 and approximately 0.5 miles east of State Road 31 between the Caloosahatchee River to the south, Babcock Ranch Community to the north, and rural and agricultural areas to the east and west. The site consists of approximately 340 acres of predominantly farm fields and undisturbed areas. The fields have a historic agricultural irrigation water use extending from the 1950's through present with water use exceeding 700,000 gallons per day from the Sandstone Aquifer.

Projected irrigation water demands for the project are lower than the historic agricultural use and proposed irrigation supplies will be developed from a combination of stormwater harvesting of the project stormwater management system with supplements from the Sandstone Aquifer. Neither of the proposed irrigation water sources are currently used or projected to be used by Lee County Utilities in the vicinity of the project area. Potable water supplies will be provided by Lee County Utilities and wastewater utility services will be provided by Florida Governmental Utility Authority (FGUA) with the privately funded expansion of services to the project site.

The proposed Owl Creek Reserve development currently lies within the North Olga Community Planning area and is designated within the Future Land Use Map (Lee Plan Map 1, page 1 of 7) as Rural and Wetland categories. The North Olga Community Planning area provides protections to the rural character of the community through restrictions on residential density. The proposed project recognizes that low-density clustered residential development is appropriate for the area and can contribute to the County's water resource improvement initiatives through enhanced onsite water management design. The project has provisions of development that achieve conservation and enhancement of important environmental resources, including water quality, hydrological, and infrastructure enhancements, and protection of the rural character of the surrounding community. The project specifically recognizes the subject property's strategic location proximate to the Caloosahatchee Estuary watershed and its ability to implement and further the County's long-term goals of protecting groundwater and improving surface water management in northern Lee County.

SECTION B INTRODUCTION

Project Overview

The Owl Creek Reserve project is an approximately 340 acre proposed residential development located in Sections 18 and 19, Township 43 South, Range 26 East in North Olga, Lee County Florida within the North Olga Community Planning area. Refer to **Figure 1** for a regional location map of the project site. The property was formerly used for agricultural purposes and consists of fallow farm fields and heavily impacted wetland areas. The project historically maintained an agricultural water use permit and currently maintains a livestock water use permit for the Blackburn Groves project.

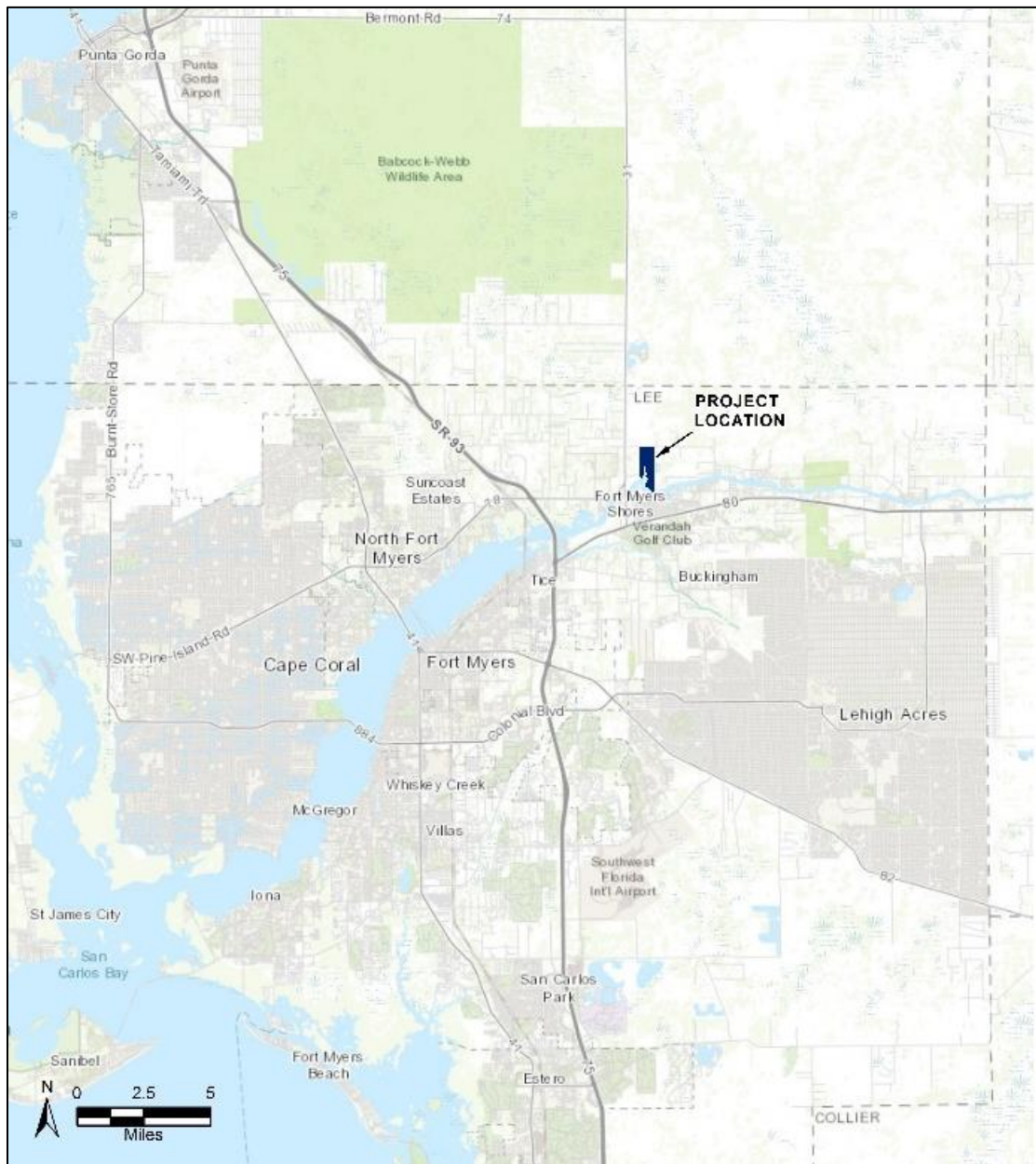


Figure 1. Location of the Owl Creek Reserve Project

The project is situated immediately south of State Road 78 and approximately 0.5 miles east of State Road 31 between the Caloosahatchee River to the south, Babcock Ranch Community to the north, and rural and agricultural areas to the east and west. The project lies within the Tidal North watershed and the Trout Creek sub-watershed of the Caloosahatchee Estuary (**Figure 2**). Tributaries of the Caloosahatchee Estuary watershed including Trout Creek and Owl Creek, flow through the project area from the north and northeast. The Owl Creek Reserve project will include a number of stormwater management lakes to provide improved flood management and water quality treatment of stormwater runoff. A number of onsite design and control features are planned to protect and enhance the water quality in the onsite lakes prior to leaving the development into the adjacent watersheds. The stormwater management system will be designed to meet or exceed state and local water quality standards.

Past Land Use and Water Use

The Owl Creek Reserve project falls within three parcels that have been used in the past for agricultural production. The project site was largely undisturbed land until the early 1950's when it was converted to agricultural use. Review of aerial photography indicates that active agricultural activity continued through the mid to late 2000's. The project site, known as Blackburn Groves, maintained a water use permit (WUP No. 36-00594-W) for irrigation through the South Florida Water Management District (SFWMD) since the mid 1980's. Information on file with the SFWMD indicates that the farm irrigated up to 115 acres of citrus groves until October 1996 when the permit was allowed to expire. The permit was renewed in 2008 for the continued agricultural operations and most recently modified in 2013 for the conversion of citrus grove irrigation to a livestock water supply. The current water use permit allocates about 0.076 million gallons on a maximum monthly basis and 0.92 million gallons on an annual average basis. Permitted allocations are from the Sandstone Aquifer via two existing groundwater wells. Prior to the conversion to livestock water supply, the facility was permitted for a peak allocation of 22.6 million gallons per month (0.73 mgd) on a maximum monthly basis and 105 million gallons per year (0.29 mgd) on an annual average basis.

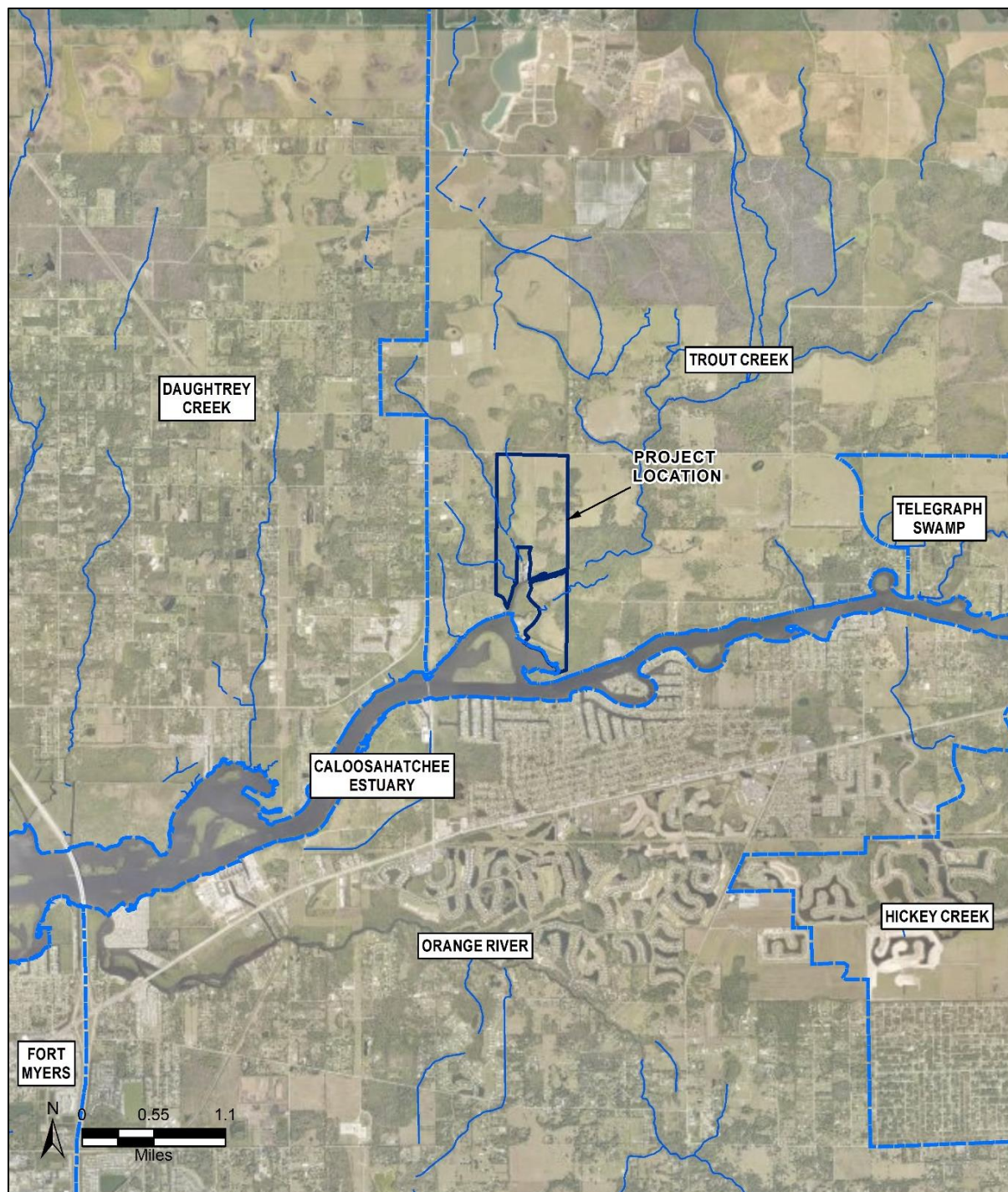


Figure 2. Owl Creek Reserve Project Site, Regional Watershed Setting

SECTION C

GROUNDWATER RESOURCES

Introduction

The hydrostratigraphy underlying the Owl Creek Reserve project is typical for northern Lee County with a series of aquifers and confining beds occupying the Surficial, Intermediate, and Floridan Aquifer Systems. **Figure 3** provides a schematic showing the groundwater sources in north Lee County. In general, freshwater sources are the Water Table and the Sandstone Aquifers. The underlying Mid-Hawthorn Aquifer of the Intermediate Aquifer System is slightly to moderately brackish and generally low yielding and inconsistent in occurrence and continuity in the project area. Highly brackish and saline water sources include the Lower Hawthorn Aquifer and underlying zones of the Upper Floridan Aquifer.

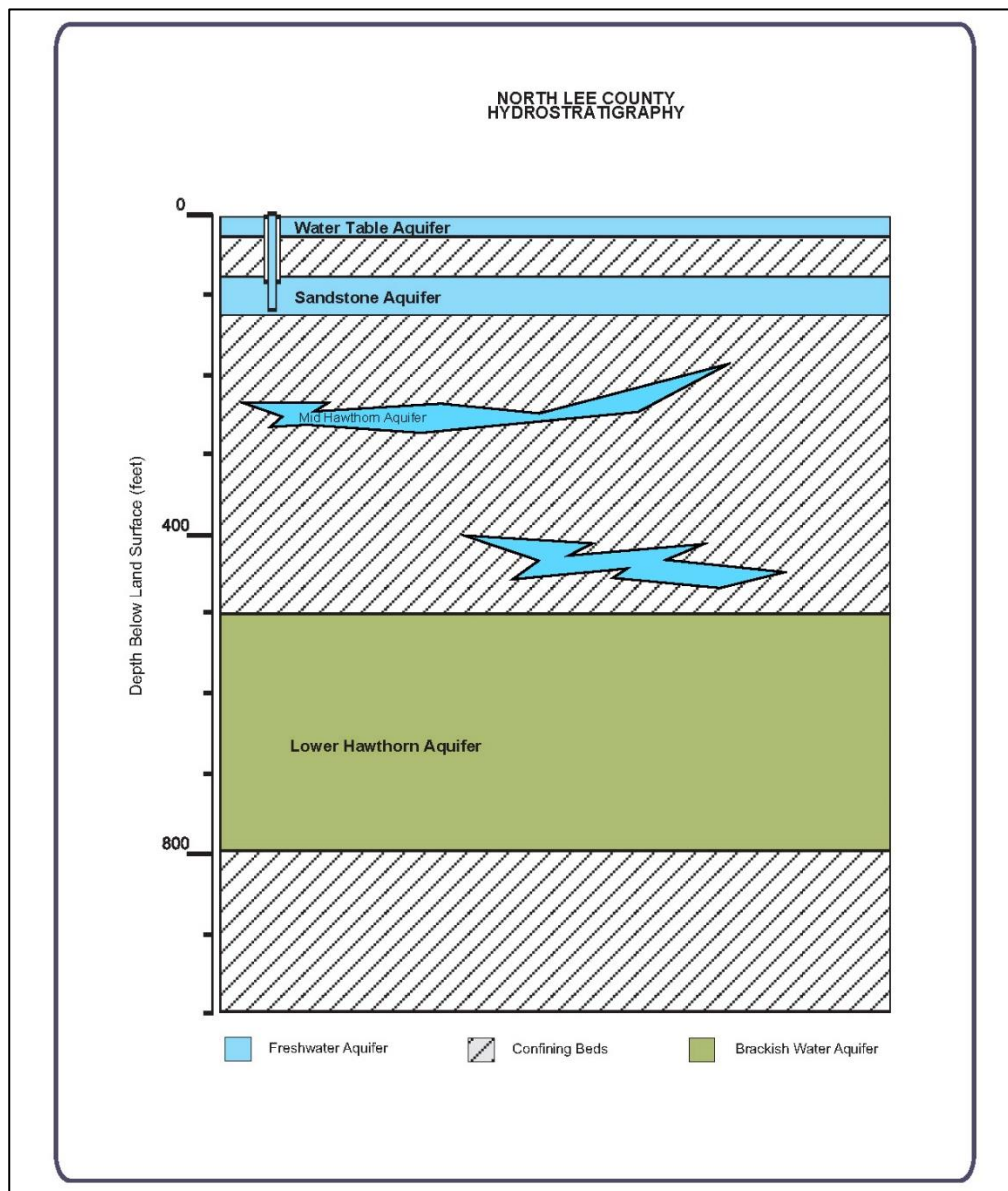


Figure 3. Aquifer System Underlying Owl Creek Reserve in North Lee County

Four primary aquifers are of significance beneath the Owl Creek Reserve project site and are described below in order of increasing depth. These are the Water Table, the Sandstone, the Mid-Hawthorn, and the Lower Hawthorn Aquifers. Deeper underlying aquifers are too saline for direct use at the site. The primary sources of information used to characterize the groundwater resources include information from Lee County, South Florida Water Management District, and U. S. Geological Society.

Water Table Aquifer

The Water Table aquifer is an unconfined aquifer that covers all of Lee County. The aquifer is defined as occurring at or near land surface downward to the top of the first regional confining bed. Beneath the Owl Creek Reserve project, the thickness of the aquifer is approximately 10 to 20 feet. The aquifer generally consists of sand and shell overlying porous limestone beneath the project site. The limestone portions of the aquifer typically have a moderate to low permeability and relatively thin in the project area making the aquifer unsuitable for medium to large capacity water production wells. Further the Water Table Aquifer in the vicinity of the project site is over drained by the influences of its topography and vicinity to the Caloosahatchee River. Use of the aquifer is typically limited by the potential for impacts to natural wetland areas from drawdown in the aquifer water level. The aquifer is recharged directly by rainfall with discharges occurring by way of natural or man-made surface drainage features, evaporation and transpiration, and by pumpage from wells. Groundwater flow and levels in the aquifer fluctuate seasonally in response to climatic conditions but are also impacted by local and regional drainage features. Water quality in the aquifer is generally very good and useful for both drinking water and irrigation water needs although high concentrations of naturally occurring iron and organic material are common. Lake extraction is the most efficient use of this aquifer for irrigation purposes, which also typically results in less iron and organic staining, as well as reduced impact to area water levels. Approximately 60-80 feet of confining beds consisting of low permeable clays and silts of the Upper Hawthorn Confining unit are encountered at the base of the Water Table Aquifer.

Sandstone Aquifer

The Sandstone Aquifer underlies the Hawthorn Confining unit and Water Table Aquifer in the northern portion of Lee County. Review of lithologic logs of nearby wells indicates that in the area of the project site, the top of the Sandstone is expected to occur approximately 100 feet below land surface. The Sandstone Aquifer is the uppermost aquifer in the Intermediate Aquifer System and consists of unconsolidated sands and poorly consolidated sandstone. The unit varies in thickness in the area of the project site, ranging from about 30 and 45 feet. The Sandstone aquifer is predominately fresh and can become slightly to moderately brackish closer to the Caloosahatchee River. Salinities however, are generally low enough for either general irrigation supply or blending with fresher water sources for irrigation supply. Productivity of the aquifer is moderate and is the typical water source used in the area of the Owl Creek Reserve project. The aquifer is recharged where overlying confining beds are thin or absent in Hendry and Glades County. Discharge from the aquifer generally occurs as pumpage from wells. Fluctuations in seasonal water levels are common near the Owl Creek Reserve project project site with wet season levels near their historic highs (near land surface) and dry season water levels often at depths of 10 feet. However, dry season water levels can be found at depths of excess of 30 feet in the Lehigh Acres area due to excessive usage. Use of the Sandstone Aquifer to supplement stormwater from the onsite lake system is proposed to meet irrigation demands at the Owl Creek Reserve project.

Mid Hawthorn Aquifer

The Mid-Hawthorn Aquifer is the lowermost aquifer in the Intermediate Aquifer System in Lee County. It consists of moderately permeable limestones of the Arcadia Formation and is separated from the overlying Sandstone Aquifer and underlying Lower Hawthorn Aquifer by thick clay confining beds of the Peace River and Arcadia Formations. It has moderate yield characteristics in western Lee County and exists as a sequence of interbedded limestones and marls that occur at depths between 200 and 300 feet below land surface. The interbedded limestone units generally thin moving eastward in north Lee County, making the aquifer unsuitable for medium to large capacity water production wells. This aquifer is recharged north of Charlotte County where the aquifer is much nearer to land surface and overlying confinement is thin or nonexistent.

Lower Hawthorn Aquifer

The Lower Hawthorn Aquifer is the uppermost water bearing unit in the Upper Floridan Aquifer System. The aquifer has good yield potential but contains brackish water that is only useful for irrigation if blended with other freshwater resources and is only useful for public water supply using reverse osmosis or other desalination technologies. The top of this aquifer is anticipated to be encountered at depths between about 500 and 600 feet below grade at the Owl Creek Reserve project site. The aquifer is separated from the overlying Mid-Hawthorn Aquifer by the Lower Hawthorn Confining Zone which consists of marine silts and clays of very low permeability. The Lower Hawthorn Confining Zone has a thickness of about 200 feet. The aquifer is recharged in the central Florida highlands area between Tampa and Orlando where the aquifer beds are near land surface and confining beds are thin or absent. In general, the South Florida Water Management District supports increased use of the Lower Hawthorn/Upper Floridan aquifer especially for public water supply use. Lee County Utilities uses the Lower Hawthorn Aquifer to feed a reverse osmosis water treatment plant for development of public water supply. The Owl Creek Reserve project proposes no use of the Lower Hawthorn Aquifer.

SECTION D

SURFACE WATER RESOURCES

Onsite Lakes

The development will include stormwater management lakes to provide flood control and water quality treatment. A number of design and control features are planned for the Owl Creek Reserve project to protect and enhance the quality of water in the lakes and adjacent watersheds and provide for hydrological improvements on the project site (refer to **Figure 5** for a conceptual site plan). These elements include collection, treatment, and conveyance of stormwater within the project's water management system, the use of filter marshes, and other water treatment BMP's, and centralized control over the application of irrigation water.



Figure 4. Typical Stormwater Management Lake

The stormwater management system will include the collection and detention of all stormwater generated on the site and will provide stormwater treatment through various dry and wet detention elements within the development footprint that meet or exceed water quality requirements of the South Florida Water Management District, the Florida Department of Environmental Protection, and Lee County. The Owl Creek Reserve project will include a Lake Management Plan following BMP's for erosion control and bank stabilization; deep lake management; and fertilizer and pesticide use to reduce nitrogen and phosphorous loading to the stormwater management system. Additionally, the project will incorporate multiple required best management practices to ensure a maximum potential treatment stormwater including a water quality treatment train consisting of a combination of sediment traps, dry / wet detention, and planted filter marshes that provides a high level of treatment of both onsite generated stormwater and regional flow-through of surrounding area watersheds.

Centralized control of the operation of the irrigation system results in improved adherence to Best Management Practices and water use compliance than if individual homeowners have control of these functions or the ability to override irrigation programming. Application of fertilizers and pesticides within the common areas in the yards of lots/parcels will be controlled and managed by the Homeowners Association. Similarly, the irrigation of residential lots and common areas will be centrally controlled to meet conditions of applicable water use permits, local ordinances, and periodic water use restrictions. Individual homeowners will not have the ability to override irrigation times or quantities.

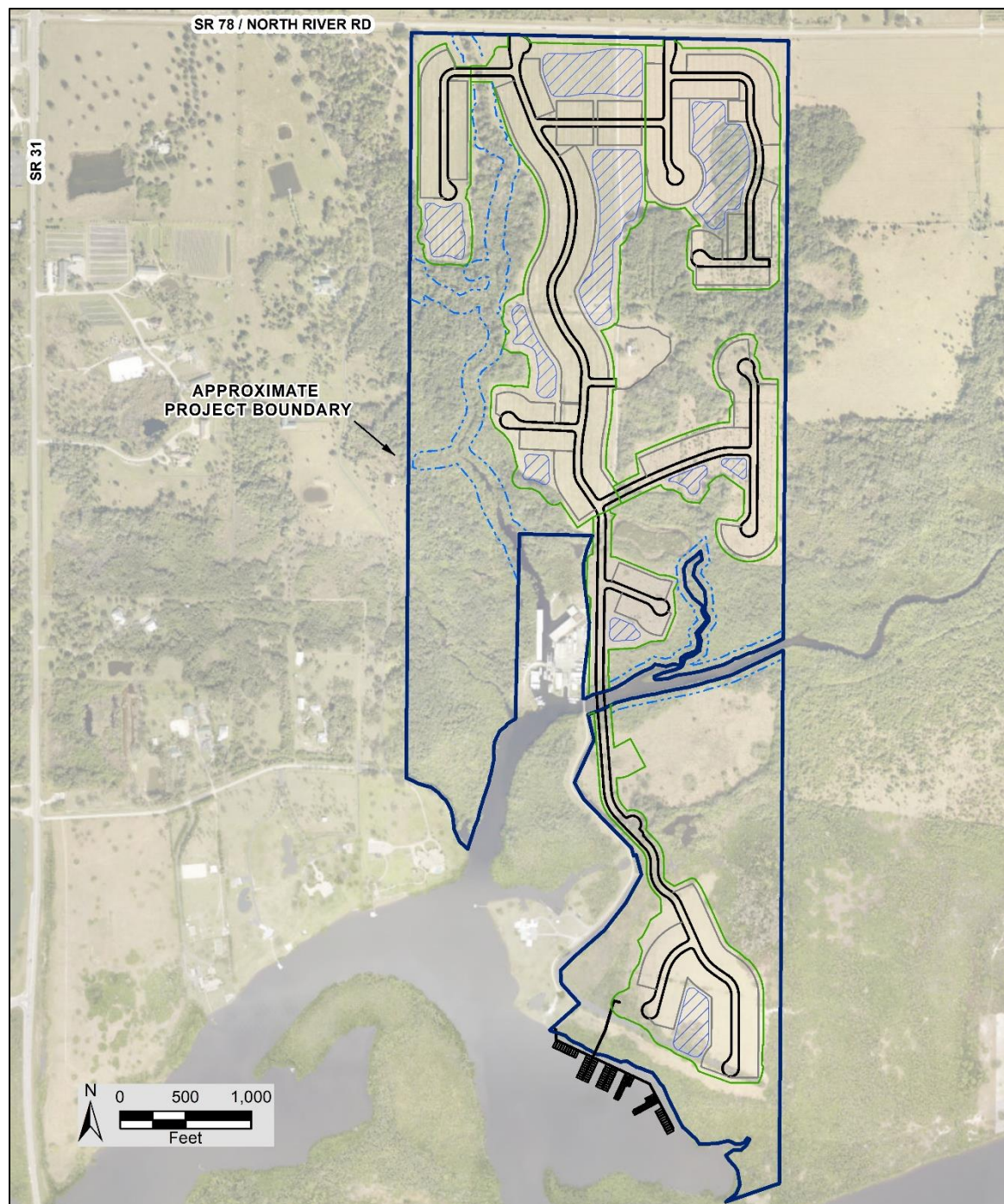


Figure 5. Conceptual Site Plan

SECTION E

WATER DEMANDS

Water demands at the proposed project will consist of in-house potable water and outside irrigation uses. An amendment to Lee County's Future Water Service Areas, Lee County Utilities (Lee Plan Map 6) is proposed to include the Owl Creek Reserve project to allow for privately funded expansion of water service to the development. Potable water service will be provided by Lee County Utilities and Wastewater service will be provided by Florida Governmental Utility Authority (FGUA) with privately funded expansion of the utility services. Irrigation demands will be met with onsite sources including harvesting stormwater from the onsite stormwater lake system with re-supply by groundwater withdrawals. The lake withdrawals will provide an efficient and low impact method for tapping the Water Table Aquifer underlying the project site and effectively harvest available stormwater supplies. Lake volume storage will minimize potential impacts to surface and groundwater levels. Recharge of the lakes from the Sandstone Aquifer will minimize the potential for wetland impacts and provide an effective blending system for slightly brackish water known to occur in the aquifer near the River. The project has a long history of permitted agricultural withdrawals from the Sandstone Aquifer that are larger than the proposed irrigation demands for the Owl Creek Reserve project.

Potable Water and Wastewater

Lee County Utilities and FGUA will provide potable water and wastewater services respectively to the project. This will eliminate the need for individual domestic self-supply wells and individual onsite sewage treatment and disposal systems (septic tanks) which are common for many rural areas of Lee County. Provision of central public utilities to the Owl Creek Reserve project will provide a number of desirable environmental and hydrological advantages. Supplying potable water to the project from the nearby water treatment facility will remove a potentially competing water use from the freshwater aquifers and allow for improved planning and control of area water resources. Similarly, provision of a central sewer system will eliminate septic tank discharges in the area providing a higher level of protection to the existing water resources.

Irrigation Water

The project was historically permitted for Sandstone Aquifer withdrawals for agricultural production. Water use permit WUP No. 36-00594-W was established in the mid 1980's and later modified in 2013 for the conversion of citrus grove irrigation to a livestock water supply. The current water use permit allocates about 0.076 million gallons on a maximum monthly basis and 0.92 million gallons on an annual average basis. Permitted allocations are from the Sandstone Aquifer via two existing groundwater wells. Prior to the conversion to livestock water supply, the facility was permitted for 0.73 million gallons per day on a maximum monthly basis and 0.29 million gallons per day on an annual average basis.

The Owl Creek Reserve project will include stormwater management lakes that are hydraulically connected to the Water Table Aquifer. The proposed irrigation system will consist of stormwater harvesting from the stormwater lake management system with these withdrawals re-supplied by groundwater. The proposed source of groundwater to supplement lake withdrawals will be fresh to mildly brackish groundwater from the Sandstone Aquifer. Actual percentages of lake and groundwater withdrawals will be determined during the water use permitting process with the SFWMD. However, the combination of any use of mildly

brackish groundwater and fresh stormwater will maintain a chloride level of less than 200 mg/l in compliance with SFWMD policy. Use of stormwater as a primary irrigation resource reduces use of potable water supplies, provides additional stormwater treatment, reduces offsite discharges of stormwater, reduces nutrient levels of the stormwater outfalls, and reduces reliance on groundwater systems being used to supply potable water to Lee County Utilities and home sites on individual wells.

Irrigated area for the Owl Creek Reserve project is estimated to be 70 acres of turf grass and landscaping. Using standard Blaney-Criddle calculations used by the SFWMD for irrigation supply permitting, this acreage will result in irrigation water demands of 11.27 million gallons per month (MGM) on a maximum monthly basis (or about 0.36 million gallons per day) and 80.15 million gallons per year on an average annual basis (0.22 million gallons per day). **Table 1** provides a summary of historic water use on the property and proposed allocations for the Owl Creek Reserve project. Projected irrigation demands for the Owl Creek Reserve project indicate a reduction in the historic maximum monthly use by approximately 50%.

Table 1. Summary of Historic and Proposed Allocations.

Allocation	Historically Permitted 36-00594-W	Currently Permitted 36-00594-W	Proposed Total Allocations	Change from Historic Allocations	Change from Current Allocations
Maximum Monthly (MGM)	22.6 MG	0.08 MG	11.27 MG	-11.33 MG	+11.19 MG
Annual Average (MGY)	105 MG	0.92 MG	80.15 MG	-24.85 MG	+79.23 MG

The proposed project will also explore the use of computerized irrigation systems that incorporate onsite data and conditions to provide irrigation on an as-needed bases rather than simply on a scheduled basis. Such systems have been shown to result in reductions in irrigation water use by over 30% in Southwest Florida. In general, these systems operate based on computer software that takes into account soil moisture, rainfall, and elements that influence evaporation and transpiration to determine which locations require irrigation, how much irrigation is needed, and when to apply irrigation water.

SECTION F

IRRIGATION IMPACT ASSESSMENT

Water Levels

Water Science Associates reviewed hydrographs of nearby monitoring wells maintained by Lee County Division of Natural Resources (LCDNR) and surface water data maintained by the SFWMD for the Caloosahatchee River Station (S79_T), located approximately 3.5 miles east of the project and west of the Franklin Lock site shown on **Figure 6**. The nearest wells to the project site with long term water level data (1992 to present) are 27-GW2, located about 1.25 miles northwest of the project site in the Trout Creek sub-watershed and wells 26-GW2 and 26-GW1 located about 1.6 miles west and 1.1 miles southwest of the project site respectively in the Daughtrey Creek sub-watershed, was also reviewed.

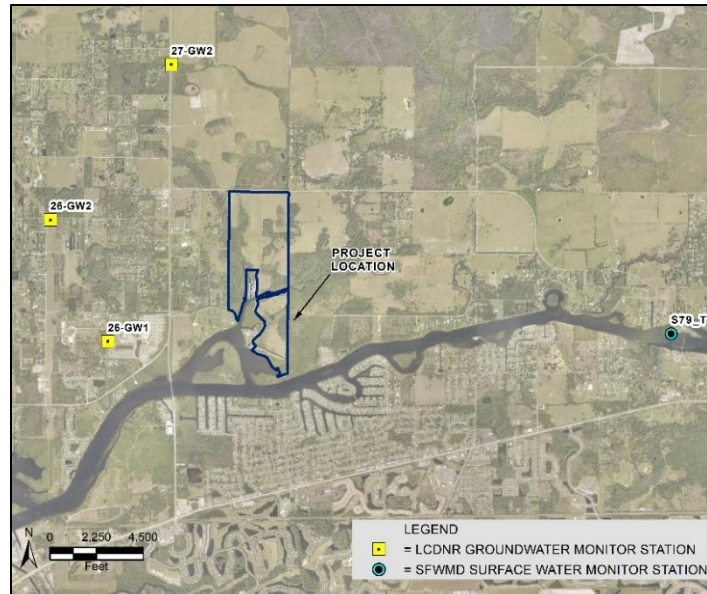


Figure 6. Location of Nearby Water Level Monitoring Stations

The topography in the area of the project site, which influences water elevations, drops significantly from north to south approaching the tidally influenced Caloosahatchee River. In the vicinity of the project site, water level elevations generally range between 0 and 5 feet below land surface depending upon season. The Caloosahatchee Estuary sub-watershed acts as a natural drainage feature for the surrounding areas including surface water from the Trout Creek and Owl Creek within the project area. Groundwater elevations in the upstream monitoring well (27-GW2) show water levels ranging seasonally between +18 and +23 feet NAVD88 with a slight decline trending over the period of record from 1992 to present. Groundwater elevations in well 26-GW2, located laterally to the west of the project site show season water levels ranging between +13 and +18 feet NAVD88 with a steady range over the period of record from 1996 to present. The downstream monitor well 26-GW1 shows seasonal water levels ranging from 0 and +5 feet NAVD88 reflecting close proximity to regional drainage feature of the Caloosahatchee River. This data shows a steady range over the period of record from 1996 to present. Surface water elevations from the Caloosahatchee River Station S79_T show elevations ranging from -2 feet NAVD to +3 feet NAVD88 and a rising trend for the period of record from late 1990 to present.

One hundred percent of the irrigation withdrawals from the stormwater lake management system will be re-supplied with groundwater from the Sandstone Aquifer. Therefore, there is no impact on the water levels in the Water Table Aquifer from the proposed use. Additionally, the project's water management system will provide enhanced water quality treatment and storage thereby providing a positive impact to groundwater recharge and regional water quality.

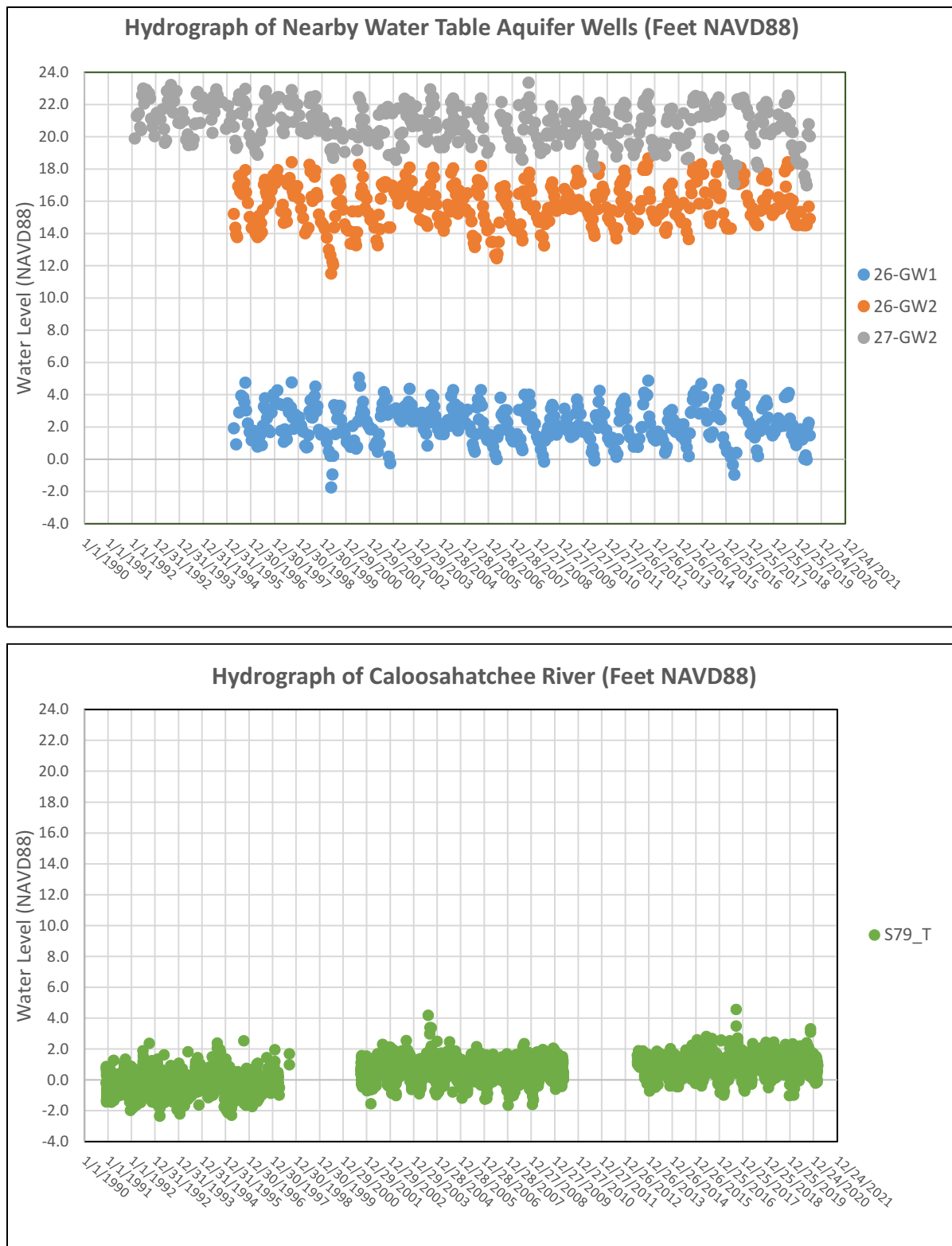


Figure 7. Hydrographs of Nearby Water Level Monitoring Stations

SECTION G

SURFACE WATER AND GROUNDWATER MONITORING PLAN**Purpose**

This Surface Water and Groundwater Monitoring Plan will be initiated to establish baseline conditions for the project site and to quantify potential adverse impacts as a result of the proposed residential development. The Surface Water and Groundwater Monitoring Plan includes sampling locations, sampling frequency, reporting requirements, and evaluations of the water level and water quality within the Owl Creek Reserve project site. The proposed monitoring plan may be further refined during the Development Order process that may include additional or removal of groundwater and/or surface water sampling locations.

Monitoring

The Surface Water and Groundwater Monitoring Plan includes the installation of two shallow monitor wells tapping the upper portion of the Water Table Aquifer (WT-1 & WT-2), a deeper monitor well tapping the upper portion of the Sandstone Aquifer (SS-1), up to seven surface water sample locations (typical outfall locations), and one staff gauge installed within the irrigation withdrawal lake (SG-1) upon operational completion. Refer to **Figure 8** for a map showing the proposed monitoring locations of the Surface Water And Groundwater Monitoring Plan including proposed irrigation withdrawal facilities. All monitor wells and the staff gauge will be equipped with electronic water level transducers set to record water levels every 6 hours. Surface water and groundwater monitoring parameters are provided in **Table 2** and include contaminant target levels where applicable for surface water and groundwater.

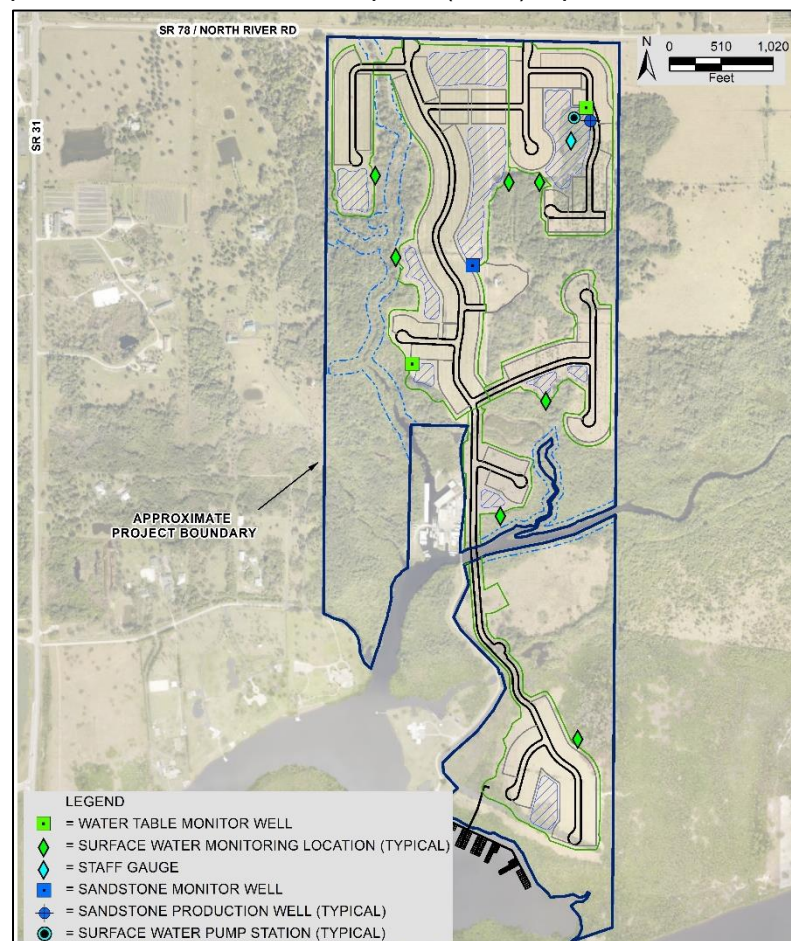


Figure 8. Map Showing Conceptual Monitoring Locations

The proposed Surface Water and Groundwater Monitor Plan includes a baseline sampling event followed by subsequent quarterly sampling events. Two quarterly sampling events will be performed during the wet season (June through September) and two sampling events will be performed during the dry season (October through May).

Quality Assurance

Water samples will be collected and handled following protocols contained in Florida Department of Environmental Protection (FDEP) Quality Assurance Rule F.A.C. 62-160 and adopted as the 2014 FDEP Standard Operating Procedures for Field Activities (DEP-SOP-001/01), effective 7/30/2014. Water Quality samples will be collected from both monitor wells and the staff gauge monitoring station. One field blank and a field duplicate will be collected during each sampling event for quality assurance purposes. Chain of custody forms and laboratory analysis reports will be provided in corresponding quarterly reports.

Water samples will be tested by a certified laboratory under the National Environmental Laboratory Accreditation Program (NELAP) using approved test methods and QA testing requirements (i.e. blanks, sample duplicates, surrogates, matrix spikes etc.) as contained in F.A.C 62-160 QA Rules.

Table 2. Summary of Surface Water and Groundwater Sampling Parameters

PARAMETER	UNITS	BASELINE	Quarterly	Groundwater Target Level	Surface Water Target Levels	ANALYSIS TYPE
Total Kjeldahl Nitrogen (TKN)	mg/L as N	x	x	NA	NON-NUMERIC	Laboratory
Ammonia (un-ionized)	mg/L as N	x	x	NA	0.02	Laboratory
Nitrite+Nitrate as Nitrogen (NOX)	mg/L as N	x	x	10	NON-NUMERIC	Laboratory
Nitrite	mg/L as N	x		1	NON-NUMERIC	Laboratory
Nitrate	mg/L as N	x		10	10	Laboratory
Total Phosphorus	mg/L as P	x	x	NA	NON-NUMERIC	Laboratory
Chloride	mg/L	x	x	250	250	Laboratory
Total Dissolved Solids (TDS)	mg/L	x	x	500	500 Average	Laboratory
Florida PRO (TRPH)	µg/L	x		5000	5000	Laboratory
Arsenic	µg/L	x		10	10	Laboratory
Copper	µg/L	x	x	1000	NON-NUMERIC	Laboratory
Mercury	µg/L	x	x	2	12	Laboratory
Lead	mg/L	x	x	0.015	NON-NUMERIC	Laboratory
E. coli	MPN/100mL	x	x	NA	200 Average	Laboratory
Total Hardness	mg/l	x	x	NA	NA	Laboratory
Temperature	C	x	x	NA	NA	Field
Specific Conductance	mhos/cm	x	x	NA	1275 or <50% Increase	Field
pH	pH units	x	x	6.5-8.5	1 unit from background	Field
Dissolved Oxygen (DO)	mg/L	x	x	NA	>5.0	Field
Lake Stage	ft NAVD	x	x	NA	NA	Field/Recorder
Water Table Aquifer Elevation	ft NAVD	x	x	NA	NA	Field/Recorder
Sandstone Aquifer Elevation	ft NAVD	x	x	NA	NA	Field/Recorder

NA=Not Applicable

Note - Groundwater Target Levels per Chapter 62-550 and Rule 62-520.420, FAC with exception of FL-PRO. FL-PRO is a petroleum screening parameter with a target level of 5 mg/l listed in Chapter 62-777, FAC. Surface Water Target Levels per Chapter 62-302.

Water Monitoring Reporting and Analysis

The Quarterly Surface Water and Groundwater Monitoring Reports will provide evaluation of the analytical results and include conclusions and recommendations. The Quarterly Reports will include a continuous hydrograph of the recorded water levels and updated tables of quarterly water quality sampling results. The data will be reported to the Lee County Department of Natural Resources (LCDNR) in their approved comma delimited electronic format within 30 days of receipt of results from the laboratory. Conclusions and recommendations will be based on applicable target levels and statistical analyses and trends of measured constituents.

Results of water sampling will be compared to applicable target levels, if listed. Parameters that do not have numeric target levels will be evaluated for trends. The surface water and groundwater laboratory results will undergo statistical analyses for the development of conclusions and recommendations within the Surface Water and Groundwater Monitoring Reports. Statistical methods to be used include determination of standard deviations, linear regressions, and calculation of confidence intervals. Once a sufficient data population of laboratory results of sample analyses has been compiled, these statistical tools will be employed to assist in analyzing the data to identify trends and aid in identifying potential concerns.

Once sufficient data is obtained, a 95% confidence interval and a standard deviation value will be calculated and updated with each sampling event. If an analytical result falls outside either the 95% confidence interval, or two standard deviations from the mean, the data will be further evaluated to aid in determining potential anomalous data. Additionally, a linear regression analysis will be performed on each data set to signify trends in the data. If the r^2 value of the regression analysis falls below 0.8, further investigation will be performed to determine the cause of the variability in the results. If the variability is due to seasonal variations, the data will be segregated into seasonal sets, and linear regression analysis will be performed separately on each set, with the above parameters followed.

Should indications of water level or water quality concerns be identified by exceeding target levels or through statistical trend analyses, site conditions will be reviewed and assessed and if indicated, additional samples will be collected. Following any re-sampling event, the LCDNR will be notified of necessary corrective actions. Should potential areas of concern be identified, the Applicant will coordinate with the LCDNR to aid in identifying potential causes and potential needs to modify monitoring parameters, frequency, and/or reporting.

Water Quality Monitoring will continue for a minimum of 5 years from the date of completion of the stormwater management system. After 5 years of meeting or exceeding state water quality monitoring standards, the developer may amend or discontinue water quality monitoring and reporting after written request, review, and approval by Lee County Division of Natural Resources.

Tyler King

From: Paul Owen
Sent: Wednesday, January 19, 2022 10:12 AM
To: Layman, Laura; Brosious, J
Cc: McNeely, Kimberly
Subject: RE: Owl Creek Reserve Wetland Determination

Hi Laura,

The ERP application had the old numbers but the RAI response will have the corrected numbers. I will wait for Matt's and Kim's response to upload.

Thank you,

Paul K. Owen, M.S., P.W.S.
Principal Ecologist



4470 Camino Real Way, Suite 101
Fort Myers, FL 33966
Office: (239) 334-3680
Mobile: (239) 994-9007
www.dexbender.com

From: Layman, Laura <llyman@sfwmd.gov>
Sent: Wednesday, January 19, 2022 10:04 AM
To: Paul Owen <powen@dexbender.com>; Brosious, J <jbrosiou@sfwmd.gov>
Cc: McNeely, Kimberly <kmcneely@sfwmd.gov>
Subject: RE: Owl Creek Reserve Wetland Determination

Hi Paul- if that's all it is then we probably don't need to meet. Kim, Matt- do you have any questions on this or do you still want to meet?

Paul- have these changes been incorporated already into the ERP submittal, or will they be upon the next RAI response?

If Kim and Matt don't have any questions, then I think you are ok to upload Paul. We don't have a set deadline on when to issue a corrected permit. We just do it as soon as we can. Please make sure in your cover letter that you mention you are requesting that a corrected formal JD be issued.

Thanks so much for notifying us of these changes!

Laura Layman
Environmental Section Leader
Environmental Resource Permitting
Fort Myers Service Center
South Florida Water Management District

sfwmd.gov/ePermitting



NOTE:

While the District supports that it is commonplace and convenient to collaborate via email during the pre-application/application process, Permit Applications and Responses to a Request for Additional Information (RAI) submitted via email are not an official submittal (Section 4.4 of Environmental Resource Permit Applicant's Handbook Volume I). For timely and efficient processing of permit applications and RAI responses, please submit online using ePermitting (link above).

Florida enjoys a broad public records law - any emails sent to or from this address are subject to review by the public at any time.

From: Paul Owen <powen@dexbender.com>
Sent: Wednesday, January 19, 2022 9:53 AM
To: Layman, Laura <llayman@sfwmd.gov>; Brosious, J <jbrosiou@sfwmd.gov>
Cc: McNeely, Kimberly <kmcneely@sfwmd.gov>
Subject: RE: Owl Creek Reserve Wetland Determination

[Please remember, this is an external email]

Hi Laura,

Yes, the corrections will be reflected in our response to the RAI.

It was a minor surveyor mistake in their drawing. The surveyor included OSWs 1 (0.4ac) and 3 (0.73ac) in the Wetlands 12 and 13 polygons. So, the amount of wetlands will be reduced by 1.13 acres and will become OSWs. Also a portion of OSW2 (0.22) should be a SW.

I am not sure we need to meet if my explanation makes sense. I can upload the request if you think that is appropriate at this time.

Thank you,

Paul K. Owen, M.S., P.W.S.
Principal Ecologist

DEXBENDER
ENVIRONMENTAL CONSULTING

4470 Camino Real Way, Suite 101
Fort Myers, FL 33966
Office: (239) 334-3680
Mobile: (239) 994-9007
www.dexbender.com

From: Layman, Laura <llayman@sfwmd.gov>
Sent: Wednesday, January 19, 2022 9:25 AM
To: Paul Owen <powen@dexbender.com>; Brosious, J <jbrosiou@sfwmd.gov>
Cc: McNeely, Kimberly <kmcneely@sfwmd.gov>
Subject: RE: Owl Creek Reserve Wetland Determination

Hi Paul- Thanks for sending this. Matt and I haven't had a chance to review this yet, but we plan to next week. Should we set up a quick meeting next week to discuss? Have these changes been incorporated already into the environmental information that Kim McNeely is reviewing for the ERP application?

Can you briefly summarize the changes (do we have more or less WL's or OSW) and why. Did something change in the field or was it just an error on the surveyor's part? If we do a corrected formal JD, then you will just need to upload a formal cover letter to ePermitting under the formal JD application number, explaining the changes made on the wetland/OSW survey, along with the updated survey.

We would then issue a corrected formal JD.

It may be good to talk through this briefly next week. Let us know when you are available.

Thanks,
Laura Layman
Environmental Section Leader
Environmental Resource Permitting
Fort Myers Service Center
South Florida Water Management District
239-338-2929 ext. 7725

sfwmd.gov/ePermitting 

NOTE:

While the District supports that it is commonplace and convenient to collaborate via email during the pre-application/application process, Permit Applications and Responses to a Request for Additional Information (RAI) submitted via email are not an official submittal (Section 4.4 of Environmental Resource Permit Applicant's Handbook Volume I). For timely and efficient processing of permit applications and RAI responses, please submit online using ePermitting (link above).

Florida enjoys a broad public records law - any emails sent to or from this address are subject to review by the public at any time.

From: Paul Owen <powen@dexbender.com>
Sent: Monday, January 17, 2022 4:43 PM
To: Brosious, J <jbrosiou@sfwmd.gov>; Layman, Laura <llayman@sfwmd.gov>
Subject: FW: Owl Creek Reserve Wetland Determination

[Please remember, this is an external email]

Hi Matt and Laura,

I'm following up on my email below. Please let me know what I need to do to correct the Formal Wetland Determination.

Thank you,

Paul K. Owen, M.S., P.W.S.
Principal Ecologist


4470 Camino Real Way, Suite 101
Fort Myers, FL 33966
Office: (239) 334-3680
Mobile: (239) 994-9007
www.dexbender.com

From: Paul Owen
Sent: Monday, January 03, 2022 4:04 PM
To: Brosious, J <jbrosiou@sfwmd.gov>; Layman, Laura <llayman@sfwmd.gov>
Subject: Owl Creek Reserve Wetland Determination

Hi Matt and Laura,

I have attached the corrected survey of the approved wetland, OSW, and SW lines. There were some minor but significant errors and the binding JD needs to either be modified or amended to reflect the correct acreages.

Please let me know what process we need to pursue.

Thank you,

Paul K. Owen, M.S., P.W.S.
Principal Ecologist


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Fort Myers, FL 33966
Office: (239) 334-3680
Mobile: (239) 994-9007
www.dexbender.com

OWL CREEK PARCEL

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

FORMAL WETLAND & SURFACE WATER

DETERMINATION

SFWMD ERP APPLICATION # 201211-4858

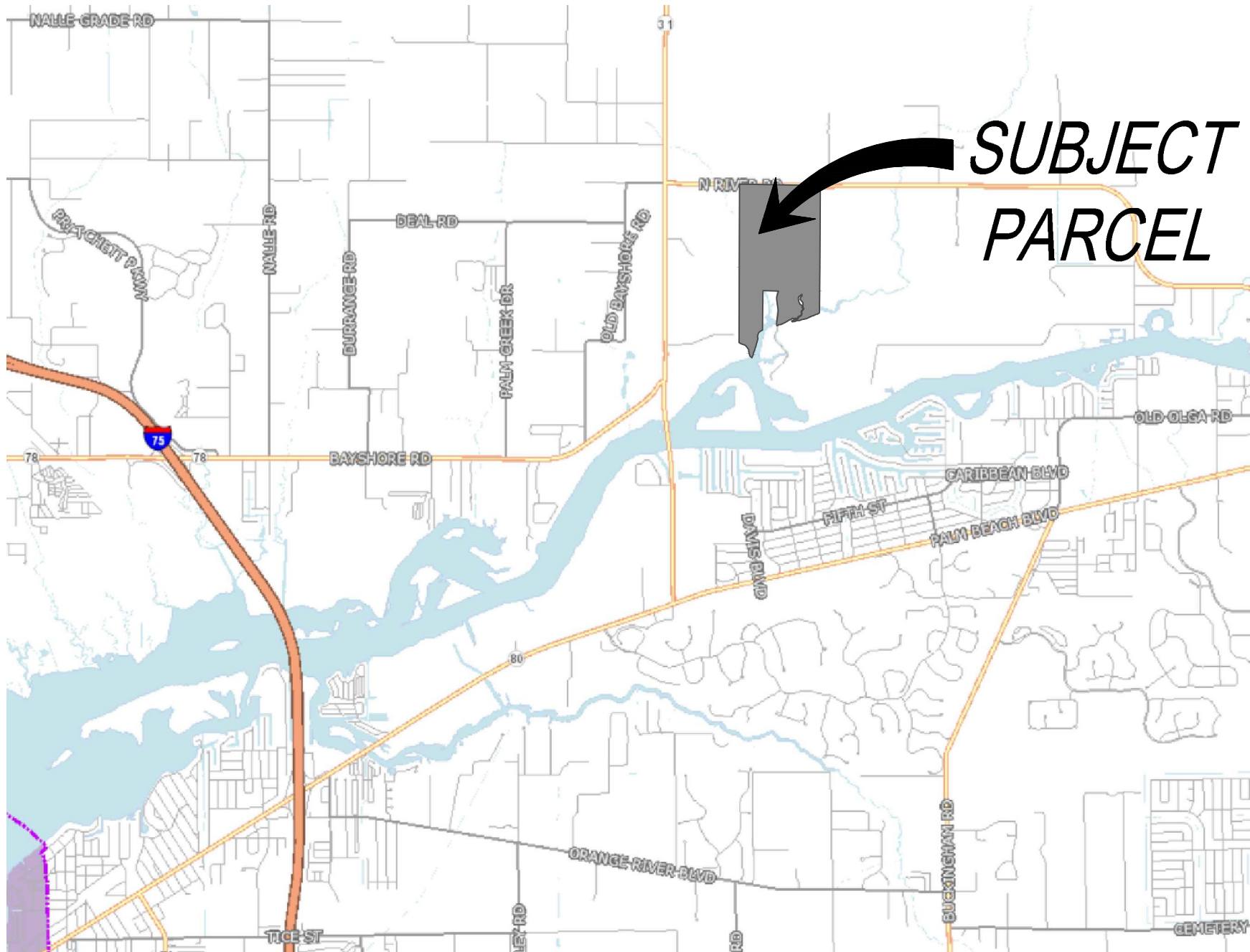
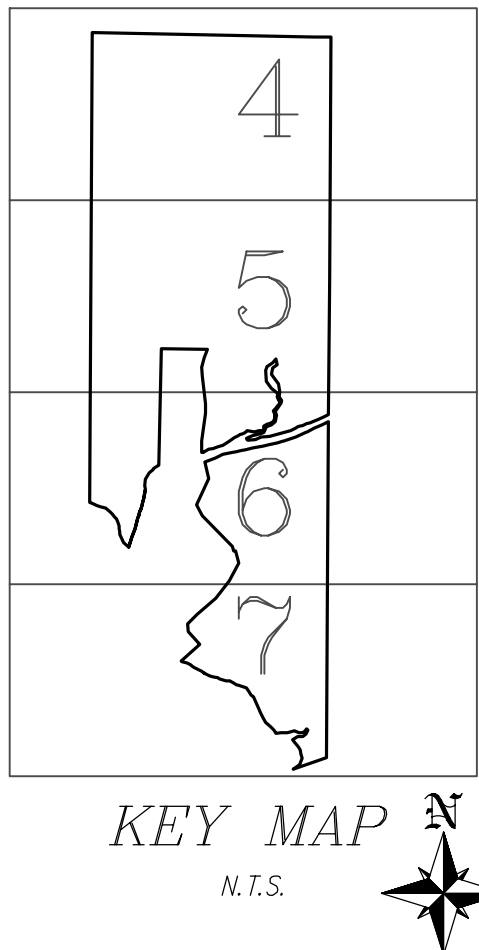
EXHIBIT

OF

A PARCEL OF LAND LYING IN

SECTIONS 18 AND 19, TOWNSHIP 43 SOUTH, RANGE 26 EAST,

LEE COUNTY, FLORIDA



AREA SUMMARY

OTHER SURFACE WATER	
ACRES	
AREA OSW1	0.40
AREA OSW2	0.38
AREA OSW3	0.73
AREA OSW4	1.88
AREA OSW5	0.31
AREA OSW6	0.47
AREA OSW7	0.04
AREA OSW8	0.18
TOTAL	4.39

SURFACE WATER	
ACRES	
AREA SW1	3.51
AREA SW2	1.31
AREA SW3	0.70
AREA SW4	0.22
TOTAL	5.74

WETLANDS	
ACRES	
AREA W1	2.26
AREA W2	2.71
AREA W3	0.39
AREA W5	6.25
AREA W6	0.15
AREA W7	11.81
AREA W8	1.29
AREA W9	9.01
AREA W10	2.84
AREA W13	9.93
AREA W14	0.60
AREA W15	7.12
AREA W16	3.47
AREA W17	0.14
AREA W19	0.48
AREA W20	1.48
AREA W21	8.49
AREA W22	1.54
AREA W4	11.75
AREA W12	18.47
AREA W18	20.13
TOTAL	120.31

LEGEND:

- = JURISDICTIONAL WETLANDS
- = JURISDICTIONAL SURFACE WATERS
- = JURISDICTIONAL OTHER SURFACE WATERS

SURVEYOR'S CERTIFICATION:

THIS EXHIBIT PREPARED TO SHOW THE RELATIONSHIP OF THE PRELIMINARY WETLAND, SURFACE AND OTHER SURFACE WATERS DETERMINATION LINES PROVIDED BY LICENSED ENVIRONMENTAL CONSULTING TO THE PARCEL BOUNDARY PROVIDED BY BRS SURVEYORS INC.

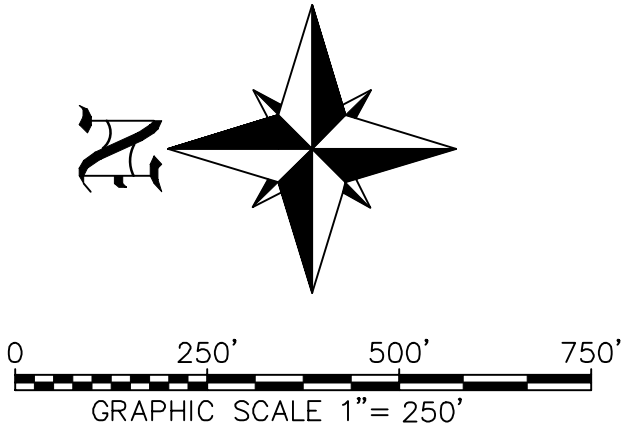
ALL DETERMINATION LINE ANNOTATION AND AREA CALCULATIONS BY BANKS ENGINEERING.

Digitally signed by Richard M. Ritz, R.L.S. #4009 State of Florida using an SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies. Date: 2022.01.03 08:15:14 -05'00'

RICHARD M. RITZ, R.L.S. #4009 FLORIDA CERTIFICATION NO. 18-43-26

BANKS ENGINEERING									
10511 SIX MILE CYPRESS PARKWAY FORT MYERS, FLORIDA 33908 PHONE: (239) 939-5490 FAX: (239) 939-2523 ENGINEERING LICENSE # EB 5469 SURVEY LICENSE # LS 6650 WWW.BANKSENG.COM									
EXHIBIT OWL CREEK PARCEL LEE COUNTY, FLORIDA									
DATE	PROJECT	DRAWING	DRAWN	CHECKED	SCALE	SHEET	OF	FILE NO. (S-T-R)	
05-06-2021	8504	8504-W-SR	CLJ	JDW	N/A	1	7	19-43-26 18-43-26	

EXHIBIT
OF
A PARCEL OF LAND LYING IN
SECTIONS 18 & 19, TOWNSHIP 43 SOUTH, RANGE 26 EAST,
LEE COUNTY, FLORIDA



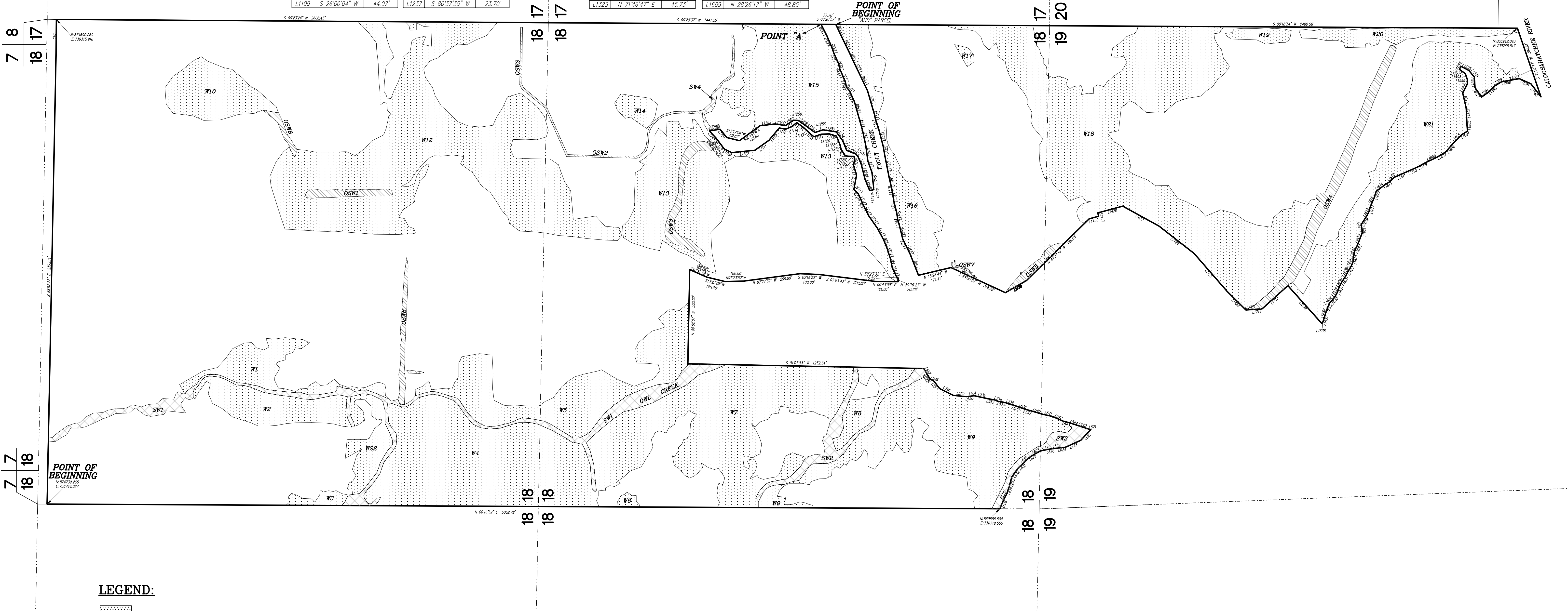
LINE TABLE					
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L487	S 59°33'49" W	43.28'	L1111	S 35°01'53" E	91.33'
L525	S 59°33'49" W	23.30'	L1112	S 50°35'34" E	85.61'
L526	S 19°55'43" W	17.96'	L1113	S 10°34'53" W	33.93'
L527	S 53°18'36" W	53.47'	L1114	S 21°26'11" E	36.72'
L528	S 26°06'00" W	82.56'	L1115	S 40°17'20" E	33.23'
L529	S 05°34'19" W	68.70'	L1116	S 35°18'25" W	42.17'
L530	S 07°11'04" E	29.90'	L1117	S 42°33'03" W	45.18'
L531	S 07°54'16" E	11.85'	L1118	S 41°13'28" W	30.71'
L532	S 12°21'57" W	78.12'	L1119	S 18°57'53" E	40.71'
L533	S 10°40'48" W	33.89'	L1120	S 02°39'27" E	43.57'
L534	S 21°15'12" W	20.19'	L1121	S 18°07'05" W	39.46'
L535	S 10°05'07" W	34.32'	L1122	S 67°10'19" W	48.51'
L536	S 16°26'09" W	51.67'	L1123	S 75°56'36" W	27.05'
L537	S 20°15'30" W	28.82'	L1124	S 56°00'26" W	40.96'
L538	S 18°57'28" W	36.38'	L1125	S 04°07'53" W	15.13'
L539	S 15°47'44" W	34.13'	L1126	S 02°20'53" W	30.76'
L540	S 16°28'26" W	59.42'	L1127	S 83°41'22" W	17.10'
L541	S 12°32'34" W	53.60'	L1128	N 81°54'26" W	32.46'
L542	S 23°08'17" W	62.09'	L1129	S 72°46'26" W	51.87'
L543	S 15°16'02" W	33.53'	L1130	N 79°37'03" W	77.30'
L544	S 18°12'29" W	16.75'	L1131	S 43°53'28" W	29.96'
L620	S 18°12'29" W	98.27'	L1132	S 64°51'44" W	33.22'
L621	S 03°19'16" E	4.78'	L1133	S 67°25'22" W	27.97'
L622	N 47°23'44" W	78.47'	L1134	S 63°29'01" W	21.10'
L623	N 24°12'11" W	91.43'	L1135	S 63°09'28" W	50.02'
L624	N 03°46'12" W	29.62'	L1136	S 55°16'21" W	81.31'
L625	N 06°50'11" W	34.61'	L1137	S 61°20'10" W	66.81'
L626	N 08°54'45" W	28.95'	L1138	S 67°49'59" W	48.47'
L627	N 12°43'52" W	39.18'	L1139	S 72°10'03" W	58.79'
L628	N 28°20'46" W	39.90'	L1140	S 78°14'00" W	49.72'
L629	N 32°06'08" W	30.67'	L1141	S 64°42'00" W	53.27'
L630	N 45°59'51" W	43.84'	L1230	S 63°09'11" W	68.12'
L631	N 40°53'39" W	33.01'	L1231	S 66°53'17" W	63.33'
L632	N 53°48'26" W	60.20'	L1232	S 70°27'15" W	39.63'
L633	N 75°05'44" W	54.64'	L1233	S 64°37'58" W	53.06'
L634	N 71°07'07" W	40.46'	L1234	S 77°10'24" W	31.94'
L635	N 62°42'59" W	34.22'	L1235	S 67°19'24" W	49.00'
L636	N 66°57'30" W	51.84'	L1236	S 66°42'36" W	31.31'
L1109	S 26°10'04" W	44.07'	L1237	S 80°37'35" W	23.70'

LINE		
LINE	BEARING	DISTANCE
L1238	S 49°00'39" W	25.62'
L1239	S 65°48'12" W	63.16'
L1240	S 74°36'11" W	79.06'
L1241	S 73°49'53" W	76.39'
L1242	S 77°28'30" W	81.85'
L1243	S 82°44'45" W	86.96'
L1244	S 69°49'00" W	63.53'
L1245	S 83°38'00" W	84.05'
L1246	N 64°43'19" W	10.65'
L1247	N 10°04'22" W	17.28'
L1248	N 67°56'56" E	63.76'
L1249	N 75°31'42" E	84.91'
L1250	N 67°43'57" E	42.46'
L1251	N 48°46'12" E	15.77'
L1252	N 23°03'58" E	53.88'
L1253	N 67°46'02" E	56.48'
L1254	N 53°42'12" E	56.78'
L1255	N 09°10'30" E	71.37'
L1256	N 18°38'24" W	45.27'
L1257	N 36°08'14" E	54.90'
L1258	N 35°53'09" E	55.09'
L1259	N 01°19'19" E	23.41'
L1260	N 32°33'04" W	51.20'
L1261	N 07°39'06" E	57.91'
L1262	N 06°39'11" W	79.50'
L1310	N 68°36'57" E	118.44'
L1311	N 64°28'22" E	31.89'
L1312	N 64°03'20" E	58.04'
L1313	N 75°59'50" E	70.51'
L1314	N 73°52'12" E	36.64'
L1315	N 81°37'22" E	38.71'
L1316	N 76°10'56" E	61.09'
L1317	N 81°10'49" E	43.63'
L1318	N 79°19'30" E	27.70'
L1319	N 76°16'15" E	54.20'
L1320	N 78°48'20" E	120.20'
L1321	N 79°41'31" E	52.54'
L1322	N 75°23'35" E	99.29'
L1323	N 71°46'47" E	45.73'

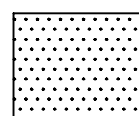
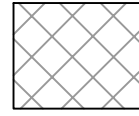
LINE		
LINE	BEARING	DISTANCE
L1324	N 77°14'48" E	27.77'
L1325	N 73°38'17" E	131.49'
L1326	N 64°38'32" E	113.85'
L1327	N 64°07'37" E	23.99'
L1328	N 64°53'28" E	84.52'
L1329	N 64°11'02" E	86.91'
L1330	N 64°11'54" E	80.97'
L1423	N 03°40'10" W	0.34'
L1425	N 48°53'50" E	266.81'
L1426	N 37°56'50" E	235.27'
L1427	N 28°49'50" E	219.46'
L1428	N 15°00'10" W	137.17'
L1429	S 74°59'50" W	18.55'
L1430	N 15°00'10" W	53.03'
L1585	N 52°44'09" E	86.87'
L1586	N 23°50'54" E	68.13'
L1587	N 10°38'48" W	52.58'
L1588	N 09°06'55" W	42.95'
L1589	N 32°14'07" W	39.88'
L1590	N 43°39'22" W	52.79'
L1591	N 34°08'38" W	41.08'
L1592	N 54°52'16" E	60.65'
L1593	N 87°04'33" E	55.75'
L1594	N 49°55'04" E	45.69'
L1595	N 28°07'43" E	46.00'
L1596	N 56°19'58" W	17.93'
L1597	S 36°51'22" W	39.99'
L1598	S 71°55'20" W	31.45'
L1599	S 89°48'27" W	25.16'
L1600	N 63°29'40" W	53.19'
L1601	S 77°12'19" W	81.07'
L1602	S 87°13'04" W	71.51'
L1603	S 86°14'38" W	51.39'
L1604	N 32°39'35" W	39.89'
L1605	N 46°07'12" W	55.49'
L1606	N 48°12'13" W	67.15'
L1607	N 30°38'49" W	52.85'
L1608	N 25°28'33" W	64.46'
L1609	N 28°26'17" W	48.85'

LINE	BEARING	DISTANCE
L1610	N 24°27'43" W	67.21'
L1611	N 23°43'59" W	68.49'
L1612	N 44°29'30" W	30.93'
L1613	N 32°47'22" W	39.03'
L1614	N 37°30'31" W	53.12'
L1615	N 72°02'02" W	37.99'
L1616	N 66°54'09" W	50.25'
L1617	N 76°40'16" W	23.57'
L1618	N 62°41'50" W	29.07'
L1619	N 57°22'45" W	52.85'
L1620	S 81°19'58" W	24.79'
L1621	S 86°10'29" W	20.72'
L1622	N 68°13'44" W	70.32'
L1623	N 62°52'25" W	25.24'
L1624	N 76°26'43" W	42.82'
L1625	N 86°37'33" W	23.07'
L1626	N 66°30'11" W	23.15'
L1627	N 59°53'05" W	31.24'
L1628	N 63°30'36" W	30.41'
L1629	N 56°41'32" W	40.31'
L1630	N 61°46'56" W	24.48'
L1631	N 71°57'11" W	31.15'
L1632	N 60°34'35" W	28.45'
L1633	N 52°43'10" W	31.94'
L1634	N 40°26'58" W	13.97'
L1635	N 69°12'09" W	50.97'
L1636	N 75°09'23" W	27.53'
L1637	N 71°05'34" W	29.39'
L1638	N 50°55'57" W	7.35'
L1639	N 48°06'50" E	272.62'
L1714	N 03°40'10" W	85.66'
L1739	N 29°52'10" W	128.36'
L1749	N 47°33'50" E	52.48'
L1750	S 09°17'06" E	57.33'
L1751	S 51°38'20" W	56.94'

CURVE TABLE					
CURVE	RADIUS	DELTA	ARC	CHORD	CHORD BEARING
C10	11509.16'	0°53'51"	180.26'	180.25'	S 89°19'14" E



LEGEND:

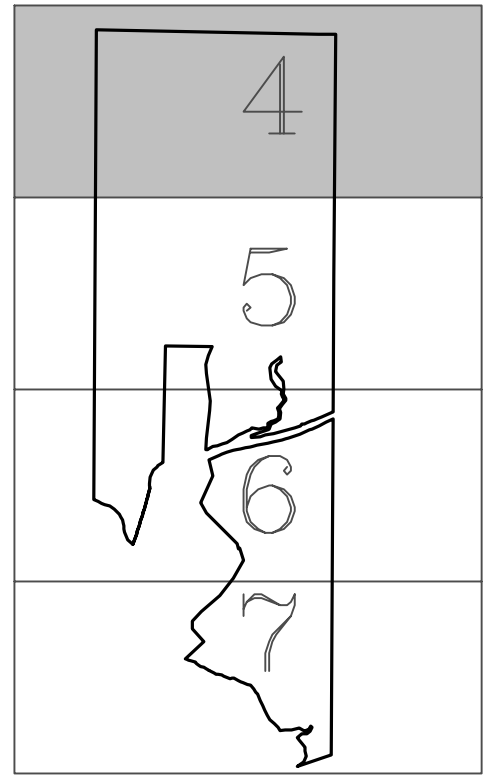
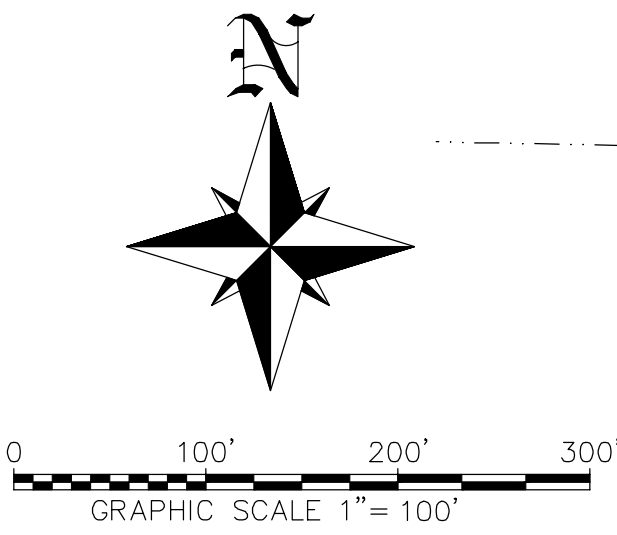
-  = JURISDICTIONAL WETLANDS
-  = JURISDICTIONAL SURFACE WATERS
-  = JURISDICTIONAL OTHER SURFACE WATRES

NO.	DATE	REVISION DESCRIPTION	BY
4	01-03-2022	REVISE W7/W18 ACREAGE TOTALS	JHK
3	12-29-2021	ADD SW 4/REVISE ACREAGE TOTALS	JHK
2	10-28-2021	ADDED NEW SHEET 2 LEGAL DESCRIPTION AND AREA ACREAGE TOTALS	CLJ
1	10-19-2021	DELETED WS 11, INCREASED WS 12 AND WS 18	CLJ

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EXHIBIT OWL CREEK PARCEL LEE COUNTY, FLORIDA									
DATE	PROJECT	DRAWING	DRAWN	CHECKED	SCALE	SHEET	OF	FILE NO. (S-T-R)	
05-06-2021	8504	8504-IB-SR	CLJ	JDW	N/A	3	7	19-43-26 18-43-26	



KEY MAP

N.T.S.

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 88°52'22" E	25.86'
L2	S 07°09'43" W	21.70'
L3	S 49°13'28" E	17.90'
L4	S 35°56'06" E	42.40'
L5	S 35°56'06" E	40.46'
L6	S 18°06'32" E	41.99'
L7	S 08°04'43" E	26.43'
L8	S 43°34'57" E	43.39'
L9	S 28°09'13" E	43.91'
L10	S 03°28'29" E	52.71'
L11	S 25°50'42" E	26.69'
L12	S 12°04'43" E	41.62'
L13	S 01°03'53" E	42.37'
L14	S 10°41'44" E	19.47'
L15	S 29°11'45" E	32.91'
L16	S 12°39'09" W	51.09'
L17	S 19°31'38" E	37.98'
L18	S 05°54'36" E	44.33'
L19	S 40°21'51" E	42.26'
L20	S 03°07'37" W	59.27'
L21	S 68°12'14" E	34.34'
L22	S 29°20'12" E	16.09'
L23	S 36°44'33" W	15.11'
L24	S 12°28'43" W	20.46'
L25	S 66°36'03" E	13.89'
L26	S 37°48'45" E	34.53'
L27	S 31°34'36" E	32.41'
L28	S 56°05'33" E	41.14'
L29	S 37°59'03" E	19.44'
L30	S 18°30'20" E	21.86'
L31	S 02°22'10" E	37.95'
L32	S 08°51'25" W	26.40'
L33	S 24°08'33" W	101.99'
L34	S 03°04'37" W	41.04'
L35	S 13°04'07" W	13.93'
L36	S 11°56'35" W	62.41'
L37	S 21°53'16" W	46.95'
L38	S 07°29'43" W	32.31'
L39	S 05°49'46" W	119.49'
L40	S 00°20'47" E	30.98'
L41	S 16°09'34" W	38.18'
L42	S 01°22'01" W	48.00'
L43	S 08°48'10" E	67.80'
L44	S 12°28'57" E	26.09'
L45	S 45°34'46" E	14.60'
L46	N 90°00'00" E	17.03'
L47	S 24°50'39" E	7.93'
L48	S 00°00'00" E	4.24'
L49	S 20°49'56" W	30.08'
L50	S 06°46'12" W	30.30'
L51	S 30°33'16" W	28.85'

LEGEND:

- = JURISDICTIONAL WETLANDS
- = JURISDICTIONAL SURFACE WATERS
- = JURISDICTIONAL OTHER SURFACE WATERS

NORTH RIVER ROAD

7
18

N: 874739.265
E: 736744.027

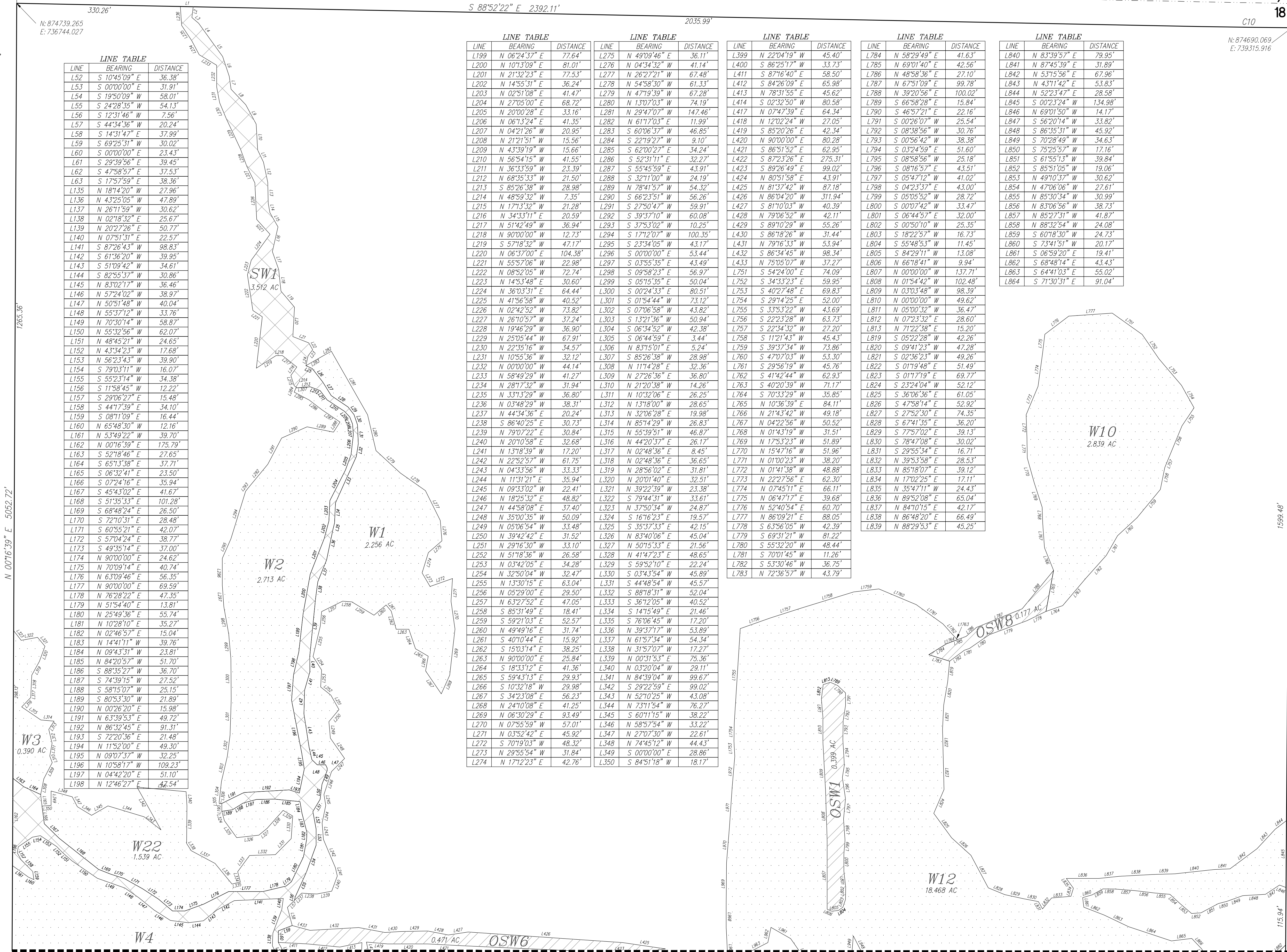
S 88°52'22" E 2392.11'

2035.99'

7
18

A PARCEL OF LAND LYING IN
SECTIONS 18 & 19, TOWNSHIP 43 SOUTH, RANGE 26 EAST,
LEE COUNTY, FLORIDA

N: 874690.069
E: 739315.916



LINE TABLE

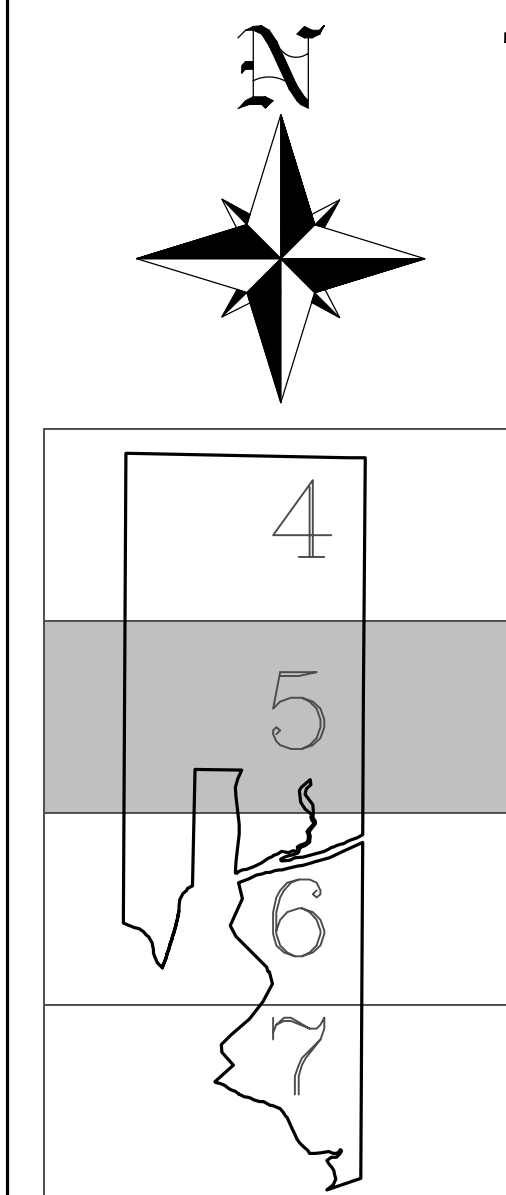
LINE	BEARING	DISTANCE
L199	N 06°24'37" E	77.64'
L200	N 10°13'09" E	81.01'
L201	N 21°32'23" E	77.53'
L202	N 14°55'31" E	36.24'
L203	N 02°51'08" E	41.47'
L204	N 27°05'00" E	68.72'
L205	N 20°00'28" E	33.16'
L206	N 06°13'24" E	41.35'
L207	N 04°21'26" W	20.95'
L208	N 21°21'51" W	15.56'
L209	N 43°39'19" W	15.66'
L210	N 56°34'15" W	41.55'
L211	N 36°33'59" W	23.39'
L212	N 68°35'33" W	21.50'
L213	S 85°26'38" W	28.98'
L214	N 48°59'32" W	7.35'
L215	N 17°13'32" W	21.28'
L216	N 34°33'11" E	20.59'
L217	N 51°42'49" W	36.94'
L218	N 90°00'00" W	12.73'
L219	S 57°18'32" W	47.17'
L220	N 06°37'00" E	104.38'
L221	N 55°57'06" W	22.98'
L222	N 08°52'05" W	72.74'
L223	N 14°53'48" E	30.60'
L224	N 36°03'31" E	64.44'
L225	N 41°56'58" W	40.52'
L226	N 02°42'52" W	73.82'
L227	N 26°10'57" W	37.24'
L228	N 19°46'29" W	36.90'
L229	N 25°05'44" W	67.91'
L230	N 22°35'16" W	34.57'
L231	N 10°55'36" W	32.12'
L232	N 00°00'00" W	44.14'
L233	N 58°49'29" W	41.27'
L234	N 28°17'32" W	31.94'
L235	N 33°13'29" W	36.80'
L236	N 03°48'29" W	38.31'
L237	N 44°34'36" E	20.24'
L238	S 86°40'25" E	30.73'
L239	N 79°07'22" E	30.84'
L240	N 20°10'58" E	32.68'
L241	N 13°18'39" W	17.20'
L242	N 22°52'57" W	61.75'
L243	N 04°33'56" W	33.33'
L244	N 11°31'21" E	35.94'
L245	N 09°35'02" W	22.41'
L246	N 18°25'32" E	48.82'
L247	N 44°58'08" E	37.40'
L248	N 35°00'35" W	50.09'
L249	N 05°06'54" W	33.48'
L250	N 39°42'42" E	31.52'
L251	N 29°16'36" W	33.10'
L252	N 51°18'36" W	26.58'
L253	N 03°42'05" E	34.28'
L254	N 32°50'04" W	32.47'
L255	N 13°30'15" E	63.04'
L256	N 05°29'00" E	29.50'
L257	N 63°27'52" E	47.05'
L258	S 85°31'49" E	18.41'
L259	S 59°21'03" E	52.57'
L260	N 49°49'16" E	31.74'
L261	S 40°10'44" E	15.92'
L262	S 15°03'14" E	38.25'
L263	N 90°00'00" E	25.84'
L264	S 18°33'12" E	41.35'
L265	S 59°43'13" E	29.93'
L266	S 10°32'18" W	29.98'
L267	S 34°23'08" E	56.23'
L268	N 24°10'08" E	41.25'
L269	N 06°30'29" E	93.49'
L270	N 07°55'59" W	57.01'
L271	N 03°52'42" E	45.92'
L272	S 70°19'03" W	48.32'
L273	N 29°55'54" W	31.84'
L274	N 17°12'23" E	42.76'

LINE TABLE

LINE	BEARING	DISTANCE
L275	N 49°09'46" E	36.11'
L276	N 04°34'32" W	41.14'
L277	N 26°27'21" W	67.48'
L278	N 54°58'30" W	61.33'
L279	N 47°19'39" W	67.28'
L280	N 13°07'03" W	74.19'
L281	N 29°47'07" W	147.46'
L282	N 61°17'03" E	11.99'
L283	S 60°06'37" W	46.85'
L284	S 22°19'27" W	9.10'
L285	S 62°00'27" E	34.24'
L286	S 52°31'11" E	32.27'
L287	S 55°45'59" E	43.91'
L288	S 32°11'00" W	24.19'
L289	N 78°41'57" W	54.32'
L290	S 66°23'51" W	56.26'
L291	S 27°50'47" W	59.91'
L292	S 39°37'10" W	60.08'
L293	S 37°53'02" W	10.25'
L294	S 17°12'07" W	100.35'
L295	S 23°34'05" W	43.17'
L296	S 00°00'00" E	53.44'
L297	S 03°55'35" E	43.49'
L298	S 09°58'23" E	56.97'
L299	S 05°15'35" E	50.04'
L300	S 00°24'33" E	80.51'
L301	S 01°54'44" W	73.12'
L302	S 07°06'58" W	43.82'
L303	S 13°21'36" W	50.94'
L304	S 06°34'52" W	42.38'
L305	S 06°44'59" E	3.44'
L306	N 83°15'01" E	5.24'
L307	S 85°26'38" W	28.98'
L308	N 11°14'28" E	32.36'
L309	N 27°26'36" E	36.80'
L310	N 21°20'38" W	14.26'
L311	N 10°32'06" E	26.25'
L312	N 13°18'00" W	28.65'
L313	N 32°06'28" E	19.98'
L314	N 85°14'29" W	26.83'
L315	N 55°39'51" W	46.87'
L316	N 44°20'37" E	26.17'
L317	N 02°48'36" E	8.45'
L318	N 02°48'36" E	36.65'
L319	N 28°56'02" E	31.81'
L320	N 20°01'40" E	32.51'
L321	N 39°22'39" W	23.38'
L322	S 79°44'31" W	33.61'
L323	N 37°50'34" W	24.87'
L324	S 16°16'23" E	19.57'
L325	S 35°37'33" E	42.15'
L326	N 83°40'06" E	45.04'
L327	N 50°15'33" E	21.56'
L328	N 41°47'23" E	48.65'
L329	S 59°52'10" E	22.24'
L330	S 03°43'54" W	45.89'
L331	S 44°48'54" W	45.57'
L332	S 88°18'31" W	52.04'
L333	S 36°12'05" W	40.52'
L334	S 14°15'49" E	21.46'
L335	S 76°06'45" W	17.20'
L336	N 39°37'17" W	53.89'
L337	N 61°57'34" W	54.34'
L338	N 31°57'07" W	17.27'
L339	N 00°31'53" E	75.36'
L340	N 03°20'04" W	29.11'
L341	N 84°39'04" W	99.67'
L342	S 29°22'59" E	99.02'
L343	N 52°10'25" W	43.08'
L344	N 73°11'54" W	76.27'
L345	S 60°11'55" W	38.22'
L346	N 58°57'54" W	33.22'
L347	N 27°07'30" W	22.61'
L348	N 74°45'12" W	44.43'
L349	S 00°00'00" E	28.86'
L350	S 84°51'18" W	18.17'

LINE TABLE

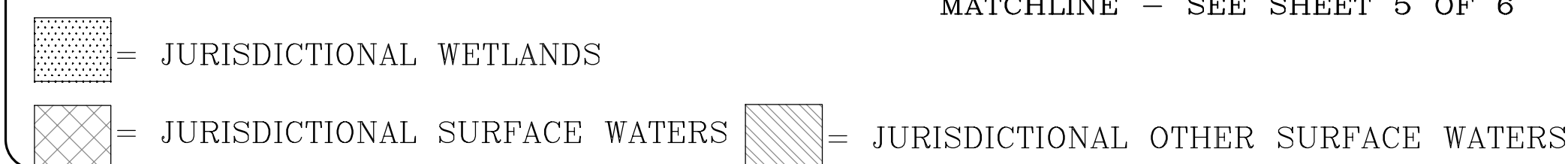
LINE	BEARING	DISTANCE
L399	N 22°04'19" W	45.40'
L400	S 86°25'17" W	33.73'
L411	S 87°16'40" E	58.50'
L412	S 84°26'09" E	65.98'
L413	N 78°31'55" E	45.62'
L414	S 02°32'50" W	80.58'
L417	N 07°47'39" E	64.34'
L418	N 12°02'24" W	27.05'
L419	S 85°20'26" E	42.34'
L420	N 90°00'00" E	80.28'
L421	S 86°51'52" E	62.95'
L422	S 87°23'26" E	275.31'
L423	S 89°26'49" E	99.02'
L424	N 80°51'58" E	43.91'
L425	N 81°37'42" W	87.18'
L426	N 86°04'20" W	311.94'
L427	S 81°10'03" W	40.39'
L428	N 79°06'52" W	42.11'
L429	S 89°10'29" W	55.26'
L430	S 86°18'26" W	31.44'
L431	N 79°16'33" W	53.94'
L432	S 86°34'45" W	98.34'
L433	N 81°37'42" W	37.27'
L434	S 84°29'11" W	13.08'
L435	N 86°18'41" W	9.94'
L436	N 80°51'58" E	43.91'
L437	S 87°23'26" E	275.31'
L438	S 89°26'49" E	99.02'
L439	N 80°51'58" E	43.91'
L440	S 86°51'52" E	62.95'
L441	S 87°23'26" E	275.31'
L442	S 89°26'49" E	99.02'
L443	N 80°51'58" E	43.91'
L444	S 86°18'26" W	31.44'
L445	N 79°16'33" W	53.94'
L446	S 86°34'45" W	98.34'
L447	N 81°37'42" W	37.27'
L448	S 84°29'11" W	13.08'
L449	N 86°18'41" W	9.94'
L450	N 80°51'58" E	43.91'
L451	S 87°23'26" E	275.31'
L452	S 89°26'49" E	99.02'
L453	N 80°51'58" E	43.91'
L454	S 86°51'52" E	62.95'
L455	S 87°23'26" E	275.31'
L456	S 89°26'49" E	99.02'
L457	N 80°51'58" E	43.91'
L458	S 86°18'26" W	31.44'
L459	N 79°16'33" W	53.94'
L460	S 86°34'45" W	98.34'
L461	N 81°37'42" W	37.27'
L462	S 84°29'11" W	13.08'
L463	N 86°18'41" W	9.94'
L464	N 80°51'58" E	43.91'
L465	S 87°23'26" E	275.31'
L466	S 89°26'49" E	99.02'
L467	N 80°51'58" E	43.91'
L468	S 86°51'52" E	62.95'
L469	S 87°23'26" E	275.31'
L470	S 89°26'49" E	99.02'
L471	N 80°51'58" E	43.91'
L472	S 86°18'26" W	31.44'
L473	N 79°16'33" W	53.94'
L474	S 86°34'45" W	98.34'
L475	N 81°37'42" W	37.27'
L476	S 84°29'11" W	13.08'
L477	N 86°18'41" W	9.94'
L478	N 80°51'58" E	43.91'
L479	S 87°23'26" E	275.31'
L480	S 89°26'49" E	99.02'
L481	N 80°51'58" E	43.91'
L482	S 86°51'52" E	62.95'
L483	S 87°23'26" E	275.31'
L484	S 89°26'49" E	99.02'
L485	N 80°51'58" E	43.91'
L486	S 86°18'26" W	31.44'
L487	N 79°16'33" W	53.94'
L488	S 86°34'45" W	98.34'
L489	N 81°37'42" W	37.27'
L490	S 84°29'11" W	13.08'
L491	N 86°18'41" W	9.94'
L492	N 80°51'58" E	43.91'
L493	S 87°23'26" E	275.31'
L494	S 89°26'49" E	99.02'
L495	N 80°51'58" E	43.91'
L496	S 86°51'52" E	62.95'
L497	S 87°23'26" E	275.31'
L498	S 89°26'49" E	99.02'
L499	N 80°51'58" E	43.91'
L500	S 86°18'26" W	31.44'
L501	N 79°16'33" W	53.94'
L502	S 86°34'45" W	98.34'
L503	N 81°37'42" W	37.27'
L504	S 84°29'11" W	13.08'</



KEY MAP
N.T.S.

LINE	BEARING	DISTANCE
L62	S 47°58'57" E	37.53'
L63	S 17°57'59" E	38.36'
L64	S 13°49'17" E	46.22'
L65	S 03°25'56" W	26.86'
L66	S 16°52'06" W	115.28'
L67	S 43°48'34" W	21.89'
L68	S 55°51'09" W	79.23'
L69	S 47°26'09" W	49.34'
L70	S 31°04'06" W	39.49'
L71	S 25°40'02" W	24.10'
L72	S 06°51'25" W	27.47'
L73	S 04°20'23" E	35.94'
L74	S 13°15'34" E	68.57'
L75	S 22°41'11" E	68.63'
L76	S 01°42'58" W	32.46'
L77	S 07°49'28" W	28.47'
L78	S 11°10'21" W	64.52'
L79	S 25°52'53" W	38.13'
L80	S 31°26'42" W	137.83'
L81	S 01°32'55" E	30.90'
L82	S 22°26'22" E	35.20'
L83	S 34°13'38" E	30.05'
L84	S 53°29'37" E	90.69'
L85	S 43°34'59" E	49.00'
L86	S 39°37'08" E	58.67'
L87	S 35°31'38" E	81.56'
L88	S 22°52'21" E	76.22'
L89	S 17°43'45" E	93.43'
L90	S 07°33'11" E	82.20'
L91	S 42°39'28" E	35.25'
L92	S 57°55'07" E	41.27'
L93	S 45°45'03" E	42.67'
L94	S 55°59'54" E	12.35'
L95	S 01°07'53" W	198.68'
L96	N 22°43'59" W	74.84'
L97	N 18°14'11" W	81.13'
L98	N 39°50'51" W	81.09'
L99	N 28°04'01" W	205.02'
L100	N 19°22'16" W	88.72'
L101	N 14°14'33" W	74.92'
L102	N 35°20'31" W	66.82'
L103	N 39°41'43" W	52.70'
L104	N 40°31'42" W	85.47'
L105	N 43°13'12" W	51.13'
L106	S 63°57'58" W	48.36'
L107	S 75°03'58" W	64.74'
L108	S 77°47'36" W	14.15'
L109	S 84°30'10" W	106.09'
L110	S 83°35'18" W	27.30'
L111	N 72°29'08" E	6.51'
L112	N 00°00'00" W	7.30'
L113	N 29°39'59" E	8.14'
L114	N 64°33'06" E	15.20'
L115	N 85°38'03" E	121.77'
L116	N 70°42'57" E	93.08'
L117	N 60°55'56" E	25.20'
L118	N 13°21'50" E	59.80'
L119	N 34°24'24" E	37.52'
L120	N 28°41'35" E	82.17'
L121	N 23°51'54" E	78.06'
L122	N 12°43'56" E	45.09'
L123	N 01°18'29" E	53.19'
L124	N 15°05'30" W	47.68'

LEGEND:



MATCHLINE - SEE SHEET 3 OF 6

MATCHLINE - SEE SHEET 5 OF 6

LINE	BEARING	DISTANCE
L125	N 17°47'50" W	62.91'
L126	N 04°09'50" W	55.67'
L127	N 08°17'33" E	47.90'
L128	N 24°34'49" E	46.67'
L129	N 50°27'33" E	51.26'
L130	N 54°10'46" E	85.97'
L131	N 37°02'49" E	28.81'
L132	N 21°00'35" E	58.44'
L133	N 12°22'33" E	51.06'
L134	N 12°33'56" W	57.39'
L135	N 18°14'20" W	27.96'
L136	N 43°25'05" W	47.89'
L137	N 01°07'53" E	5.01'
L138	S 88°52'07" E	327.93'
L139	N 41°37'30" W	68.52'
L140	N 10°36'09" E	51.13'
L141	N 39°03'35" W	78.00'
L142	S 52°45'35" W	58.81'
L143	N 19°48'46" W	32.03'
L144	N 15°47'26" W	43.19'
L145	N 40°46'48" W	90.95'
L146	N 63°58'33" W	42.40'
L147	N 88°41'28" W	39.66'
L148	S 71°10'44" W	33.65'
L149	S 01°17'32" E	55.70'
L150	S 05°19'04" W	56.60'
L151	S 73°13'48" W	34.68'
L152	N 52°05'26" W	57.86'
L153	N 20°12'55" W	109.26'
L154	N 22°14'50" E	82.36'
L155	N 27°33'44" E	31.53'
L156	N 31°30'16" E	61.81'
L157	N 31°30'16" E	18.25'
L158	N 18°27'06" W	23.90'
L159	N 12°30'40" W	75.01'
L160	N 16°39'28" W	48.03'
L161	N 32°22'06" W	40.16'
L162	N 41°17'55" W	46.24'

LINE	BEARING	DISTANCE
L163	N 52°33'56" W	74.05'
L164	N 24°52'32" W	48.28'
L165	N 36°38'15" W	39.54'
L166	N 00°09'06" W	53.31'
L167	N 03°59'31" E	70.23'
L168	N 04°56'59" W	58.94'
L169	N 21°59'20" E	62.54'
L170	N 83°10'12" E	63.38'
L171	S 88°15'40" E	82.62'
L172	N 86°42'58" E	41.56'
L173	N 86°42'58" E	53.40'
L174	N 06°56'33" E	32.96'
L175	N 09°43'59" W	97.00'
L176	N 63°57'55" W	36.24'
L177	S 89°49'18" W	72.60'
L178	N 55°29'08" W	38.83'
L179	N 68°28'33" W	28.15'
L180	N 09°58'59" E	29.08'
L181	N 04°50'54" W	47.94'
L182	N 08°29'34" W	32.82'
L183	N 73°18'56" E	49.49'
L184	N 42°59'42" W	41.47'
L185	N 22°04'19" W	45.40'

LINE	BEARING	DISTANCE
L705	N 51°54'06" E	42.07'
L706	N 33°14'26" E	33.33'
L707	N 79°06'49" E	52.28'
L708	S 34°28'15" W	12.64'
L709	S 57°10'57" E	35.01'
L710	S 82°41'04" E	21.38'
L711	S 45°30'22" E	27.14'
L712	S 69°28'05" E	25.34'
L713	S 07°54'48" E	14.69'
L714	S 54°08'23" E	21.06'
L715	S 69°38'17" E	18.83'
L716	S 86°40'33" E	46.04'
L717	S 68°43'51" E	19.79'
L718	S 50°04'48" E	43.50'
L719	N 10°15'34" E	17.41'
L720	N 31°35'24" E	30.90'
L721	N 47°39'15" W	41.18'
L722	N 02°20'06" E	22.65'
L723	N 44°28'11" W	24.83'
L724	N 73°40'09" W	28.80'
L725	N 35°01'27" W	40.80'
L726	N 64°59'13" W	24.06'

CURVE	BEARING	DISTANCE
C1	47.45'	39°47'58" 32.96'
C2	75.82'	65°28'59" 86.65'
C3	175.76'	25°07'48" 77.09'
C4	106.86'	32°13'59" 60.11'
C5	42.34'	53°03'32" 39.21'
C6	119.63'	21°32'37" 44.98'
C7	72.83'	23°38'55" 30.06'

LINE	BEARING	DISTANCE
L400	S 86°25'17" W	33.73'
L401	S 84°05'20" E	26.34'
L402	S 60°25'36" E	38.70'
L403	S 19°51'38" E	20.35'
L404	S 46°47'31" E	16.53'
L405	S 33°25'05" W	31.88'
L406	S 03°03'34" W	24.02'
L407	S 89°22'31" W	30.82'
L408	S 48°24'00" W	25.51'
L409	S 89°04'32" W	10.65'
L410	N 00°16'39" E	120.32'
L411	S 02°32'50" W	80.58'
L412	S 14°14'07" E	23.85'
L413	N 14°49'04" E	14.65'
L414	N 07°47'39" E	64.34'
L415	N 89°50'21" E	32.91'
L416	N 48°33'50" E	22.87'
L417	S 66°06'05" E	33.29'
L418	S 52°07'56" E	17.67'
L419	S 49°03'09" E	28.71'
L420	S 36°38'53" E	20.27'
L421	S 22°22'32" E	22.17'
L422	S 11°04'41" E	36.54'
L423	S 10°09'20" E	30.77'
L424	S 06°29'08" E	14.08'
L425	S 32°23'53" E	33.76'
L426	N 21°04'25" W	30.00'
L427	N 04°13'01" W	36.66'
L428	N 08°30'52" W	24.71'
L429	N 18°35'03" W	25.37'
L430	N 36°21'43" W	14.44'
L431	N 46°27'02" W	25.79'
L432	N 63°27'01" W	55.35'
L433	N 26°38'18" W	32.19'
L434	N 46°19'10" W	33.01'
L435	N 65°52'13" W	34.10'
L436	S 05°13'48" W	46.14'
L437	N 81°36'57" W	38.52'

LINE	BEARING	DISTANCE
L681	S 74°27'23" E	54.66'
L682	S 53°48'34" E	14.93'
L683	N 00°16'39" E	218.91'
L684	S 68°50'58" E	27.84'
L685	N 68°19'18" E	36.51'
L686	S 76°15'49" E	17.53'
L687	N 80°38'47" E	19.50'
L688	S 71°31'52" E	22.36'
L689	S 15°07'27" W	22.84'
L690	S 74°24'43" E	35.96'
L691	N 60°05'00" E	29.18'
L692	N 52°39'33" E	31.81'
L693	N 77°57'13" W	45.73'
L694	S 56°01'47" W	67.67'
L695	S 71°43'15" W	44.05'
L696	S 59°16'50" W	61.76'
L697	S 40°14'40" W	38.33'
L698	S 45°01'52" W	83.67'
L699	S 22°32'15" W	59.88'
L700	S 04°51'41" W	64.95'
L701	S 07°28'34" E	67.03'
L702	S 66°03'54" E	45.86'

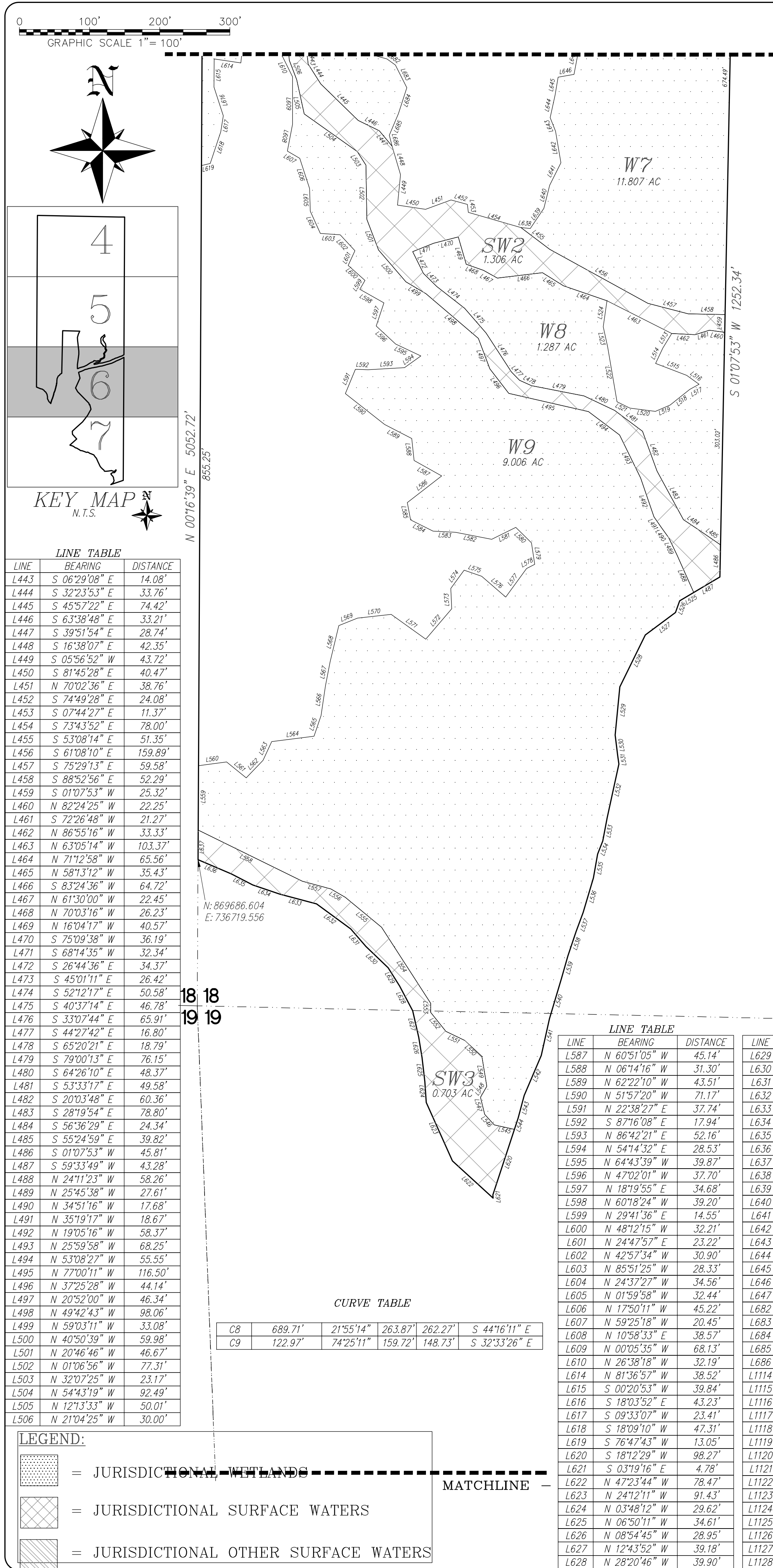
LINE	BEARING	DISTANCE
L901	S 57°53'36" E	62.24'
L902	S 66°22'55" E	61.58'
L903	S 16°24'29" E	72.14'
L904	S 38°51'25" W	110.38'
L905	N 73°02'12" W	36.72'
L906	N 74°34'12" W	76.92'
L907	N 73°02'12" W	36.72'
L908	N 16°51'58" W	52.05'
L909	N 02°19'17" E	60.07'
L910	N 00°56'21" W	67.30'
L911	N 76°36'33" W	54.19'
L912	S 66°33'23" W	49.51'
L913	S 02°29'02" W	91.01'
L914	S 00°43'58" W	98.98'

LINE	BEARING	DISTANCE
L727	N 15°55'03" E	39.54'
L728	N 21°53'07" W	23.72'
L729	N 67°44'40" W	20.48'
L730	N 56°05'55" W	20.68'
L731	S 77°40'23" W	40.35'
L732	N 63°18'55" W	29.12'
L733	N 56°51'24" W	42.82'
L734	N 60°50'23" W	31.16'
L735	N 55°13'29" W	21.45'
L736	N 20°13'28" W	60.47'
L737	N 42°25'44" W	51.78'
L738	N 34°28'56" W	35.89'
L739	S 27°39'04" W	19.39'
L740	N 29°07'25" W	37.81'
L741	N 09°53'15" E	26.05'
L742	N 28°24'44" W	23.56'
L743	N 84°04'42" W	16.52'
L744	N 05°55'18" E	40.06'
L745	S 72°37'46" W	6.86'
L746	N 89°25'50" W	24.25'
L747	N 77°58'17" W	14.51'
L748	N 61°51'40" W	12.67'
L749	S 68°12'23" W	25.91'
L750	S 79°56'02" W	8.62'
L869	S 80°53'52" E	46.81'

LINE	BEARING	DISTANCE
L886	N 03°04'46" E	51.02'
L887	N 33°33'33" W	61.44'
L888	N 36°56'51" W	66.64'
L889	N 20°50'54" W	42.23'
L890	N 51°31'43" W	54.09'
L891	S 77°57'13" W	45.73'
L892	S 56°01'47" W	67.67'
L893	S 71°43'15" W	44.05'
L894	S 59°16'50" W	61.76'
L895	S 40°14'40" W	38.33'
L896	S 45°01'52" W	83.67'
L897	S 22°32'15" W	59.88'
L898	S 04°51'41" W	64.95'
L899	S 07°28'34" E	67.03'
L900	S 66°03'54" E	45.86'

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LINE	BEARING	DISTANCE
L929	N 10°38'54" E	65.75'
L930	N 06°05'54" E	66.41'
L931	N 02°40'27" E	70.48'
L932	N 36°37'41" E	66.99'
L933	N 76°15'04" E	31.90'
L934	N 49°07'56" E	54.23'
L935	N 60°20'27" E	51.33'
L936	N 55°28'29" E	57.58'
L937	N 38°05'53" E	63.96'
L938	N 55°49'13" E	81.98'
L939	N 35°15'31" E	77.52'
L940	S 65°04'14" E	43.61'
L941	N 07°53'51" E	60.72'
L942	N 06°32'37" W	61.61'
L943	N 04°36'09" E	36.07'
L944	N 21°41'54" W	24.04'
L945	N 42°22'13" W	59.83'
L946	N 52°44'10" W	54.50'
L947	N 56°19'12" W	57.29'
L948	N 85°05'07" E	39.24'
L949	S 74°36'34" E	41.73'
L950	S 56°49'35" E	53.77'
L951	S 33°07'21" E	32.93'
L952	S 36°59'03" W	9.03'
L953	N 76°33'33" W	22.15'
L954	N 40°54'54" W	40.72'
L955	N 46°11'36" W	38.47'
L956	N 69°49'56" W	94.50'
L957	S 78°59'11" W	19.68'
L958	S 20°46'07" W	29.94'
L959	S 69°10'32" W	22.74'
L960	S 56°03'20" W	6.39'
L961	S 00°54'00" W	10.00'

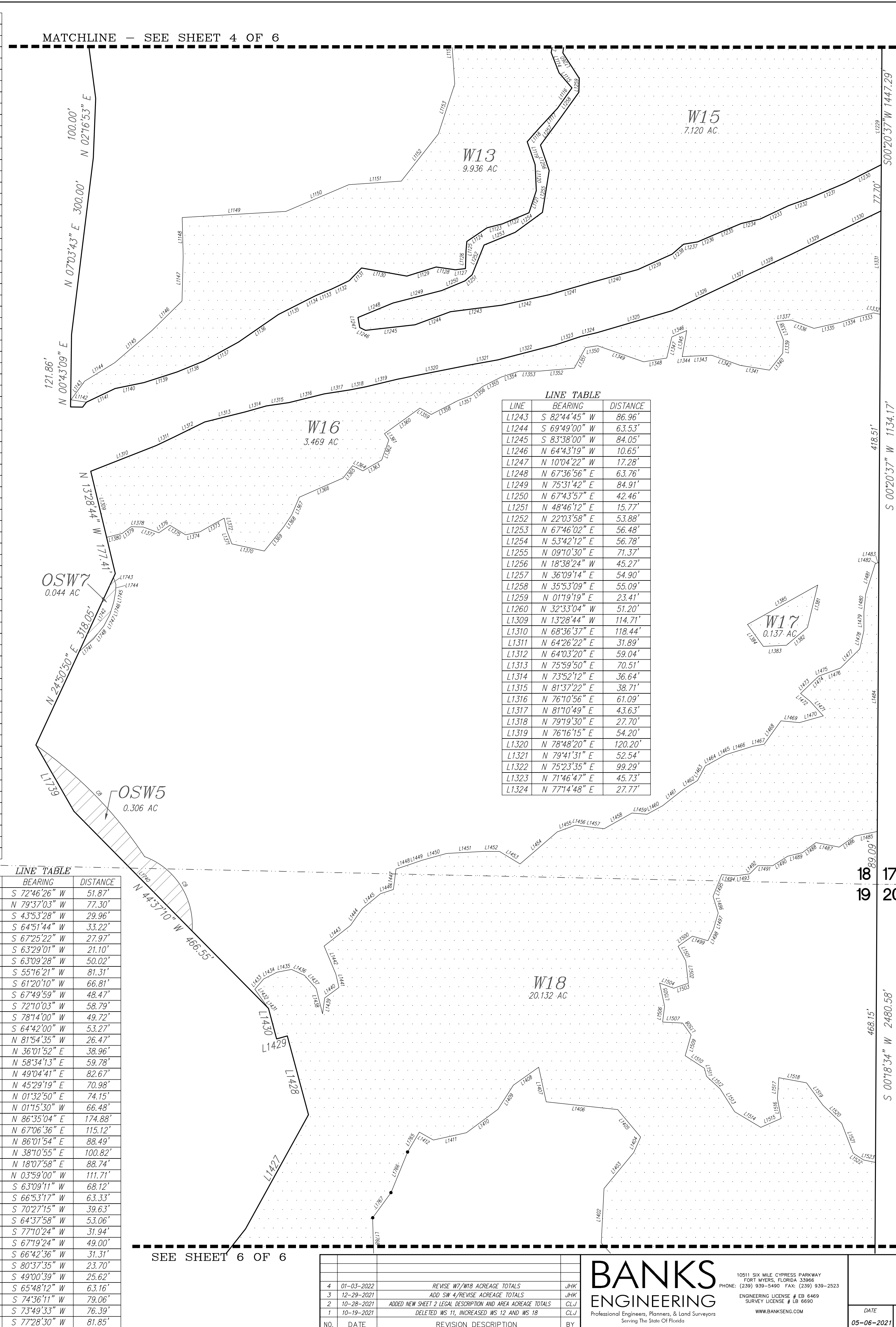


LINE TABLE		
LINE	BEARING	DISTANCE
L513	S 31°40'14" W	24.21'
L514	S 25°02'34" W	24.21'
L515	S 68°52'01" E	47.67'
L516	S 54°10'15" E	21.61'
L517	S 61°49'30" W	15.27'
L518	S 10°45'00" W	35.77'
L519	S 67°02'29" W	22.72'
L520	N 82°34'07" W	36.73'
L521	N 64°10'39" W	20.36'
L522	N 09°40'13" W	79.28'
L523	N 12°26'44" W	29.65'
L524	S 08°21'38" W	37.41'
L525	S 59°33'49" W	23.30'
L526	S 19°55'43" W	17.96'
L527	S 5318'36" W	53.47'
L528	S 26°06'00" W	82.56'
L529	S 05°34'19" W	68.70'
L530	S 07°11'04" E	29.90'
L531	S 07°54'16" E	11.85'
L532	S 12°15'17" W	78.12'
L533	S 10°40'48" W	33.89'
L534	S 21°15'12" W	20.19'
L535	S 10°05'07" W	34.32'
L536	S 16°26'09" W	51.67'
L537	S 20°15'30" W	26.82'
L538	S 18°57'28" W	38.38'
L539	S 15°47'44" W	34.13'
L540	S 16°28'26" W	59.42'
L541	S 12°32'34" W	53.60'
L542	S 23°08'17" W	62.09'
L543	S 15°16'02" W	33.53'
L544	S 18°12'29" W	16.75'
L545	N 77°44'23" W	29.44'
L546	N 41°26'29" W	20.29'
L547	N 14°02'46" W	24.90'
L548	N 29°24'46" E	18.23'
L549	N 09°16'22" W	43.17'
L550	N 47°12'03" W	33.24'
L551	N 64°29'55" W	29.86'
L552	N 38°55'06" W	34.80'
L553	N 00°00'00" E	13.11'
L554	N 32°52'43" W	128.85'
L555	N 50°22'29" W	67.14'
L556	N 59°40'24" W	23.83'
L557	N 74°48'52" W	42.11'
L558	N 63°55'13" W	165.36'
L559	N 10°36'39" E	91.85'
L560	N 82°26'28" E	40.26'
L561	S 51°13'38" E	35.98'
L562	N 43°53'59" E	34.69'
L563	N 24°49'33" E	29.38'
L564	N 82°56'30" E	60.95'
L565	N 182°35'30" E	30.81'
L566	N 08°37'10" E	43.19'
L567	N 11°06'23" E	35.08'
L568	N 13°19'59" E	52.90'
L569	N 68°26'52" E	28.62'
L570	N 83°46'06" E	48.22'
L571	S 54°42'04" E	60.63'
L572	N 40°40'01" E	56.94'
L573	N 02°58'22" W	29.01'
L574	N 36°14'07" E	32.26'
L575	S 70°53'18" E	26.34'
L576	S 49°16'28" E	45.47'
L577	N 36°16'27" E	50.38'
L578	N 62°05'09" E	12.84'
L579	N 08°26'18" W	30.95'
L580	N 45°34'55" W	31.40'
L581	S 63°33'35" W	38.38'
L582	N 78°50'29" W	52.53'
L583	N 86°56'55" W	31.92'
L584	N 63°39'00" W	35.75'
L585	N 103°47'42" W	25.23'
L586	N 52°07'47" E	61.99'

LINE TABLE		
LINE	BEARING	DISTANCE
1587	N 60°51'03" W	45.14'
1588	N 06°41'16" W	31.30'
1589	N 02°22'10" W	43.55'
1590	N 51°55'20" W	71.17'
1591	N 22°38'27" E	37.74'
1592	S 87°16'08" E	17.94'
1593	N 86°42'21" E	52.16'
1594	N 54°34'32" E	28.53'
1595	N 64°43'39" W	39.87'
1596	N 47°02'01" W	37.70'
1597	N 18°19'55" E	34.68'
1598	N 60°18'24" W	39.20'
1599	N 29°41'36" E	14.55'
1600	N 48°12'15" W	32.21'
1601	N 24°47'57" E	23.22'
1602	N 42°57'34" W	30.90'
1603	N 85°51'25" W	28.33'
1604	N 34°37'22" W	34.56'
1605	N 01°59'58" W	32.44'
1606	N 17°50'11" W	45.22'
1607	N 59°25'18" W	20.45'
1608	N 10°58'33" E	38.57'
1609	N 00°05'35" W	68.13'
1610	N 26°38'18" W	32.19'
1614	N 81°36'57" W	38.52'
1615	S 02°00'53" W	39.84'
1616	S 18°03'52" E	43.23'
1617	S 09°30'37" W	23.41'
1618	N 18°09'10" W	47.31'
1619	S 76°47'43" W	13.05'
1620	S 18°12'29" W	98.27'
1621	S 03°19'16" E	7.48'
1622	N 47°23'44" W	78.47'
1623	N 04°21'11" W	91.43'
1624	N 23°48'12" W	29.62'
1625	N 06°50'11" W	34.61'
1626	N 08°54'45" W	28.95'
1627	N 12°43'52" W	39.18'
1628	N 28°20'46" W	39.90'

LINE TABLE		
LINE	BEARING	DISTANCE
L629	N 32°08'08" W	30.67
L630	N 45°59'31" W	43.84
L631	N 40°53'39" W	33.01
L632	N 53°48'26" W	60.20
L633	N 75°05'44" W	64.64
L634	N 71°07'07" W	40.46
L635	N 62°42'59" W	34.22
L636	N 66°57'30" W	51.84
L637	N 06°10'39" E	42.26
L638	S 84°49'55" E	13.35
L639	N 34°41'17" E	34.48
L640	N 13°35'45" E	33.96
L641	N 26°45'30" E	35.91
L642	N 09°38'36" W	45.71
L643	N 22°00'10" W	20.80
L644	N 12°06'11" E	32.92
L645	N 09°36'19" E	25.82
L646	N 79°38'08" E	23.14
L647	N 10°30'33" E	44.15
L682	S 54°34'34" E	14.93
L683	S 26°57'31" E	36.01
L684	S 17°57'39" W	38.87
L685	S 22°52'59" W	33.38
L686	S 13°51'21" E	16.13
L1114	N 21°26'11" E	36.72
L1115	S 40°17'20" E	33.23
L1116	S 35°18'25" W	42.17
L1117	S 42°33'03" W	45.18
L1118	S 41°13'28" W	30.71
L1119	S 18°57'53" E	40.71
L1120	S 02°39'27" E	43.57
L1121	S 16°07'05" W	39.46
L1122	S 67°10'19" W	48.51
L1123	S 56°56'36" W	27.05
L1124	S 75°06'26" W	40.96
L1125	S 04°07'53" W	15.13
L1126	S 02°20'53" W	30.76
L1127	S 83°41'22" W	17.10
L1128	N 8°54'26" E	32.46

LINE TABLE		
LINE	BEARING	DISTANCE
L1129	S 72°46'26" W	51.87
L1130	N 79°57'03" W	77.30
L1131	S 43°53'28" W	29.96
L1132	S 64°51'44" W	33.22
L1133	S 67°25'22" W	27.97
L1134	S 63°29'01" W	21.10
L1135	S 63°39'28" W	50.02
L1136	S 55°21'21" W	81.31
L1137	S 61°21'00" W	66.81
L1138	S 74°49'59" W	58.79
L1139	S 72°10'03" W	48.45
L1140	S 78°14'00" W	49.72
L1141	S 64°42'00" W	53.27
L1142	N 81°54'35" E	26.47
L1143	N 86°51'52" E	38.96
L1144	N 58°34'13" E	59.78
L1145	N 49°04'41" E	82.67
L1146	N 45°29'19" E	70.95
L1147	N 01°32'50" E	74.88
L1148	N 01°55'30" W	66.48
L1149	N 86°35'04" E	174.88
L1150	N 67°06'36" E	115.12
L1151	N 86°01'54" E	88.49
L1152	N 38°10'55" E	100.82
L1153	N 18°07'58" E	88.74
L1154	N 03°39'00" W	111.71
L1230	S 63°09'11" W	68.12
L1231	S 66°53'11" W	63.33
L1232	S 70°27'15" W	39.63
L1233	S 64°37'58" W	53.06
L1234	S 77°10'24" W	31.94
L1235	S 67°19'24" W	49.00
L1236	S 66°42'36" W	31.31
L1237	S 80°37'35" W	23.70
L1238	S 49°00'39" W	25.62
L1239	S 65°48'12" W	63.16
L1240	S 74°36'11" W	79.06
L1241	S 73°49'33" W	76.39
L1242	S 77°28'30" W	81.85



LINE TABLE					
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1326	N 73°38'17" E	131.49	L1453	S 58°59'30" E	40.53
L1326	N 64°38'32" E	113.85	L1454	N 49°16'46" E	82.60
L1327	N 64°07'37" E	23.99	L1455	N 70°01'45" E	32.78
L1328	N 64°53'28" E	84.52	L1456	S 82°54'19" E	9.09
L1329	N 64°11'02" E	86.91	L1457	S 82°54'19" E	39.60
L1330	N 64°11'54" E	80.97	L1458	N 60°16'11" E	53.48
L1331	S 02°20'37" W	174.18	L1459	S 84°58'07" E	25.46
L1332	N 78°11'21" W	11.93	L1460	N 61°10'39" E	30.16
L1333	S 75°54'32" W	28.68	L1461	N 51°31'57" E	44.64
L1334	S 72°04'22" W	29.55	L1462	N 58°32'09" E	27.84
L1335	N 77°14'25" W	45.33	L1463	N 28°25'49" E	28.12
L1336	N 69°53'08" W	40.80	L1464	N 61°17'38" E	3.25
L1337	S 84°45'50" W	25.29	L1465	N 61°17'38" E	3.25
L1338	S 21°21'51" E	32.84	L1466	N 73°03'46" E	47.34
L1339	S 02°49'09" W	23.12	L1467	N 79°58'38" E	18.59
L1340	S 38°11'43" W	35.88	L1468	N 35°33'14" E	48.50
L1341	N 80°56'00" W	49.80	L1469	S 84°26'39" E	31.31
L1342	S 72°02'02" W	51.18	L1470	N 73°58'22" E	41.70
L1343	S 87°14'17" W	37.95	L1471	N 42°06'30" W	33.18
L1344	S 87°14'17" W	11.53	L1472	N 50°36'53" W	20.58
L1345	N 09°37'52" E	44.59	L1473	N 46°25'34" E	27.15
L1346	S 66°54'05" W	26.98	L1474	N 46°25'34" E	15.24
L1347	S 13°30'18" W	36.94	L1475	N 69°35'44" E	13.39
L1348	S 80°52'47" W	39.63	L1476	N 69°35'44" E	25.66
L1349	N 70°34'28" W	81.94	L1477	N 45°15'56" E	45.63
L1350	S 81°18'35" W	20.67	L1478	N 12°48'37" E	31.87
L1351	N 28°38'01" W	39.71	L1479	N 00°00'00" E	31.43
L1352	S 85°18'59" W	58.76	L1480	N 05°30'32" E	29.79
L1353	S 89°51'28" W	33.86	L1481	N 17°30'27" E	53.53
L1354	S 71°59'45" W	32.18	L1482	N 59°50'11" E	3.59
L1355	S 63°00'25" W	34.68	L1483	N 90°00'00" E	3.02
L1356	S 51°08'41" W	24.58	L1484	S 02°20'37" W	452.38
L1357	S 69°49'45" W	23.59	L1485	N 78°11'46" W	38.38
L1358	S 62°31'33" W	51.67	L1486	S 55°21'55" W	32.37
L1359	N 60°02'34" W	21.91	L1487	N 78°56'27" W	39.70
L1360	S 54°04'54" W	73.39	L1488	S 53°15'59" W	28.70
L1361	S 33°43'01" E	12.94	L1489	S 76°35'15" W	25.31
L1362	N 19°50'36" W	35.64	L1490	S 57°46'44" W	30.14
L1363	S 59°41'09" W	36.45	L1491	N 89°51'54" W	25.03
L1364	N 64°12'21" W	19.38	L1492	S 43°32'56" W	19.13
L1365	S 37°53'53" W	25.84	L1493	S 81°40'37" W	23.86
L1366	S 66°15'31" W	80.68	L1494	N 85°14'19" W	23.70
L1367	S 23°05'59" W	32.61	L1495	N 21°51'51" W	39.52
L1368	S 34°05'29" W	24.43	L1496	S 17°25'46" E	29.19
L1369	S 38°39'38" W	51.71	L1497	S 16°27'05" W	28.42
L1370	N 77°34'14" W	56.09	L1498	S 25°21'58" W	21.57
L1371	N 20°34'23" W	23.39	L1499	N 73°10'34" W	27.24
L1372	N 12°16'04" W	22.03	L1500	S 54°40'24" W	29.56
L1373	S 60°24'38" W	46.89	L1501	S 27°37'43" E	27.95
L1374	S 78°43'48" W	24.77	L1502	S 06°38'55" E	37.83
L1375	N 58°33'11" W	30.87	L1503	N 71°12'02" E	26.34
L1376	S 55°54'43" W	22.64	L1504	N 69°48'51" W	25.10
L1377	N 70°04'30" W	27.58	L1505	N 11°55'04" E	39.90
L1378	N 87°57'43" W	20.84	L1506	S 06°53'23" W	26.54
L1379	S 52°31'33" W	18.78	L1507	S 86°55'28" E	33.59
L1380	N 75°47'10" W	27.13	L1508	S 35°42'43" E	24.78
L1381	S 13°38'35" W	73.36	L1509	S 15°48'40" W	36.34
L1382	S 49°46'16" W	46.40	L1510	S 96°53'38" E	38.61
L1383	S 86°52'07" W	38.85	L1511	N 14°35'06" E	14.08
L1384	N 35°56'28" W	45.58	L1512	S 47°12'27" E	31.21
L1385	N 60°39'42" E	135.67	L1513	S 32°22'33" E	45.46
L1402	N 02°48'19" E	91.77	L1514	S 59°06'24" E	51.36
L1403	N 39°25'04" E	78.70	L1515	N 66°07'47" E	37.46
L1404	N 24°09'53" E	68.21	L1516	N 10°20'48" W	34.11
L1405	N 39°40'13" W	29.49	L1517	N 03°26'51" E	34.92
L1407	N 12°07'11" W	59.66	L1518	S 79°27'30" E	47.44
L1408	S 54°23'53" W	52.51	L1519	S 36°28'27" E	46.51
L1409	S 32°54'53" W	48.28	L1520	S 45°54'06" E	44.17
L1410	S 53°39'22" W	65.71	L1521	S 20°54'53" E	54.11
L1411	S 77°26'55" W	57.15	L1522	S 57°52'42" E	20.84
L1412	N 60°44'10" W	27.16	L1523	S 78°41'06" E	20.32
			L1739	N 29°52'10" W	128.36
L1428	N 28°49'50" E	219.46	L1740	N 44°37'10" W	283.57
L1429	N 15°00'10" W	131.77	L1741	S 48°11'25" W	32.54
L1429	S 74°59'50" W	18.55	L1742	N 24°50'50" E	137.67
L1430	N 15°00'10" W	53.03	L1743	S 19°25'42" E	12.40
L1431	N 44°37'10" W	0.87	L1744	S 02°35'11" W	11.73
L1432	N 35°05'20" W	38.99	L1745	S 09°42'38" W	18.39
L1433	N 50°40'26" E	22.80	L1746	S 17°34'54" W	21.56
L1434	N 63°05'01" E	24.95	L1747	S 27°44'09" W	22.04
L1435	N 73°55'53" E	24.95	L1748	S 38°39'47" W	27.73
L1436	S 65°40'40" E	24.08	L1765	S 30°31'38" W	38.72
L1437	S 41°23'52" E	29.63	L1766	S 22°17'20" W	74.09
L1438	S 14°08'08" E	43.64	L1767	S 36°00'57" W	52.33
L1439	S 07°38'59" E	27.08			
L1440	N 53°21'02" E	29.73			
L1441	N 12°54'23" W	23.17			
L1442	N 22°35'51" W	50.95			
L1443	N 51°57'50" E	56.28			
L1444	N 35°03'46" E	34.55			
L1445	N 50°40'56" E	39.34			
L1446	N 71°06'57" E	23.15			
L1447	N 07°10'48" E	34.59			
L1448	N 71°34'23" E	30.67			
L1449	N 71°34'23" E	15.09			
L1450	N 74°29'57" E	43.68			
L1451	N 86°38'52" E	60.40			
L1452	S 89°49'02" E	28.51			

4	01-03-2022	REVISE W7/W18 ACREAGE TOTALS	JHK		
3	12-29-2021	ADD SW 1/4/REVISE ACREAGE TOTALS	JHK		
2	10-28-2021	ADDED NEW SHEET 2 LEGAL DESCRIPTION AND AREA ACREAGE TOTALS	CLJ		
1	10-19-2021	DELETED WS 11, INCREASED WS 12 AND WS 18	CLJ		
NO.	DATE	REVISION DESCRIPTION	B		

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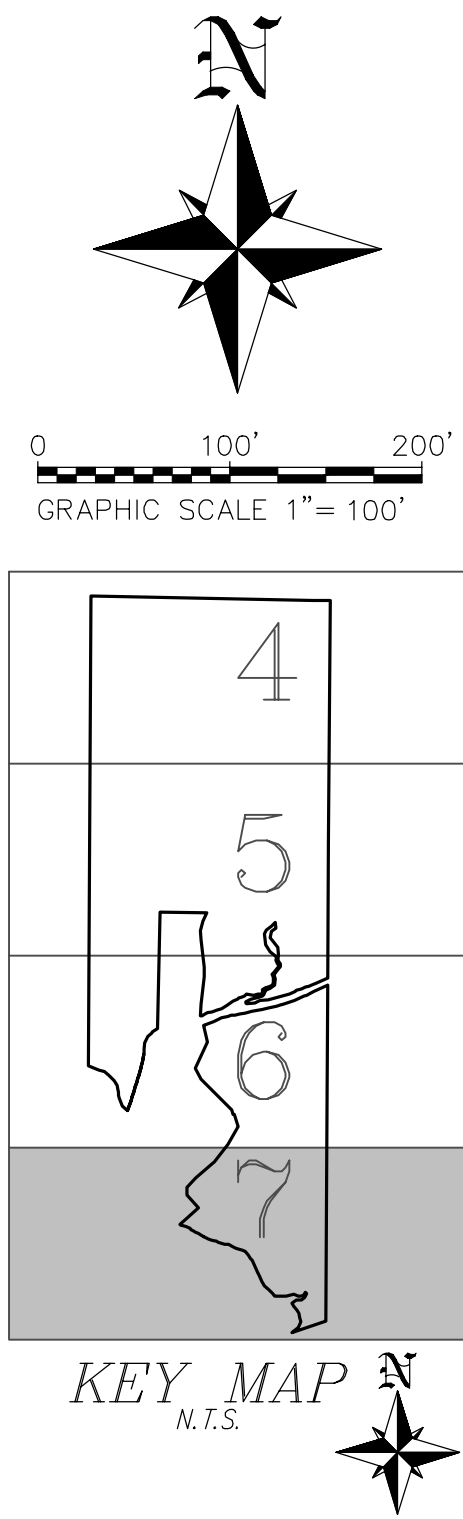
10511 SIX MILE CYPRESS PARKWAY
FORT MYERS, FLORIDA 33909
PHONE: (239) 939-5450 FAX: (239) 939-2523

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SURVEY LICENSE # LB 6690

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EXHIBIT
OWL CREEK PARCEL
LEE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DRAWN	CHECKED	SCALE	SHEET	OF	FILE NO. (S-T-R)
05-06-2021	8504	8504-0-58	CLJ	JDW	1"=100'	6	7	18-43-26 18-43-26



LINE	BEARING	DISTANCE
L1386	N 54°54'41" W	47.04'
L1387	N 08°20'49" E	26.37'
L1388	S 81°40'07" W	29.22'
L1389	S 64°34'06" W	29.58'
L1390	S 52°53'14" W	39.21'
L1391	S 77°32'20" W	43.68'
L1392	S 54°03'56" W	56.49'
L1393	N 63°29'50" W	20.57'
L1394	N 48°41'27" W	38.95'
L1395	N 38°12'06" W	35.89'
L1396	N 56°05'28" W	44.59'
L1397	N 35°27'25" W	42.35'
L1398	N 43°25'41" W	38.82'
L1399	N 09°20'56" W	78.31'
L1400	N 18°58'04" W	58.42'
L1401	N 41°45'54" W	89.19'
L1402	N 02°48'18" E	91.77'
L1421	N 40°22'03" W	98.07'
L1422	N 30°19'08" W	61.88'
L1423	N 03°40'10" W	0.34'
L1425	N 48°53'50" E	266.81'
L1426	N 37°56'50" E	235.27'
L1525	S 03°24'16" E	36.25'
L1526	S 63°34'57" E	21.20'
L1527	S 04°24'44" E	50.01'
L1528	S 00°40'42" W	67.66'
L1529	S 03°04'32" W	59.90'
L1530	S 05°51'28" E	37.84'
L1531	S 03°57'22" W	50.16'
L1532	S 12°21'44" W	40.27'
L1533	N 80°01'28" W	35.23'
L1534	N 67°40'52" W	18.10'
L1535	N 31°54'48" W	20.31'
L1536	N 01°18'32" W	28.32'
L1537	N 06°06'10" W	77.24'
L1538	N 24°23'27" E	54.30'
L1539	N 01°37'57" E	66.47'
L1540	N 01°32'08" E	68.96'
L1541	N 37°43'24" E	30.48'
L1542	N 67°03'11" E	14.62'
L1543	S 43°25'57" E	16.62'
L1544	S 06°46'54" W	67.92'
L1545	S 12°08'17" E	47.01'
L1546	S 00°00'00" E	115.54'
L1547	S 05°38'52" W	46.57'
L1548	S 06°08'43" E	42.40'
L1549	S 06°08'43" E	14.51'
L1550	S 01°45'59" W	32.73'
L1551	S 00°46'38" E	70.03'
L1552	S 01°56'05" E	55.33'
L1553	S 01°34'56" W	56.32'
L1554	S 00°07°54" E	501.37'
L1555	S 00°18'34" W	97.15'
L1556	S 71°02'37" W	20.91'
L1557	N 12°11'22" W	60.39'
L1558	N 04°21'07" W	57.69'
L1559	N 09°09'44" W	40.57'
L1560	N 09°09'44" W	11.47'
L1561	N 02°05'48" E	36.00'
L1562	N 03°29'51" E	59.77'
L1563	N 04°57'04" W	73.86'
L1564	N 01°11'38" E	27.60'
L1565	N 13°25'38" E	44.36'
L1566	N 02°19'57" W	60.03'
L1567	N 06°31'15" W	46.37'
L1568	N 16°19'34" W	35.71'
L1569	N 04°23'02" W	45.53'
L1570	N 28°51'58" W	64.48'
L1571	N 26°16'09" E	60.44'
L1572	N 03°36'29" W	31.83'
L1573	N 66°03'44" W	23.46'
L1574	N 17°47'08" W	36.61'
L1575	N 59°38'59" E	22.75'
L1576	N 20°19'51" W	21.39'
L1577	N 85°12'38" W	20.18'
L1578	N 01°21'36" E	107.43'
L1579	N 75°32'30" E	30.22'
L1580	N 11°56'22" E	38.79'
L1581	N 01°03'19" W	55.39'
L1582	N 11°32'34" E	56.24'
L1583	N 01°29'02" E	73.22'
L1584	N 69°46'05" E	38.62'
L1585	N 52°44'09" E	86.87'
L1586	N 23°50'54" E	68.13'
L1587	N 10°38'48" W	52.58'
L1588	N 09°06'55" W	42.95'
L1589	N 32°14'07" W	39.88'
L1590	N 43°39'22" W	52.79'
L1591	N 34°08'38" W	41.08'
L1592	N 54°52'16" E	60.65'
L1593	N 87°04'33" E	55.75'
L1594	N 49°55'04" E	45.69'
L1595	N 28°07'43" E	46.00'
L1596	N 56°19'58" W	17.93'
L1597	S 36°51'22" W	39.99'

LINE	BEARING	DISTANCE
L1598	S 71°55'20" W	31.45'
L1599	S 89°48'27" W	25.16'
L1600	N 63°29'40" W	53.19'
L1601	S 77°12'19" W	81.07'
L1602	S 87°13'04" W	71.51'
L1603	S 86°14'38" W	51.39'
L1604	N 32°39'35" W	39.89'
L1605	N 46°07'12" W	55.49'
L1606	N 48°12'13" W	67.15'
L1607	N 30°38'49" W	52.85'
L1608	N 25°28'33" W	64.46'
L1609	N 28°26'17" W	48.85'
L1610	N 24°27'43" W	67.21'
L1611	N 23°43'59" W	68.49'
L1612	N 44°29'30" W	30.93'
L1613	N 32°47'22" W	39.03'
L1614	N 37°30'31" W	53.12'
L1615	N 72°02'02" W	37.99'
L1616	N 66°54'09" W	50.25'
L1617	N 76°40'16" W	23.57'
L1618	N 62°41'50" W	29.07'
L1619	N 57°22'45" W	52.85'
L1620	S 81°19'58" W	24.79'
L1621	S 86°10'29" W	20.72'
L1622	N 68°13'44" W	70.32'
L1623	N 62°52'25" W	25.24'
L1624	N 76°26'43" W	42.82'
L1625	N 86°37'33" W	23.07'
L1626	N 66°30'11" W	23.15'
L1627	N 59°53'05" W	31.24'
L1628	N 63°30'36" W	30.41'
L1629	N 56°41'32" W	40.31'
L1630	N 61°46'56" W	24.48'
L1631	N 71°57'11" W	31.15'
L1632	N 60°34'35" W	28.45'
L1633	N 52°43'10" W	31.94'
L1634	N 40°26'58" W	13.97'
L1635	N 69°12'09" W	50.97'
L1636	N 75°09'23" W	27.53'
L1637	N 71°05'34" W	29.39'
L1638	N 50°55'55" W	7.35'
L1639	N 48°06'50" E	272.62'
L1640	S 31°07'29" E	30.91'
L1641	S 51°09'36" W	19.80'
L1642	S 46°59'00" W	65.69'
L1643	S 61°54'51" E	85.16'
L1644	N 47°28'53" E	54.96'
L1645	S 65°08'58" E	81.31'
L1646	S 67°02'42" E	81.27'
L1647	S 12°19'08" W	53.32'
L1648	S 63°21'35" E	36.73'
L1649	S 03°58'19" E	34.20'
L1650	S 54°09'51" E	28.08'
L1651	N 82°46'42" E	22.26'
L1652	S 54°59'55" E	40.60'
L1653	S 64°53'40" E	36.84'
L1654	S 58°08'35" E	94.87'
L1655	S 55°02'17" E	91.05'
L1656	S 52°11'40" E	53.12'
L1657	N 74°13'40" E	51.05'
L1658	S 18°48'28" E	37.56'
L1659	S 72°28'13" E	57.21'
L1660	S 48°42'26" E	73.31'
L1661	S 87°36'46" E	69.67'
L1662	S 80°12'05" E	34.16'
L1663	S 56°01'39" E	66.94'
L1664	S 70°08'42" E	61.93'
L1665	S 39°50'19" E	58.06'
L1666	N 50°08'56" E	35.93'
L1667	S 37°35'17" E	35.27'
L1668	S 75°36'18" E	63.28'
L1669	N 87°06'16" E	53.71'
L1670	S 84°32'12" E	46.77'
L1671	S 69°27'26" E	50.47'
L1672	S 73°34'47" E	23.92'
L1673	S 40°40'39" E	27.44'
L1674	S 26°11'24" E	43.12'
L1675	S 01°11'30" W	42.03'
L1676	S 21°30'23" W	13.95'
L1677	S 00°35'18" E	20.60'
L1678	S 35°44'35" E	14.99'
L1679	S 05°52'39" W	162.20'
L1680	S 11°23'26" W	20.69'
L1681	S 24°20'00" W	28.00'
L1682	S 36°14'43" W	42.58'
L1683	S 51°37'54" W	17.57'
L1684	N 76°29'58" W	24.88'
L1685	S 34°21'33" W	43.05'
L1686	S 79°52'58" W	22.74'
L1687	S 28°17'12" W	25.34'
L1688	S 57°23'19" W	28.91'
L1689	S 48°34'28" E	45.25'
L1690	S 06°08'51" E	26.57'
L1691	S 83°34'22" W	25.66'
L1692	S 44°02'31" W	20.34'
L1693	S 25°53'06" E	67.56'
L1694	S 71°02'37" W	151.73'
L1695	N 70°28'47" W	33.70'
L1697	N 66°43'58" W	88.10'
L1698	N 70°40'51" W	130.44'
L1699	N 63°58'01" W	102.61'
L1700	N 72°03'33" W	116.30'

LINE	BEARING	DISTANCE
L1701	N 65°25'46" W	66.46'
L1702	N 65°57'41" W	50.70'
L1703	N 62°02'31" W	111.34'
L1704	N 65°27'09" W	78.84'
L1705	N 61°59'16" W	89.35'
L1706	N 71°15'26" W	57.34'
L1707	N 69°38'26" W	76.49'
L1708	N 62°43'18" W	71.47'
L1709	N 60°37'34" W	83.47'
L1710	N 47°30'55" W	16.67'
L1711	N 31°07'29" W	30.91'
L1712	S 48°06'50" W	2.19'
L1714	N 03°40'10" W	85.66'
L1715	S 30°19'08" E	61.88'
L1716	S 40°22'03" E	98.07'
L1717	S 47°34'44" E	113.80'
L1718	S 60°44'49" E	77.50'
L1719	S 63°19'52" E	147.01'
L1720	S 77°47'08" E	62.89'
L1721	S 65°51'31" E	120.13'
L1722	S 53°29'46" E	34.41'
L1723	N 39°29'53" E	22.55'
L1724	N 77°28'56" E	9.44'
L1725	S 83°39'56" E	9.28'
L1726	S 45°01'34" E	17.38'
L1727	S 03°10'58" W	18.45'
L1728	S 00°00'00" E	15.35'
L1729	S 64°51'38" E	74.69'
L1730	S 66°46'28" E	164.08'
L1731	S 66°10'27" E	202.71'
L1733	S 60°59'42" E	55.11'
L1734	S 65°05'29" E	80.20'
L1735	S 63°42'29" E	103.98'
L1736	S 68°13'00" E	11.03'
L1737	S 03°34'46" E	16.41'
L1738	S 39°29'53" W	22.55'
L1768	S 01°24'45" E	68.86'
L1769	S 54°25'56" W	84.40'
L1770	S 21°09'53" W	53.38'
L1771	S 28°02'13" W	70.71'
L1772	S 50°00'06" W	54.56'
L1773	S 22°36'29" E	87.87'
L1774	S 14°51'42" W	76.06'
L1775	S 34°52'17" W	67.29'
L1776	S 20°16'58" W	67.26'
L1777	S 08°21'54" W	76.79'
L1778	S 76°36'54" E	53.55'
L1779	S 41°29'36" E	60.69'
L1780	S 10°01'09" E	52.80'
L1781	S 75°37'32" E	43.92'
L1782	S 20°01'29" W	45.67'
L1783	S 13°20'21" W	30.42'
L1784	S 54°35'53" E	33.92'
L1785	S 07°47'34" W	15.85'
L1786	S 24°50'04" E	12.10'
L1787	N 03°40'10" W	0.34'

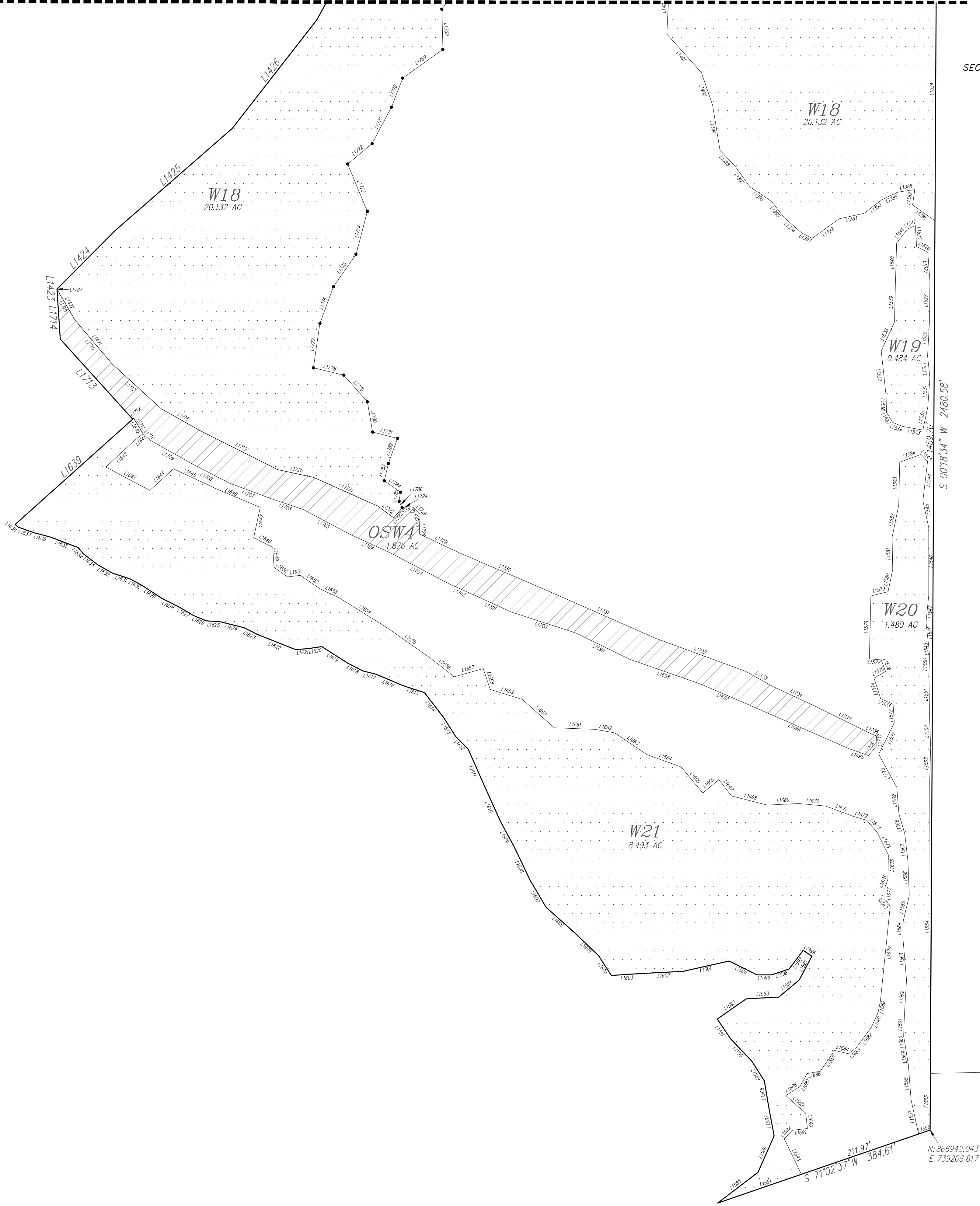


EXHIBIT
OF
A PARCEL OF LAND LYING IN
SECTIONS 18 & 19, TOWNSHIP 43 SOUTH, RANGE 26 EAST,
LEE COUNTY, FLORIDA

LEGEND:

- JURISDICTIONAL WETLANDS
- JURISDICTIONAL SURFACE WATERS
- JURISDICTIONAL OTHER SURFACE WATERS

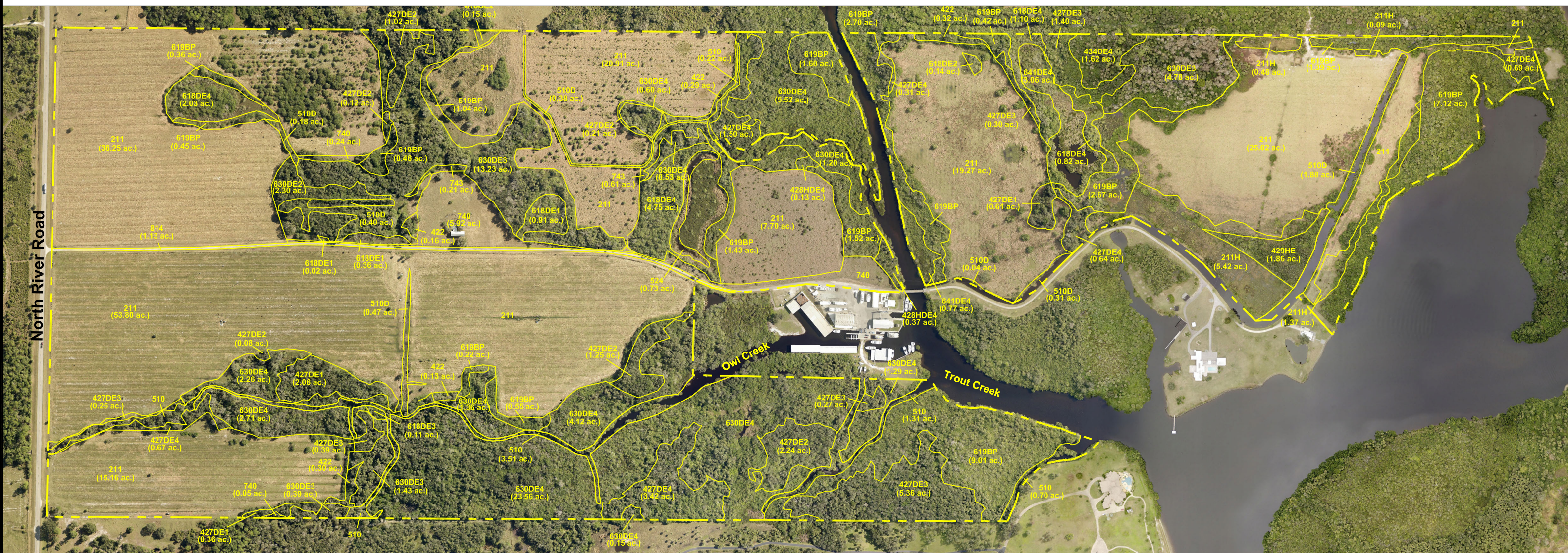
NO.	DATE	REVISION DESCRIPTION	BY
4	01-03-2022	REVISE WY/W18 ACREAGE TOTALS	JHK
3	12-29-2021	ADD SW 4/REVISE ACREAGE TOTALS	JHK
2	10-28-2021	ADDED NEW SHEET 2 LEGAL DESCRIPTION AND AREA ACREAGE TOTALS	CLJ
1	10-19-2021	DELETED WS 11, INCREASED WS 12 AND WS 18	CLJ

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EXHIBIT OWL CREEK PARCEL LEE COUNTY, FLORIDA									
DATE	PROJECT	DRAWING	DRAWN	CHECKED	SCALE	SHEET	OF	FILE NO. (S-T-R)	
05-06-2021	8504	8504-B-SR	CLJ	JDW	1"=100'	7	7	19-43-26 18-43-26	

A horizontal scale bar with a decorative flourish at the left end. Below the bar are markings for 0, 250, and 500. The text "SCALE FEET" is written below the bar, with "SCALE" under the 0-250 segment and "FEET" under the 250-500 segment.



FLUCCS	Description	Acreage	FLUCCS	Description	Acreage
211	Improved Pastures	178.11 ac.	*** 618DE1	Willow, Disturbed, Invaded by Exotics (10-25%)	1.29 ac.
*** 211H	Improved Pastures - hydric	7.36 ac.	*** 618DE2	Willow, Disturbed, Invaded by Exotics (26-50%)	0.29 ac.
422	Brazilian Pepper	1.20 ac.	*** 618DE3	Willow, Disturbed, Invaded by Exotics (51-75%)	0.11 ac.
427DE1	Live Oak, Disturbed, Invaded by Exotics (10-25%)	3.03 ac.	*** 618DE4	Willow, Disturbed, Invaded by Exotics (75-90%)	8.70 ac.
427DE2	Live Oak, Disturbed, Invaded by Exotics (26-50%)	4.92 ac.	*** 619BP	Hydric Brazilian Pepper	30.94 ac.
427DE3	Live Oak, Disturbed, Invaded by Exotics (51-75%)	7.97 ac.	*** 630DE2	Wetland Forested Mixed, Disturbed,	2.30 ac.
427DE4	Live Oak, Disturbed, Invaded by Exotics (76-90%)	7.23 ac.		Invaded by Exotics (26-50%)	
*** 428HDE4	Disturbed Hydric Cabbage Palm Invaded by Exotics (76-90%)	0.50 ac.	*** 630DE3	Wetland Forested Mixed, Disturbed,	19.83 ac.
*** 429HE	Hydric Wax Myrtle Invaded by Exotics (5-9%)	1.86 ac.		Invaded by Exotics (51-75%)	
434DE4	Hardwood- Coniferous Mixed, Disturbed, Invaded by Exotics	1.62 ac.	*** 630DE4	Wetland Forested Mixed, Disturbed,	43.30 ac.
	(76-90%)			Invaded by Exotics (76-90%)	
* 510	Streams and Waterways	5.74 ac.	*** 641DE4	Freshwater Marsh, Disturbed, Invaded by Exotics (76-90%)	3.83 ac.
** 510D	Ditches	3.66 ac.	740	Disturbed Land	6.21 ac.
** 524	Lakes less than 10 acres which are dominant features	0.73 ac.	743	Spoil Area	0.82 ac.
			814	Roads and Highways	1.13 ac.
				Total	342.68 ac.

Notes:

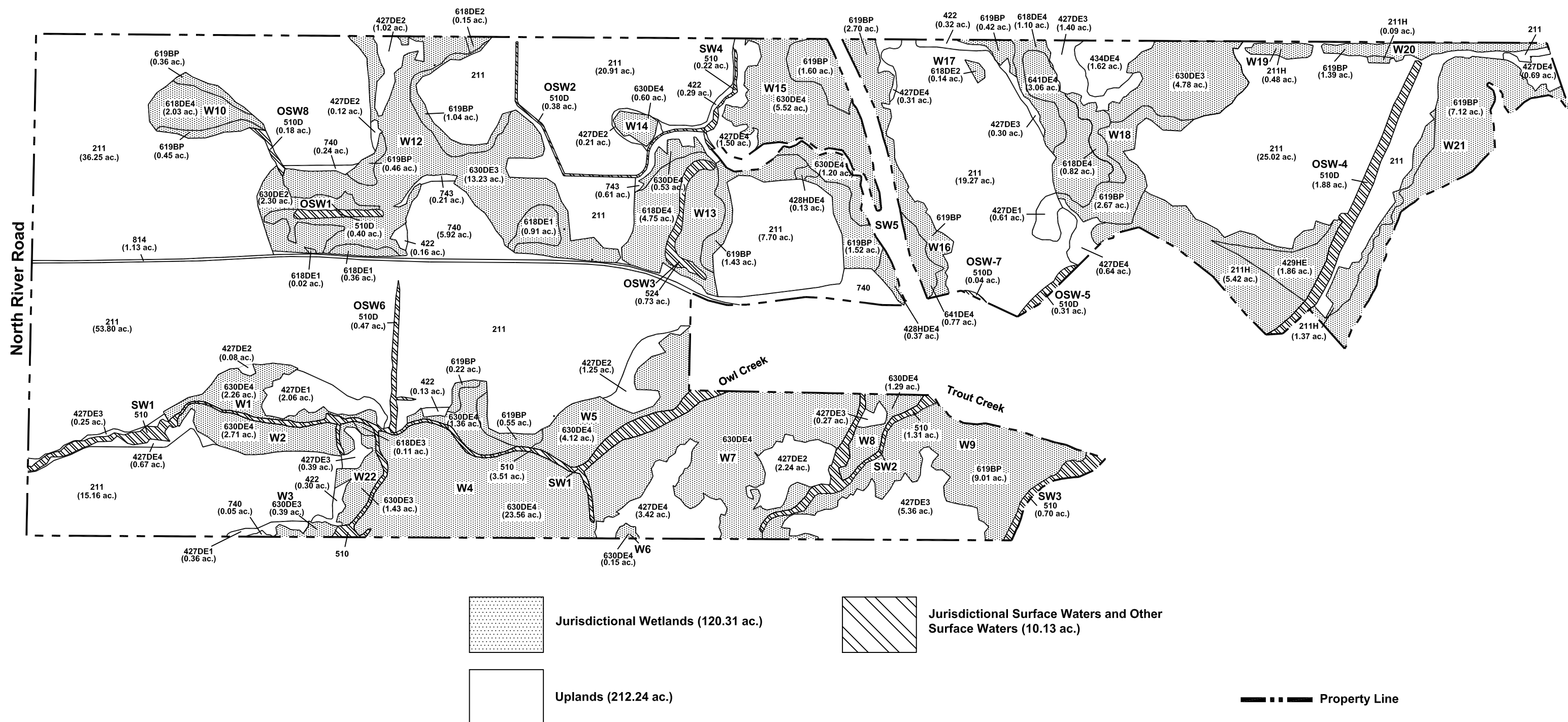
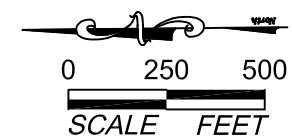
1. Property boundary was obtained from Banks Engineering.
2. Mapping based on photointerpretation of 2019 aerial photography and ground truthing in February 2020. Map includes 2021 aerial photography.
3. Limits of wetlands were approved by SFWMD via a Formal Determination dated November 12, 2021.

February 25, 2022 1:58:11 p.m.
Drawing: DRHOR455PLAN111521.DWG *PERMIT USE ONLY. NOT FOR CONSTRUCTION*

Exhibit C.1.9 - Vegetation Map

Owl Creek Reserve

SECTIONS: 18 & 19
TOWNSHIP: 43 S
RANGE: 26 E



- Notes:
1. Property boundary was obtained from Banks Engineering.
 2. Mapping based on photointerpretation of 2019 aerial photography and ground truthing in February 2020. Map includes 2021 aerial photography.
 3. Limits of wetlands were approved by SFWMD via a Formal Determination dated November 12, 2021.

January 19, 2022 10:28:23 a.m.
Drawing: DRHOR455PLAN111521.DWG

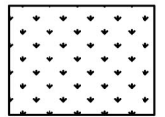
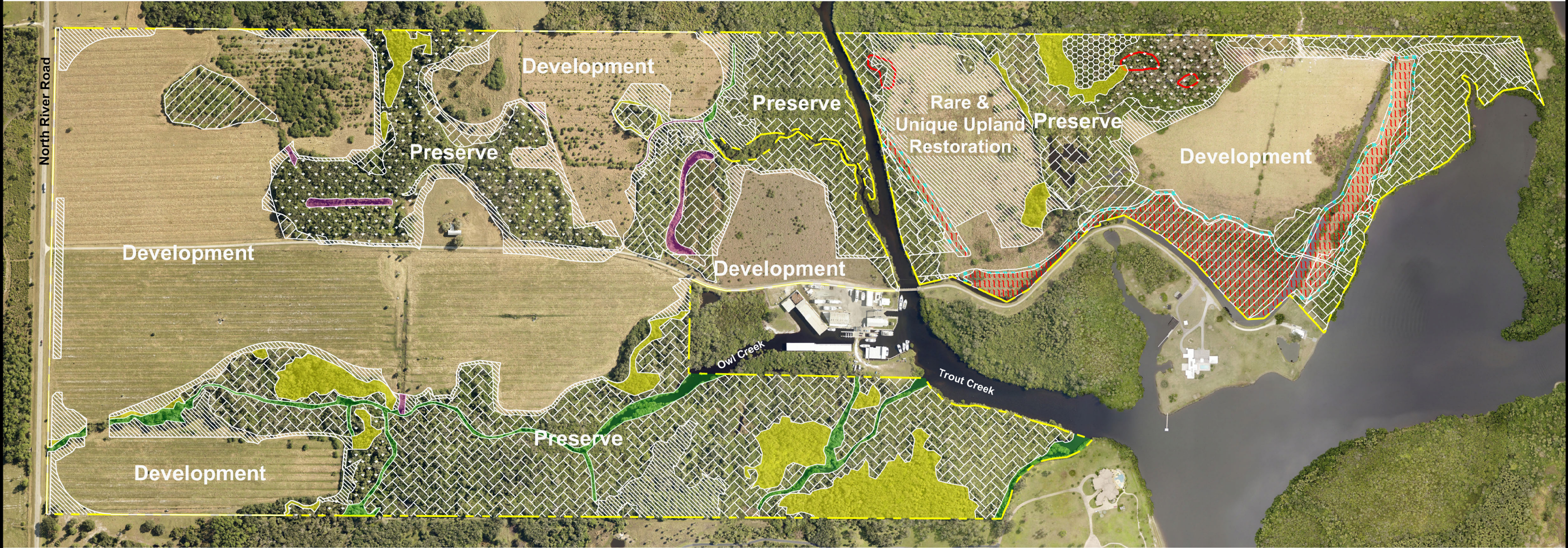
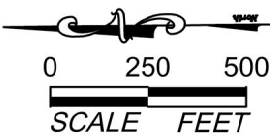
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Exhibit C.1.7 - Wetland, SW, and OSW Map

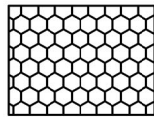
Owl Creek Parcel

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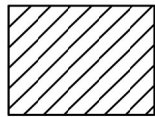
SECTIONS: 18 & 19
TOWNSHIP: 43 S
RANGE: 26 E



Wetland Preservation
(23.56 ac.)



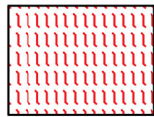
Upland Restoration (1.62 ac.)



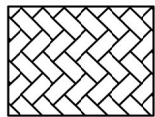
Wetland Impact (13.95 ac.)



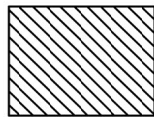
Preserved Other Surface
Water (1.36 ac.)



Flushing Basin (11.83 ac.)*



Wetland Restoration (82.80 ac.)



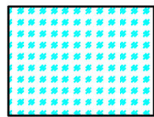
Rare & Unique Upland
Restoration (41.28 ac.)



Rare & Unique Upland
Preservation (15.16 ac.)



Preserved Surface Water
(5.61 ac.)



Littoral Marsh Restoration
(2.88 ac.)*



Archeological Historic
Preservation Areas (0.78 ac.)

* Does not include areas outside of property or conservation easement boundaries. Does not include areas of overlap between flushing basin and littoral marsh.

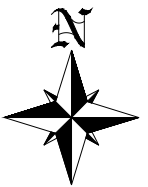
Notes:
1. Property boundary and development footprint obtained from Banks Engineering.
2. Limits of wetlands were approved by SFWMD via a Formal Determination dated November 12, 2021.

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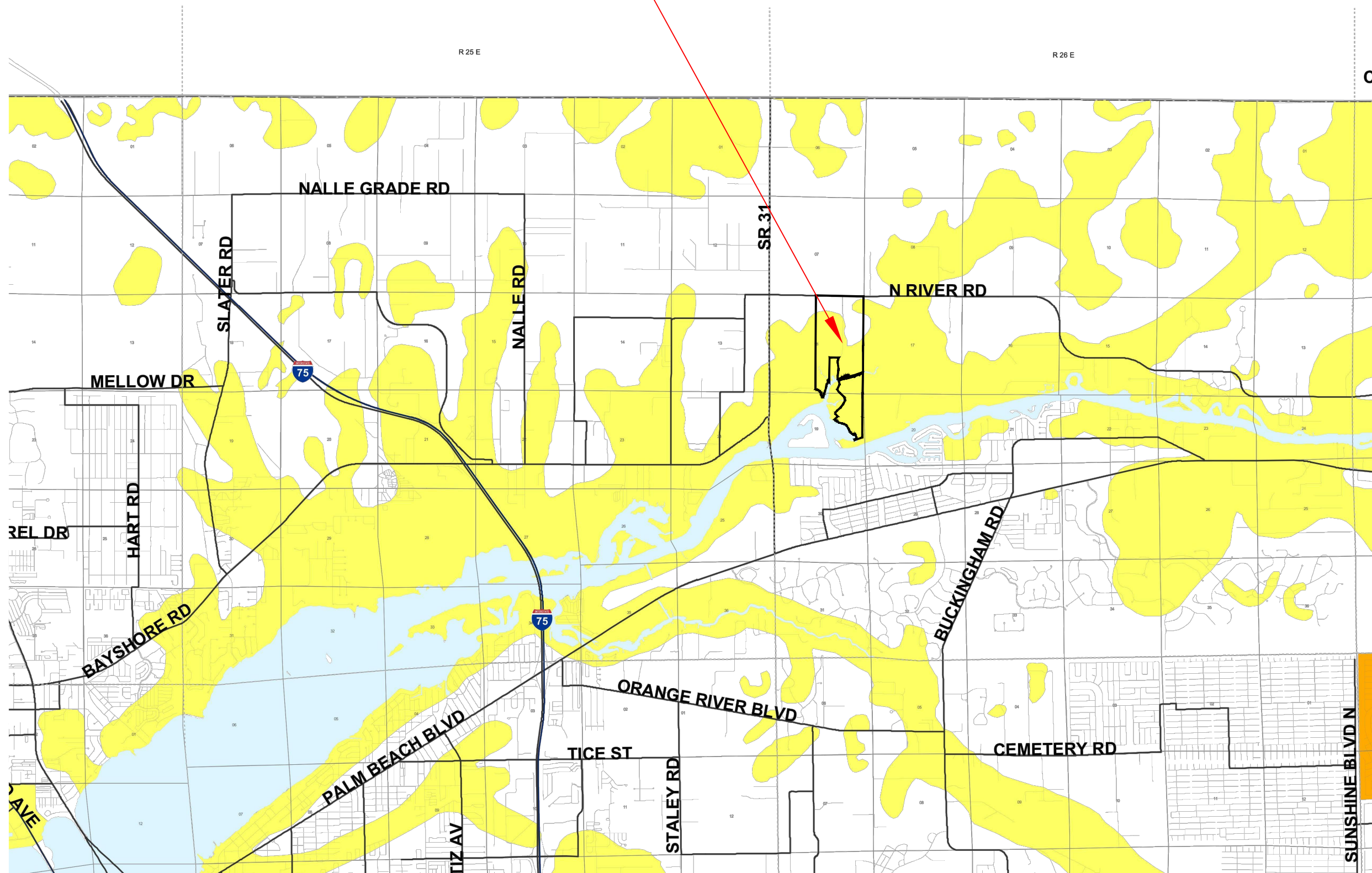
June 14, 2022 2:00:20 p.m.
Drawing: DRHOR455ENH-PRES031122.DWG

Figure 2. Enhancement & Preservation Map

Owl Creek Parcel



SUBJECT PROPERTY



Lee County Archaeological Sensitivity Map

Legend

-  Sensitivity Level 1
-  Sensitivity Level 2
-  Previously Surveyed

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ARCHAEOLOGICAL SENSITIVITY MAP EXHIBIT-M13-2

OWL CREEK
LEE COUNTY, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
08/31/2020	8504	_EXHIBIT	KG	KG	DRU	N.T.S.	01

AN ANALYSIS OF POTENTIAL IMPACTS TO CULTURAL RESOURCES ON THE OWL CREEK PARCEL, LEE COUNTY, FLORIDA

By:

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John Wesley White, B.A.

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For:

BANKS ENGINEERING

AHC PROJECT NO. 2020.94

AHC TECHNICAL REPORT NO. 1294

AUGUST, 2020



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CONSULTANT SUMMARY

In August, 2020, the Archaeological & Historical Conservancy, Inc. (AHC) conducted an analysis of potential impacts to any known or potential cultural resources on the Owl Creek parcel. The 350 acre parcel is located in Sections 18 and 19 in Township 43S, Range 26E immediately south of County Road 78 in north central Lee County (Figure 1).

The Owl Creek parcel is located within what was once called the North River Assemblage Parcel (NRAP). The NRAP was much larger (1300-acres) and was first subject to a phase I cultural resource assessment in 2007 (Carr et al. 2007), resulting in the discovery of three archaeological sites within what is now the Owl Creek parcel boundaries, 8LL2397, 8LL2398, and 8LL2399.

Sites 8LL2397 and 8LL2398 were described as prehistoric midden sites, containing a mixture of prehistoric ceramics, faunal bone, and marine shell. Site 8LL2399 was identified as a constructed mound, 60-70cm above surrounding grade. Some oyster shell was found, but the site was considered a possible burial mound.

All three archaeological sites were considered potentially eligible for listing on the National Register of Historic Places (NRHP) under Criterion D, and were recommended for preservation.

This analysis concludes that all of the previously recorded archaeological sites: 8LL2397, 8LL2398, and 8LL2399 have not changed in their preservation quality nor have been altered by any development activities. The sites remain eligible for listing in the NRHP and should be avoided by future development.

In addition to the review of the previously recorded sites, one newly recorded prehistoric site, 8LL2825 was discovered during the course of this assessment. Site 8LL2825 is located in a plowed agricultural field, and has been intensely disturbed and is not regarded as eligible for listing on the National Register of Historic Places.

The developer proposes to preserve sites 8LL2397, 8LL2398, and 8LL2399. It is recommended that each of the sites be preserved within a minimum 25 foot buffer, and that a temporary silt fence be placed around each site prior to any ground disturbing activities. An archaeological monitor should confirm the location of the buffer/fencing and should confirm that the sites are avoided during construction activities.

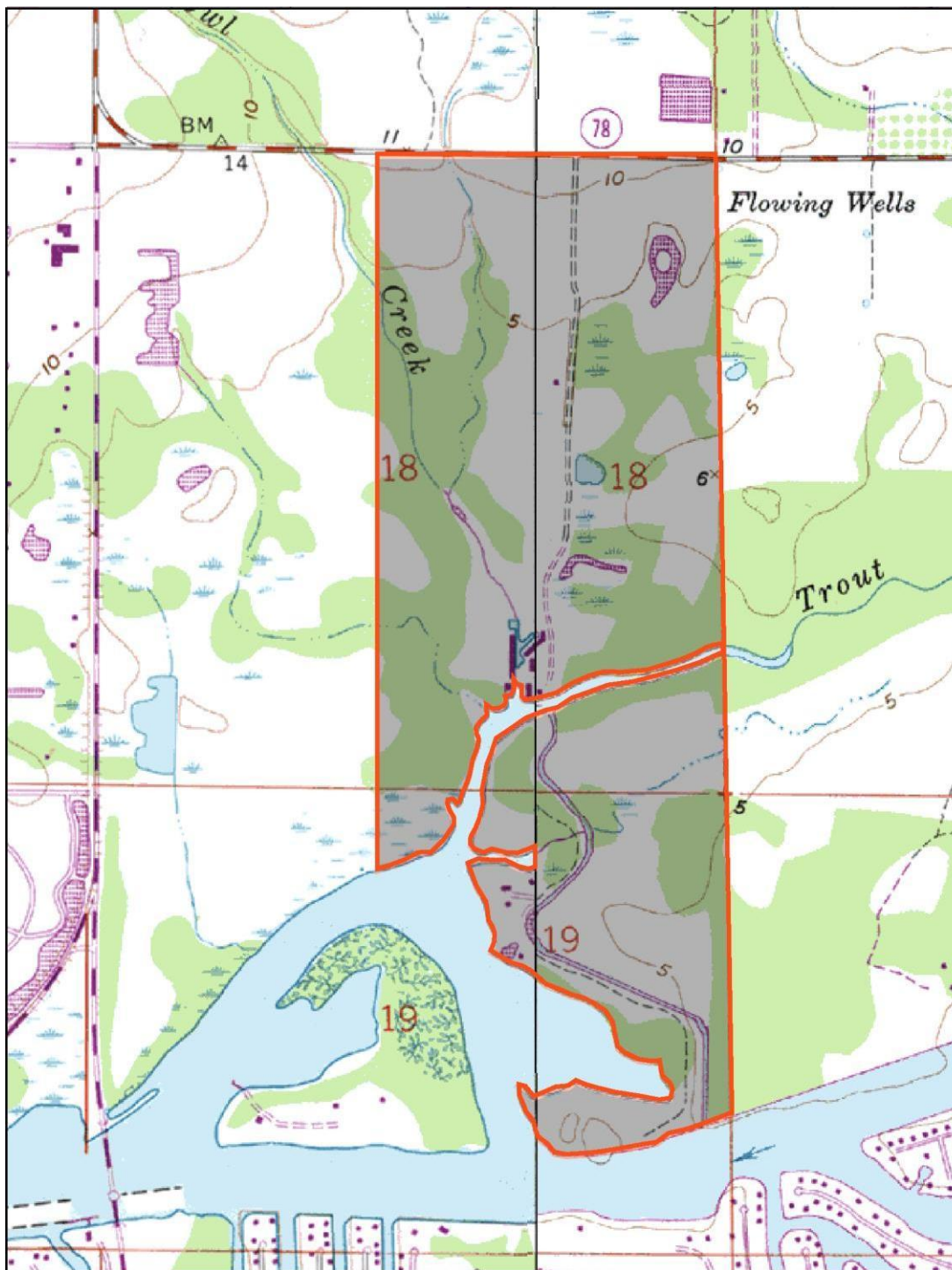


Figure 1. USGS Map of the Owl Creek parcel.



TOWNSHIP 43S, RANGE 26E, SECTION 18, 19

USGS Map: FORT MYERS, REV. 1991



0	750	1500	3000 Feet
0	270	450	900 Meters

PROJECT SETTING

The Owl Creek Parcel is located in parts of Sections 18 and 19 in Township 43S, Range 26E immediately south of County Road 78 in north central Lee County (Figure 1). The ± 141.6 hectare (± 350 acre) project area is bordered by State Road 78 to the north, and on the other sides by cleared fields, undeveloped woodland, the Caloosahatchee River and Trout and Owl Creeks. The relevant USGS maps are Olga and Fort Myers, Fla.

The subject parcel encompasses portions of both the Trout and Owl Creeks. It includes improved areas such as citrus groves and cattle range as well as natural areas of palmetto and slash pine flat woods, oak/cabbage palm hammocks, and several creeks that drain southward into the Caloosahatchee River. Prior land alterations include clearing, grading and ditching. Many portions of the parcel have been previously farmed with winter vegetables and are currently citrus groves.

The project area is low-lying to moderately elevated (5-10 feet, NGVD) vegetated in slash pine/saw palmetto flatwoods with grassy marshes. Slash pine flatwoods communities are usually situated on high ground in much of western Lee County. Historically, floral communities that contain a dense, often head-high understory of saw palmetto, were subject to and maintained by periodic forest fires. Fires either began naturally through lightning strikes or were started by prehistoric Indians or by early settlers to aid hunting or cattle grazing. Among the plants typically found in the slash pine/saw palmetto flatland/prairie environments are: slash pine, saw palmetto, gallberry, shiny lyonia, rusty lyonia, staggerbush, dahoon holly, ground oak, wire grass, broom sedges, shiny blueberry, xyris, and a variety of annual and perennial herbs and wildflowers blooming seasonally.

The geology of the central Lee County area is characterized fine-grained wind and wave born sands overlying shelly marls. Most of the surfacial sands are characterized in the *Lee County Soil Survey* as “hydric, level, poorly drained” and are fine-grained wind and water-born deposits from the late Pleistocene/early Holocene. Among the soils present on the subject parcel are: Myakka fine sand, Pompano Fine Sand, Hallandale Fine Sand, Isles Fine Sand and Immokalee sands. A soil category designed as Peckish Mucky Fine Sand is a mangrove sand/peat formation present in tidally flooded mangrove swamps.

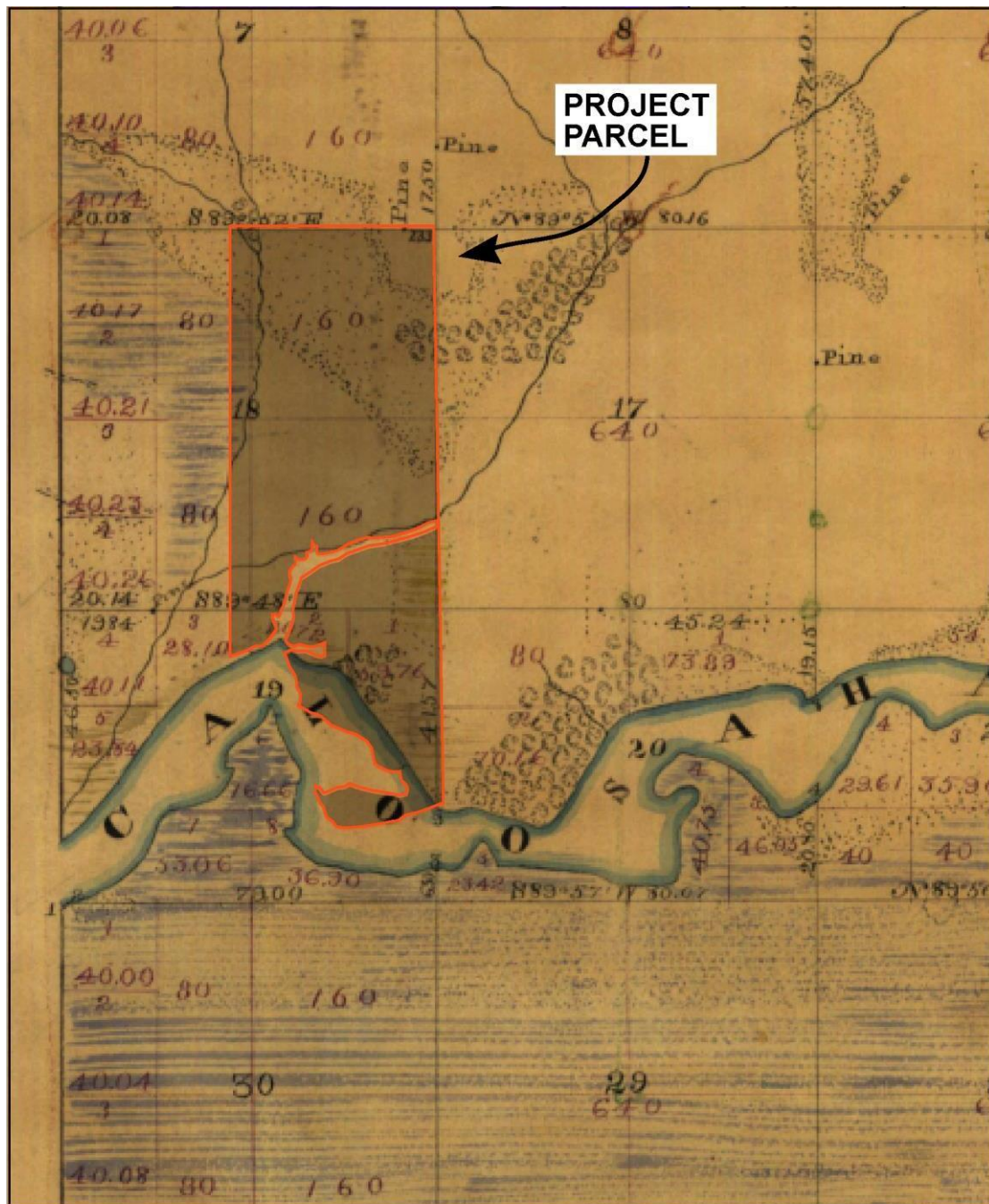


Figure 2. Portion of the 1873 plat map for Township 43S, Range 26E with the project parcel boundaries superimposed.



0 1500 3000 6000 Feet
0 450 900 1800 Meters





Figure 3. 1944 black and white aerial photograph of the project parcel.

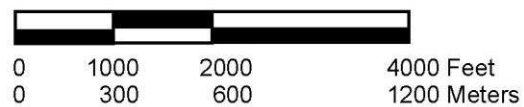




Figure 4. 1953 black and white aerial photograph of the project parcel.

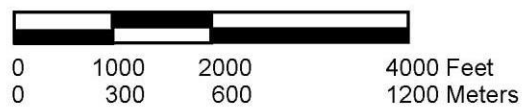
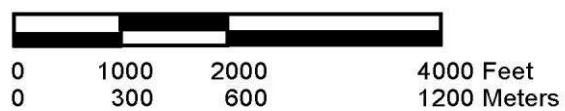




Figure 5. 2019 color aerial orthophotograph of the project parcel.



METHODOLOGY

ARCHIVAL REVIEW

Prior to conducting fieldwork, relevant archives and literature were reviewed. This included, but was not limited to, studying the previous archaeological reports for sites in Lee County, reviewing information from the Master Site File in Tallahassee concerning nearby sites, and examining USGS maps of the project area.

RESEARCH DESIGN

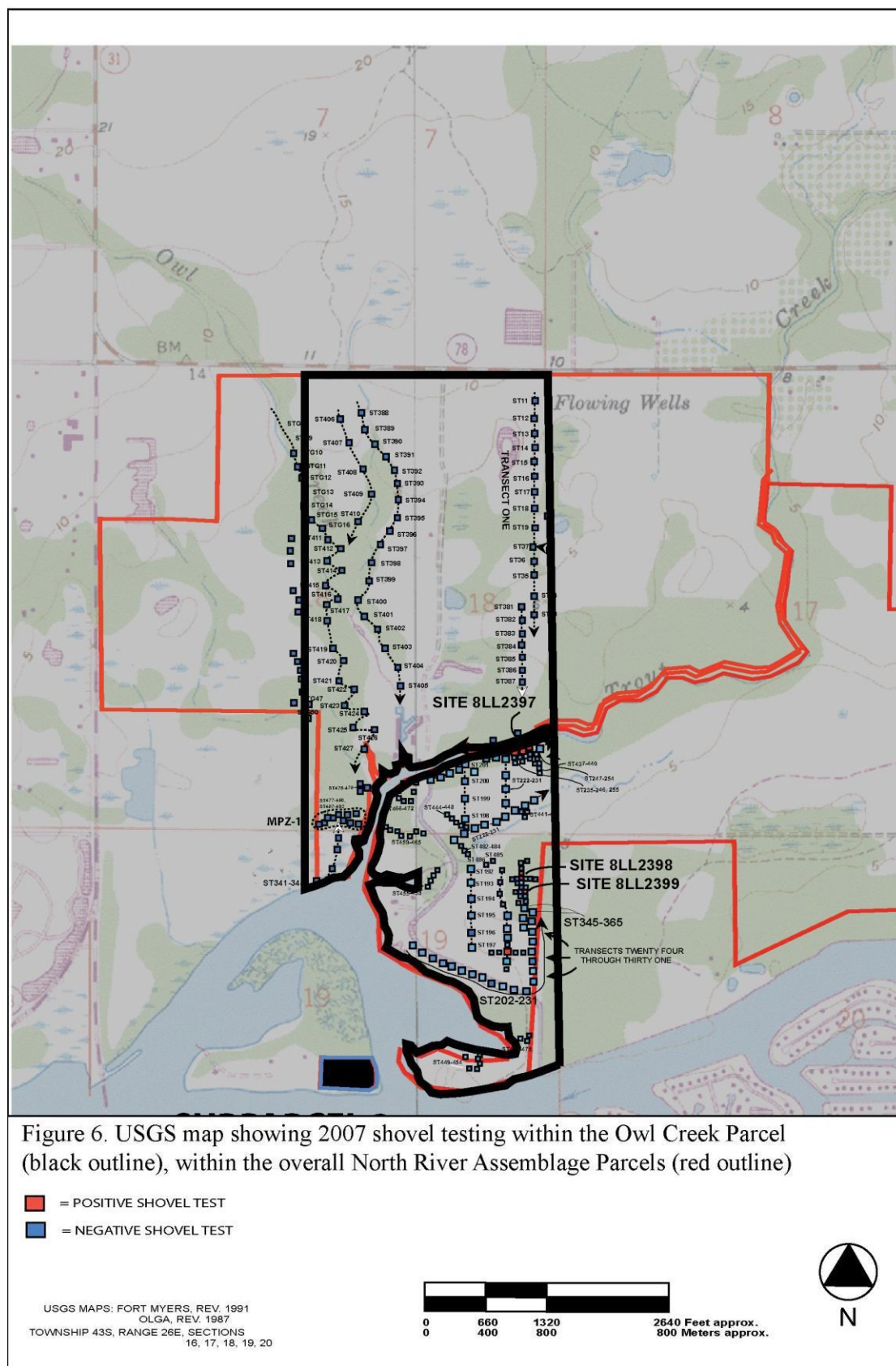
This assessment was conducted primarily to assess the site integrity of three previously recorded NRHP eligible sites on the subject parcel, and to document any changes to the sites since their discovery in 2007. Additionally, the assessment included due diligence testing to determine if any previously unrecorded cultural resources occur within the Owl Creek parcel. This incorporated the use of certain predictive archaeological site models. These models postulate that elevated hammocks adjacent to wetlands (i.e. creeks and rivers) and elevated sand hill features are medium- to high-probability areas for being associated with prehistoric archaeological sites. These features can be identified by examining vintage aerial photographs taken prior to modern development.

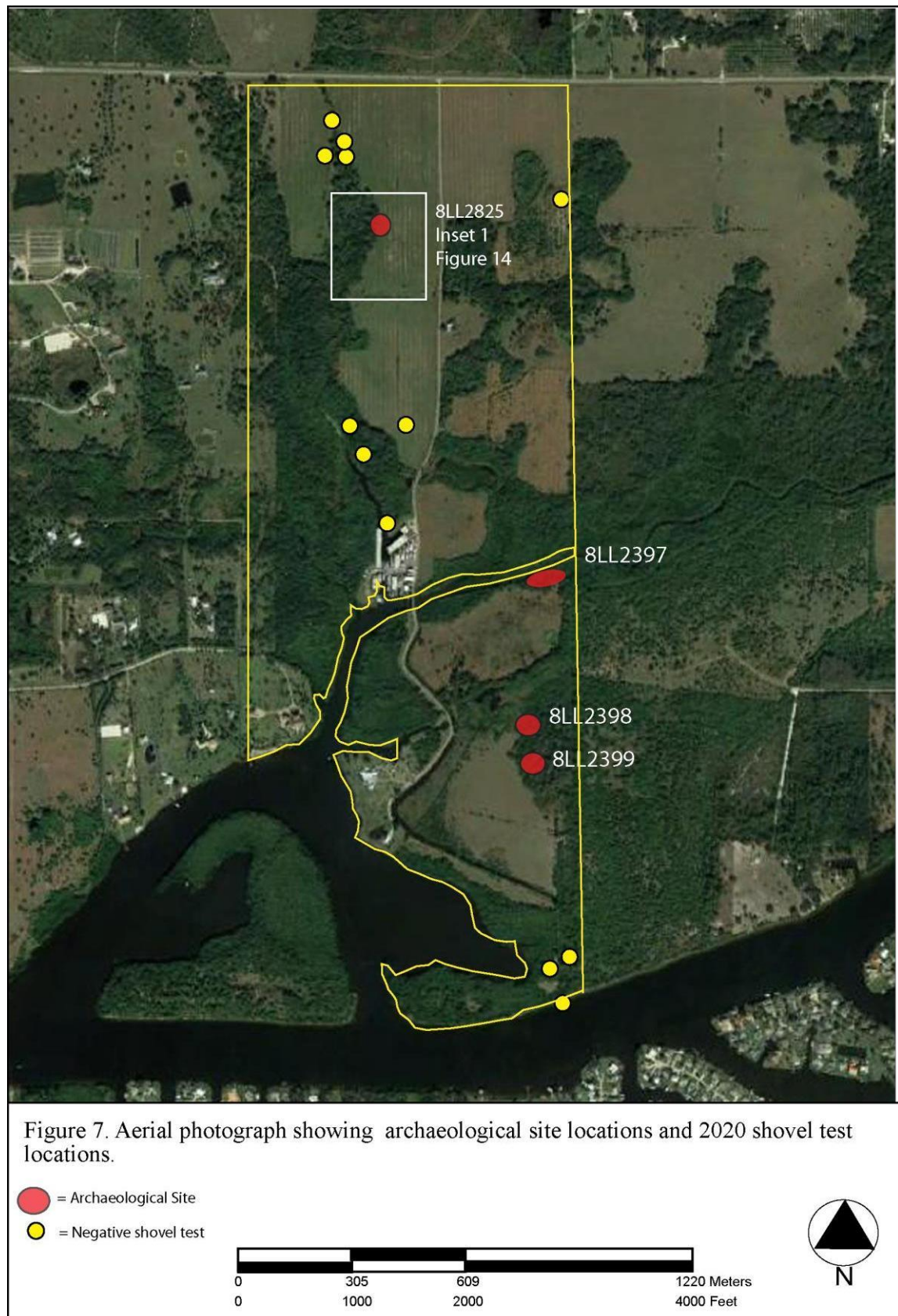
FIELDWORK

The three known archaeological sites were revisited and documented. No additional testing was conducted within the known resources. A pedestrian survey was conducted on the rest of the parcel with judgmental shovel tests dug in any higher probability areas. All test holes were 50cm in diameter and dug to a one meter depth. All sediments were screened through ¼"-mesh hardware cloth and all cultural materials were collected. Shovel test forms were completed and a handheld GPS unit was used to record the location of all test holes and surface finds. A single test was positive for prehistoric material and was delineated in cardinal directions at __m intervals.

COLLECTIONS

Recovered cultural materials were bagged in self-sealing bags. Field notes and maps repose at the AHC offices.





SUMMARY OF SITES

Site Name:	Trout Creek Hunt Camp
Site Number:	8LL2397
Location:	T. 43S., R. 26E., Section 18
Environmental Setting:	Cleared field / live oak grove near lower course of Trout Creek
Site Type:	Midden
Site Function:	Habitation, resource extraction
Description:	This small site occupies a slightly elevated but distinct linear ridge south of and paralleling Trout Creek. The flood plain near the lower course of Trout Creek is an extensive low-lying brackish marsh/swamp, and the site occupies the high ground interface on the south bank of the creek. The site area is located in a live oak grove with open understory. The site is characterized as a 20 to 30 cm thick lens of cultural material beginning at surface. Material recovered includes a sparse amount of ceramics, faunal bone (including deer antler and tooth), lithic debitage and abundant Carolina marsh clams. Site size is estimated at 100 feet on an east-west axis and 50 feet on a north-south axis. The site tends to center on a small elevated ridge.
Chronology:	Prehistoric: Late Archaic Period to Glades I-II
Collections (2007):	Faunal bone, sand tempered plain ceramics, marine shell
Ownership:	Private
Preservation Quality 2007:	Good to excellent. The site is near a cleared field, but there is little disturbance of the site's cultural strata.
Preservation Quality 2020:	Unchanged
Significance:	Based on available data the site appears to meet criteria for listing on the NRHP based on Criterion D.



Figure 8. View of site 8LL2397 (2020).



Figure 9. Interior of site 8LL2397 (2020).

Site Name:	Intrigue
Site Number:	8CH2398
Location:	T. 43S., R. 26E., Section 19
Environmental Setting:	Tropical hardwood hammock within tall cypress head / slough feature
Site Type:	Midden
Site Function:	Habitation, resource extraction
Description:	The site occupies a slightly elevated linear ridge within the western area of a climax cypress head. The site is west of the central depressional pond of the cypress head. The site is characterized by a 30 cm thick deposit of shell refuse largely consisting of oyster that begins at the surface. Material recovered includes oyster shell and a sparse amount of ceramics and faunal bone. Site size is estimated at 18 meters on an east-west axis and 50 meters on a north-south axis. The site tends to center on the small elevated ridge. This is an unusual site both in terms of the marine shell content and its location in a cypress head feature. The site is heavily vegetated in camphorwood with some moderate-sized gumbo-limbos.
Chronology:	Prehistoric: Glades I-II
Collections (2007):	Faunal bone, marine shell
Ownership:	Private
Preservation Quality 2007:	Excellent. The site is undisturbed.
Preservation Quality 2020:	Unchanged
Significance:	Based on available data the site appears to meet criteria for listing on the NRHP based on Criterion D.



Figure 10. View of site 8LL2398 (2020).



Figure 11. Interior of site 8LL2398 (2020).

Site Name:	Majestic Gumbo-Limbo
Site Number:	8LL2399
Location:	T. 43S., R. 26E., Section 19
Environmental Setting:	Tropical hardwood hammock within western area of tall cypress head
Site Type:	Constructed mound, possibly burial mound
Site Function:	Habitation, possible mortuary
Description:	The site is characterized by a moderately elevated knoll or mound well within the western area of a climax cypress head/slough. The site area is located west of the central depressional area of the cypress head and approximately 200 feet south of the Intrigue Site, 8LL2398. Site elevation is approximately 60-70cm above the surrounding low marshy cypress swamp. Site size is estimated at 15 meters (50 feet) on an east-west axis and 25 meters (80 feet) on a north-south axis. The site likely centers on the elevated knoll. It is possible the mound is constructed and may represent a burial area or house mound. One piece of oyster shell was recovered from a shovel test. This is an unusual site both in terms of the configuration and location in a cypress head feature. The site is heavily vegetated in camphorwood with one large gumbo-limbo at the south end of the site.
Chronology:	Prehistoric: unknown
Collections:	Marine shell
Ownership:	Private
Preservation Quality 2007:	Excellent
Preservation Quality 2020:	Unchanged
Significance:	Based on available data the site appears to meet criteria for listing on the NRHP based on Criterion D.



Figure 12. View of site 8LL2399 (2020).



Figure 13. Interior of site 8LL2399 (2020).

Site Name:	Owl Creek 1
Site Number:	8LL2825
Location:	T. 43S., R. 26E., Section 18
Environmental Setting:	Tropical hardwood hammock within western area of tall cypress head
Site Type:	Midden
Site Function:	Habitation, resource extraction
Description:	The site is characterized by a slightly elevated sandy knoll abutting the bend in a small tributary to Owl Creek. The site is small, measuring approximately 25m in diameter, and has been cleared for agriculture. Four shovel tests were positive for sand tempered plain ceramics and one angular chert flake. All cultural material was recovered from 0-50cmbs.
Chronology:	Prehistoric: Period unknown
Collections:	Sand tempered plain ceramics, chert flake
Ownership:	Private
Preservation Quality:	Poor
Significance:	Based on available data the site does not appear to meet eligibility criteria for listing on the NRHP due to disturbances and lack of significant cultural material or context.

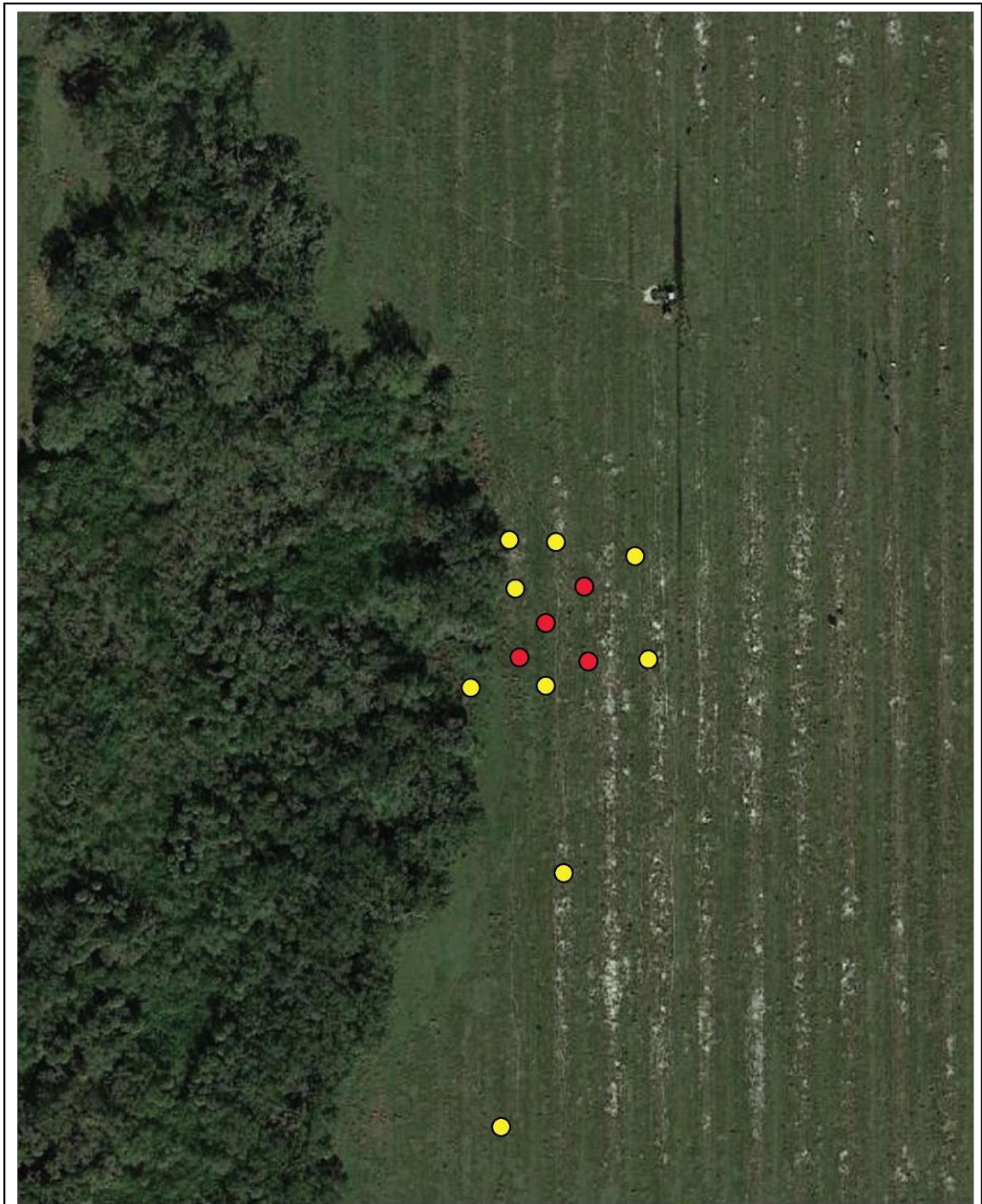


Figure 14. Aerial photograph showing 8LL2825 shovel test locations.

- = Positive shovel test
- = Negative shovel test

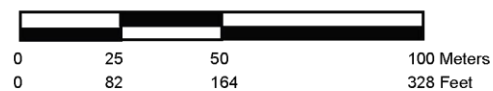




Figure 15. Site 8LL2825, looking north.



Figure 16. Sample of cultural material recovered from 8LL2825. Left - Sand tempered plain ceramic sherds; Right - lithic flake.

RESULTS AND RECOMMENDATIONS

The three previously recorded archaeological sites were successfully relocated and subject to pedestrian survey and assessment of current conditions. It was determined that all of the previously recorded archaeological sites: 8LL2397, 8LL2398, and 8LL2399 have not changed in their preservation quality nor have they been altered by any development activities. The sites retain their integrity in good to excellent condition and remain eligible for listing in the NRHP and should be avoided by future development.

In addition to the review of the previously recorded sites, one newly recorded prehistoric site, 8LL2825 was discovered during the course of this assessment. Site 8LL2825 is located in a plowed agricultural field (figure 15), and has been intensely disturbed. Cultural materials were sparse, and included very small ceramic sherds and a lithic flake (Figure 16). Based on the level of disturbance and lack of significant cultural materials or context, the site is not regarded as eligible for listing on the National Register of Historic Places.

The developer proposes to preserve sites 8LL2397, 8LL2398, and 8LL2399. It is recommended that each of the sites be preserved within a minimum 25 foot buffer, and that a temporary silt fence be placed around each site. An archaeological monitor should confirm the location of the buffer/fencing and confirm that the sites are avoided during construction activities.

REFERENCES CITED

Carr, Robert S., Beriault, John, G., and J. F. Mankowski
2007 A Phase I Cultural Resource Assessment of the North River Assemblage
Parcels, Lee County, Florida. *AHC Technical Report # 814*

Ent D (FMSF only) _____



Survey Log Sheet

Florida Master Site File

Version 4.1 1/07

Survey # (FMSF only) _____

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

Identification and Bibliographic Information

Survey Project (name and project phase) Owl Creek Parcel - Analysis of Potential Impacts 2020.94Report Title (exactly as on title page) An Analysis of Potential Impacts to Cultural Resources on the Owl Creek Parcel, Lee County, FloridaReport Authors (as on title page, last names first) 1. Carr, Robert S. 3. _____
2. White, John wesley 4. _____Publication Date (year) 2020 Total Number of Pages in Report (count text, figures, tables, not site forms) 22Publication Information (Give series, number in series, publisher and city. For article or chapter, cite page numbers. Use the style of *American Antiquity*.)
AHC Technical Report #1294Supervisors of Fieldwork (even if same as author) Names Robert S. CarrAffiliation of Fieldworkers: Organization Archaeological and Historical Conservancy, Inc. City Davie, FloridaKey Words/Phrases (Don't use county name, or common words like *archaeology, structure, survey, architecture, etc.*)1. Owl Creek 3. _____ 5. _____ 7. _____
2. _____ 4. _____ 6. _____ 8. _____

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

Name _____ Organization _____

Address/Phone/E-mail _____

Recorder of Log Sheet Ryan FranklinDate Log Sheet Completed 8-20-2020Is this survey or project a continuation of a previous project? ☒ No ☐ Yes: Previous survey #s (FMSF only) _____

Mapping

Counties (List each one in which field survey was done; attach additional sheet if necessary)

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

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

1. Name FORT MYERS Year 1991 4. Name _____ Year _____
2. Name _____ Year _____ 5. Name _____ Year _____
3. Name _____ Year _____ 6. Name _____ Year _____

Description of Survey Area

Dates for Fieldwork: Start 7-29-2020 End 7-31-2020 Total Area Surveyed (fill in one) _____ hectares 350 acresNumber of Distinct Tracts or Areas Surveyed 1

If Corridor (fill in one for each) Width: _____ meters _____ feet Length: _____ kilometers _____ miles

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Survey Log Sheet

Survey # _____

Research and Field Methods

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

Scope/Intensity/Procedures A total of 25 judgmental shovel tests were dug within higher probability areas and as delineations of a positive test.

Preliminary Methods (check 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
☐ Florida Photo Archives (Gray Building) ☐ library-special collection - *nonlocal* ☐ newspaper files ☒ soils maps or data
☒ 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 (check 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)
☐ surface collection, uncontrolled ☐ water screen ☐ soil resistivity
☒ shovel test-1/4" screen ☐ posthole tests ☐ magnetometer
☐ shovel test-1/8" screen ☐ auger tests ☐ side scan sonar
☐ shovel test 1/16" screen ☐ coring ☐ pedestrian survey
☐ shovel test-unscreened ☐ test excavation (at least 1x2 m) ☐ unknown
☐ other (describe): _____

Historical/Architectural Methods (check 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 ☐ exposed ground inspected ☐ occupant interview ☐ tax records
☐ interior documentation ☐ local property records ☐ occupation permits ☐ unknown
☐ other (describe): _____

Survey Results (cultural resources recorded)

Site Significance Evaluated? ☒ Yes ☐ No

Count of Previously Recorded Sites 3 Count of Newly Recorded Sites 1

Previously Recorded Site #'s with Site File Update Forms (List site #'s without "8". Attach additional pages if necessary.) LL2397, LL2398,

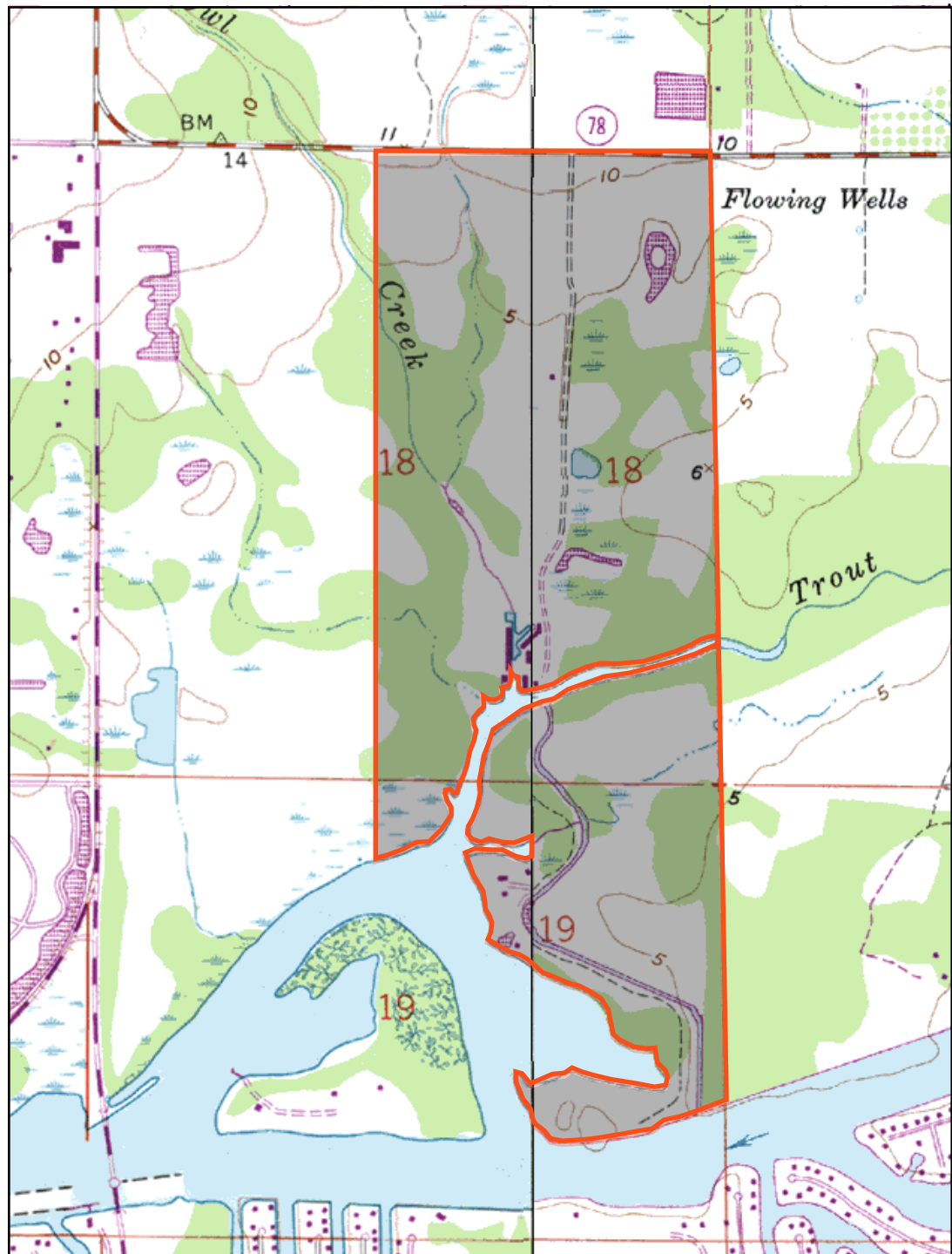
LL2399

Newly Recorded Site #'s (Are all originals and not updates? List site #'s without "8". Attach additional pages if necessary.) LL2825

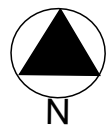
Site Forms Used: ☒ Site File Paper Form ☐ Site File Electronic Recording Form

*****REQUIRED: ATTACH PLOT OF SURVEY AREA ON PHOTOCOPY OF USGS 1:24,000 MAP(S)*****

SHPO USE ONLY	SHPO USE ONLY	SHPO USE ONLY
Origin of Report: ☐ 872 ☐ CARL ☐ 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	
☐ MPS ☐ MRA ☐ TG ☐ Other: _____		
Document Destination: _____	Plotability: _____	



USGS Map of the Owl Creek parcel.



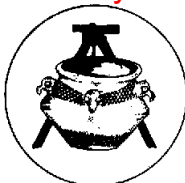
TOWNSHIP 43S, RANGE 26E, SECTION 18. 19

USGS Map: FORT MYERS, REV. 1991



0	750	1500	3000 Feet
0	270	450	900 Meters

Page 1

☒ Original
☐ Update


ARCHAEOLOGICAL SITE FORM

FLORIDA MASTER SITE FILE

Version 5.0 3/19

Consult Guide to Archaeological Site Form for detailed instructions

Site # LL02825
 Field Date 7-29-2020
 Form Date 9-7-2020
 Recorder # _____

Site Name(s) Owl Creek - 1 Multiple Listing (DHR only) _____
 Project Name Owl Creek Analysis of Potential Impacts Survey # (DHR only) _____
 Ownership: ☒ private-profit ☐ private-nonprofit ☐ private-individual ☐ private-nonspecific ☐ city ☐ county ☐ state ☐ federal ☐ Native American ☐ foreign ☐ unknown

LOCATION & MAPPING

USGS 7.5 Map Name FORT MYERS USGS Date 1991 Plat or Other Map _____
 City/Town (within 3 miles) N/A In City Limits? ☐ yes ☐ no ☐ unknown County _____
 Township 43S Range 26E Section 18 ¼ section: ☐ NW ☐ SW ☐ SE ☐ NE Irregular-name: _____
 Township _____ Range _____ Section _____ ¼ section: ☐ NW ☐ SW ☐ SE ☐ NE
 Landgrant _____ Tax Parcel # _____
 UTM Coordinates: Zone ☐ 16 ☐ 17 Easting ☐ ☐ ☐ ☐ ☐ ☐ Northing ☐ ☐ ☐ ☐ ☐ ☐
 Other Coordinates: X: 81°45'1.07" Y: 26°44'12.26" Coordinate System & Datum _____
 Address / Vicinity / Route to: _____

345m south and 145m west on Owl Creek Drive, south of N River Road.

Name of Public Tract (e.g., park) _____

TYPE OF SITE (select all that apply)

SETTING	STRUCTURES OR FEATURES	FUNCTION
☒ Land (terrestrial) ☐ Lake/Pond (lacustrine) ☐ River/Stream/Creek (riverine) ☐ Tidal (estuarine) ☐ Saltwater (marine)	☐ log boat ☐ agric/farm building ☐ burial mound ☐ building remains ☐ cemetery/grave ☐ dump/refuse ☐ earthworks (historic)	☐ road segment ☐ shell midden ☐ shell mound ☐ shipwreck ☐ subsurface features ☐ surface scatter ☐ well
☐ Wetland (palustrine) ☐ usually flooded ☐ usually dry ☐ Cave/Sink (subterranean) ☐ terrestrial ☐ aquatic	☐ fort ☒ midden ☐ mill ☐ mission ☐ mound, nonspecific ☐ plantation ☐ platform mound	☐ campsite ☐ extractive site ☒ habitation (prehistoric) ☐ homestead (historic) ☐ farmstead ☐ village (prehistoric) ☐ town (historic) ☐ quarry (prehistoric)

Other Features or Functions (Choose from the list or type a response.)
 1. _____ 2. _____

CULTURE PERIODS (select all that apply)

ABORIGINAL	NON-ABORIGINAL
☐ Alachua ☐ Archaic (nonspecific) ☐ Archaic, Early ☐ Archaic, Middle ☐ Archaic, Late ☐ Belle Glade ☐ Cades Pond ☐ Caloosahatchee ☐ Deptford	☐ Englewood ☐ Fort Walton ☐ Glades (nonspecific) ☐ Glades I ☐ Glades II ☐ Glades III ☐ Hickory Pond ☐ Leon-Jefferson ☐ Malabar I ☐ Malabar II
☐ Manasota ☐ Mississippian ☐ Mount Taylor ☐ Norwood ☐ Orange ☐ Paleoindian ☐ Pensacola ☐ Perico Island ☐ Safety Harbor ☐ St. Augustine	☐ St. Johns (nonspecific) ☐ St. Johns I ☐ St. Johns II ☐ Santa Rosa ☐ Santa Rosa-Swift Creek ☐ Seminole (nonspecific) ☐ Seminole: Colonization ☐ Seminole: 1st War To 2nd ☐ Seminole: 2nd War To 3rd ☐ Seminole: 3rd War & After
☐ Swift Creek (nonspecific) ☐ Swift Creek, Early ☐ Swift Creek, Late ☐ Transitional ☐ Weeden Island (nonspecific) ☐ Weeden Island I ☐ Weeden Island II ☒ Prehistoric (nonspecific) ☐ Prehistoric non-ceramic ☐ Prehistoric ceramic	☐ First Spanish 1513-99 ☐ First Spanish 1600-99 ☐ First Spanish 1700-1763 ☐ First Spanish (nonspecific) ☐ British 1763-1783 ☐ Second Spanish 1783-1821 ☐ American Territorial 1821-45 ☐ American Civil War 1861-65 ☐ American 19th Century ☐ American 20th Century ☐ American (nonspecific) ☐ African-American

Other Cultures (Choose from the list or type a response. For historic sites, give specific dates.)
 1. _____ 3. _____
 2. _____ 4. _____

OPINION OF RESOURCE SIGNIFICANCE

Potentially eligible individually for National Register of Historic Places? ☐ yes ☒ no ☐ insufficient information
 Potentially eligible as contributor to a National Register district? ☐ yes ☒ no ☐ insufficient information
 Explanation of Evaluation (required if evaluated; use separate sheet if needed)

The site is very disturbed by agriculture and lacks significant cultural materials or context.

Recommendations for Owner or SHPO Action

No additional actions.

DHR USE ONLY

OFFICIAL EVALUATION

DHR USE ONLY

NR List Date _____	SHPO – Appears to meet criteria for NR listing: ☐ yes ☐ no ☐ insufficient info	Date _____	Init. _____
☐ Owner Objection	KEEPER – Determined eligible: ☐ yes ☐ no	Date _____	
	NR Criteria for Evaluation: ☐ a ☐ b ☐ c ☐ d (see <i>National Register Bulletin</i> 15, p. 2)		

ARCHAEOLOGICAL SITE FORM

Site #8 LL02825

FIELD METHODS (select all that apply)

SITE DETECTION

- ☐ no field check ☐ exposed ground ☐ screened shovel
☐ literature search ☐ posthole tests ☒ screened shovel-1/4"
☐ informant report ☐ auger tests ☐ screened shovel-1/8"
☐ remote sensing ☐ unscreened shovel ☐ screened shovel-1/16"

- ☐ bounds unknown ☐ none by recorder
☐ literature search
☐ informant report

SITE BOUNDARY

- ☐ remote sensing ☐ unscreened shovel
☐ exposed ground ☒ screened shovel
☐ posthole tests ☐ block excavations
☐ auger tests ☐ estimate or guess

Other methods; number, size, depth, pattern of units; screen size (attach site plan)

Total of four (4) positive shovel tests.

SITE DESCRIPTION

Extent/Size (m²) 490 Depth/stratigraphy of cultural deposit (describe below)

Average assemblage depth is 0 to ~50cm below surface

Temporal Interpretation - Components (check one): ☐ single component ☐ multiple component ☒ uncertain

Describe each occupation in plan (refer to attached large scale map) and stratigraphically. Discuss temporal and functional interpretations:

Integrity - Overall disturbance: ☐ none seen ☐ minor ☐ substantial ☒ major ☐ redeposited ☐ destroyed-document! ☐ unknown

Disturbances / threats / protective measures

Cleared for agriculture. some site soils are preserved but cultural materials are fragmented and poorly preserved.

Surface collection: area collected _____ m² # collection units _____ Excavation: # noncontiguous blocks _____

ARTIFACTS

Total Artifacts # 7 ☒ count ☐ estimate Surface # _____ Subsurface # _____

COLLECTION SELECTIVITY

- ☐ unknown ☒ unselective (all artifacts)
☐ selective (some artifacts)
☐ mixed selectivity

SPATIAL CONTROL

- ☐ uncollected ☐ general (not by subarea)
☐ unknown ☒ controlled (by subarea)
☐ variable spatial control
☐ other (describe in comments below)

ARTIFACT CATEGORIES and DISPOSITIONS

A - Lithics
A - Aboriginal ceramics

select a disposition from the list below
for each artifact category selected at left

A - category always collected
S - some items in category collected
O - observed first hand, but not collected
R - collected and subsequently left at site
I - informant reported category present
U - unknown

Artifact Comments

artifacts were sparse and highly fragmented and contained small Sant Tempered Plain crumb flakes and a single chert flake.

DIAGNOSTICS (type or mode, and frequency: e.g., Suwanee ppk, heat-treated chert, Deptford Check-stamped, ironstone/whiteware)

1. _____ N= _____ 4. _____ N= _____ 7. _____ N= _____
2. _____ N= _____ 5. _____ N= _____ 8. _____ N= _____
3. _____ N= _____ 6. _____ N= _____ 9. _____ N= _____

ENVIRONMENT

Nearest fresh water: Type Small Stream Name Owl Creek Distance from site (m) 60
Natural community MESIC FLATWOODS Topography Stream shore Elevation: Min _____ m Max 2 m
Local vegetation _____
Present land use Cattle grazing
SCS soil series _____ Soil association _____

DOCUMENTATION

Accessible Documentation Not Filed with the Site File - including field notes, analysis notes, photos, plans and other important documents

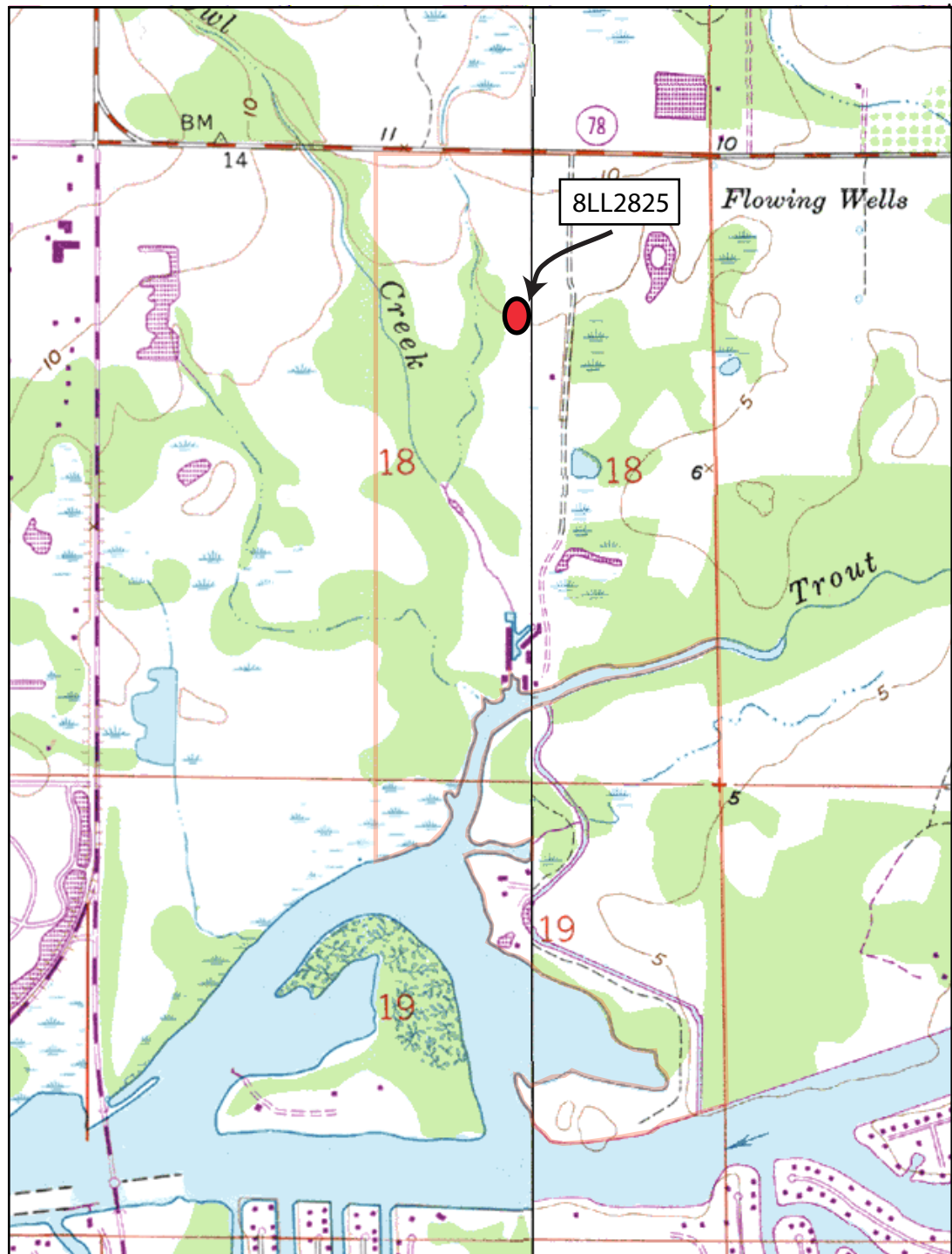
1) Document type _____ Maintaining organization _____
Document description _____ File or accession #'s _____
2) Document type _____ Maintaining organization _____
Document description _____ File or accession #'s _____

RECORDER & INFORMANT INFORMATION

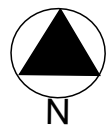
Informant Information: Name _____
Address / Phone / E-mail _____
Recorder Information: Name Alan Noe, Wes White Affiliation Archaeological & Historical Conservancy, Inc.
Address / Phone / E-mail 4800 SW 64th Ave Suite 107, Davie, FL 33314 / (954) 792-9776 / archgcl@bellsouth.net

Required
Attachments

❶ PHOTOCOPY OF 7.5' USGS QUAD MAP WITH SITE BOUNDARIES MARKED and SITE PLAN
Plan at 1:3,600 or larger. Show boundaries, scale, north arrow, test/collection units, landmarks and date.



USGS Map showing the location of 8LL2825.



TOWNSHIP 43S, RANGE 26E, SECTION 18. 19

USGS Map: FORT MYERS, REV. 1991

0

750

1500

3000 Feet

0

270

450

900 Meters

Ashley (Kneram) Palmer

4470 Camino Real Way, Suite 101, Fort Myers, FL 33966 | (239) 237-7608 | akneram@dexbender.com

Education

BACHELOR OF SCIENCE | 2016 | FLORIDA GULF COAST UNIVERSITY

- Major: Marine Science
- Minors: Geology, Biology

Work Experience

Ecologist III, W. DEXTER BENDER & ASSOCIATES (*DEXBENDER*)

JANUARY 2017 -SEPTEMBER 2021, APRIL 2022- PRESENT

- Project management, including communication with clients and various agencies.
- Vegetation monitoring in support of accepted mitigation monitoring plans and satisfaction of permits.
- Wildlife monitoring in support of accepted mitigation monitoring plans and satisfaction of permits.
- Protected species surveys and species-specific surveys in support of permit applications, as well as relocation or protection of species in support of existing permits.
- Vegetation mapping using the Florida Land Use, Cover and Forms Classification System (FLUCFCS) in support of environmental due diligence, as well as permitting. This task includes categorizing different land covers/habitats based on criteria such as canopy, mid-story, and groundcover vegetation assemblages and local hydrology; utilization of online resources for the purpose of identification of different types of soils, references to possible protected species that may occur on the site and inspection of historic imagery/aerial photographs that may hint at prior land use.

Environmental Plan Reviewer, LEE COUNTY BoCC DEVELOPMENT SERVICES

SEPTEMBER 2021-APRIL 2022

- Reviewed issued vegetation removal permits and performed site visits to verify environmental submittals.
- Reviewed environmental portions of development order and limited development order submittals for compliance with local environmental land development codes (LDC) including landscape, buffer, conservation/preservation areas, protected species, and indigenous plant communities).
- On a rotating basis, provided environmental input in weekly informal meetings.

Continuing Education

ENVIRONMENTAL TRAINING

- 31st Annual Environmental Permitting Summer School
 - 20+ hours of relevant classes presented by the Florida Chamber Foundation and Florida Environmental Network, Inc.
 - Fort Lauderdale, FL – July 2017
- Authorized Burrowing Owl Agent Permit
 - Received permit under Florida Fish and Wildlife Conservation Commission



Contact Information

Email: michaelj@wsaconsult.com

Phone: 239.529.4394

Experience

Total: 12 years

Water Science: 6 years

Education

B.S. – Ecology, Evolution, and Animal
Behavior, The University of
Minnesota, 2008

Certifications

NAUI Advanced Scuba Diver, 1998-
Present

Florida Storm Water Control and
Sedimentation Control Inspector,
20010-Present

Mr. Jessich is an environmental scientist with over ten years of experience in hydrogeological investigations and permitting in Florida. Michael leads our water use permitting efforts for the firm having many hundreds of water use permits successfully completed for our clients in public water supply, agricultural and irrigation supply, industrial supply, and mining and construction dewatering. He has served as project manager for major utility installations including the preparation of Master Dewatering permits encompassing over one thousand acres. He has served as project manager for large multi-use developments including permitting for the phased land use transfer of water use allocations from agricultural to landscape irrigation. Michael has significant experience with investigative solutions evaluating water resource issues on behalf of clients' needs under various permitting approaches. His experience includes groundwater modeling, hydrologic investigations and data interpretation, well rehabilitations, water quality assessment and restoration studies, natural resource damage assessments, and sediment sampling surveys. Mr. Jessich is skilled in data management and processing software and in the use of geographic information systems (GIS) for interpretation and presentation of water resource information. He has broad experience with field data and sample collection processes and procedures involving various matrices.

Representative Experience

Project Manager / Staff Scientist – Water Use Permitting – Various Clients, South Florida. Mr. Jessich has prepared or assisted in the preparation of water use permit applications and obtained water use permits for a wide variety of clients and complexity of projects. He has evaluated the potential impacts associated with proposed groundwater and surface water withdrawals with respect to resource availability, existing water users, wetlands, and saline water. Mr. Jessich has an understanding of the permit development process as it pertains to local hydrogeology, water quality requirements, mining and construction practices, and applicable rules and regulations. He performs various environmental monitoring and reporting events to comply with water use permit requirements including the collection of water quality data, water level data, and pumpage data.

Project Manager / Staff Scientist – Entitlement Services – Various Clients, South Florida. Mr. Jessich has worked with multi-discipline Teams in providing water resources and hydrogeologic technical assessments in support of the comprehensive plan amendments and planned land development rezonings. Recent entitlement services projects include WildBlue, CenterPlace, Pepperland, Saphira, 2600 NE Pine Island Road, and the Greenwell SR 31 development of which include project areas over thousands of acres. He has evaluated local and regional hydrogeologic data for the identification water resource concerns that emerge during the planning and design process. These processes necessitated interaction with a wide range of stakeholders, including landowners, other consultants, state agencies, and the general public. He has prepared conceptual designs of water supply and

resource management systems which included analysis of pre and post development water levels, providing analytic groundwater modeling, and regional and site-specific water resource evaluations. Mr. Jessich has an understanding of the project development process as it pertains to local hydrogeology, water quality requirements, and applicable rules and regulations.

Project Manager – Master Dewatering Permit – Naples Park Infrastructure Improvements, Collier County, Florida. Mr. Jessich was the project manager for a master dewatering permit application for the 1,150-acre Naples Park sanitary sewer and stormwater infrastructure improvements project. He prepared a dewatering plan and provided a turbidity and pollution monitoring program for the permit approval of offsite discharge. He conducted review of potential contaminated groundwater data and assessment of drawdown impacts during dewatering activities.

Project Manager – Water Use Permitting – Fiddler’s Creek Development, Collier County, Florida. Mr. Jessich was the project manager for the modifications to the water use permits for irrigation at Fiddlers Creek and Gargiulo Farms. The modifications included the transfer of water use permit allocations between the two permitted facilities and the change land use from agricultural to landscape irrigation. He conducted an analysis of the phased transfer of allocations for the buildout of the Fiddlers Creek development

Project Scientist – Cape Coral Emergency Water Delivery Project, Lee County, Florida. Mr. Jessich assisted with the emergency water supply delivery project to Cape Coral during the drought of April – June 2017 and May 2021. Mr. Jessich was responsible for field sampling of lake water quality, stream flow measurements, and data recovery from water level data loggers in wells, lake monitoring stations, and ditches along U.S. 41. Mr. Jessich processed data from the data loggers, developed stage/discharge relationships for the flow monitoring of the U.S. 41 ditches, prepared graphs illustrating changes in water levels, analyzed results in GIS, and assisted with preparation of project reports.

Project Manager – Hydrogeological Investigation, Fleischmann, Collier County, Florida. Mr. Jessich was the project manager for hydrogeologic investigations of the Isles of Collier Preserve / Fleischmann project area. Mr. Jessich supervised the construction specifications of two saline profile wells and oversaw the management and scheduling of the installation and testing. Mr. Jessich was instrumental in reviewing and interpreting the field data and providing technical expertise in the analysis and development of the chloride profiles and mapping the occurrence of freshwater beneath the site. Data from the saline profile wells and soil borings were processed to develop an appropriate conceptual water supply system for irrigation at the site

Project Manager – Water Use Compliance Monitoring and Reporting – Various Clients, South Florida. Mr. Jessich performs various environmental monitoring and reporting events to comply with water use permit requirements for irrigation and dewatering. He has collected a multitude of data through the participation in numerous projects throughout South Florida. This includes the collection of water quality data, water level data, and pumpage data. Mr. Jessich has a broad understanding of various data analyses and solutions to protect water resources and permitted uses.