9	**AGENDA ITEM** **ST. JOHNS COUNTY BOARD OF COUNTY COMMISSIONERS**
	Deadline for Submission - Wednesday 9 a.m. – Thirteen Days Prior to BCC Meeting

12/1/2026

BCC MEETING DATE

TO: **Joy Andrews, County Administrator** **DATE:** **October 7, 2026**

FROM: **Ryan Kane, Director, Parks** **PHONE:** **904 209-0324**

SUBJECT OR TITLE: **Drainage Connection Permit Maintenance Agreement with the Florida Department of Transportation (FDOT)**

AGENDA TYPE: **Consent Agenda, Contract, Resolution**

BACKGROUND INFORMATION:

The State of Florida Department of Transportation (FDOT) recently constructed Pond Site 13 as part of the FDOT's stormwater drainage system for the First Coast Expressway. This stormwater pond is located on CR16A and is immediately adjacent to the St Johns County Silverleaf Sportsplex. With this agreement, the FDOT is allowing the County to use Pond Site 13 to provide stormwater treatment for the County's new park. By using the FDOT stormwater pond, the County is afforded the opportunity to build park that provides greater recreational opportunities and several acres of park property that would have been required to provide a stormwater pond on the County site. This agreement is in the public and community interest.

1. IS FUNDING REQUIRED? No **2. IF YES, INDICATE IF BUDGETED.** No

IF FUNDING IS REQUIRED, MANDATORY OMB REVIEW IS REQUIRED:

INDICATE FUNDING SOURCE:

SUGGESTED MOTION/RECOMMENDATION/ACTION:

Motion to adopt Resolution 2026-_____, authorizing the County Administrator or their designee, on behalf of the County, to execute and deliver to the State of Florida Department of Transportation (FDOT) a Drainage Connection Permit Maintenance Agreement allowing St Johns County to take advantage of the FDOT's recently constructed stormwater pond and to provide stormwater treatment for the County's Silverleaf Sportsplex.

For Administration Use Only:
Legal: Kealey West 11/2/2026 **OMB: ARM 11/3/2026** **Admin: Brad Bradley 11/10/2026**

RESOLUTION 2026 - ___

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, APPROVING AND AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO EXECUTE AND DELIVER A DRAINAGE CONNECTION PERMIT MAINTENANCE AGREEMENT BY AND BETWEEN ST. JOHNS COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION TO ALLOW USE OF POND SITE 13 FOR THE ST. JOHNS COUNTY SILVERLEAF SPORTPLEX.

RECITALS

WHEREAS, Florida Department of Transportation owns and recently constructed Pond Site 13 as part of the FDOT's stormwater drainage system for the First Coast Expressway; and

WHEREAS, this stormwater pond is located on CR16A and is immediately adjacent to the St. Johns County Silverleaf Sportsplex; and

WHEREAS, the FDOT is allowing the County to use Pond Site 13 to provide stormwater treatment for the County's new park; and

WHEREAS, use of the FDOT stormwater pond affords the County the opportunity to build a park that provides greater recreational opportunities on several acres of park property that would have been required to be used to provide a stormwater pond on the County site; and

WHEREAS, the Board of County Commissioners has reviewed the agreement and determined executing the agreement will serve the best interest of St. Johns County.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of St. Johns County, Florida, as follows:

Section 1. The above Recitals are hereby incorporated into the body of this Resolution, and are adopted as findings of fact.

Section 2. The Board of County Commissioners hereby approves and authorizes the County Administrator, or designee, to execute and deliver a Drainage Connection Permit Maintenance Agreement between St. Johns County and Florida Department of Transportation, in substantially the same form as attached hereto.

Section 3. To the extent that there are typographical, administrative, or scrivener's errors

that do not change the tone, tenor, or context of this Resolution, then this Resolution may be revised without further action by the Board of County Commissioners.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, State of Florida, this ___ day of November 2026.

BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA

By: _____
Ann Taylor, Chair

ATTEST: Brandon J. Patty,
Clerk of the Circuit Court and Comptroller

By: _____
DeputyClerk

DRAINAGE CONNECTION PERMIT MAINTENANCE AGREEMENT

THIS DRAINAGE CONNECTION PERMIT MAINTENANCE AGREEMENT ("Agreement") is made and entered into by and between the State of Florida Department of Transportation ("Department") and St. Johns County, Florida ("Agency"), collectively referred to as "Parties".

-RECITALS-

1. The Department owns certain real property in the vicinity of County Road 16A ("CR 16A") and Timberwolf Trail, in St. Johns, County, Florida, that is adjacent to State Road ("SR 23"), and more particularly known as Pond Site 13, part of the Department's Stormwater Drainage System, collectively referred to as "Property", and identified in attached **Composite Exhibit "A"**; and

2. The Agency is constructing the St. Johns County Silverleaf Sportsplex and Shearwater Community Park ("SJC Sportsplex"), adjacent to the Property and within the watershed of Pond Site 13, as shown in attached **Exhibit "B"**; and

3. In order for complete and efficient use of the SJC Sportsplex site, the Agency would like to drain stormwater into Pond Site 13 via Department Drainage Connection Permit 2024-D-297-00042, issued on October 30, 2024 ("Permit"), attached hereto as **Exhibit "C"**; and

4. Pursuant to the Permit, the Agency agrees to maintain the Property and any appurtenances thereto, including but not limited to drainage structures, pipes, outfalls, fencing, and gates, as well as in accordance with Saint Johns River Water Management Department ("SJRWMD") Permit 113964-30 Pond 13, attached hereto as **Exhibit "D",** collectively referred to as "Improvements"; and

5. The Department is amenable to the Agency's request based upon the terms and conditions and consideration set forth in this Agreement; and

6. For purposes of this Agreement the terms "stormwater" and "watershed" shall have the meaning set forth in Florida Administrative Code Sections 14-86-002(18) & (21); and

7. By Resolution _____ dated _____, the Agency authorized its representative to execute and enter this Agreement on behalf of the Agency, see **Exhibit "E"**.

NOW THEREFORE, with full knowledge and understanding of the laws governing the subject matter of this Agreement, and in consideration of the above recitals and the mutual covenants and conditions contained in this Agreement, the parties, intending to be legally bound, acknowledge and agree as follows:

1. RECITALS AND EXHIBITS

The above recitals and attached exhibits are specifically incorporated by reference and made part of this Agreement.

2. EFFECTIVE DATE

The "Effective Date" of this Agreement shall be the date the last of the parties to be charged executes the Agreement.

3. E-VERIFY

The Agency (A) shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Agency during the term of the contract; and (B) shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

4. TERM

The initial term of this Agreement shall be for a period of one (1) year, commencing on the Effective Date. Thereafter, this Agreement shall automatically renew for successive and continuing like one (1) year terms unless terminated by the Department.

5. COMPLIANCE

administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards, specifications and permits, as the same may be constituted and amended from time to time, including, without limitation, those of the Department, Water Management District with requisite jurisdiction, Florida Department of Environmental Protection, Environmental Protection Agency, Army Corps of Engineers, United States Coast Guard and local governmental entities ("Governmental Law").

6. PERMITS

In the performance of the Agreement the Agency may be required to obtain one or more Department permits which may include copies of the Agreement as an exhibit. Notwithstanding the inclusion or incorporation of the Agreement as part of any such Department permits, the Agreement shall remain separate and apart from such permits and shall not be merged into the same absent the prior written express consent of the Department. Should any term or provision of the Agreement conflict with any term, provision or requirement of any Department permit, the terms and provisions of the Agreement shall control unless specifically noted otherwise in any such Department permit. For purposes of this Agreement, the term "permit" shall also include the Department's Construction Agreement which may be required for permanent improvements installed within the Department's right-of-way.

7. STORMWATER DRAINAGE

Drainage of the stormwater shall be in accordance with the Department Drainage Permit 2024-D-297-00042, issued on October 30, 2024.

8. MAINTENANCE & REPAIR

A. The Agency shall operate, maintain and repair the Improvements at its sole cost and expense, in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement.

B. If the Department determines that the Agency is not maintaining and repairing the Improvements in accordance with the terms and provisions of this Agreement, the Department shall deliver written notification of such to the Agency. The Agency shall have thirty (30) days from the date of the Department's written notice, or such other time as the Department and the Agency mutually agree in writing, to correct the deficiency and provide the Department with written notice of the same.

C. If the deficiency is not corrected timely, or if the Department determines that the deficiency remains after receipt of the Agency's written notice indicating that the deficiency has been corrected, the Department, within its discretion, may: (1) provide the Agency with written authorization granting such additional time as the Department deems appropriate to complete correction of the deficiency; (2) revoke the Permit; or (3) correct the deficiency at the Agency's sole cost and expense. Should the Department elect to correct the deficiency, the Department shall provide the Agency with an invoice for the costs incurred by the Department to correct the deficiency and the Agency shall pay the invoice in accordance with the "Payment" section of this Agreement.

D. If at any time in the sole determination of the Department, the integrity or safety of the Property or Improvements requires immediate maintenance or repair for the benefit of public health, safety or welfare, the Department may perform such maintenance and repairs it deems appropriate under the circumstances. The Department shall provide the Agency with written notice of the emergency maintenance and repairs performed by the Department and an invoice for the same. The Agency shall pay the invoice in accordance with the "Payment" section of this Agreement.

9. IMPROVEMENTS & MODIFICATIONS

A. The Department may require the Agency to improve or modify the Improvements if the Department determines: (1) improvements or modifications are required by applicable Governmental Law; or (2) improvements or modifications are reasonably necessary as a result of the Agency's drainage connection or discharge into Pond Site 13 to maintain the functionality, integrity, or safety of the Improvements, or to maintain compliance with the Permit or applicable Governmental Law.

B. Required improvements and modifications shall be subject to the terms and provisions of this Agreement, specifically including, without limitation, the "Maintenance & Repair" section hereof. The Agency shall not be responsible for improvements or modifications necessitated solely by the Department's use, expansion, alteration, or modification of the Property or Improvements and unrelated to the Agency's drainage connection or discharge into Pond Site 13.

C. Improvements and modifications required pursuant to this Section shall be constructed and completed by the Agency within sixty (60) days of the date of the Department's written notice requiring improvements or modifications – commenced by the Agency within sixty (60) days after receipt of the Department's written notice and thereafter diligently pursued to completion within a reasonable time. The Department and Agency may mutually agree in writing to an alternative schedule based upon the nature and scope of the required improvements or modifications, including any applicable design, permitting, procurement, or construction requirements.

10. UTILITIES

The Agency shall be responsible for locating, removing and relocating utilities, both aerial and underground, if required for the Agency to perform the operation and maintenance portions of this Agreement. The Agency shall ensure all utility locations are accurately documented on the construction Plans and Specifications, including the final as-built plans. All utility conflicts shall be resolved by the Agency directly with the applicable utility.

11. MAINTENANCE OF TRAFFIC

A. The Agency shall be responsible for the maintenance of traffic ("MOT") at all times during its performance of this Agreement. MOT shall be performed in accordance with applicable Governmental Law and the most current edition of each of the following, as the same may be constituted and amended from time to time, all of which are incorporated herein and made part of the Agreement by reference: (1) Section 102 of the Department's Standard Specifications for Road and Bridge Construction; (2) the Manual on Uniform Traffic Control Devices; and (3) the Department's Roadway Design Standards Index 600 Series.

B. If the Agency fails to perform MOT as required herein, the Department, within its discretion, may elect to perform MOT at the Agency's sole cost and expense. Should the Department perform MOT, the Department shall provide the Agency with an invoice for the costs incurred by the Department and the Agency shall pay the invoice in accordance with the "Payment" section of this Agreement.

12. STORMWATER AND TOTAL MAXIMUM DAILY LOAD

A. The Agency shall comply with any and all Total Maximum Daily Load (TMDL), Basin Management Action Plan (BMAP), and Municipal Separate Storm Sewer System (MS4) permit load or non-MS4 load requirements whether such requirements are enacted before, on or after the Effective Date of this Agreement. The Agency shall assume and be solely responsible for all stormwater and paying all state, regional, and local government assessments, taxes, fees, and TMDL or BMAP reduction requirements related in any way to the nature, volume, or quality of stormwater discharging from or to the Stormwater System. If at any time it is determined that the Stormwater System generates TMDL or BMAP credits then such credits shall be owned by the Department.

B. The Agency shall assume and be solely responsible for paying all state, regional, and local government assessments, taxes, and fees related in any way to the nature, volume, or quality of stormwater discharging from the SJC Sportsplex into the Department's Drainage System, if applicable. Taxes, fees, and assessments shall include all total maximum daily load allocations for any land draining into the Department's Drainage System.

13. PERMISSIVE USE

The Agency shall not acquire any right, title, interest or estate in the Department Property by virtue of the execution, operation, effect or performance of this Agreement.

14. EMINENT DOMAIN AND DAMAGES

Under no circumstances shall the Department's exercise of any right provided in this Agreement create any right, title, interest or estate entitling the Agency to full and just compensation from the Department either through inverse condemnation or eminent domain laws or any similar laws regarding the taking of property for public purposes. The Agency forever waives and relinquishes all legal rights and monetary claims which it has, or which may arise in the future, for compensation or damages, including, without limitation, special damages, severance damages, removal costs, and loss of business profits resulting in any manner from the Department's exercise of any right provided in this Agreement. This waiver and relinquishment specifically includes all damages flowing from adjacent properties owned, leased or otherwise controlled by the Agency, as a result of the Department's exercise of any right provided in this Agreement.

15. DUE DILIGENCE & WARRANTIES

A. All due diligence requirements related to the Agency's negotiation, execution and performance of this Agreement are the sole responsibility of the Agency.

B. The Department makes no representations or warranties of any kind, express or implied, concerning the Department Property, including, without limitation, representations and warranties concerning: (1) the physical condition of the Department Property; and (2) merchantability or fitness for a particular purpose.

16. PAYMENT

All Department invoices submitted to the Agency for payment pursuant to the terms and provisions of this Agreement are due and payable within thirty (30) days of the date of the invoice ("Due Date"). Any portion of an invoice not received by the Department by the Due Date shall immediately thereafter begin accruing interest at a rate of interest established pursuant to §55.03, Florida Statutes, until paid in full.

17. INDEMNIFICATION

A. To the extent required by applicable by law, the Agency shall promptly defend, indemnify, hold the Department harmless from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, costs, losses, penalties, construction delay costs / penalties, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, arising out of or related to the Agency's performance, or breach, of this Agreement ("Liabilities"). The term "Liabilities" shall also specifically include all civil and criminal environmental liability arising, directly or indirectly under any Governmental Law, including, without limitation, liability under the Resource Conservation and Recovery Act ("RCRA"), the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), the Clean Air Act ("CAA") and the Clean Water Act ("CWA"). The Agency's duty to defend, indemnify and hold the Department harmless specifically does not encompass indemnifying the Department for its negligence, intentional or wrongful acts, omissions or breach of contract.

B. The Agency shall notify the Department in writing immediately upon becoming aware of any Liabilities. The Agency's obligation to defend, indemnify and hold the Department harmless from any Liabilities, or at the Department's option to participate and associate with the Department in the defense and trial of any Liabilities, including any related settlement negotiations, shall be triggered by the Department's written notice of claim for indemnification to the Agency. The Agency's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph.

18. SOVEREIGN IMMUNITY & LIMITATION OF LIABILITY

Nothing in this Agreement shall be deemed or otherwise interpreted as waiving either party's sovereign immunity protections, or as increasing the limits of liability set forth in §768.28, Florida Statutes, as the same may be amended from time to time. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the Department's limits of liability set forth in sections 376.305 and 337.27(4), Florida Statutes, as the same may be amended from time to time.

19. NOTICE

All notices, communications and determinations between the parties hereto and those required to be given under this Agreement, including, without limitation, any change to the notification address set forth below, shall be in writing and shall be sufficient if mailed by registered or certified mail to the parties at the following addresses:

Department: Florida Department of Transportation
Attention: St. Augustine Maintenance Engineer
3600 DOT Road
St. Augustine, Florida 32084

Agency: St. Johns County
Attention: St. Johns County Engineer
2750 Industry Center Road
St. Augustine, Florida 32084

Agency agrees that if it fails to notify Department by certified mail of any changes to its notification address, Agency shall have waived any defense based on Department's failure to notify Agency.

20. GOVERNING LAW

This Agreement shall be governed in all respect by the laws of the State of Florida.

21. INITIAL DETERMINATION OF DISPUTES

The Department's District Two Secretary ("District Secretary") shall act as the initial arbiter of all questions, difficulties, and disputes concerning the interpretation, validity, performance or breach of the Agreement.

22. VENUE AND JURISDICTION

A. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of the Agreement that are not resolved to the mutual satisfaction of the parties by the Department's District Secretary shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.

B. The Agency and all persons and entities accepting an assignment of this Agreement, in whole or in part, shall be deemed as having consented to personal jurisdiction in the State of Florida and as having forever waived and relinquished all personal jurisdiction defenses with respect to any proceeding related to the interpretation, validity, performance or breach of this Agreement.

23. JURY TRIAL

The parties hereby waive the right to trial by jury of any dispute concerning the interpretation, validity, performance or breach of the Agreement, including, without limitation, damages allegedly flowing therefrom.

24. ASSIGNMENT

The Agency shall not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the Department's District Secretary or his/her designee. The Department has the sole discretion and authority to grant or deny proposed assignments of this Agreement, with or without cause. Nothing herein shall prevent the Agency from delegating its duties hereunder, but such delegation shall not release the Agency from its obligation to perform the Agreement.

25. THIRD PARTY BENEFICIARIES

This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.

26. VOLUNTARY EXECUTION OF AGREEMENT

Each party warrants and represents to the other: (i) that it understands all of the rights and obligations set forth in the Agreement and the Agreement accurately reflects the desires of said party; (ii) each provision of the Agreement has been negotiated fairly at arm's length; (iii) it fully understands the advantages and disadvantages of the Agreement and executes the Agreement freely and voluntarily of its own accord and not as a result of any duress, coercion, or undue influence; and (iv) it had the opportunity to have independent legal advice by counsel of its own choosing in the negotiation and execution of the Agreement.

27. ENTIRE AGREEMENT

This Agreement, together with any exhibits and documents made part hereof by reference, contains the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in the Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of the Agreement, and any part hereof, are waived, merged herein and superseded hereby.

28. EXECUTION OF DOCUMENTS

The parties agree that they shall promptly execute and deliver to the other all documents necessary to accomplish the intent and purpose of the Agreement and shall do all other acts to effectuate the Agreement.

29. SUFFICIENCY OF CONSIDERATION

By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in the Agreement and forever waive the right to object to or otherwise challenge the same.

30. WAIVER

The failure of either party to insist on the strict performance or compliance with any term or provision of the Agreement on one or more occasions shall not constitute a waiver or relinquishment thereof and all such terms and provisions shall remain in full force and effect unless waived or relinquished in writing.

31. INTERPRETATION

No term or provision of the Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

32. CAPTIONS
Paragraph title or captions contained herein are inserted as a matter of convenience and reference and in no way define, limit, extend or describe the scope of the Agreement, or any provision hereof.

33. SEVERANCE
If any section, paragraph, clause or provision of the Agreement is adjudged by a court, Agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of the Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of the Agreement remain enforceable.

34. COMPUTATION OF TIME
In computing any period of time prescribed in the Agreement, the day of the act, event or default from which the designated period of time begins to run, shall not be included. The last day of the period shall be included unless it is a Saturday, Sunday or legal holiday, in which event the period shall run until the end of the next day which is not a Saturday, Sunday or legal holiday.

35. MODIFICATION OF AGREEMENT
A modification or waiver of any of the provisions of the Agreement shall be effective only if made in writing and executed with the same formality as the Agreement.

36. PUBLIC RECORDS
Agency shall comply with Chapter 119, Florida Statutes. Specifically, the Agency shall:

A. Keep and maintain public records that ordinarily and necessarily would be required by the Department to perform this Agreement.

B. Upon request from the Department's custodian of public records, provide the Department with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

C. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement and following completion of the Agreement if Agency does not transfer the records to the Department.

D. Upon completion of this Agreement, transfer, at no cost, to the Department all public records in possession of Agency or keep and maintain public records required by the Department to perform this Agreement. If Agency transfers all public records to the public Agency upon completion of this Agreement, Agency shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If Agency keeps and maintains public records upon completion of this Agreement, Agency shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Department, upon request from the Department's custodian of public records, in a format that is compatible with the information technology systems of the Department.

Failure by Agency to act in accordance with Chapter 119 and the foregoing shall be grounds for immediate unilateral cancellation of this Agreement by the Department. Agency shall promptly provide the Department with a copy of any request to inspect or copy public records in possession of Agency and shall promptly provide the Department a copy of Applicant's response to each such request.

IF THE CONSULTANT/CONTRACTOR/VENDOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S/CONTRACTOR'S/VENDOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

District 2

386-758-3727
D2prcustodian@ dot.State.FL.us
Florida Department of Transportation
District 2 - Office of General Counsel
1109 South Marion Avenue, MS 2009
Lake City, FL 32025

IN WITNESS WHEREOF, intending to be legally bound hereby, the parties execute this Agreement, consisting of one hundred and fourteen (114) pages.

Florida Department of Transportation

By: _____

Printed Name: Greg Evans

Title: District Two Secretary

Date: _____

Attest:

By: _____

Printed Name: Elizabeth Engle

Title: Office of the District Two

Date: _____

Legal Review:

By: _____
Office of the General Counsel
Florida Department of Transportation

St. Johns County

By: _____

Printed Name: _____

Title: _____

Date: _____

Attest:

By: _____

Printed Name: _____

Title: _____

Date: _____

Legal Review:

By: _____
Legal Counsel for Agency

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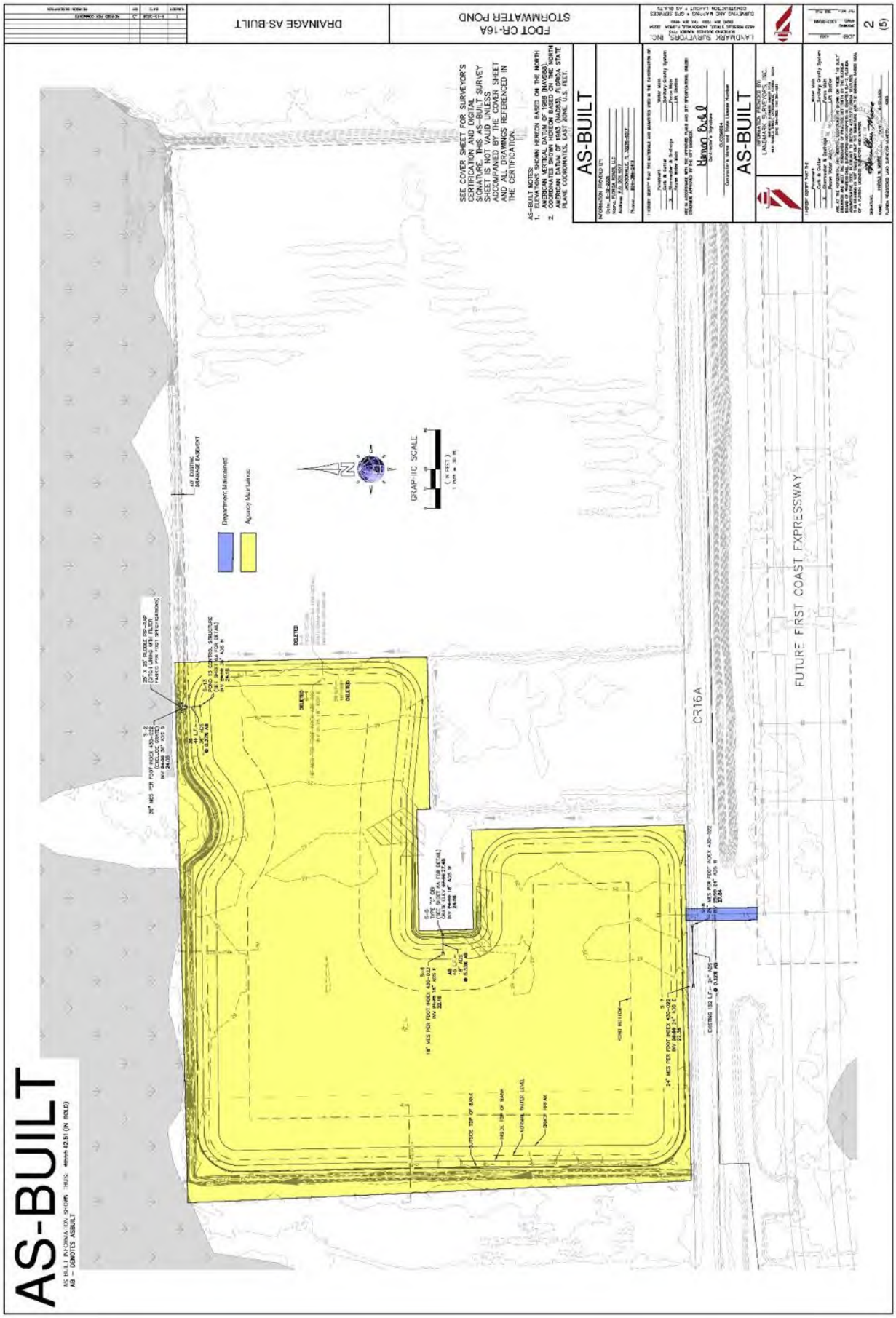
EXHIBIT "A"
Pond Site 13



OWNER:	TROUT CREEK VENTURE, LLC 111 NATURE WALK PARKWAY SUITE 104 ST. AUGUSTINE, FLORIDA 32092 904-429-9965
DEVELOPER:	TROUT CREEK VENTURE, LLC 111 NATURE WALK PARKWAY SUITE 104 ST. AUGUSTINE, FLORIDA 32092 904-429-9965
SURVEYOR:	FIM SURVEYING & MAPPING, INC. 14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FL 32258 (904) 642-8550
ENGINEER:	ENGLAND, THIMS & MILLER, INC. 14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FL 32258 (904) 642-8990

FDOT CR-16A STORMWATER POND

ST JOHNS, FLORIDA

PREPARED FOR

TROUT CREEK VENTURE, LLC.

111 NATURE WALK PARKWAY SUITE 104
ST. AUGUSTINE, FLORIDA 32092
904-429-9965



LOCATION MAP
N.T.S.

DRAWING INDEX		
DRAWING NUMBER	SHEET TITLE	REVISION
1	COVER	
2	GENERAL NOTES	
3	PRE DEVELOPMENT DRAINAGE PLAN	
4	POST DEVELOPMENT DRAINAGE PLAN	
5	POND DETAIL	
6A – 6B	PAVING AND DRAINAGE DETAILS	
7	SEDIMENT AND EROSION CONTROL PLAN	
8	SEDIMENT AND EROSION CONTROL DETAILS	
9	STORMWATER POLLUTION PROTECTION PLAN	
10	CONTRACTORS CERTIFICATE	

VERTICAL DATUM USED FOR
THIS PROJECT: NAVD 1988

AS–BUILT

INFORMATION PROVIDED BY:
DATE: 06-22-2025
NAME: CLARY & ASSOCIATES, INC.
ADDRESS: 2600 CROWN POINT ROAD
JACKSONVILLE, FLORIDA 32277
PHONE NO.: (904) 260-2703

I HEREBY CERTIFY THAT:
___ PAVEMENT
___ CURB & GUTTER
___ STORM & DRAINAGE SYSTEM
___ RECREATIONAL DEVELOPMENT
X MASS-BORROW GRADING
___ WATER MAIN
___ SANITARY GRAVITY SYSTEM
___ FORCE MAIN
___ LIFT STATION

ARE AS THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILT" DRAWINGS AND MEET THE MINIMAL TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PURSUANT TO SECTION 472.027 F.S.A. STATUTES.

Written Original
SIGNATURE: 2025.06.22 13:56:54 -04'00'
NAME: MICHAEL J. COLLIGAN
FLORIDA REGISTERED LAND SURVEYOR'S NO.: 6788

AS–BUILT

INFORMATION PROVIDED BY:
DATE:
NAME:
ADDRESS:
PHONE NO.:

I HEREBY CERTIFY THAT THE MATERIALS AND QUANTITIES USED IN THE CONSTRUCTION OF
___ PAVEMENT
___ CURB & GUTTER
___ STORM & DRAINAGE SYSTEM
___ RECREATIONAL DEVELOPMENT
X MASS-BORROW GRADING
___ WATER MAIN
___ SANITARY SEWER SYSTEM
___ FORCE MAIN
___ LIFT STATION

ARE IN ACCORDANCE WITH THE APPROVED PLANS AND CITY SPECIFICATIONS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER

AUTHORIZED SIGNATURE:
UNDERGROUND CERTIFICATION NO.:

"AS–BUILT"

REVISIONS

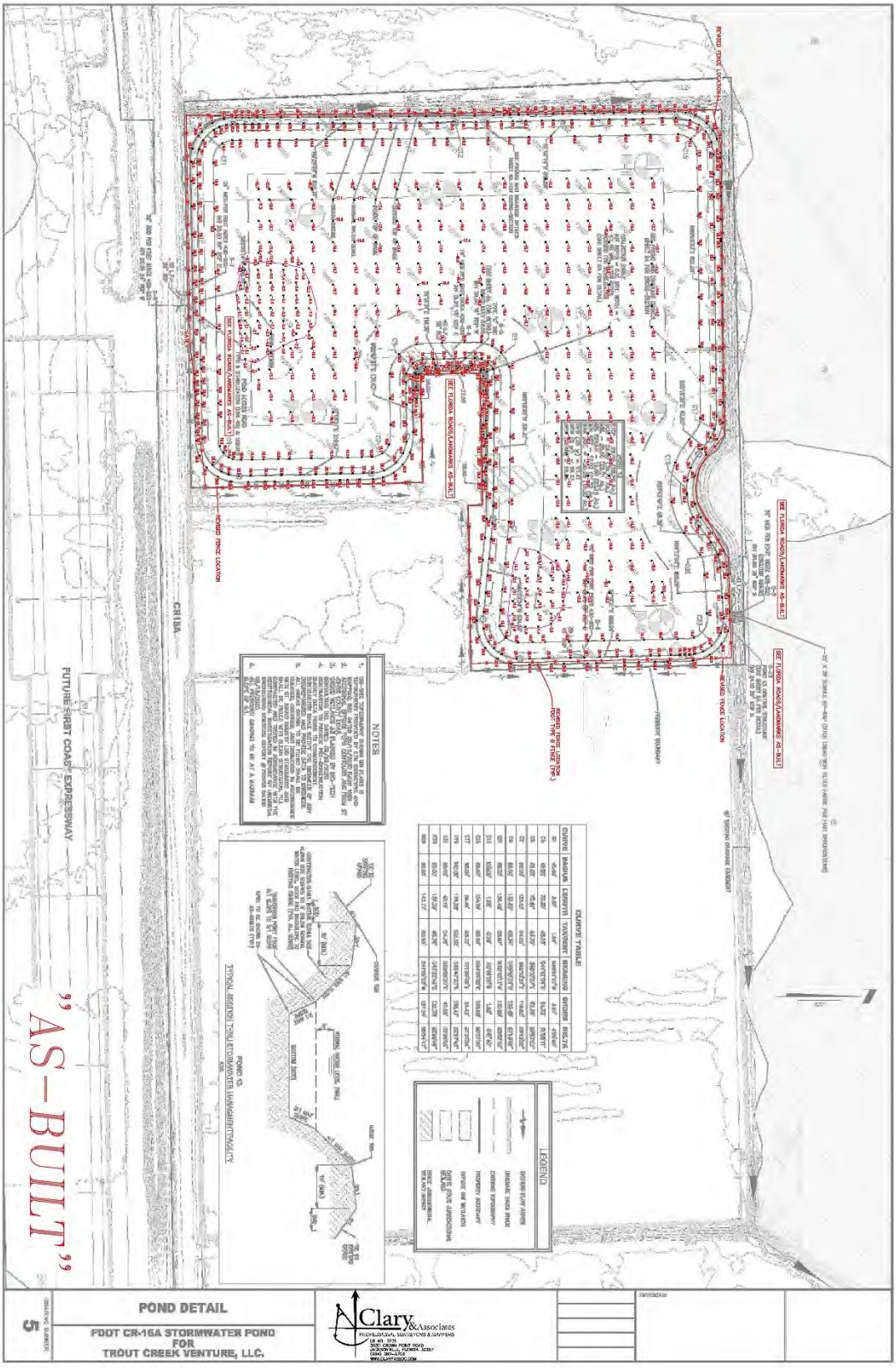
Clary & Associates
PROFESSIONAL ENGINEERS & PLANNERS
2600 CROWN POINT ROAD
JACKSONVILLE, FLORIDA 32277
(904) 260-2703
CLARY-ASSOC.COM

COVER

FDOT CR-16A STORMWATER POND
FOR
TROUT CREEK VENTURE, LLC.

DRAWING NUMBER
1

EXHIBIT "A" Cont'd
Pond Site 13



AS-BUILT

AS BUILT INFORMATION SHOWN THUS: ~~42.55~~ 42.51 (IN BOLD)
AB – DENOTES ASBUILT

FDOT CR-16A STORMWATER POND

ST JOHNS, FLORIDA

PREPARED FOR

TROUT CREEK VENTURE, LLC.

111 NATURE WALK PARKWAY SUITE 104
ST. AUGUSTINE, FLORIDA 32092
904–429–9965



LOCATION MAP
N.T.S.

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THIS COVER SHEET CONTAINS THE SURVEYOR'S CERTIFICATIONS FOR THE ENTIRE AS–BUILT AND MUST BE ACCOMPANIED WITH THE AS–BUILT SHEETS TO BE VALID. CERTIFICATION COVERS THE FOLLOWING SHEETS: 1–3.

AS–BUILT NOTES:
1. ELEVATIONS SHOWN HEREON BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. COORDINATES SHOWN HEREON BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), FLORIDA STATE PLANE COORDINATES, EAST ZONE, U.S. FEET.

AS-BUILT

INFORMATION PROVIDED BY:
Date: 6-12-2026
Name: FLORIDA ROADS, LLC
Address: P.O. BOX 6067
JACKSONVILLE, FL 32236-6067
Phone: 904-384-2410

I HEREBY CERTIFY THAT THE MATERIALS AND QUANTITIES USED IN THE CONSTRUCTION OF:

____ Pavement	____ Water Main
____ Curb & Gutter	____ Sanitary Gravity System
X Stormwater & Drainage	____ Force Main
____ Reuse Water Main	____ Lift Station

ARE IN ACCORDANCE WITH THE APPROVED PLANS AND CITY SPECIFICATIONS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

Hernan Ewdl
Contractor's Signature

CGC056664
Contractor's Name and State License Number

AS-BUILT

INFORMATION PROVIDED BY:
LANDMARK SURVEYORS, INC.
[illegible]

DATE: 6-12-2026

I HEREBY CERTIFY THAT THE:

____ Pavement	____ Water Main
____ Curb & Gutter	____ Sanitary Gravity System
X Stormwater & Drainage	____ Reuse Water Main
____ Ditch Bottom	____ Lift Station

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILT" DRAWINGS AND MEET THE STANDARDS OF PRACTICE AS SET FORTH IN CHAPTER 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

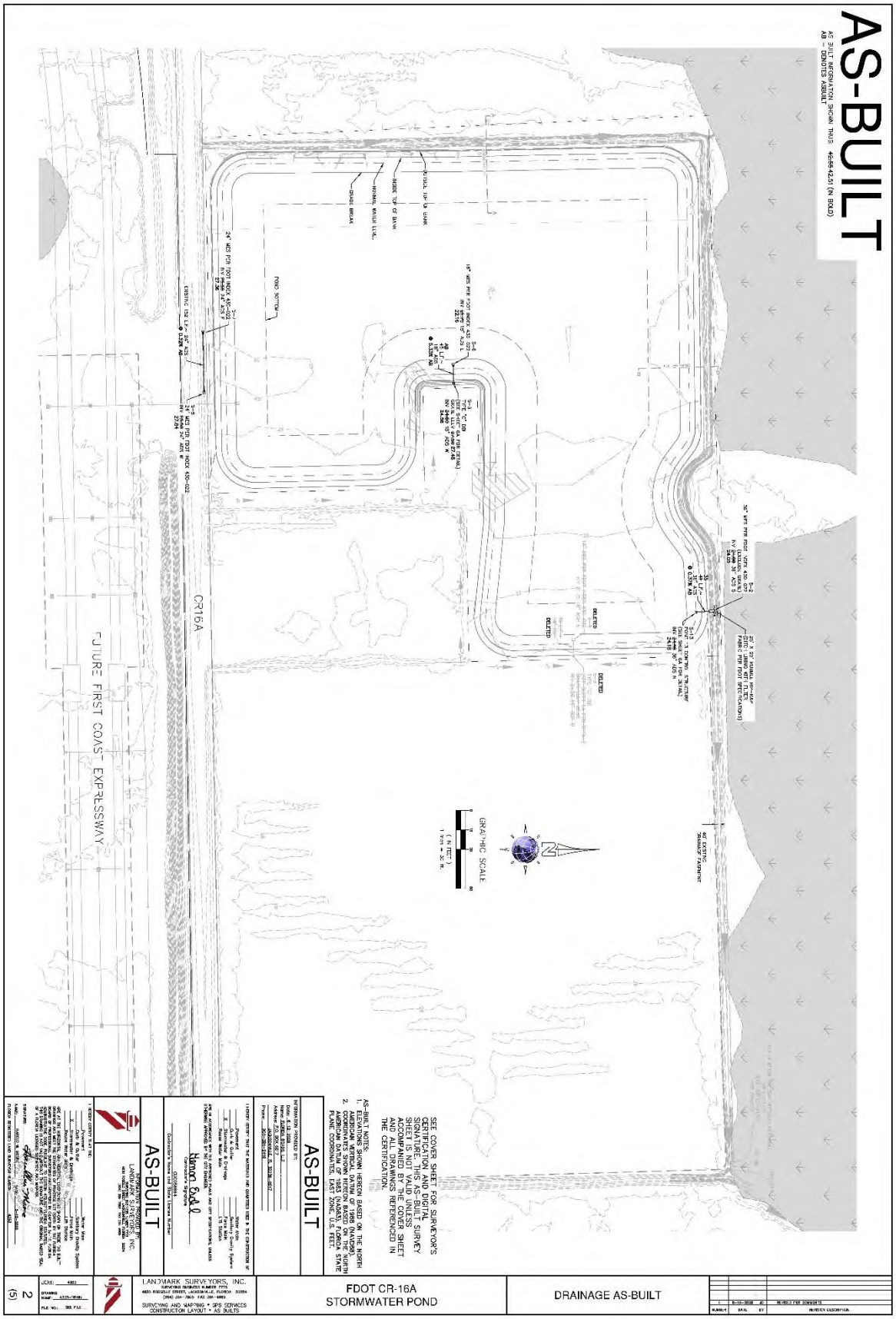
DRAINAGE AS-BUILT

FDOT CR-16A
STORMWATER POND

LANDMARK SURVEYORS, INC.
SURVEYING AND MAPPING • GPS SERVICES
CONSTRUCTION LAYOUT • AS BUILTS

1
(C)

EXHIBIT "A" Cont'd
Pond Site 13



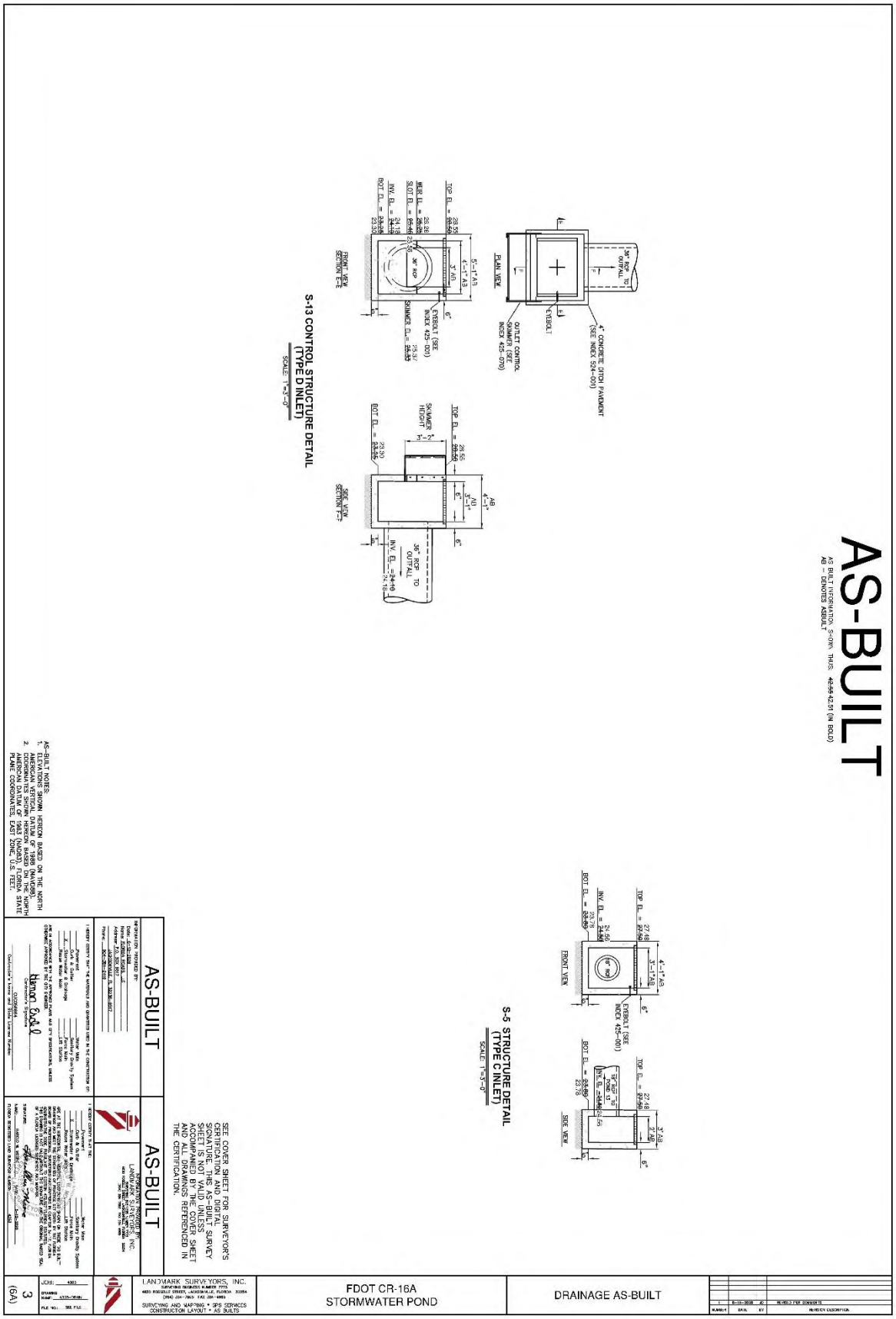

AS-BUILT
AS BUILT INFORMATION SHOWN THUS: 42.56 42.51 (ON BOLD)
AB = DENOTES ASBUILT
S-13 CONTROL STRUCTURE DETAIL
(TYPE D INLET)
SCALE: 1"=3'-0"
S-5 STRUCTURE DETAIL
(TYPE C INLET)
SCALE: 1"=3'-0"
AS-BUILT NOTES:
1. ELEVATIONS SHOWN HEREON BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. COORDINATES SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), FLORIDA STATE PLANE COORDINATES, EAST ZONE, U.S. FEET.
AS-BUILT
AS-BUILT
SEE COVER SHEET FOR SURVEYOR'S CERTIFICATION AND TITLE. SURVEY SIGNATURE THIS AS-BUILT SURVEY SHEET IS NOT VALID UNLESS ACCOMPANIED BY THE COVER SHEET AND ALL DRAWINGS REFERENCED IN THE CERTIFICATION.
LANDMARK SURVEYORS, INC.
SURVEYING AND MAPPING * GPS SERVICES
CONSTRUCTION LAYOUT * AS BUILTS
FDOT CR-16A
STORMWATER POND
DRAINAGE AS-BUILT
(6A)
3

EXHIBIT "B"
Pond 13 As-Built

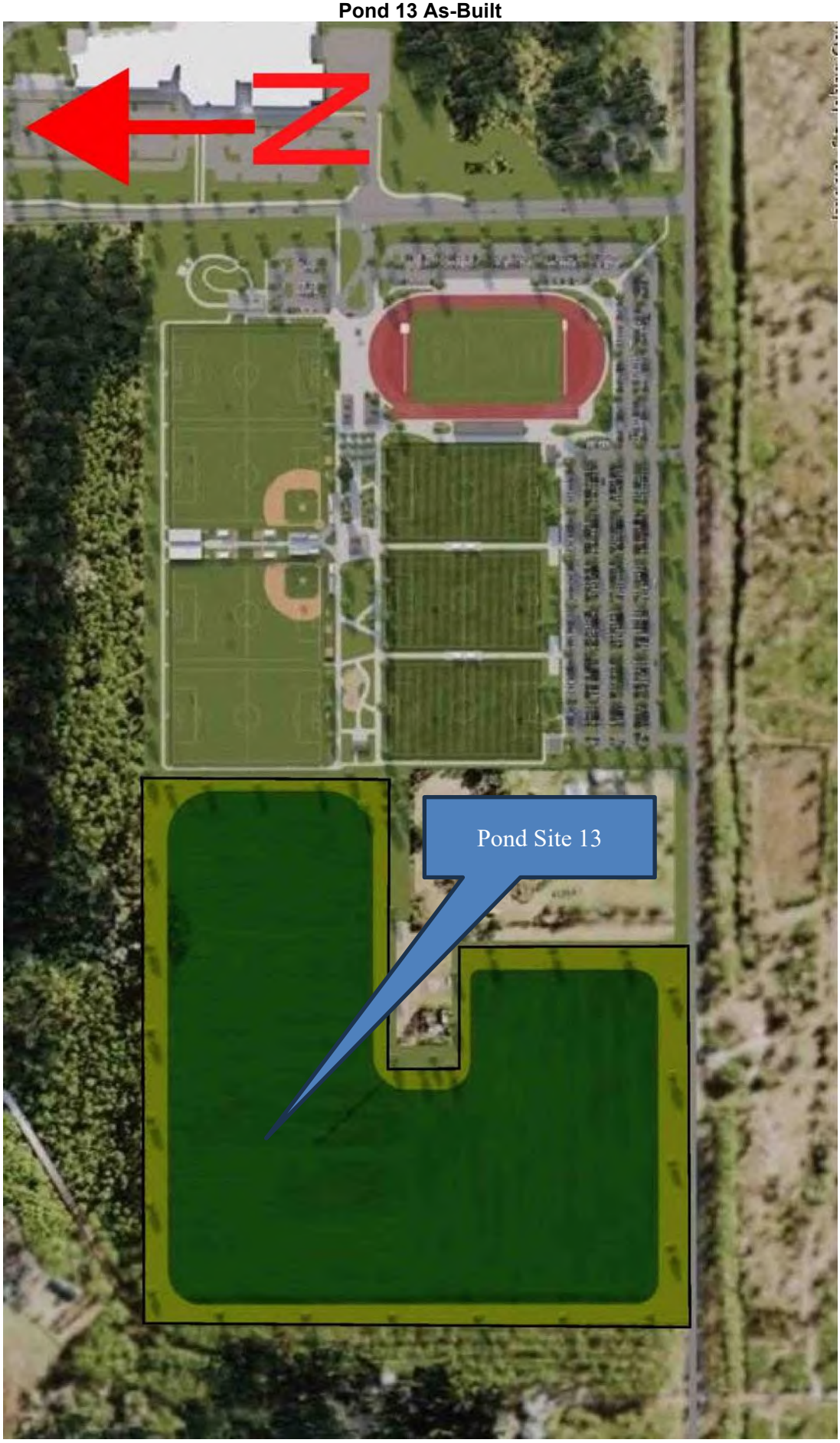


EXHIBIT "C" ON FOLLOWING PAGES

RULE 14-86.004, F.A.C.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DRAINAGE CONNECTION PERMIT

To be completed by DOT

Drainage Connection Permit No. 2024-D-297-00042 Date 10/30/2024

Received By One-Stop Permitting System Maintenance Unit 297

State Road No. 23 Work Program Project No. _____

Section No. _____ Construction Project No. _____

Milepost _____ Station _____

Instructions for Drainage Connection Permit

Pursuant to 14-86.004(5), F.A.C. Once approved by the Department, the drainage connection application and supporting documents become the Drainage Connection Permit."

Each completed Drainage Connection Permit package shall include the following items. If an item does not apply to your project, indicate "Not Applicable" or "N/A."

Included	Part	Title	Completed by:	Special Instructions
✔	1	Permit Information Sheet	Applicant	
✔	2	Certification by a Licensed Professional	Licensed Professional	Signed and Sealed
✔	3	Certification	Applicant	Signature
	4	Owner's Authorization of a Representative	Owner	Signature
	5	Affidavit of Ownership or Control and Statement of Contiguous Interest	Owner	Signature
✔	6	Permit General Conditions	FDOT	
✔	7	Permit Special Conditions	FDOT	
	8	As-Built Certification	Licensed Professional	Signed and Sealed – Submit within 15 working days of completion of construction
✔	Attachment	Legal Description		
	Attachment	Photographs of Existing Conditions		
✔	Attachment	Location Map		
	Attachment	Grading Plan	Licensed Professional	Signed and Sealed
✔	Attachment	Soil Borings		
	Attachment	Water Table / Percolation		
	Attachment	Calculations		
	Attachment	CD with Electronic Files of all Submittal Items		Scanned Images in pdf format

Note: Different Licensed Professionals may complete parts of the permit package. For example, the Licensed Professional signing and sealing the as-built certification may be different from the Licensed Professional who signed and sealed the calculations for the permit package.

EXCEPTIONS: Activities that qualify for an Exception are listed in Rule 14-86, F.A.C. A permit application to the Department is NOT required. However, if you desire verification whether the work qualifies for an exception, send a completed copy of this permit package with its requested information to the applicable FDOT District Office.

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 1 – Permit Information Sheet

Select one: ☑ **Permit** ☐ **Exception**

Pursuant to 14-86.002(2), F.A.C. "Applicant means the owner of the adjacent property or the owner's authorized representative."

Applicant

Select one: ☐ Property Owner ☑ Owner's Representative (Complete Part 4)

Name: ROBERT WALPOLE

Title and Company: President, CHW

Address: 11801 Research Drive

City: Alachua State: Florida Zip: 32615

Telephone: (352) 331-1976 ext. _____ FAX: _____ Email: fdotpermit@chw-inc.com

Property Owner (If not applicant)

Name: R. Duane Kent

Title and Company: County Engineer, St Johns County

Address: 500 San Sebastian VW

City: Saint Augustine State: Florida Zip: 32084

Telephone: (352) 331-1976 ext. _____ FAX: _____ Email: fdotpermit@chw-inc.com

Applicant's Licensed Professional

Name: Randall Olney Florida License Number: 68382

Title and Company: Director of Engineering, Land Development, CHW, an NV5 Company

Address: 11801 Research Dr

City: Alachua State: Florida Zip: 32615

Telephone: (352) 331-1976 ext. _____ FAX: _____ Email: randy.olney@nv5.com

Project Information:

Project Name: SR 13 SJC Sportsplex Drainage

Location: SR 13
STREET SR. NO. US HWY NO. CITY

St. Johns 070
COUNTY SECTION(S) TOWNSHIP(S) RANGE(S)

*Geographic Coordinates: Latitude (DMS.SSS): 29.9869439798131 Longitude (DMS.SSS): -81.570343386643

Benchmark Horizontal Datum: (/ _____.)

* State Plane Coordinates: Northing 0 Easting: 0

Projection Zone: ☐ Florida North ☐ Florida East ☐ Florida West

Coordinate shall be the center of the driveway intersection with FDOT R/W, or, if there is no driveway connection, near the center of the property line nearest the state highway.

**Check with the FDOT Office for requirement.*

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

Brief description of facility and proposed connection:
construction of a regional athletic facility with tournament-style lighted multipurpose fields, a stadium multipurpose field, restrooms, and associated pavement for sidewalks, lighted parking lots, and utilities

Briefly describe why this activity requires a Drainage Connection Permit (Include where the stormwater will discharge to FDOT right of way):
site is located within the watershed for a master FDOT pond, Pond 13, previously permitted under SJRWMD ERP 113964-30

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 2 – Certification by a Licensed Professional

In accordance with Rule 14-86, Florida Administrative Code (F.A.C.), I hereby certify that the following requirements are and/or will be met.

This project has been designed in compliance with all applicable water quality design standards as required by state governmental agencies.

14-86.004(3)(f) (F.A.C.): Certification by a Licensed Professional that the complete set of plans and computations complies with one of the following Rules Sections:

☒ 14-86.003(2)(a) (F.A.C.), or ☐ 14-86.003(2)(b) (F.A.C). (check one)

I further certify that a National Pollutant Discharge Elimination System (NPDES) permit for stormwater discharges associated with industrial activity from construction sites

☒ is required ☐ is not required. (check one)

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

This certification shall remain valid for any subsequent revision or submittal of plans, computation or other project documents by me.

Name of Licensed Professional: Randall Scott Olney, PE

Florida License Number: 68382

Company Name (if applicable): CHW

Certificate of Authorization Number (if applicable): CA-5075

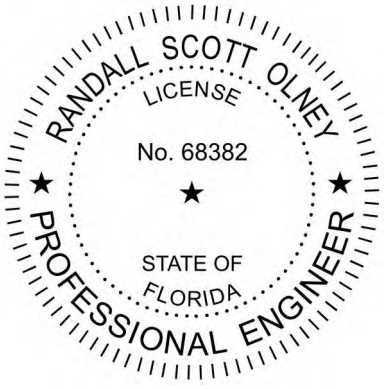
Address: 11801 Research Drive

City: Alachua State: Florida Zip: 32615

Telephone: (352) 331-1976 Fax: _____ Email: randy.olney@nv5.com

This item has been digitally signed and sealed by Randall Scott Olney, FL PE on the date adjacent to the seal

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Signature of Licensed Professional

10/30/2024

Date

(Affix Seal)

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 3 – Certification by Applicant

I hereby certify that the information in this submittal is complete and accurate to the best of my knowledge.

Applicant's Signature: _____ Date: 5/31/2024

Name (Printed): R. Duane Kent

Title and Company: County Engineer, St Johns County

Address: 500 San Sebastian VW, Saint Augustine, FL 32084-0000

Phone Number: contact agent E-mail address: contact agent

PART 4 – Owner's Authorization of a Representative

I (we), the owner, St Johns County , do hereby authorize the following person, or entity, as my representative:

Name (Printed): Randall Olney, PE

Title and Company: Director of Engineering, Land Development - CHW, an NV5 Company

Address: 11801 Research Dr, Alachua, FL 32615

Phone Number: 352-331-1976 E-mail address: randall.olney@nv5.com

Part 5 – Affidavit of Property Ownership or Control and Statement of Contiguous Interest

I, R. Duane Kent, certify that I own or lawfully control the following described property: St Johns County parcel 0103400000

Does the property owner own or have any interests in any adjacent property?
☒ No ☐ Yes If yes, please describe.

Owner's Signature required for Parts 4 and/or 5

We will not begin on the drainage connection until I receive the Permit and I understand all the conditions of the Permit. When work begins on the connection, I am accepting all conditions listed in the Permit.

Name (Printed): R. Duane Kent

Address: 500 San Sebastian VW, Saint Augustine, FL 32084-0000

Phone Number: contact agent

Signature: _____ Date: 12/13/24

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 6 – Permit General Conditions

1. This permit is a license for permissive use only and does not convey any property rights either in real estate or material, or any exclusive privilege and it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State or local laws, rules or regulations; nor does it obviate the necessity of obtaining any required state or local approvals.

2. The drainage connection as authorized herein shall be constructed and thereafter maintained in accordance with the documents attached hereto and incorporated by reference herein. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions. Such construction shall be subject to the inspection and approval of the Department, and the Department may at any time make such inspections as it deems necessary to assure that the drainage connection is in compliance with this permit.

3. The entire expense of construction within the Department right of way, including replacement of existing pavement or other existing features, shall be borne by the permittee.

4. The permittee shall maintain that portion of the drainage connection authorized herein located on permittee's property in good condition. The Department shall maintain that portion of the drainage connection authorized herein located within its right of way.

5. If the drainage connection is not constructed, operated or maintained in accordance with this permit, the permit may be suspended or revoked. In this event modification or removal of any portion of the drainage connection from the Department's right of way shall be at the permittee's expense.

6. The Department reserves the right to modify or remove the drainage connection to prevent damage or in conjunction with road improvements.

7. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the Department's right, title, and interest in the land to be entered upon and used by the permittee, and the permittee will, at all times, assume all risk of and indemnify, defend and save harmless the Department from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said permittee of these rights and privileges, regardless of the respective degrees of fault of the parties.

8. Utilities, including gas lines, may exist within the right of way. Prior to beginning work the permittee shall contact Sunshine State One Call of Florida, Inc at 811 or 800-432-4770, who will notify all utility owners near the scheduled project. The utility owners have two (2) full business days to provide locations of their respective facilities. The permittee shall be solely responsible for any damage to or conflicts with gas lines, utilities and/or third persons.

9. The permittee shall notify the Department of Transportation Maintenance Office located at St Augustine
Phone (904) 825-5036 ext. _____ 48 hours in advance of starting any work on the drainage connection authorized by this permit and also 24 hours prior to any work within the Department's right of way. Construction of any work on the right of way shall be completed within 180 days after such notification. If such construction is not completed within 180 days after such notification, the permittee shall notify the Department of the anticipated completion date.

10. This permit shall expire if construction on the drainage connection is not begun within one year from the date of approval and if construction on the drainage connection is not completed by (Date) 12/4/2025.

11. A permittee may request an extension of the Drainage Connection Permit expiration date by filing a written request for a permit time extension. All requests for time extensions must be received by the Department 15 working days prior to the expiration date.

12. All the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 7 – Permit Special Conditions – To be completed by FDOT

The above request has been reviewed and has been found to meet the regulations as prescribed in Rule 14-86, F.A.C., and is hereby approved, subject to the following special conditions:

Please contact the assigned FDOT Inspector / Coordinator two business days prior to working within the State Right of Way and again upon completion, for final inspection. The assigned Inspector/Coordinator can be found on page two (2) of the approved permit. If you are unable to reach the assigned, please contact the St. Augustine Permits Office at 904-825-5036.

Department of Transportation:

Signature Christopher Pogue

Title MAINTENANCE MANAGER/PERMITS Date 12/5/2024

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 8 – As-Built Certification

Within 15 working days of completion of construction, you must send this certification to the Department office in which you filed your DOT Drainage Permit.

1. STORMWATER FACILITY INFORMATION

Permit No.: _____

Source (Project) Name: _____

Source Location: Street _____

City: _____ County: _____

Source Owner: _____

Owner Address: _____

2. AS-BUILT CERTIFICATION

I hereby certify that this stormwater facility has been built substantially in accordance with the certified design plans, and that any substantial deviations (noted below) will not prevent the facility from functioning in compliance with the requirements of Chapter 14-86 F.A.C. when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision.

Name of Licensed Professional: _____

Florida License Number: _____

Company Name (if applicable): _____

Certificate of Authorization Number (if applicable): _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____ Email: _____

_____
Signature of Licensed Professional

_____
Date

(Affix Seal)

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

_____

_____

_____

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 2 – Certification by a Licensed Professional

In accordance with Rule 14-86, Florida Administrative Code (F.A.C.), I hereby certify that the following requirements are and/or will be met.

This project has been designed in compliance with all applicable water quality design standards as required by state governmental agencies.

14-86.004(3)(f) (F.A.C.): Certification by a Licensed Professional that the complete set of plans and computations complies with one of the following Rules Sections:

☒ 14-86.003(2)(a) (F.A.C.), or ☐ 14-86.003(2)(b) (F.A.C). (check one)

I further certify that a National Pollutant Discharge Elimination System (NPDES) permit for stormwater discharges associated with industrial activity from construction sites

☒ is required ☐ is not required. (check one)

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

This certification shall remain valid for any subsequent revision or submittal of plans, computation or other project documents by me.

Name of Licensed Professional: Randall Scott Olney, PE

Florida License Number: 68382

Company Name (if applicable): CHW

Certificate of Authorization Number (if applicable): CA-5075

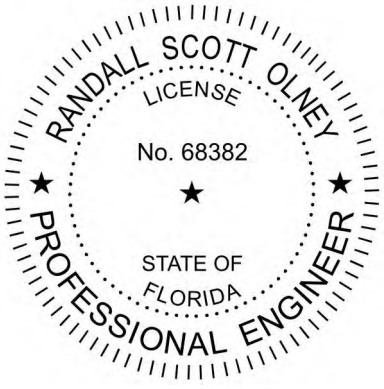
Address: 11801 Research Drive

City: Alachua State: Florida Zip: 32615

Telephone: (352) 331-1976 Fax: _____ Email: randy.olney@nv5.com

This item has been digitally signed and sealed by Randall Scott Olney, FL PE on the date adjacent to the seal

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Signature of Licensed Professional

10/30/2024
Date

(Affix Seal)

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

PART 3 – Certification by Applicant

I hereby certify that the information in this submittal is complete and accurate to the best of my knowledge.

Applicant's Signature: _____ Date: 5/31/2024

Name (Printed): R. Duane Kent

Title and Company: County Engineer, St Johns County

Address: 500 San Sebastian VW, Saint Augustine, FL 32084-0000

Phone Number: contact agent E-mail address: contact agent

PART 4 – Owner's Authorization of a Representative

I (we), the owner, St Johns County , do hereby authorize the following person, or entity, as my representative:

Name (Printed): Randall Olney, PE

Title and Company: Director of Engineering, Land Development - CHW, an NV5 Company

Address: 11801 Research Dr, Alachua, FL 32615

Phone Number: 352-331-1976 E-mail address: randall.olney@nv5.com

Part 5 – Affidavit of Property Ownership or Control and Statement of Contiguous Interest

I, R. Duane Kent, certify that I own or lawfully control the following described property: St Johns County parcel 0103400000

Does the property owner own or have any interests in any adjacent property?
☒ No ☐ Yes If yes, please describe.

Owner's Signature required for Parts 4 and/or 5

We will not begin on the drainage connection until I receive the Permit and I understand all the conditions of the Permit. When work begins on the connection, I am accepting all conditions listed in the Permit.

Name (Printed): R. Duane Kent

Address: 500 San Sebastian VW, Saint Augustine, FL 32084-0000

Phone Number: contact agent

Signature: _____ Date: 12/13/24

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

BOUNDARY & TOPOGRAPHIC SURVEY
LOCATED IN SECTION 34, TOWNSHIP 5 SOUTH, RANGE 27 EAST, ST. JOHNS COUNTY, FLORIDA

DESCRIPTION: (OFFICIAL RECORDS BOOK 5571, PAGE 354)

SUBJECT PARCEL
A PORTION OF SECTION 34, TOWNSHIP 5 SOUTH, RANGE 27 EAST ST. JOHNS COUNTY, FLORIDA, ALSO BEING A PORTION OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4262, PAGE 788, OF THE PUBLIC RECORDS OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF REFERENCE, COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 34; THENCE NORTH 01°18'21" WEST, ALONG THE WESTERLY LINE OF SAID SECTION 34, A DISTANCE OF 40.00 FEET TO A POINT LYING ON THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 16-A, AN 80 FOOT RIGHT OF WAY AS PRESENTLY ESTABLISHED AND THE POINT OF BEGINNING,

FROM SAID POINT OF BEGINNING, THENCE CONTINUE NORTH 01°18'21" WEST, DEPARTING SAID NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 16-A, ALONG THE EASTERLY LINE OF THOSE LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 642, PAGE 31, SAID PUBLIC RECORDS, AND ITS NORTHERLY PROJECTION, SAID LINE ALSO BEING THE WESTERLY LINE OF SAID SECTION 34, A DISTANCE OF 1295.39 FEET TO A POINT LYING ON SAID NORTHERLY LINE OF SAID LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 4262, PAGE 788; THENCE NORTH 88°33'54" EAST, ALONG SAID NORTHERLY LINE, 1341.80 FEET; THENCE SOUTH 01°08'31" EAST, ALONG THE EASTERLY LINE OF SAID LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 4262, PAGE 788, A DISTANCE OF 1302.89 FEET TO A POINT LYING ON SAID NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 16-A; THENCE SOUTH 88°53'08" WEST, ALONG SAID NORTHERLY RIGHT OF WAY LINE, 1338.08 FEET TO THE POINT OF BEGINNING. CONTAINING 39.96 ACRES, MORE OR LESS.

DRAINAGE EASEMENT
A PORTION OF SECTION 34, TOWNSHIP 5 SOUTH, RANGE 27 EAST ST. JOHNS COUNTY, FLORIDA, ALSO BEING A PORTION OF THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4262, PAGE 788, OF THE PUBLIC RECORDS OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF REFERENCE, COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 34; THENCE NORTH 01°18'21" WEST, ALONG THE WESTERLY LINE OF SAID SECTION 34, A DISTANCE OF 40.00 FEET TO A POINT LYING ON THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 16-A, AN 80 FOOT RIGHT OF WAY AS PRESENTLY ESTABLISHED; THENCE CONTINUE NORTH 01°18'21" WEST, DEPARTING SAID NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 16-A, ALONG THE EASTERLY LINE OF THOSE LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 642, PAGE 31, SAID PUBLIC RECORDS, AND ITS NORTHERLY PROJECTION, SAID LINE ALSO BEING THE WESTERLY LINE OF SAID SECTION 34, A DISTANCE OF 1255.39 FEET TO THE POINT OF BEGINNING.

FROM SAID POINT OF BEGINNING, THENCE CONTINUE NORTH 01°18'21" EAST, ALONG SAID WESTERLY LINE OF SECTION 34, A DISTANCE OF 40.00 FEET TO A POINT LYING ON THE NORTHERLY LINE OF SAID LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 4262, PAGE 788; THENCE NORTH 88°33'54" EAST, ALONG SAID NORTHERLY LINE, 1341.80 FEET; THENCE SOUTH 01°08'31" EAST, ALONG THE EASTERLY LINE OF SAID LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 4262, PAGE 788, A DISTANCE OF 40.00 FEET; THENCE SOUTH 88°33'54 WEST, DEPARTING SAID EASTERLY LINE, 1341.69 FEET TO THE POINT OF BEGINNING.

CONTAINING 1.23 ACRES, MORE OR LESS.

SURVEYOR'S NOTES:

1. BEARINGS SHOWN HEREON ARE REFERRED TO A VALUE OF NORTH 1°18'21" WEST FOR THE WESTERLY LINE OF SECTION 34, TOWNSHIP 5 SOUTH, RANGE 27 EAST, SAID BEARING BEING IDENTICAL TO THE DEED OF RECORD.
2. NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
3. THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY ENCROACH.
4. INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND OR OWNERSHIP WERE NOT FURNISHED TO THE SURVEYOR EXCEPT AS SHOWN. SEARCH OF THE PUBLIC RECORDS HAS NOT BEEN DONE BY THE SURVEYOR.
5. INFORMATION FROM FEDERAL EMERGENCY MANAGEMENT AGENCY, (F.E.M.A.) FLOOD INSURANCE RATE MAP(S), SHOWN ON THIS MAP WAS CURRENT AS OF THE REFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE PERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED ON THE MOST CURRENT MAP.
6. FENCES, SYMBOLS, MONUMENTATION AND UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES ONLY AND MAY NOT BE SHOWN TO SCALE.
7. IN THE OPINION OF THIS SURVEYOR, THE PERIMETER LINES AS SHOWN HEREON REPRESENT THE LOCATION OF THE BOUNDARY LINES OF THE SUBJECT PARCEL IN RELATION TO THE DESCRIPTION OF RECORD AND THOSE EXISTING LAND CORNERS FOUND TO BE ACCEPTABLE BY THIS SURVEYOR. ALL FEATURES SHOWN HEREON WERE LOCATED AND MAPPED UNDER THE RESPONSIBLE CHARGE OF THIS SURVEYOR.
8. VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), ELEVATIONS SHOWN HEREON WERE DERIVED FROM ST. JOHNS COUNTY BENCHMARK 1343 WITH A PUBLISHED ELEVATION OF 28.08 FEET NAVD 88.
9. ADDITIONAL POINTS MAY BE FOUND BY TURNING ON THE SV - NODE* LAYERS IN THE SUPPLIED DIGITAL FILE.
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N

GRAPHIC SCALE
0 40 80 160

LINE DATA TABLE		
LINE	DIRECTION	LENGTH
L1(M)	N 1°29'13" W	40.11'
L1(D)	N 1°18'21" W	40.00'

LEGEND:

- = BENCHMARK
- = FOUND 5/8" STEEL ROD & CAP MARKED "ETMSM LB 3824"
- = FOUND 4" X 4" CONCRETE MONUMENT WITH BROKEN TOP (NO IDENTIFICATION)
- = FOUND 3/4" IRON PIPE (MARKED AS NOTED)
- = RAILROAD SPIKE (MARKED AS NOTED)
- = SET 5/8" STEEL REBAR AND CAP MARKED "CHW INC LB 5075"
- = CONCRETE POWER POLE
- = WOODEN POWER POLE
- = GUY POLE
- = GUY ANCHOR
- TB = TELEPHONE JUNCTION BOX
- te = TELEPHONE PEDESTAL
- W = WELL
- = MAILBOX
- = TREE (SIZE AND TYPE AS NOTED)
- OHW = OVERHEAD WIRE
- X = FENCE (SIZE AND TYPE AS NOTED)
- ST = STORM SEWER LINE
- IR = 6" PVC IRRIGATION LINE
- 28 = CONTOUR LINES
- = ASPHALT SURFACE
- = ASPHALT MILLINGS SURFACE
- = LIMEROCK SURFACE

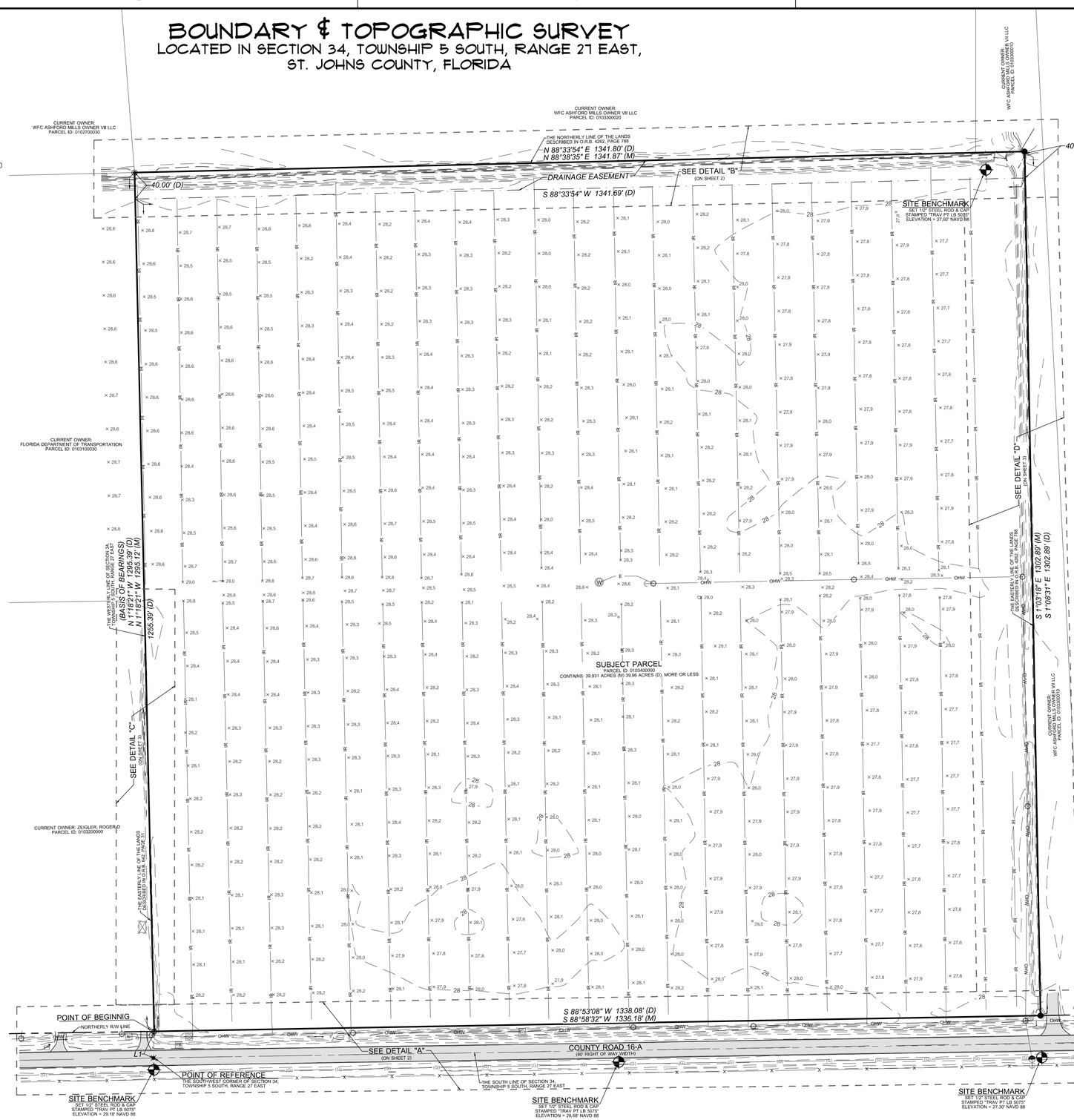
(D) = DATA BASED ON DEED OF RECORD (O.R.B. 5571, PAGE 354)
(M) = DATA BASED ON FIELD MEASUREMENTS
R/W = RIGHT OF WAY
HDPE = HIGH DENSITY POLYETHYLENE
CMP = CORRUGATED METAL PIPE
NAVD = NORTH AMERICAN VERTICAL DATUM
X 28.5 = SPOT ELEVATION (PERVIOUS SURFACE)
X 28.75 = SPOT ELEVATION (IMPERVIOUS SURFACE)

TREE LEGEND:

BAY = BAY TREE
CL = CHERRY LAUREL TREE
LAO = LAUREL OAK TREE
LO = LIVE OAK TREE
MAP = MAPLE TREE
MB = MULBERRY TREE
PN = PINE TREE
WIL = WILLOW TREE
WM = WAX MYRTLE TREE
WO = WATER OAK TREE

FLOOD ZONE:

THIS PROPERTY IS LOCATED IN FEDERAL FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS INTERPOLATED FROM F.I.R.M. PANEL NO. 12109C0164J, EFFECTIVE DATE: DECEMBER 7, 2018.



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SURVEY DATE: 10/21/2022
REVISION DATE: N/A
PROJECT NUMBER: 22-0073

TECHNICIAN: KWM
CREW CHIEF:
CHECKED BY: AMS
FIELD BOOK & PAGE: 656 / 40 - 50

A. KEVIN SMITH
License Number 7132
STATE OF FLORIDA
Professional Surveyor and Mapper

ANDREW K. SMITH
Professional Surveyor & Mapper Fla. License No. 7132

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OSBORN ENGINEERING

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12/5/2024

422938-8-52-01 CR 16A Pond

Exhibit "C"
St. Johns County Permit with FDOT

BOUNDARY & TOPOGRAPHIC SURVEY
LOCATED IN SECTION 34, TOWNSHIP 5 SOUTH, RANGE 27 EAST, ST. JOHNS COUNTY, FLORIDA

LINE DATA TABLE		
LINE	DIRECTION	LENGTH
L1(M)	N 1°29'13" W	40.11'
L1(D)	N 1°18'21" W	40.00'

GRAPHIC SCALE
0 15 30 60

SURVEYOR'S NOTES:

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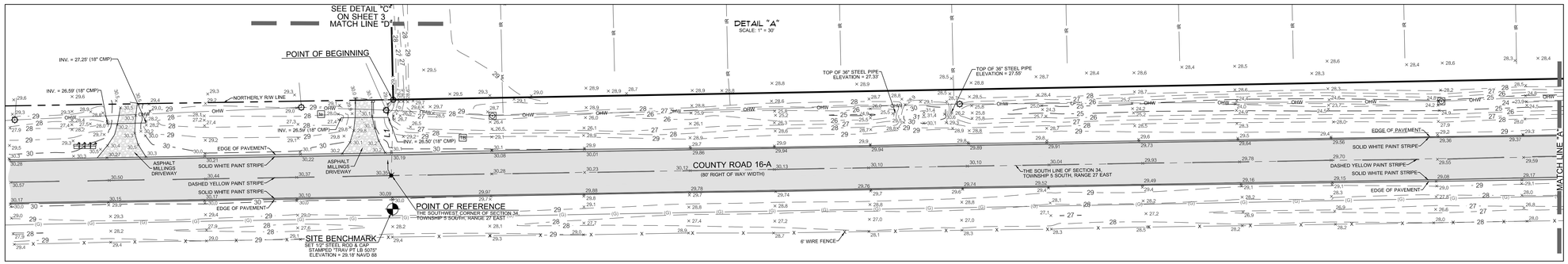

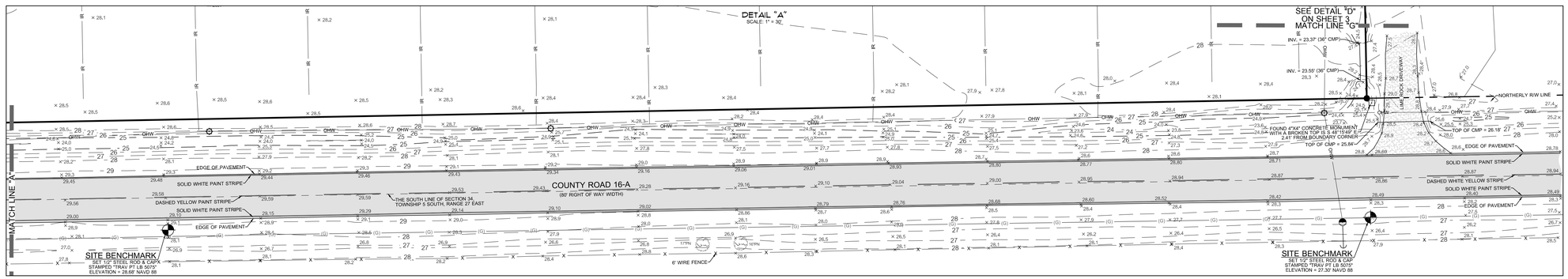

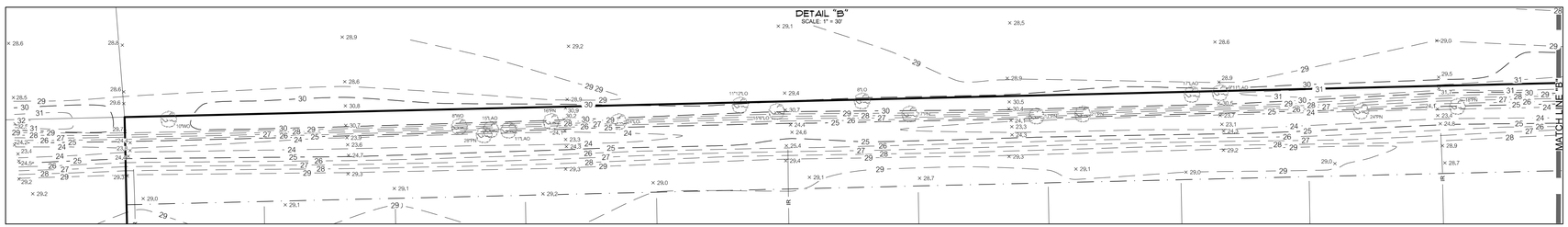

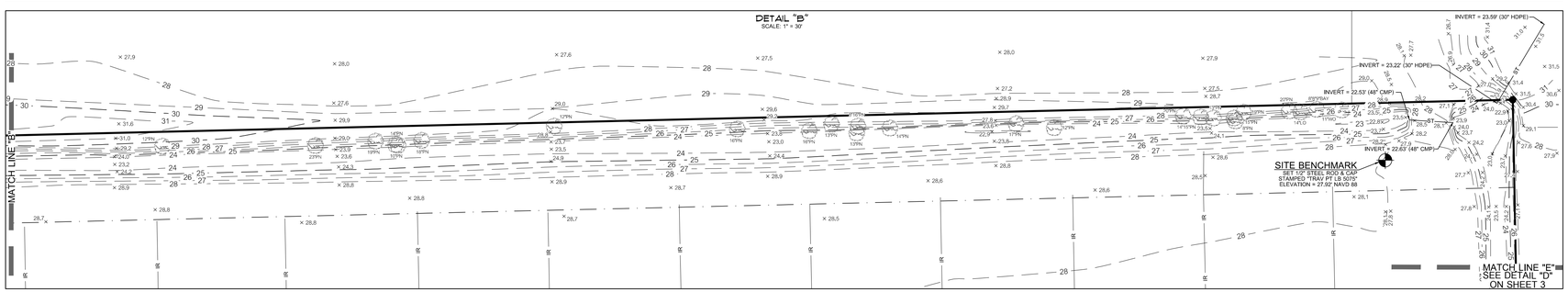

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CREW CHIEF: NL
DRAWN BY: ATH
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BOUNDARY & TOPOGRAPHIC SURVEY

LOCATED IN SECTION 34, TOWNSHIP 5 SOUTH, RANGE 27 EAST, ST. JOHNS COUNTY, FLORIDA

GRAPHIC SCALE
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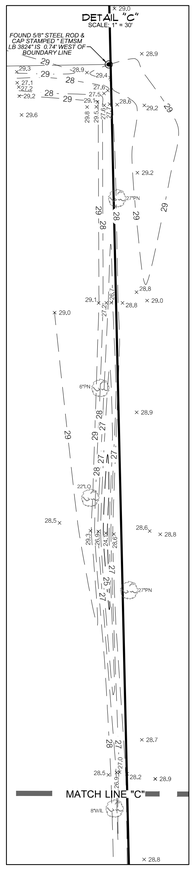

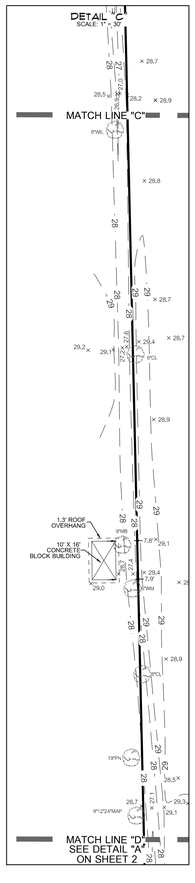

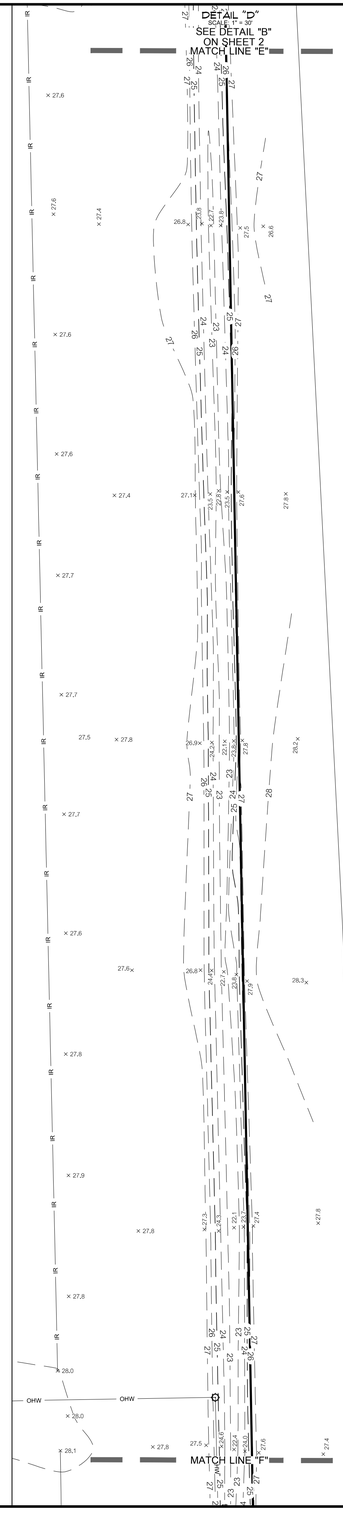

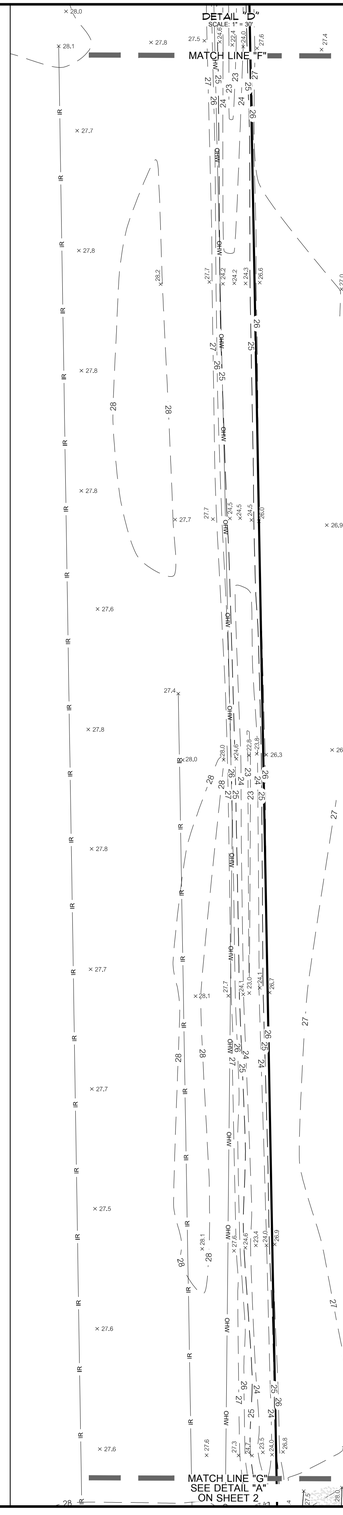

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REVISION DATE:	N/A
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CREW CHIEF:	MC
CHECKED BY:	AHH
FIELD BOOK & PAGE:	656 / 40 - 50

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GSE Engineering & Consulting, Inc.

SUMMARY REPORT OF A GEOTECHNICAL SITE EXPLORATION – REVISION 1

ST. JOHNS COUNTY PARKS – CENTRAL ST. JOHNS SPORTSPLEX
ST. JOHNS COUNTY, FLORIDA

GSE PROJECT NO. 16299

Prepared For:

OSBORN ENGINEERING

FEBRUARY 2024

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

GSE Engineering & Consulting, Inc.

February 21, 2024

Gray Hribar
Osborn Engineering
15 W. Church Street, Suite 201
Orlando, Florida 32801

Subject: Summary Report of a Geotechnical Site Exploration – Revision 1
St. Johns County Parks – Central St. Johns Sportsplex
St. Johns County, Florida
GSE Project No. 16299

GSE Engineering & Consulting, Inc. (GSE) is pleased to submit this revised geotechnical site exploration report for the above referenced project.

Presented herein are the findings and conclusions of our exploration, including the geotechnical parameters and recommendations to assist with structure foundation, pavement, and stormwater management designs. This revised report includes recommendations for the for the light pole and fence foundations, recommendations for the retaining walls, revised groundwater tables based on adjacent site dewatering, and additional hand auger borings in the area identified as Bakersville muck.

GSE appreciates this opportunity to have assisted you on this project. If you have any questions or comments concerning this report, please contact us.

Sincerely,

GSE Engineering & Consulting, Inc.

JASON E. GOWLAND LICENSE No.66467 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by

on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Angelina X. Liu, E.I.
Staff Engineer

Jason E. Gowland, P.E.
Principal Engineer
Florida Registration No. 66467

AXL/JEG:tlf
Q:\Projects\16299 St. Johns County Parks – Central St. Johns Sportsplex\16299 Rev.1.docx

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GSE Engineering & Consulting, Inc.
5590 SW 64th Street, Suite B
Gainesville, Florida 32608
(352) 377-3233 Phone ◆ (352) 377-0335 Fax
www.gseengineering.com

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Christopher Pogue
12/5/2024

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1. Project Site Location Map
2. Site Plan Showing Approximate Locations of Field Tests

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12/5/2024

1.0 INTRODUCTION

1.1 General

GSE Engineering & Consulting, Inc. (GSE) has completed this geotechnical exploration for the proposed St. Johns County Parks – Central St. Johns Sportsplex located in St. Johns County, Florida. This exploration was performed in accordance with GSE Proposal No. 2023-450 dated July 12, 2023. Mr. Scott A. Vura, Executive VP & CFO, of Osborn Engineering authorized our services on October 16, 2023.

1.2 Project Description

This project will consist of a new County Park. Details for the proposed construction have not been provided at the time of this report, but the below general information has been provided.

The Central St. Johns Sportsplex project will consist of creating a regional athletic facility with tournament-style lighted multipurpose fields, a stadium multipurpose field, restrooms, sidewalks, and lighted parking lots on a 40-acre parcel. The Parcel Identification Number is 0103400000.

A recent aerial photograph of the site was obtained. The site plan and aerial photograph were used in preparation of this exploration and report.

1.3 Purpose

The purpose of this geotechnical exploration was to determine the general subsurface conditions, evaluate these conditions with respect to the proposed construction, and prepare geotechnical parameters and recommendations to assist with structure foundation, stormwater management, retaining walls, light pole foundations, and pavement designs.

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12/5/2024

2.0 FIELD AND LABORATORY TESTS

2.1 General Description

The procedures used for field sampling and testing are in general accordance with industry standards of care and established geotechnical engineering practices for this geographic region. This exploration consisted of performing ten (10) Standard Penetration Test (SPT) borings to depths of 20 feet below land surface (bls) within the proposed structure areas, thirty-one (31) auger borings to depths of 10 feet bls within the pavement, fields, etc., three (3) hand auger borings in the area identified as Bakersville muck, and four (4) auger borings to depths of 15 feet bls within the stormwater management facilities.

The soil borings were performed at the approximate locations as shown on Figure 2. The borings were located at the site using the provided site plan and obvious site features as reference. The boring locations should be considered approximate. The soil borings were performed from November 29 through December 1, 2023. The hand auger borings were performed February 14, 2024.

2.2 Auger Borings

The auger borings were performed in accordance with ASTM D1452. The borings were performed with flight auger equipment that was rotated into the ground in a manner that reduces soil disturbance. After penetrating to the required depth, the auger was retracted and the soils collected on the auger flights were field classified and placed in sealed containers. Representative samples of each stratum were retained from the auger boring. Results from the auger borings are provided in Section 5.1.

2.3 Standard Penetration Test Borings

The soil borings were performed with a drill rig employing mud rotary drilling techniques and Standard Penetration Testing (SPT) in accordance with ASTM D1586. The SPTs were performed continuously to 10 feet and at 5-foot intervals thereafter. Soil samples were obtained at the depths where the SPTs were performed. The soil samples were classified in the field, placed in sealed containers, and returned to our laboratory for further evaluation.

After drilling to the sampling depth and flushing the borehole, the standard two-inch O.D. split-barrel sampler was seated by driving it 6 inches into the undisturbed soil. Then the sampler was driven an additional 12 inches by blows of a 140-pound hammer falling 30 inches. The number of blows required to produce the next 12 inches of penetration were recorded as the penetration resistance (N-value). These values and the complete SPT boring logs are provided in Section 5.2.

Upon completion of the sampling, the boreholes were abandoned in accordance with Water Management District guidelines.

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2.4 Soil Laboratory Tests

The soil samples recovered from the soil borings were returned to our laboratory, and examined to confirm the field descriptions. Representative samples were then selected for laboratory testing. The laboratory tests consisted of twenty-nine (29) percent soil fines passing the No. 200 sieve determinations, twenty-nine (29) natural moisture content determinations, four (4) constant head hydraulic conductivity tests, one (1) Atterberg Limits test, and four (4) organic content determinations. These tests were performed in order to aid in classifying the soils and to further evaluate their engineering properties. The laboratory tests are provided in Section 5.3.

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3.0 FINDINGS

3.1 Surface Conditions

Mrs. Angelina X. Liu, E.I. with GSE visited the site on November 9, 2023 to observe the site conditions and mark the boring locations. Mr. Jason Kite with Jason Kite, LLC was retained by GSE to clear lanes to allow access to the boring locations for drilling equipment.

The site is heavily wooded with large trees and thick underbrush on the south half of the site. There is a creek/ditch running along the north and east boundaries.

The topography at the site is relatively flat. Regional topography is gently sloping. The Orangedale USGS Topographic Map indicates the ground surface elevation at the site is near an elevation of 28 feet[1] NAVD88.

3.2 Subsurface Conditions

The locations of the auger and SPT borings are provided on Figure 2. Complete logs for the borings are provided in Sections 5.1 and 5.2. Descriptions for the soils encountered are accompanied by the Unified Soil Classification System symbol (SM, SP-SM, etc.) and are based on visual examination of the recovered soil samples and the laboratory tests performed. Stratification boundaries between the soil types should be considered approximate, as the actual transition between soil types may be gradual.

The auger borings located in the proposed stormwater management facilities indicate the soils across these areas are relatively consistent. The auger borings generally encountered sand with silt, and silty sand (SP-SM, SM) to the explored depths of 15 feet bls.

The hand auger boring located within the area indicated as Bakersville muck from Web Soil Survey encountered silty sand, silty clayey sand, and silty sand with organics (SM, SM-SC, SM-PT) to explored depths of 2 feet bls.

The auger borings located in the proposed pavement, fields, etc. generally encountered poorly graded sand, sand with silt, sand with silt and trace of organics, and silty sand (SP, SP-SM, SM) to the explored depths of 10 feet bls.

The SPT borings within the proposed structure and bleacher areas generally encountered sand with silt, sand with silt and shells, and silty sand (SP-SM, SM) to the explored depths of 20 feet bls.

The sand with silt, sand with silt and shells, sand with silt and trace of organics, and silty sand (SP-SM, SM) is generally in a very loose to medium dense condition with N-values ranging from 4 to 14 blows per foot.

The groundwater table was encountered in the hand auger, auger, and SPT borings at depths of 2 feet bls at the time of our investigation.

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[1] United States Geological Survey, Orangedale Quadrangle, 2018.

3.3 Review of Published Data

The majority of the site is mapped as four soil series by the Soil Conservation Service (SCS) Soil Survey for St. Johns County[2]. The following soil descriptions are from the Soil Survey.

Pomona fine sand - This poorly drained, nearly level soil is in broad areas in the flatwoods. Areas of this soil are irregularly shaped and range from 25 to 300 acres. Slopes range from 0 to 2 percent.

Typically, the surface layer is black to very dark gray fine sand about 6 inches thick. The subsurface layer, which is about 15 inches thick, is gray and light gray fine sand. The subsoil to a depth of 31 inches is black and dark brown fine sand coated with organic matter. Below this depth is pale brown to gray fine sand, which extends to a depth of 47 inches. Between 47 and 56 inches, the subsoil is light brownish gray loamy material. From 56 to 63 inches, it is light gray fine sandy loam. Below that, to a depth of 80 inches or more, is light brownish gray fine sand.

Included in mapping are small areas of Bakersville, EauGallie, Myakka, St. Johns, and Wesconnett soils. Also included are small areas of soils that are similar to this Pomona soil. Some of these similar soils have a subsoil more than 30 inches thick; some are weakly cemented in the upper part of the subsoil; some are loamy in the lower part of the subsoil; and some are yellowish brown in the lower part of the subsoil. Some soils have a lighter colored surface layer than this soil and are better drained. The included areas make up less than 20 percent of any area mapped.

The water table in this Pomona soli is within a depth of 10 inches for 1 to 3 months and is at a depth of 10 to 40 inches for 6 months or more. During extended dry periods, the water table recedes to a depth of more than 40 inches. Permeability is rapid in the surface and subsurface layers and moderate in the upper part of the subsoil. Available water capacity is very low or low in the surface and subsurface layers, and it is moderate in the upper part of the subsoil. Organic matter content and natural fertility are low.

Tocoi fine sand - This poorly drained, nearly level soil is in broad flatwood areas. Slopes range from 0 to 2 percent. Areas of this soil are irregular in shape and range from 15 to 400 acres.

Typically, the surface layer is black fine sand about 13 inches thick. The upper part of the subsoil consists of very dark brown and dark reddish brown fine sand, which extends to a depth of 23 inches. It is underlain by 17 inches of dark brown fine sand and then by 5 inches of light brownish gray fine sand. The lower part of the subsoil, at a depth of 45 inches, is light brownish gray loamy fine sand about 31 inches thick. Below that, to a depth of 80 inches or more, is gray loamy fine sand.

Included in mapping are small areas of Myakka, Ona, Placid, Pompano, and St. Johns soils. The Placid and Pompano soils are on slightly lower positions. Also included are small areas of soils that are similar to this Tocoi soil, except that in some, the lower part of the subsoil is at a depth of less than 40 inches; some have a subsoil of fine sandy loam or sandy clay loam; and others are mildly alkaline to strongly alkaline in the subsoil. The included soils make up less than 15 percent of any area mapped.

The seasonal high-water table is at a depth of less than 10 inches for 2 to 4 months during rainy seasons. It is within a depth of 20 to 40 inches for 6 months or more during most years.

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[2] Soil Survey of St. Johns County, Florida. Soil Conservation Service, U.S. Department of Agriculture.

Ellzey fine sand – This is a nearly level, poorly drained soil that formed in thick sandy sediments of marine origin. This soil is on low broad flats in the cabbage and potato farming area of St. Johns County. Areas of this soil are irregular in shape and range from 200 to 1,200 acres. Slope ranges from 0 to 2 percent.

Typically, the surface layer is black fine sand about 12 inches thick. The subsurface layer, about 15 inches thick, is gray and light gray fine sand. The subsoil is brownish yellow fine sand in the upper 6 inches; yellowish brown fine sand in the next 4 inches; and yellowish brown and brown loamy fine sand to a depth of 58 inches. Below that, the subsoil is light brownish gray loamy fine sand about 6 inches thick. The substratum to a depth of 80 inches or more is gray fine sand.

Included in mapping are small areas of Anclote and Floridana soils. Also included are small areas of similar soils, some of which have a surface layer less than 10 inches thick, and others which have a gray subsoil. Total included soils make up about 15 percent of any area mapped.

This Ellzey soil has a water table at a depth of less than 10 inches for 2 to 4 months during most years. During extended periods of low rainfall, it may recede to a depth greater than 40 inches. Permeability is rapid in the surface and subsurface layers and low in the other layers. Available water capacity is very low or low in the surface and subsurface layers and moderate in the subsoils.

Bakersville muck – This is a nearly level, very poorly drained soil in depressional areas of the flatwoods. Slopes are less than 2 percent. Areas range from 4 to 120 acres.

Typically, in undisturbed areas, a layer of black muck about 5 inches thick is on the surface. The surface layer is black and very dark grayish brown loamy fine sand, which extends to a depth of about 41 inches. The subsoil consists of fine sandy loam about 18 inches thick. It is very dark grayish brown in the upper 7 inches and dark brown in the lower 11 inches. Below that, the soil material is brown loamy fine sand about 4 inches thick over grayish brown loamy fine sand, which extends to a depth of 86 inches or more.

Included in mapping are small areas of soils similar to Bakersville muck, except that some have a gray or light gray sandy subsurface layer; some have a sandy clay subsoil; others have a fine sand surface layer; and others have a subsoil within a depth of 40 inches. The included soils make up about 20 percent of any mapped area.

The seasonal high-water table is above the soil surface for 6 months or more in most years. Permeability is rapid in the surface layer and moderately rapid in the upper part of the subsoil. It is moderate in the lower part of the subsoil and rapid below. Available water capacity is very high in the organic layer, moderate to high in the surface layer and subsoil, and low to moderate below. Organic matter content is very high, and natural fertility is medium.

3.4 Laboratory Soil Analysis

Selected soil samples recovered from the soil borings were analyzed for the percent soil fines passing the No. 200 sieve, natural moisture content, hydraulic conductivity, Atterberg Limits, and organic content. Samples selected for laboratory testing were collected at depths ranging from 0 to 15 feet bls. These tests were performed to confirm visual soil classification and evaluate their engineering properties. The complete laboratory report is provided in Section 5.3.

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The laboratory tests indicate the tested soils consist of poorly graded sand, sand with silt, sand with silt and shells, sand with silt and trace of organics, silty sand, and silty sand with organics. The tested poorly graded sand (SP) contains approximately 4.1 percent soil fines passing the No. 200 sieve with a natural moisture content of about 24 percent. The tested sand with silt, and sand with silt and shells (SP-SM) contains approximately 5.3 to 12 percent soil fines passing the No. 200 sieve with natural moisture contents of about 20 to 27 percent. The tested silty sand, and silty sand with organics (SM, SM-PT) contains approximately 13 to 25 percent soil fines passing the No. 200 sieve with natural moisture contents of about 18 to 37 percent.

The constant head hydraulic conductivity test results indicate the near-surface sand with silt (SP-SM) has hydraulic conductivity values of 6.8 to 12 feet per day.

The organic content determinations indicate the tested sand with silt and trace of organics (SP-SM) contains approximately 1.1 to 2.3 percent organic matter. The tested silty sand with organics (SM-PT) contains approximately 5.9 to 9.7 percent organic matter. Typically, soils with greater than 5 percent organic content are considered unsuitable for shallow foundation support.

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4.0 EVALUATION AND RECOMMENDATIONS

4.1 General

The following recommendations are made based upon our understanding of the proposed construction, a review of the attached soil borings and laboratory test data, and experience with similar projects and subsurface conditions. If plans or the location of proposed construction changes from those discussed previously, GSE requests the opportunity to review and possibly amend our recommendations with respect to those changes.

The final design of a foundation system is dependent upon adequate integration of geotechnical and structural engineering considerations. Consequently, GSE must review the final foundation design in order to evaluate the effectiveness and applicability of our initial analyses, and to determine if additional recommendations may be warranted. Without such a review, the recommendations presented herein could be misinterpreted or misapplied resulting in potentially unacceptable performance of the foundation system.

The performance of site improvements may be sensitive to their post-construction relationship to site groundwater levels, seepage zones, or soil/rock characteristics exposed at final site grades. GSE recommends that use of boring information for final design of all site improvements be predicated on proper horizontal and vertical control of borings.

In this section of the report, we present our geotechnical parameters and recommendations to assist with structure foundation, stormwater management, and pavement designs as well as our general site preparation guidelines.

4.2 Groundwater

The groundwater table was encountered in the auger and SPT borings at depths of 2 feet bls at the time of our investigation. The groundwater table was likely influenced by adjacent construction dewatering systems being discharged in the eastern and southeastern corner of the site. Therefore, we anticipate the seasonal high groundwater to be at a depth of approximately 2 feet below land surface during the wet season.

4.3 Structures, Retaining Walls, and Bleacher System Foundations

The SPT borings within the proposed structure and bleacher areas generally encountered loose to medium dense sand with silt, sand with silt and shells, and silty sand (SP-SM, SM) to the explored depths of 20 feet bls.

Based upon the soil conditions encountered and our limited understanding of the structural loads and site grading, we recommend the structures, retaining walls, and bleachers be supported by conventional, shallow strip and/or spread foundations. We recommend the shallow foundations be designed for a maximum allowable gross bearing pressure of 2,000 psf. The gross bearing pressure is defined as the soil contact pressure that can be imposed from the maximum structural loads, weight of the concrete foundations, and weight of the soil above the foundations. The foundations should be designed based upon the maximum load that could be imposed by all loading conditions.

The foundations should be embedded a minimum of 18 inches below the lowest adjacent grade. Interior foundations or thickened sections should be embedded a minimum of 12 inches. The foundations should have minimum widths of 18 inches for strip footings, and 24 inches for columns, even though the maximum soil bearing pressure may not be fully developed.

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Due to the mostly sandy nature of the majority of the near-surface soils, we expect settlement to be mostly elastic in nature. The majority of the settlement will occur on application of the loads, during and immediately following construction. Using the recommended maximum bearing pressure, the assumed maximum structural loads, and the field and laboratory test data which we have correlated into the strength and compressibility characteristics of the subsurface soils, we estimate the total settlements of the structures to be 1 inch or less, with approximately half of it occurring upon load application (during construction).

Post-construction settlement of the structures will be influenced by several interrelated factors, such as (1) subsurface stratification and strength/compressibility characteristics of the bearing soils; (2) footing size, bearing level, applied loads, and resulting bearing pressures beneath the foundation; (3) site preparation and earthwork construction techniques used by the contractor, and (4) external factors, including but not limited to vibration from off-site sources and groundwater fluctuations beyond those normally anticipated for the naturally-occurring site and soil conditions which are present.

Our settlement estimates for the structures are based upon our limited understanding of the structural loads and site grading and the use of successful adherence to the site preparation recommendations presented later in this report. Any deviation from our project understanding and/or our site preparation recommendations could result in an increase in the estimated post-construction settlement of the structures.

4.3.1 Light Poles and Fences

The SPT borings performed at the site encountered relatively similar soil conditions.

Based on the results of our exploration, the following soil parameters should be considered for design and construction of the light pole and fence foundations.

Table 1. Soil Parameters for SPT B-1

Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-10	8	30	107	112	0	0.33	3.00	0.50
10-20	9	30	110	115	0	0.33	3.00	0.50

Table 2. Soil Parameters for SPT B-2

Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-6	7	30	103	108	0	0.33	3.00	0.50
6-10	11	31	112	117	0	0.32	3.12	0.48
10-20	13	31	114	119	0	0.32	3.12	0.48

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Table 3. Soil Parameters for SPT B-3								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-8	5	29	94	99	0	0.35	2.88	0.52
8-10	9	30	110	115	0	0.33	3.00	0.50
10-20	10	31	111	116	0	0.32	3.12	0.48

Table 4. Soil Parameters for SPT B-4								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-8	6	30	98	103	0	0.33	3.00	0.50
8-10	7	30	103	108	0	0.33	3.00	0.50
10-20	10	31	111	116	0	0.32	3.12	0.48

Table 5. Soil Parameters for SPT B-5								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-2	5	29	94	99	0	0.35	2.88	0.52
2-6	8	30	107	112	0	0.33	3.00	0.50
6-10	10	31	111	116	0	0.32	3.12	0.48
10-20	12	31	113	118	0	0.32	3.12	0.48

Table 6. Soil Parameters for SPT B-6								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-10	6	30	98	103	0	0.33	3.00	0.50
10-20	10	31	111	116	0	0.32	3.12	0.48

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Table 7. Soil Parameters for SPT B-7								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-6	7	30	103	108	0	0.33	3.00	0.50
6-10	7	30	103	108	0	0.33	3.00	0.50
10-20	10	31	111	116	0	0.32	3.12	0.48

Table 8. Soil Parameters for SPT B-8								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-6	5	29	94	99	0	0.35	2.88	0.52
6-10	8	30	107	112	0	0.33	3.00	0.50
10-20	8	30	107	112	0	0.33	3.00	0.50

Table 9. Soil Parameters for SPT B-9								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-6	5	29	94	99	0	0.35	2.88	0.52
6-10	8	30	107	112	0	0.33	3.00	0.50
10-20	9	30	110	115	0	0.33	3.00	0.50

Table 10. Soil Parameters for SPT B-10								
Depth Range (ft)	Average SPT N-Value	Angle of Internal Friction ϕ	Moist Unit Weight γ_m (pcf)[1]	Saturated Unit Weight γ' (pcf)[2,3]	Cohesion c (ksf)	Coefficient of Active Earth Pressure K_a	Coefficient of Passive Earth Pressure K_p	Coefficient of At-Rest Earth Pressure K_o
0-4	5	29	94	99	0	0.35	2.88	0.52
4-6	9	30	110	115	0	0.33	3.00	0.50
6-10	12	31	113	118	0	0.32	3.12	0.48
10-20	11	31	112	117	0	0.32	3.12	0.48

Notes:

1. Natural condition, above the water table
2. Saturated condition, below the water table
3. Submerged or buoyant unit weight = Saturated unit weight – Unit weight of water

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4.4 Retaining Walls

Retaining walls are proposed to be constructed at the site. One retaining wall is proposed on the northeast of the site by the tailgate area near boring B-2. The elevations for the proposed retaining walls have not been provided at the time of this report. The recommendations for retaining walls are to be used for preliminary design purposes only and should be reviewed by GSE prior to construction to determine if additional recommendations are warranted.

The retaining walls must be designed to resist the lateral stress of the existing and fill soils. The earth pressures will be influenced by the structural design of the walls, conditions of wall restraint, methods of construction, and/or compaction and material types being retained. Active earth pressure is commonly used for design of free-standing cantilever retaining walls and assumes wall movement. The "at-rest" condition assumes no wall movement. The recommended design lateral earth pressures do not include a factor of safety and do not provide for possible unbalanced hydrostatic pressure on the walls.

We recommend the retaining walls be designed assuming the retained soil will exert an active lateral stress equivalent to a fluid having a unit weight of 40 pcf, an at-rest lateral stress equivalent to a fluid having a unit weight of 60 psf, and a passive lateral stress equivalent to a fluid having a unit weight of 360 pcf. This assumes a clean sand backfill will be used behind the walls with a soil unit weight of 120 pcf, a coefficient of lateral earth pressure for the active condition, K_a, of 0.33, a coefficient of lateral earth pressure for the at-rest condition, K_o, of 0.5, a coefficient of passive pressure K_p, of 3.00, and coefficient of friction of 0.35.

Backfill placed against the retaining structures should consist of clean sand fill with less than 10 percent soil fines passing the No. 200 sieve compacted to 95% Modified Proctor maximum dry density.

The clean sand fill must extend out from the base of the wall at an angle of at least 45 degrees and 60 degrees from the vertical for the active and passive cases, respectively.

Foundation drains or weepholes should be installed along the retaining walls. The purpose of foundation drains or weepholes is to evacuate groundwater that may collect behind the walls and to promote groundwater drainage away from the retaining wall foundations. Failure to promote proper drainage may result in a perched water table behind the walls that impose an unanticipated lateral stress.

4.5 Flexible Pavement

Overall soil conditions encountered by our borings at this site are suitable for supporting conventional limerock base and asphalt wearing surface pavements. **A few of the soil borings encountered soils having traces of organic material, and few of the soil borings encountered soils having organic content greater than 5%. The organic-rich soils (i.e., those with organic content greater than 5 percent) are considered unsuitable for pavement subgrade (native soil).** This scope did not include delineating the horizontal or vertical extent of organic-rich soils. Additional borings or test pits should be performed to delineate the areas that require removal. For preliminary purposes, GSE recommends that you consider the areas identified as Bakersville much as likely having organic rich near surface soils. Soils with greater than 5 percent organic content should be removed in accordance with FDOR Index 120-002. As an alternative, geogrids could be considered in lieu of over-excavation and replacement depending on site grading.

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We have not been provided the anticipated traffic loading conditions; therefore, the following pavement component recommendations should be used only as guidelines. The below recommendations are intended to be minimums. Increasing base course and asphalt thicknesses would increase the design life of the pavement.

The seasonal high groundwater table is estimated to be approximately 2 feet beneath existing grade at the site. We recommend a minimum of either 12 to 24 inches of separation (depending upon the pavement section design) be present between the bottom of the base course and the estimated seasonal high groundwater table. If this separation cannot be achieved by site grading, GSE recommends underdrains be used beneath the base course.

4.5.1 Stabilized Subgrade

If a crushed limerock or recycled concrete base is used, we recommend a stabilized subgrade be located beneath the base. The stabilized subgrade should have a minimum Limerock Bearing Ratio (LBR) of 40, with minimum thicknesses of 6 inches for automobile parking areas and 12 inches for driveways.

The stabilized subgrade can be imported material or a mixture of imported and on-site material. If a mix is proposed, a mix design should be performed to determine the optimum mix proportions. The stabilized subgrade should be compacted to a minimum of 98 percent of the Modified Proctor maximum dry density (ASTM D1557) for soils with less than 15 percent fines content. Soils with 15 percent or greater fines content should be compacted to 100 percent of the Standard Proctor maximum dry density (ASTM D698).

4.5.2 Base Course

The base course can consist of either crushed limerock, soil cement, or recycled concrete. If you should use a soil cement base course, a stabilized subgrade is not required.

Limerock should have a LBR of at least 100, be obtained from a FDOT approved source and meet FDOT gradation requirements. The base course thickness should be a minimum of 6 inches in automobile parking areas, and 8 inches in driveway areas. The base course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). We recommend a minimum 24 inches separation between the bottom of the limerock base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

Soil cement can consist of an imported material or a blend of the on-site soils and cement. A mix design should be performed to determine the optimum cement content. We recommend the soil cement have a minimum 28-day compressive strength of 500 psi. Soil cement can be blended off-site (in a pug mill) or on site. Soil cement pills should be cast from each day's production to verify the recommended compressive strength has been achieved at 28 days. We recommend the soil cement base course be a minimum of 8 inches thick throughout the project. We recommend a minimum 18 inches separation between the bottom of the soil cement base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

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Recycled concrete should have an LBR of at least 150, be obtained from a FDOT approved source and meet FDOT gradation requirements. The base course thickness should be a minimum of 8 inches. The base course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). We recommend a minimum 12 inches separation between the bottom of the recycled concrete base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

4.5.3 Wearing Surface

The asphalt-wearing surface should consist of an FDOT Type SP Hot Mix Asphalt mixture. For automobile parking areas, the thickness should be a minimum of 1.5 inches. For driveway areas, the thickness should be a minimum of 2 inches. The asphalt-wearing surface should consist of an SP-12.5 mix. The asphalt should be compacted to at least 95 percent of the mix design density.

The constructability of differing asphalt thicknesses may be difficult, and having a uniform 2-inch thick asphalt wearing surface may be more practical.

4.5.4 Extending the Life of Pavement Using Geogrid

The above recommendations consider an unreinforced pavement design. Research has shown that reinforcing a pavement section with geogrid can either reduce the required base course and/or asphalt wearing surface thickness or extend the design life of the pavement. In some cases, this can also result in savings in construction or maintenance costs. In addition, GSE has had great success in placing asphalt pavements over organic rich soils using geogrids. You could consider placing a Tensar NX850 geogrid over the organic rich soils prior to placing fill. Depending on the amount of fill required to raise the site, and additional layer of geogrid may be necessary. GSE would be happy to evaluate the geogrid, if requested.

For example, considering the above recommended pavement section using 12-inches of stabilized subgrade, 8-inches of limerock base course and 2-inches of asphalt wearing surface with a design resilient modulus of 12,000 psi (using a maximum LBR design value of 40 from the FDOY Flexible Pavement Design Manual) gives a Structural Number (SN) of 3.28. This same pavement section with a Tensar® Interax™ NX750 Geogrid would have a SN of 4.5. Assuming a pavement design with the following factors: Design Life 20 years, Average Daily Traffic of 1,000, Directional Distribution of 50%, Lane Distribution of 100%, Growth Rate of 2%, Percent Trucks of 2%, Truck Factor of 1.8, Reliability of 95%, Standard Deviation of 0.49, Initial Serviceability of 4.2, Terminal Serviceability of 2, the unstabilized pavement has a design ESAL of 1.6 million. The stabilized pavement has a design ESAL of 15.2 million.

Using a geogrid can also eliminate the stabilized subgrade and reduce base thickness. GSE would be happy to evaluate different pavement sections using geogrids at your request.

4.6 Rigid Pavement

Concrete pavement is a rigid pavement that results in smaller load transfers to the subgrade soils than flexible pavement. For concrete pavement subgrade, we recommend using the existing surficial sands or recommended clean sand (SP) fill, compacted to at least 98 percent of the Modified Proctor maximum dry density without additional stabilization with the following stipulations:

1. Subgrade soils must be compacted to at least 98 percent of Modified Proctor maximum dry density to a depth of at least 2 feet prior to placement of concrete.

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2. The surface of the subgrade soils must be smooth and any disturbances or wheel rutting corrected prior to placement of the concrete.
3. The subgrade soils must be moistened prior to placement of concrete.
4. Concrete pavement thickness should be uniform throughout, with the exception of thickened edges (curb or footing).
5. The bottom of the pavement should be separated from the estimated seasonal high groundwater level by at least 18 inches.
6. Limerock or any other impermeable base is not suitable unless it meets the minimum recommended permeability of 10 feet/day.
7. The upper 12 inches of subgrade underlying the base course must also be "free-draining" and water that enters the base and subgrade must be allowed to seep out by gravity or if this is not possible, underdrains must be incorporated into the subgrade. A "bathtub" condition within the base/subgrade must be avoided.

Our recommendations for slab thickness for both light-duty and heavy-duty concrete pavements is based on a.) subgrade soils are compacted to 98 percent of the Modified Proctor maximum dry density, b.) modulus of subgrade reaction (k) of 200 pounds per cubic inch, c.) a 20-year design life, and d.) previously stated design parameters. For an anticipated light-duty traffic group, a minimum pavement thickness of 5.5 inches is recommended, using Table 2.4 from the ACI 330 Guide for Design and Construction of Concrete Parking Lots, ACI 330R-01. For an anticipated heavy-duty traffic group, a minimum pavement thickness of 8 inches is recommended, using Table 3.4 from the FDOT *Rigid Pavement Design Manual*, January 2019.

We recommend using concrete with a minimum 28-day compressive strength of 4,000 pounds per square inch and a minimum 28-day flexural strength (modulus of rupture) of at least 600 pounds per square inch based on the third point loading of concrete beam test samples. Maximum control joint spacing of 12.5 by 12.5 feet is suggested for light-duty concrete pavements. Maximum control joint spacing of 15 by 15 feet is suggested for heavy-duty concrete pavements. Layout of sawcut control joints should form square panels, and the depth of sawcut joint should be at least 1/4 of the concrete slab thickness. The joints should be sawed within six hours of concrete placement or as soon as the concrete has developed sufficient strength to support workers and equipment.

For further details on concrete pavement construction, refer to "Guide to Jointing Non-reinforced Concrete Pavements" published by the Florida Concrete and Products Associates, Inc. and "Building Quality Concrete Parking Areas", published by the Portland Cement Association.

4.7 Site Preparation

The soils at this site should be suitable for supporting the proposed construction using normal, good practice site preparation procedures. The following recommendations are our general guidelines for site preparation.

4.7.1 Stripping

Strip the construction limits and 10 feet beyond the perimeter of all grass, roots, topsoil, and other deleterious materials. You should expect to strip to depths of 12 or more inches. Deeper stripping will likely be necessary due to major root systems present at the site.

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4.7.2 Dewatering

Temporary dewatering will likely be necessary for this project. We anticipate dewatering can be accomplished with sumps placed near the construction area, with underdrains connected to a vacuum pump or with well points. GSE recommends groundwater be maintained a minimum of 2 feet below working surfaces to reduce the potential for pumping or yielding of the subgrade.

In any case, the site should always be graded to promote runoff and limit the amount of ponding. Localized ponding of stormwater is expected without proper grading during construction, and could render previously acceptable surfaces unacceptable.

4.7.3 Proof-Rolling

Proof-roll the subgrade with heavy rubber-tired equipment, such as a loaded front-end loader or dump truck, to identify any loose or soft zones not found by the soil borings. The proof-rolling should be monitored by a geotechnical engineer or qualified technician. Undercut or otherwise treat these zones as recommended by the geotechnical engineer in this report.

4.7.4 Proof Compaction

Compact the subgrade to a density of at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557). The specified compaction should be obtained to a depth of 1 foot below the foundation bottoms and the existing grade prior to placing fill. Vibratory roller equipment should not be used within approximately 100 feet of existing structures. Lighter “walk-behind” compaction equipment may be used to achieve the degree of compaction.

4.7.5 Fill Placement

Imported fill placed to raise the site grades should consist of clean sand having less than 10 percent passing the No. 200 sieve. On-site soils meeting the requirements of Section 4.9 may also be used as structural fill. The fill should be placed in maximum 12-inch loose lifts that are compacted to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557). If lighter “walk-behind” compaction equipment is used, this may require lifts of 4 inches or less to achieve the required degree of compaction.

4.8 Quality Control and Construction Materials Testing

It should be noted that the geotechnical engineering design does not end with the advertisement of the construction documents. As the geotechnical engineer of record, GSE is the most qualified to perform the construction materials testing that will be required for this project. The benefits of having the geotechnical engineer of record also perform the construction materials testing are numerous. If GSE continues to be involved with the project through construction, we will be able to constantly re-evaluate and possibly alter our geotechnical recommendations in a timely and cost-effective manner once final design and construction techniques are developed. This often results in cost savings for the project.

We recommend performing compaction testing beneath the concrete floor slab and the building foundations. We recommend one test be performed every 50 linear feet of continuous footing and every other column footing, per foot depth of fill or native material. We recommend a compaction test be performed for each 2,500 square feet of floor area or 10,000 square feet of pavement area per foot of fill or native material, or a minimum of three tests each, whichever is greater. Test all footing excavations to a depth of 12 inches at the frequencies stated above.

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4.9 Stormwater Management

The auger borings located in the proposed stormwater management facilities indicate the soils across these areas are relatively consistent. The auger borings generally encountered sand with silt, and silty sand (SP-SM, SM) to the explored depths of 15 feet bls.

The water table was encountered in the auger borings at a depth of 2 feet bls at the time of our exploration. We anticipate the seasonal high groundwater table to be at a depth of approximately 2 feet bls.

The laboratory permeability tests indicate the surficial layer of sand with silt (SP-SM) has hydraulic conductivity values of 6.8 to 14 feet per day.

Based upon our findings and test results, our recommended soil parameters for the stormwater management design in the explored areas are presented below. The recommended parameters consider the results of the permeability tests, wash 200 determinations, and our experience with these types of soils. The parameters below do not consider a factor of safety.

Proposed Stormwater Management Facility (P-1)

1. Base elevation of effective or mobilized aquifer (average depth of confining layer) equal to 15 feet bls.
2. Unsaturated vertical infiltration rate of 5 feet per day.
3. Horizontal hydraulic conductivity equal to 7 feet per day.
4. Specific yield (fillable porosity) of 25 percent.
5. Average seasonal high groundwater table depth equal to 2 feet bls.
6. Average seasonal low groundwater table depth equal to 6 feet bls.

Proposed Stormwater Management Facility (P-2 to P-4)

1. Base elevation of effective or mobilized aquifer (average depth of confining layer) equal to 15 feet bls.
2. Unsaturated vertical infiltration rate of 7 feet per day.
3. Horizontal hydraulic conductivity equal to 10 feet per day.
4. Specific yield (fillable porosity) of 25 percent.
5. Average seasonal high groundwater table depth equal to 2 feet bls.
6. Average seasonal low groundwater table depth equal to 6 feet bls.

4.10 Fill Suitability

The soils encountered at this site within the explored depths range from sands (SP) to silty sands (SM). A discussion of the suitability for reuse as structural fill for each soil classification according to the Unified Soil Classification System (USCS) designation is provided below.

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SP, SP-SM – Sands (SP) and sand with silt (SP-SM) have less than 5 percent and 12 percent soil fines passing the No. 200 sieve, respectively, and are typically well draining soils that are suitable for reuse as structural fill. The sands with silt may require moisture conditioning (drying) to make the material more workable. These soils will require stockpiling and drying before they are reused if they are excavated from below the water table.

SM – Silty sands (SM) can have between 12 percent and 50 percent soil fines passing the No. 200 sieve. Silty sands are typically non-plastic or have low plasticity, and can be reused as structural fill with precautions. Silty sands can be moisture sensitive and difficult to work and compact and can rut if the moisture content is near or above the optimum moisture content. We recommend these soils be moisture conditioned (dried) so that the moisture content during use is at or below the optimum moisture content. Aerating and exposure to the sun is typically the most effective methods of drying these soils. It may not be practical to reuse these materials during the wet season, as frequent rain showers may not allow these soils to dry to a workable moisture content. Suitable silty sands are limited to soil having less than 30 percent soil fines passing the No. 200 sieve. Silty sands with more than 30 percent soil fines are especially moisture sensitive, and are not recommended for reuse as structural fill. These soils will behave more as sandy silt, and for this reason, very silty sands having more than 30 percent soil fines passing the No. 200 sieve have been assigned a dual classification of SM/ML. Silty sand soils that are excavated from below the water table are not recommended for reuse as structural fill due to the amount of time that will be required to dry these soils to a workable condition.

PT – Organic soils with greater than 5 percent organic content should also not be used as structural fill.

When using on-site soils as fill materials, we recommend the silty sand soils (SM) be used in the lower depths of the fill. Sand and sand with silt (SP, SP-SM) should be used in the upper portions of the fill. We recommend a minimum of 2 feet of sand (SP, SP-SM) cover the silty sand fill materials to reduce the potential for soggy surface conditions due to the low permeability characteristics of the silty sand materials.

4.11 Surface Water Control and Landscaping

Roof gutters should be considered to divert runoff away from the buildings. The gutter downspouts should discharge a minimum of 10 feet from the structures to reduce the amount of water collecting around the foundations. Where possible, the gutter downspouts should discharge directly into the storm sewer system or onto the asphalt paved areas in order to reduce the amount of water collecting around the foundations. Grading of the site should be such that water is diverted away from the building on all sides to reduce the potential for erosion and water infiltration along the foundation.

With respect to landscaping, it is recommended that existing and planted trees and large “tree-like” shrubbery with potential for developing large root systems be planted a minimum distance of half their mature height, and preferably their expected final height, away from the structure. The purpose of this is to reduce the potential for foundation or slab movements from the growth of root systems as the landscaping matures. Consideration should also be given to using landscaping that has a low water demand, so that excessive irrigation is not conducted around the structures.

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5.0 FIELD DATA

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5.1 Auger Boring Logs

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GSE Engineering
5590 SW 64th St
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Telephone: 3523773233

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-1**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
			3.0
		AU 2	(SP-SM) Gray SAND with silt
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-2**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Pale brown SAND with silt
2.5			
			4.0
			(SM) Orange silty SAND
5.0		AU 2	*%PASS-200 = 16* *MC = 22*
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

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CLIENT Osborn Engineering **PROJECT NAME** St. Johns County Parks – Central St. Johns Sportsplex

PROJECT NUMBER 16299 **PROJECT LOCATION** St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-3**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
5.0			
6.0		AU 2	(SP-SM) Gray SAND with silt
7.5			
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-4**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Dark brown SAND with silt and trace of organics *%PASS-200 = 5.3* *MC = 25* *ORG = 1.1*
2.5			
4.0		AU 2	(SP-SM) Brown SAND with silt
5.0			
7.5			
10.0			Bottom of borehole at 10.0 feet.

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CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-5**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP) Pale brown SAND
2.5			
4.0		AU 2	(SM) Gray silty SAND
5.0			
7.5			
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-6**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Dark brown SAND with silt *%PASS-200 = 10* *MC = 21*
2.5			
3.0		AU 2	(SP-SM) Pale brown SAND with silt
5.0			
7.5			
10.0			Bottom of borehole at 10.0 feet.

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PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-7**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
4.0		AU 2	(SM) Gray silty SAND
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-8**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
4.0		AU 2	(SM) Brown silty SAND
10.0			Bottom of borehole at 10.0 feet.

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PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-9**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Pale brown SAND with silt
4.0		AU 2	(SM) Gray silty SAND
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-10**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Pale brown SAND with silt
4.0		AU 2	(SP-SM) Brown SAND with silt
10.0			Bottom of borehole at 10.0 feet.

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PROJECT NUMBER 16299 **PROJECT LOCATION** St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-11**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
5.0			
			6.0
			(SM) Gray silty SAND
7.5		AU 2	*%PASS-200 = 22* *MC = 20*
10.0			10.0
			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-12**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Pale brown SAND with silt
2.5			
5.0			
			6.0
			(SM) Orange silty SAND
7.5		AU 2	*%PASS-200 = 20* *MC = 26* *LL = NP* *PL = NP* *PI = NP*
10.0			10.0
			Bottom of borehole at 10.0 feet.

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PROJECT NUMBER 16299
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DATE PERFORMED 11/30/2023 **BORING NUMBER A-13**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0			(SP-SM) Dark gray SAND with silt
		AU 1	
2.5			
			4.0
		AU 2	(SM) Orange silty SAND
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-14**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Gray SAND with silt
2.5			
			4.0
		AU 2	(SP-SM) Brown SAND with silt
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

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PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-15**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0			(SP-SM) Dark brown SAND with silt and trace of organics
		AU 1	*%PASS-200 = 10* *MC = 21* *ORG = 2.3*
2.5			
			4.0
		AU 2	(SM) Brown silty SAND
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-16**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Orange SAND with silt
2.5			
			4.0
		AU 2	(SM) Gray silty SAND
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

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PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 12/1/2023 **BORING NUMBER A-17**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
4.0		AU 2	(SM) Orange silty SAND
5.0			
7.5			
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 12/1/2023 **BORING NUMBER A-18**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Gray SAND with silt *%PASS-200 = 12* *MC = 22*
2.5			
4.0		AU 2	(SP-SM) Brown SAND with silt
5.0			
7.5			
10.0			Bottom of borehole at 10.0 feet.

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CLIENT Osborn Engineering **PROJECT NAME** St. Johns County Parks – Central St. Johns Sportsplex

PROJECT NUMBER 16299 **PROJECT LOCATION** St. Augustine, St. Johns County, Florida

DATE PERFORMED 12/1/2023 **BORING NUMBER A-19**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
4.0		AU 2	(SP-SM) Gray SAND with silt
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 12/1/2023 **BORING NUMBER A-20**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
5.0		AU 2	(SP-SM) Gray SAND with silt
10.0			Bottom of borehole at 10.0 feet.

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CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 12/1/2023 **BORING NUMBER A-21**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
5.0		AU 2	(SM) Gray silty SAND
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 12/1/2023 **BORING NUMBER A-22**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
6.0			(SM) Gray silty SAND
7.5		AU 2	*%PASS-200 = 11* *MC = 24*
10.0			Bottom of borehole at 10.0 feet.

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12/5/2024

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CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 12/1/2023 **BORING NUMBER A-23**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
			4.0
		AU 2	(SM) Gray silty SAND
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

DATE PERFORMED 12/1/2023 **BORING NUMBER A-24**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
			4.0
		AU 2	(SM) Gray silty SAND
5.0			
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

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CLIENT Osborn Engineering **PROJECT NAME** St. Johns County Parks – Central St. Johns Sportsplex

PROJECT NUMBER 16299 **PROJECT LOCATION** St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-25**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0			(SP-SM) Brown SAND with silt
		AU 1	*%PASS-200 = 8.8* *MC = 22*
2.5			
5.0			
			6.0
		AU 2	(SP-SM) Gray SAND with silt
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-26**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
2.5			
5.0			
			6.0
		AU 2	(SM) Gray silty SAND
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

AB 2 PORTRAIT - GINT STD US.GDT - 2/8/24 16:02 - Q:\PROJECTS\16299 ST. JOHNS COUNTY PARKS – CENTRAL ST. JOHNS SPORTSPLEX\16299 BORINGS\16299 BORINGS.GPJ

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Exhibit "C"
St. Johns County Permit with FDOT

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-27**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
5.0		AU 2	(SP-SM) Gray SAND with silt
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-28**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
6.0			(SM) Gray silty SAND
7.5		AU 2	*%PASS-200 = 7.6* *MC = 25*
10.0			Bottom of borehole at 10.0 feet.

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Telephone: 3523773233

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-29**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
5.0		AU 2	(SP-SM) Gray SAND with silt
10.0			Bottom of borehole at 10.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER A-30**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1	(SP-SM) Brown SAND with silt
5.0		AU 2	(SP-SM) Gray SAND with silt
10.0			Bottom of borehole at 10.0 feet.

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GSE Engineering
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Gainesville, FL 32608
Telephone: 3523773233

CLIENT Osborn Engineering **PROJECT NAME** St. Johns County Parks – Central St. Johns Sportsplex

PROJECT NUMBER 16299 **PROJECT LOCATION** St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER A-31**

DRILLING CONTRACTOR Watson's Drilling LLC

GROUND WATER LEVELS: LOGGED BY WD

▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.0 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0			(SP) Brown SAND
		AU 1	*%PASS-200 = 4.1* *MC = 24*
2.5			
5.0			5.0
		AU 2	(SP-SM) Brown SAND with silt
7.5			
10.0			10.0
			Bottom of borehole at 10.0 feet.

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Telephone: 3523773233

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 2/14/2024 **BORING NUMBER HA-1**
DRILLING CONTRACTOR GSE
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY GSE
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			(SM) Dark brown silty SAND
1		AU 1	
1.5			(SM-SC) Brown silty clayey SAND
2		AU 2	
2.0			Bottom of borehole at 2.0 feet.

DATE PERFORMED 2/14/2024 **BORING NUMBER HA-2**
DRILLING CONTRACTOR GSE
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY GSE
CHECKED BY AXL
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			(SM-PT) Dark brown silty SAND with organics
1		AU 1	*%PASS-200 = 22* *MC = 37* *ORG = 9.7*
2			
2.0			Bottom of borehole at 2.0 feet.

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CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 2/14/2024 **BORING NUMBER HA-3**
DRILLING CONTRACTOR GSE
GROUND WATER LEVELS:
LOGGED BY GSE
AT TIME OF DRILLING 2.0 ft
CHECKED BY AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			(SM-PT) Dark brown silty SAND with organics
1		AU 1	
2		AU 2	*%PASS-200 = 22* *MC = 28* *ORG = 5.9*
			2.0
			Bottom of borehole at 2.0 feet.

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CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER P-1**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1 PS	(SP-SM) Brown SAND with silt *%PASS-200 = 9.4* *MC = 21* *k_h = 7.0 ft/day*
6.0		AU 2	(SP-SM) Gray SAND with silt
15.0		AU 3	Bottom of borehole at 15.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER P-2**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS: LOGGED BY WD
▼ AT TIME OF DRILLING 2.0 ft CHECKED BY AXL
▽ ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0		AU 1 PS	(SP-SM) Brown SAND with silt *%PASS-200 = 9.1* *MC = 23* *k_h = 6.8 ft/day*
10.0		AU 2	
10.0		AU 3	(SP-SM) Gray SAND with silt
15.0			Bottom of borehole at 15.0 feet.

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Telephone: 3523773233

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida

DATE PERFORMED 11/30/2023 **BORING NUMBER P-3**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0	AU 1 PS	(SP-SM) Orange SAND with silt *%PASS-200 = 8.7* *MC = 23* *k_h = 14 ft/day*
2.0		
2.5	AU 2	(SM) Orange silty SAND *%PASS-200 = 25* *MC = 27*
4.0		
5.0	AU 3	(SP-SM) Brown SAND with silt
10.0	AU 4	(SP-SM) Gray SAND with silt
15.0		Bottom of borehole at 15.0 feet.

DATE PERFORMED 11/30/2023 **BORING NUMBER P-4**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
AT TIME OF DRILLING 2.0 ft
ESTIMATED SEASONAL HIGH 2.0 ft
LOGGED BY WD
CHECKED BY AXL
NOTES

DEPTH (ft)	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0.0	AU 1 PS	(SP-SM) Orange SAND with silt *%PASS-200 = 8.2* *MC = 21* *k_h = 12 ft/day*
6.0	AU 2	(SP-SM) Gray SAND with silt
10.0	AU 3	
15.0		Bottom of borehole at 15.0 feet.

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5.2 Standard Penetration Test Soil Boring Logs

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Exhibit "C"
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Telephone: 3523773233

BORING NUMBER B-1

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Loose to medium dense brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*		AU 1								
				AU 2								
5				SPT 3	3-4-4-3 (8)							
				SPT 4	5-4-4-5 (8)							
10			10	SPT 5	5-6-6-3 (12)				9.0	24		
		(SP-SM) Loose gray SAND with silt and shell										
15				SPT 6	4-6-4 (10)							
20			20	SPT 7	5-4-4 (8)							
		Bottom of borehole at 20.0 feet.										

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12/5/2024

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Gainesville, FL 32608
Telephone: 3523773233

BORING NUMBER B-2

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %
0	(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*		AU 1 AU 2			
	(SP-SM) Loose orange SAND with silt	4	SPT 3	3-3-4-3 (7)	7.4	23
5		6	SPT 4	5-5-4-5 (9)		
	(SP-SM) Loose to medium dense brown SAND with silt		SPT 5	4-6-6-5 (12)		
10		10				
	(SP-SM) Medium dense gray SAND with silt and shell		SPT 6	6-7-7 (14)		
15						
			SPT 7	5-6-6 (12)		
20	Bottom of borehole at 20.0 feet.	20				

LIQUID LIMIT, % | PLASTIC LIMIT, % | PLASTICITY INDEX, % | ORGANIC CONTENT, %

▲ SPT N VALUE ▲
20 40 60 80

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BORING NUMBER B-3

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*	2	AU 1								
		(SP-SM) Orange SAND with silt	4	AU 2								
5		(SP-SM) Very loose to loose brown SAND with silt		SPT 3	2-2-3-2 (5)							
			8	SPT 4	3-2-2-3 (4)							
		(SP-SM) Loose gray SAND with silt		SPT 5	4-4-5-4 (9)				11	26		
10		(SP-SM) Loose to medium dense gray SAND with silt and shell	10									
				SPT 6	5-5-6 (11)							
15												
				SPT 7	4-4-5 (9)							
20			20									
		Bottom of borehole at 20.0 feet.										

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BORING NUMBER B-4

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*	2	AU 1								
		(SP-SM) Orange SAND with silt	4	AU 2					11	22		
5		(SP-SM) Loose brown SAND with silt		SPT 3	2-2-3-2 (5)							
			8	SPT 4	2-3-3-4 (6)							
		(SP-SM) Loose gray SAND with silt	10	SPT 5	4-4-3-4 (7)							
10		(SP-SM) Loose to medium dense gray SAND with silt and shell										
				SPT 6	5-4-4 (8)							
15												
				SPT 7	4-5-6 (11)							
20			20									
		Bottom of borehole at 20.0 feet.										

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Telephone: 3523773233

BORING NUMBER B-5

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲
0		(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*	2	AU 1								
		(SP-SM) Loose orange SAND with silt		AU 2					9.0	26		
5			6	SPT 3	3-4-4-3 (8)							
		(SP-SM) Loose to medium dense brown SAND with silt		SPT 4	5-4-4-5 (8)							
10			10	SPT 5	5-6-5-5 (11)							
		(SP-SM) Loose to medium dense gray SAND with silt and shell										
				SPT 6	4-5-5 (10)				9.0	26		
15												
20			20	SPT 7	6-6-7 (13)							
		Bottom of borehole at 20.0 feet.										

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BORING NUMBER B-6

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/30/23 **COMPLETED** 11/30/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Very loose to loose brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*		AU 1								
				AU 2								
5				SPT 3	3-2-2-7 (4)				11	21		
				SPT 4	7-4-4-3 (8)							
10			10	SPT 5	4-3-4-4 (7)							
		(SP-SM) Loose to medium dense gray SAND with silt and shell										
15				SPT 6	4-5-5 (10)							
20			20	SPT 7	4-7-4 (11)							
		Bottom of borehole at 20.0 feet.										

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12/5/2024

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Telephone: 3523773233

BORING NUMBER B-7

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Dark brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*	2	AU 1								
		(SP-SM) Brown SAND with silt	4	AU 2								
5		(SM) Loose orange silty SAND	6	SPT 3	3-4-3-3 (7)				13	18		
		(SP-SM) Loose brown SAND with silt		SPT 4	2-3-3-4 (6)							
10			10	SPT 5	4-4-3-4 (7)							
		(SP-SM) Loose to medium dense gray SAND with silt and shell		SPT 6	4-4-5 (9)				8.3	27		
15												
20			20	SPT 7	5-5-6 (11)							
		Bottom of borehole at 20.0 feet.										

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

SPT BORINGS W/ ORGANICS - GINT STD US.GDT - 2/8/24 16:08 - Q:\PROJECTS\16299 ST. JOHNS COUNTY PARKS – CENTRAL ST. JOHNS SPORTSPLEX\16299 BORINGS\16299 BORINGS.GPJ

Exhibit "C"
St. Johns County Permit with FDOT

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

BORING NUMBER B-8

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*		AU 1 AU 2								
		(SP-SM) Loose orange SAND with silt	4	SPT 3	2-2-3-2 (5)							
5		(SP-SM) Loose brown SAND with silt	6	SPT 4	4-3-3-4 (6)							
				SPT 5	5-4-6-6 (10)							
10		(SP-SM) Loose gray SAND with silt and shell	10									
				SPT 6	4-4-5 (9)							
15												
				SPT 7	4-4-3 (7)							
20		Bottom of borehole at 20.0 feet.	20									

SPT BORINGS W/ ORGANICS - GINT STD US.GDT - 2/8/24 16:08 - Q:\PROJECTS\16299 ST. JOHNS COUNTY PARKS – CENTRAL ST. JOHNS SPORTSPLEX\16299 BORINGS\16299 BORINGS.GPJ

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2024-D-297-00042
Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

BORING NUMBER B-9

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*		AU 1 AU 2								
		(SP-SM) Loose orange SAND with silt	4	SPT 3	2-2-3-2 (5)				11	20		
5		(SP-SM) Loose brown SAND with silt	6	SPT 4	4-3-3-4 (6)				11	21		
				SPT 5	4-4-5-4 (9)							
10		(SP-SM) Loose gray SAND with silt and shell	10									
				SPT 6	4-5-4 (9)							
15												
				SPT 7	6-4-4 (8)							
20			20									
		Bottom of borehole at 20.0 feet.										

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2024-D-297-00042
Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

BORING NUMBER B-10

CLIENT Osborn Engineering
PROJECT NAME St. Johns County Parks – Central St. Johns Sportsplex
PROJECT NUMBER 16299
PROJECT LOCATION St. Augustine, St. Johns County, Florida
DATE STARTED 11/29/23 **COMPLETED** 11/29/23
GROUND ELEVATION **HOLE SIZE**
DRILLING CONTRACTOR Watson's Drilling LLC
GROUND WATER LEVELS:
DRILLING METHOD Flight Auger
AT TIME OF DRILLING 2.0 ft
LOGGED BY WD **CHECKED BY** AXL
ESTIMATED SEASONAL HIGH 2.0 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	ORGANIC CONTENT, %	▲ SPT N VALUE ▲ (20 40 60 80)
0		(SP-SM) Brown SAND with silt *Hand Auger from 0.0 to 4.0 ft.*		AU 1 AU 2								
		(SP-SM) Loose orange SAND with silt	4	SPT 3	4-4-5-4 (9)							
5		(SP-SM) Medium dense brown SAND with silt	6	SPT 4	4-6-6-5 (12)							
				SPT 5	5-6-5-5 (11)							
10		(SP-SM) Loose to medium dense gray SAND with silt and shell	10									
				SPT 6	5-6-6 (12)							
15												
				SPT 7	5-5-5 (10)							
20		Bottom of borehole at 20.0 feet.	20									

SPT BORINGS W/ ORGANICS - GINT STD US.GDT - 2/8/24 16:08 - Q:\PROJECTS\16299 ST. JOHNS COUNTY PARKS – CENTRAL ST. JOHNS SPORTSPLEX\16299 BORINGS\16299 BORINGS.GPJ

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Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

5.3 Laboratory Results

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

GSE Engineering & Consulting, Inc.

SUMMARY REPORT OF LABORATORY TEST RESULTS

Project Number: 16299

Project Name: St. Johns County Parks-Central St. Johns Sportsplex

Boring Number	Depth (ft)	Soil Description	Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Percent Passing No. 200 Sieve	Organic Content (%)	Hydraulic Conductivity (ft/day)	Unified Soil Classification
B-1	8-10	Brown SAND with silt	24				9.0			SP-SM
B-2	4-6	Orange SAND with silt	23				7.4			SP-SM
B-3	8-10	Gray SAND with silt	26				11			SP-SM
B-4	2-2.5	Orange SAND with silt	22				11			SP-SM
B-5	2-2.5	Orange SAND with silt	26				9.0			SP-SM
B-5	13.5-15	Gray SAND with silt and shell	26				9.0			SP-SM
B-6	4-6	Brown SAND with silt	21				11			SP-SM
B-7	4-6	Orange silty SAND	18				13			SM
B-7	13.5-15	Gray SAND with silt and shell	27				8.3			SP-SM
B-9	4-6	Orange SAND with silt	20				11			SP-SM
B-9	6-8	Brown SAND with silt	21				11			SP-SM

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2024-D-297-00042
Christopher Pogue
12/5/2024

GSE Engineering & Consulting, Inc.

SUMMARY REPORT OF LABORATORY TEST RESULTS

Project Number: 16299

Project Name: St. Johns County Park-Central St. Johns Sportsplex

Boring Number	Depth (ft)	Soil Description	Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Percent Passing No. 200 Sieve	Organic Content (%)	Hydraulic Conductivity (ft/day)	Unified Soil Classification
P-1	0-4	Brown SAND with silt	21				9.4		7.0	SP-SM
P-2	0-4	Brown SAND with silt	23				9.1		6.8	SP-SM
P-3	0-4	Orange SAND with silt	23				8.7		14	SP-SM
P-4	0-4	Orange SAND with silt	21				8.0		12	SP-SM
A-2	4-10	Orange silty SAND	22				16			SM
A-4	0-4	Dark brown SAND with silt and trace of organics	25				5.3	1.1		SP-SM
A-6	0-3	Dark brown SAND with silt	21				10			SP-SM
A-11	6-10	Gray silty SAND	20				22			SM
A-12	6-10	Orange silty SAND	26	NP	NP	NP	20			SM
A-15	0-4	Dark brown SAND with silt and trace of organics	21				10	2.3		SP-SM
A-18	0-4	Gray SAND with silt	22				12			SP-SM
A-22	6-10	Gray SAND with silt	24				11			SP-SM

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

GSE Engineering & Consulting, Inc.

SUMMARY REPORT OF LABORATORY TEST RESULTS

Project Number: 16299

Project Name: St. Johns County Park-Central St. Johns Sportsplex

Boring Number	Depth (ft)	Soil Description	Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Percent Passing No. 200 Sieve	Organic Content (%)	Hydraulic Conductivity (ft/day)	Unified Soil Classification
A-25	0-6	Brown SAND with silt	22				8.8			SP-SM
A-28	6-10	Gray SAND with silt	25				7.6			SP-SM
A-31	0-5	Brown SAND	24				4.1			SP
P-3	2-4	Orange silty SAND	27				25			SM

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

GSE Engineering & Consulting, Inc.

SUMMARY REPORT OF LABORATORY TEST RESULTS

Project Number: 16299

Project Name: St. Johns County - Sportsplex

Boring Number	Depth (ft)	Soil Description	Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Percent Passing No. 200 Sieve	Organic Content (%)	Hydraulic Conductivity (ft/day)	Unified Soil Classification
HA-2	1.5-2	Dark brown silty SAND with organics	37				22	9.7		SM-PT
HA-3	1.5-2	Dark brown silty SAND with organics	28				22	5.9		SM-PT

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2024-D-297-00042
Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

5.4 Key to Soil Classification

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Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

KEY TO SOIL CLASSIFICATION CHART

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests					SYMBOLS		GROUP NAME
					GRAPHIC	LETTER	
COARSE-GRAINED SOILS	Gravels	Clean Gravels	Cu ≥ 4 and 1 ≤ Cc ≤ 3			GW	Well graded GRAVEL
More than 50% retained on No. 200 sieve	More than 50% of coarse fraction retained on No. 4 sieve	Less than 5% fines	Cu < 4 and/or 1 > Cc > 3			GP	Poorly graded GRAVEL
		Gravels with fines	Fines classify as ML or MH			GM	Silty GRAVEL
		More than 12% fines	Fines classify as CL or CH			GC	Clayey GRAVEL
	Sands	Clean Sands	Cu ≥ 6 and 1 ≤ Cc ≤ 3			SW	Well graded SAND
	50% or more of coarse fraction passes No. 4 sieve	Less than 5% fines	Cu < 6 and/or 1 > Cc > 3			SP	Poorly graded SAND
		Sand with fines	Fines classify as ML or MH			SP-SM	SAND with silt
		5% ≤ fines < 12%	Fines classify as CL or CH			SP-SC	SAND with clay
		Sand with fines	Fines classify as ML or MH			SM	Silty SAND
		12% ≤ fines < 30%	Fines classify as CL or CH			SC	Clayey SAND
		Sand with fines	Fines classify as ML or MH			SM	Very silty SAND
		30% fines or more	Fines classify as CL or CH			SC	Very clayey SAND
FINE-GRAINED SOILS	Clays	inorganic	50% ≤ fines < 70%			CL/CH	Sandy CLAY
50% or more passes the No. 200 sieve			70% ≤ fines < 85%			CL/CH	CLAY with sand
			fines ≥ 85%			CL/CH	CLAY
	Silts and Clays	inorganic	PI > 7 and plots on/above "A" line			CL	Lean CLAY
	Liquid Limit less than 50		PI < 4 or plots below "A" line			ML	SILT
		organic	Liquid Limit - oven dried / Liquid Limit - not dried	< 0.75		OL	Organic clay / Organic silt
	Silts and Clays	inorganic	PI plots on or above "A" line			CH	Fat CLAY
	Liquid Limit 50 or more		PI plots below "A" line			MH	Elastic SILT
		organic	Liquid Limit - oven dried / Liquid Limit - not dried	< 0.75		OH	Organic clay / Organic silt
HIGHLY ORGANIC SOILS	Primarily organic matter, dark in color, and organic odor					PT	PEAT

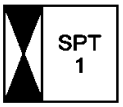
CORRELATION OF PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY

	No. OF BLOWS, N	RELATIVE DENSITY
	0 - 4	Very Loose
	5 - 10	Loose
SANDS:	11 - 30	Medium dense
	31 - 50	Dense
	OVER 50	Very Dense

	No. OF BLOWS, N	CONSISTENCY
	0 - 2	Very Soft
SILTS	3 - 4	Soft
&	5 - 8	Firm
CLAYS:	9 - 15	Stiff
	16 - 30	Very Stiff
	31 - 50	Hard
	OVER 50	Very Hard

	No. OF BLOWS, N	RELATIVE DENSITY
	0 - 8	Very Soft
	9 - 18	Soft
LIMESTONE:	19 - 32	Moderately Hard
	33 - 50	Hard
	OVER 50	Very Hard

SAMPLE GRAPHIC TYPE LEGEND



Location of SPT Sample



Location of Auger Sample

PARTICLE SIZE IDENTIFICATION

BOULDERS:		Greater than 300 mm
COBBLES:		75 mm to 300 mm
GRAVEL:	Coarse -	19.0 mm to 75 mm
	Fine -	4.75 mm to 19.0 mm
SANDS:	Coarse -	2.00 mm to 4.75 mm
	Medium -	0.425 mm to 2.00 mm
	Fine -	0.075 mm to 0.425 mm
SILTS & CLAYS:		Less than 0.075 mm

LABORATORY TEST LEGEND

LL	=	Liquid Limit, %
PL	=	Plastic Limit, %
PI	=	Plasticity Index, %
% PASS - 200	=	Percent Passing the No. 200 Sieve
MC	=	Moisture Content, %
ORG	=	Organic Content, %
k_h	=	Horizontal Hydraulic Conductivity, ft/day

Approved
2024-D-297-00042
Christopher Rogue
12/5/2024

6.0 LIMITATIONS

6.1 Warranty

This report has been prepared for our client for their exclusive use, in accordance with generally accepted soil and foundation engineering practices, and makes no other warranty either expressed or implied as to the professional advice provided in the report.

6.2 Auger and SPT Borings

The determination of soil type and conditions was performed from the ground surface to the maximum depth of the borings, only. Any changes in subsurface conditions that occur between or below the borings would not have been detected or reflected in this report.

Soil classifications that were made in the field are based upon identifiable textural changes, color changes, changes in composition or changes in resistance to penetration in the intervals from which the samples were collected. Abrupt changes in soil type, as reflected in boring logs and/or cross sections may not actually occur, but instead, be transitional.

Depth to the water table is based upon observations made during the performance of the auger and SPT borings. This depth is an estimate and does not reflect the annual variations that would be expected in this area due to fluctuations in rainfall and rates of evapotranspiration.

6.3 Site Figures

The measurements used for the preparation of the figures in this report were made using the provided site plan and by estimating distances from existing structures and site features. Figures in this report were not prepared by a licensed land surveyor and should not be interpreted as such.

6.4 Unanticipated Soil Conditions

The analysis and recommendations submitted in this report are based upon the data obtained from soil borings performed at the locations indicated on Figure 2. This report does not reflect any variations that may occur between these borings.

The nature and extent of variations between borings may not become known until excavation begins. If variations appear, we may have to re-evaluate our recommendations after performing on-site observations and noting the characteristics of any variations.

6.5 Misinterpretation of Soil Engineering Report

GSE Engineering & Consulting, Inc. is responsible for the conclusions and opinions contained within this report based upon the data relating only to the specific project and location discussed herein. If others make the conclusions or recommendations based upon the data presented, those conclusions or recommendations are not the responsibility of GSE.

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2024-D-297-00042
Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT

FIGURES

Approved
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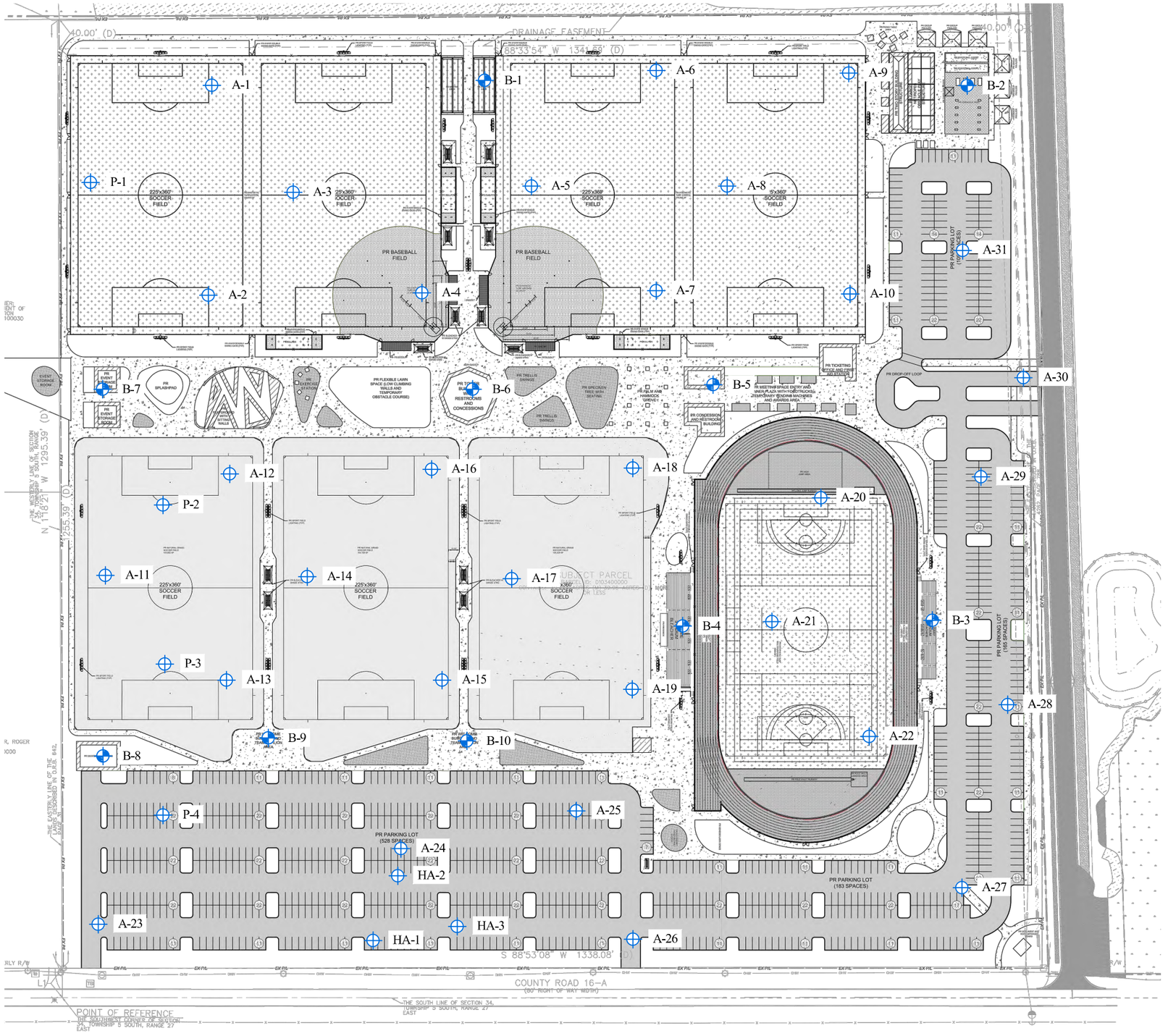
Christopher Pogue
12/5/2024



ST. JOHNS COUNTY PARKS - CENTRAL ST. JOHNS SPORTSPLEX ST. JOHNS COUNTY, FLORIDA GSE PROJECT NO. 16299	PROJECT SITE LOCATION MAP	
	DESIGNED BY: AXL CHECKED BY : JEG DRAWN BY : AXL	FIGURE 1

Approved
SJC-D-297-00042
Christopher Pogue
12/5/2024

Exhibit "C"
St. Johns County Permit with FDOT



LEGEND:

- SPT BORING
- AUGER BORING

SITE PLAN SHOWING APPROXIMATE LOCATIONS OF FIELD TESTS

DESIGNED BY : JEG
CHECKED BY : KLH
DRAWN BY : AXL

ST. JOHNS COUNTY PARKS -
CENTRAL ST. JOHNS SPORTSPLEX
ST. JOHNS COUNTY, FLORIDA
GSE PROJECT NO. 16299

FIGURE 2

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

St. Johns River
Water Management District
Michael A. Register, P.E., Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • www.sjrwmd.com

November 26, 2024

R. Duane Kent
St Johns County
500 San Sebastian Vw
St Augustine, FL 32084-8686

SUBJECT: 113964-39
Central St Johns Sportsplex

Dear Sir/Madam:

Enclosed is your individual permit issued by the St. Johns River Water Management District on November 26, 2024. This permit is a legal document and should be kept with your other important documents. Permit issuance does not relieve you from the responsibility of obtaining any necessary permits from any federal, state, or local agencies for your project.

Technical Staff Report:
If you wish to review a copy of the Technical Staff Report (TSR) that provides the District's staff analysis of your permit application, you may view the TSR by going to the Permitting section of the District's website at www.sjrwmd.com/permitting. Using the "search applications and permits" feature, you can use your permit number or project name to find information about the permit. When you see the results of your search, click on the permit number and then on the TSR folder.

Noticing Your Permit:
For noticing instructions, please refer to the noticing materials in this package regarding closing the point of entry for someone to challenge the issuance of your permit. Please note that if a timely petition for administrative hearing is filed, your permit will become non-final and any activities that you choose to undertake pursuant to your permit will be at your own risk. Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action.

Compliance with Permit Conditions:
To submit your required permit compliance information, go to the District's website at www.sjrwmd.com/permitting. Under the "Apply for a permit or submit compliance data" section, click to sign-in to your existing account or to create a new account. Select the "Compliance Submittal" tab, enter your permit number, and select "No Specific Date" for the Compliance Due Date Range. You will then be able to view all the compliance submittal requirements for your project. Select the compliance item that you are ready to submit and then attach the appropriate information or form. The forms to comply with your permit conditions are available at www.sjrwmd.com/permitting under the section "Handbooks, forms, fees, final orders". Click on forms to view all permit compliance forms, then scroll to the ERP application forms section and

GOVERNING BOARD
Rob Bradley, CHAIR, FLEMING ISLAND
Maryam H. Ghyabi-White, VICE CHAIR, ORMOND BEACH
J. Chris Peterson, SECRETARY, WINTER PARK
Cole Oliver, TREASURER, MERRITT ISLAND
Ryan Atwood, MOUNT DORA
Doug Bournique, VERO BEACH
Douglas Burnett, ST. AUGUSTINE
Ron Howse, COCOA
Janet Price, FERNANDINA BEACH

Approved
2024.12.297-00042
Christopher Pogue
12/5/2024

select the applicable compliance forms. Alternatively, if you have difficulty finding forms or need copies of the appropriate forms, please contact the Bureau of Regulatory Support at (386) 329-4570.

Transferring Your Permit:

Your permit requires you to notify the District within 30 days of any change in ownership or control of the project or activity covered by the permit, or within 30 days of any change in ownership or control of the real property on which the permitted project or activity is located or occurs. You will need to provide the District with the information specified in rule 62-330.340, Florida Administrative Code (F.A.C.). Generally, this will require you to complete and submit Form 62-330.340(1), "Request to Transfer Permit," available at http://www.sjrwmd.com/permitting/permitforms.html.

Please note that a permittee is liable for compliance with the permit before the permit is transferred. The District, therefore, recommends that you request a permit transfer in advance in accordance with the applicable rules. You are encouraged to contact District staff for assistance with this process.

Thank you and please let us know if you have additional questions. For general questions contact e-permit@sjrwmd.com or (386) 329-4570.

Sincerely,



Jeff Prather, Division Director
Division of Regulatory Services
St. Johns River Water Management District
2501 S. Binion Rd
Apopka, Fl 32703
321-676-6609

Enclosures: Permit
Notice of Rights
List of Newspapers for Publication

cc: District Permit File

Randall Olney
CHW, an NV5 Company
11801 Research Dr
Alachua, FL 32615-6836

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO: 113964-39 **DATE ISSUED:** November 26, 2024

PROJECT NAME: Central St Johns Sportsplex

A PERMIT AUTHORIZING:
Construction and operation of a Stormwater Management System for a 39.93 acres project known as Central St Johns Sportsplex as per plans received by the District on June 07, 2024.

LOCATION:
Section(s): 34 Township(s): 5S Range(s): 27E
St. Johns County

Receiving Water Body:

Name	Class
Trout Creek	III Fresh

ISSUED TO:
St Johns County
500 San Sebastian Vw
St Augustine, FL 32084-8686

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes.

PERMIT IS CONDITIONED UPON:
See conditions on attached “Exhibit A”, dated November 26, 2024

AUTHORIZED BY: St. Johns River Water Management District
Division of Regulatory Services

By: 

Craig McCammon
Supervising Regulatory Scientist

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

"EXHIBIT A"
CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 113964-39
Central St Johns Sportsplex
DATED November 26, 2024

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the District staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the District a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013) (http://www.flrules.org/Gateway/reference.asp?No=Ref-02505), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the District, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

    a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex — "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or

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b. For all other activities — “As-Built Certification and Request for Conversion to Operation Phase” [Form 62-330.310(1)].

c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:

a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

b. Within 30 days of submittal of the as- built certification, the permittee shall submit “Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity” [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the District in writing of changes required by any other regulatory District that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:

a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

b. Convey to the permittee or create in the permittee any interest in real property;

c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or

d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the District in writing:

a. Immediately if any previously submitted information is discovered to be inaccurate; and

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b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850) 245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the District will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

19. This permit for construction will expire five years from the date of issuance.

20. At a minimum, all retention and detention storage areas must be excavated to rough grade prior to building construction or placement of impervious surface within the area to be served by those facilities. To prevent reduction in storage volume and percolation rates, all accumulated sediment must be removed from the storage area prior to final grading and stabilization.

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21. All wetland areas or water bodies that are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity, and dewatering.

22. The permittee has documented its real property interest over the land upon which the activities subject to the application will be conducted as evidenced by a contract to purchase the real property included in the application. In accordance with Section 4.2.3.(d), ERP Applicant's Handbook, Volume I, work cannot begin until proof of ownership is provided to the Agency.

23. The operation and maintenance entity shall inspect the stormwater or surface water management system once within two years after the completion of construction and every two years thereafter to determine if the system is functioning as designed and permitted. The operation and maintenance entity must maintain a record of each required inspection, including the date of the inspection, the name and contact information of the inspector, and whether the system was functioning as designed and permitted, and make such record available for inspection upon request by the District during normal business hours. If at any time the system is not functioning as designed and permitted, then within 30 days the entity shall submit a report electronically or in writing to the District using Form 62-330.311(1), "Operation and Maintenance Inspection Certification," describing the remedial actions taken to resolve the failure or deviation.

24. The operation and maintenance entity shall submit inspection reports to the District one year after the operation phase of the permit becomes effective and every two years thereafter on form 62-330.311(1), "Operation and Maintenance Inspection Certification". The inspection form must be signed and sealed by an appropriate registered professional.

25. This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

26. The proposed project must be constructed and operated as per plans and calculations received by the District on June 07, 2024.

27. This permit does not authorize impacts to wetlands or any other surface waters.

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Notice Of Rights

1. A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at Clerk@sjrwmd.com, within twenty-six (26) days of the District depositing the notice of District decision in the mail (for those persons to whom the District mails actual notice), within twenty-one (21) days of the District emailing the notice of District decision (for those persons to whom the District emails actual notice), or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Chapter 28-106, Florida Administrative Code. The District will not accept a petition sent by facsimile (fax), as explained in paragraph no. 4 below.

2. Please be advised that if you wish to dispute this District decision, mediation may be available and that choosing mediation does not affect your right to an administrative hearing. If you wish to request mediation, you must do so in a timely-filed petition. If all parties, including the District, agree to the details of the mediation procedure, in writing, within 10 days after the time period stated in the announcement for election of an administrative remedy under Sections 120.569 and 120.57, Florida Statutes, the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, shall be tolled to allow mediation of the disputed District decision. The mediation must be concluded within 60 days of the date of the parties' written agreement, or such other timeframe agreed to by the parties in writing. Any mediation agreement must include provisions for selecting a mediator, a statement that each party shall be responsible for paying its pro-rata share of the costs and fees associated with mediation, and the mediating parties' understanding regarding the confidentiality of discussions and documents introduced during mediation. If mediation results in settlement of the administrative dispute, the District will enter a final order consistent with the settlement agreement. If mediation terminates without settlement of the dispute, the District will notify all the parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Florida Statutes, is resumed. Even if a party chooses not to engage in formal mediation, or if formal mediation does not result in a settlement agreement, the District will remain willing to engage in informal settlement discussions.

3. A person whose substantial interests are or may be affected has the right to an informal administrative hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must also comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

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4. A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8:00 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at *sjrwmd.com*. These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile is prohibited and shall not constitute filing.

5. Failure to file a petition for an administrative hearing within the requisite timeframe shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, Florida Administrative Code).

6. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. A person whose substantial interests are or may be affected by the District's final action has the right to become a party to the proceeding, in accordance with the requirements set forth above.

7. Pursuant to Section 120.68, Florida Statutes, a party to the proceeding before the District who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

8. A District action is considered rendered, as referred to in paragraph no. 7 above, after it is signed on behalf of the District and filed by the District Clerk.

9. Failure to observe the relevant timeframes for filing a petition for judicial review as described in paragraph no. 7 above will result in waiver of that right to review.

NOR.Decision.DOC.001
Revised 12.7.11

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NOTICING INFORMATION

Please be advised that the St. Johns River Water Management District will not publish a notice in the newspaper advising the public that it has issued a permit for this project.

Newspaper publication, using the District's notice form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit for someone to file a petition for an administrative hearing to challenge the issuance of the permit.

To close the point of entry for filing a petition, you may publish (at your own expense) a one-time notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice to close the point of entry, the time to challenge the issuance of your permit will not expire and someone could file a petition even after your project is constructed.

A copy of the notice form and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit of publication. In that event, it is important that you either submit a scanned copy of the affidavit by emailing it to *compliancesupport@sjrwmd.com* (preferred method) **or** send a copy of the original affidavit to:

Office of Records and Regulatory Support
4049 Reid Street
Palatka, FL 32177

If you have any questions, please contact the Office of Records and Regulatory Support at (386) 329-4570.

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Christopher Pogue
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NOTICE OF AGENCY ACTION TAKEN BY THE
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Notice is given that the following permit was issued on _____:

(Name and address of applicant) _____
permit#_____. The project is located in _____County, Section _____, Township _____ South, Range _____ East. The permit authorizes a surface water management system on _____ acres for _____ known as _____. The receiving water body is _____.

A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code (F.A.C.), the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P.O. Box 1429, Palatka FL 32178-1429 (4049 Reid St, Palatka, FL 32177) or by e-mail with the District Clerk at Clerk@sjrwmd.com, within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes (F.S.), and Chapter 28-106, F.A.C. The District will not accept a petition sent by facsimile (fax). Mediation pursuant to Section 120.573, F.S., may be available and choosing mediation does not affect your right to an administrative hearing.

A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at www.sjrwmd.com. These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile (fax) is prohibited and shall not constitute filing.

The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. **Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, please visit http://www.sjrwmd.com/nor_dec/ to read the complete Notice of Rights to determine any legal rights you may have concerning the District's decision(s) on the permit application(s) described above. You can also request the Notice of Rights by contacting the Director of Office of Records and Regulatory Support, 4049 Reid St., Palatka, FL 32177-2529, tele. no. (386)329-4570.

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NEWSPAPER ADVERTISING

ALACHUA
Gainesville Sun, Legal Advertising
2700 SW 13th Street
Gainesville, FL 32608
866-858-9652

BAKER
Baker County Press, Legal Advertising
P. O. Box 598
Maclenny, FL 3206 3
904-259-2400/ fax 904-259-6502

BRADFORD
Bradford County Telegraph, Legal Advertising
P. O. Drawer A
Starke, FL 32901
904-964-6305/ fax 904-964-8628

BREVARD
Florida Today, Legal Advertising
P. O. Box 419000
Melbourne, FL 32941-9000
321-242-3832/ fax 321-242-6618

CLAY
Clay Today, Legal Advertising
1560 Kinsley Ave., Suite 1
Orange Park, FL 32073
904-264-3200/ fax 904-264-3285

DUVAL
Daily Record, Legal Advertising
P. O. Box 1769
Jacksonville, FL 32201
904-356-2466 / fax 904-353-2628

FLAGLER
Flagler Tribune, c/o News Journal
P. O. Box 2831
Daytona Beach, FL 32120-2831
386- 681-2322

INDIAN RIVER
Treasure Coast News
760 NW Enterprise Dr.
Port St. Lucie, FL 34986
772-283-5252

LAKE
Daily Commercial, Legal Advertising
P. O. Drawer 490007
Leesburg, FL 34749
352-365-8235/fax 352-365-1951

MARION
Ocala Star Banner, Legal Advertising
2121 SW 19th Avenue Road
Ocala, FL 34474
352-867-4010/fax 352-867-4126

NASSAU
News-Leader, Legal Advertising
P. O. Box 766
Fernandina Beach, FL 32035
904-261-3696/fax 904-261-3698

OKEECHOBEE
Okeechobee News, Legal Advertising
P. O. Box 639
Okeechobee, FL 34973-0639
863-763-3134/fax 863-763-5901

ORANGE
Sentinel Communications, Legal Advertising
633 N. Orange Avenue
Orlando, FL 32801
407-420-5160/ fax 407-420-5011

OSCEOLA
Little Sentinel, Legal Advertising
633 N. Orange Avenue
Orlando, FL 32801
407-420-5160/ fax 407-420-5011

PUTNAM
Palatka Daily News, Legal Advertising
P. O. Box 777
Palatka, FL 32178
386-312-5200/ fax 386-312-5209

ST. JOHNS
St. Augustine Record, Legal Advertising
P. O. Box 1630
St. Augustine, FL 32085
904-819-3439

SEMINOLE
Sanford Herald, Legal Advertising
300 North French Avenue
Sanford, FL 32771
407-323-9408

VOLUSIA
News Journal Corporation, Legal Advertising
P. O. Box 2831
Daytona Beach, FL 32120-2831
(386) 681-2322

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Christopher Pogue
12/5/2024

Pollution Prevention

Best Management Practices (BMPs) for Erosion and Sedimentation Control at Construction Sites

The use of best management practices (BMPs) for sedimentation and erosion control for all excavations are now required. BMPs must provide equal or better protection than those currently compiled by the Florida Department of Environmental Protection.

Did you know that uncontrolled erosion run-off from a construction site will most likely end up in a creek or lake? Eroding construction sites are a leading cause of water quality problems in Florida. Turbid run-off from construction sites enters nearby storm sewer systems that discharge directly to water bodies. This cloudy water can:

- smother vegetation and other in-stream habitats,
- prevent light penetration within the water body,
- clog gills of fish and other aquatic organisms, and
- transport toxic metals and other compounds to our surface waters.



A properly installed silt fence can prevent sediments from migrating off site.

Erosion control is easy and can be relatively inexpensive. When developing your erosion control plan remember to apply the principals of erosion and sediment control:

- Fit development to the terrain
- Install protective measures before any clearing or earth moving
- Time grading and construction to minimize soil exposure
- Retain existing vegetation wherever possible
- Vegetate and mulch denuded areas
- Divert runoff away from denuded areas
- Minimize length and steepness of slopes
- Keep runoff velocities low
- Prepare conveyances and outlets to handle increased flows
- Trap sediment on site
- Inspect and maintain control measures

Did You Know???



For every acre under construction, about a dump truck and a half of soil washes into the storm system and into a nearby stream/Creek unless the contractor uses proper erosion control.

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TIPS FOR COMMONLY USED BMPs

Construction Entrances
- Remove vegetation, roots, and other material from entrance.
- Lay down geotextile then 6 inches of FDOT No. 1 Coarse Aggregate on top.
- The length of entrance must be at least 50 feet.
- Maintain as needed to prevent tracking or flow of mud onto public rights-of-way.

Silt Fences
- Install within 24 hours of land disturbance.
- Bury 8 inches of fabric in trench.
- Leave no gaps (overlap or twist ends together).
- **Maintain and repair until a ground cover is established.**

Soil Piles
- Locate away from downslope streets, driveways, streams, wetlands, lakes, etc.
- Keep covered with plastic sheeting.
- Carefully wet down exposed soil to keep dust and erosion to a minimum.

Storm Sewer Inlet Protection
- Protect nearby storm sewer inlets with straw or synthetic bale, synthetic fabric, filter sock, or other measure.
- Inspect, repair, and replace as needed, and remove sediment deposits after every storm.

Sediment Cleanup
- Remove soil tracked onto the street after each workday.
- Cleanup all soil that has washed off site following a storm.

Preserving Existing Vegetation
- Preserve existing trees, shrubs, and other vegetation whenever possible.
- To prevent root damage, do not grade, place soil piles, or park vehicles near trees marked for preservation.
- Place plastic mesh around trees extending to the drip line to protect the area below their branches.

Revegetation
- Seed, sod, or mulch bare soil as soon as possible. **Vegetation is the most effective way to control erosion.**

Seeding and Mulching
- Spread and compact 2 – 4 inches topsoil.
- Seed with appropriate mix for site and season.
- Rake lightly to cover seed with ¼ inch of soil.
- Mulch with anchored straw.
- Gently water every other day until grass is 2 inches tall.

Sodding
- Leave or replace 4 inches of topsoil.
- Lightly water soil before laying sod.
- On slopes, lay sod starting at the bottom and work toward the top, laying in a brickwork pattern. Peg each piece down in several places.
- Use sod from sources certified by the Division of Plant Industry as “noxious weed-free”.
- Initial watering should wet soil 6 inches deep. Then water lightly every other day to keep soil moist.

For additional information regarding erosion and sediment control, refer to the “Florida Development Manual: A Guide to Sound Land and Water Management” and the FDEP “Stormwater, Erosion, and Sedimentation Control Inspector Manual”.

For more information contact:

Alan Obaigbena, P.E

Florida Department of Transportation

800-749-2967 extn 7064

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Christopher Pogue
12/5/2024

Information Requiredfor Dewatering Approvalfor FDOT Permits

Please provide the following at the time of application. If your permit was previously approved, please submit this information as soon as you recognize the need for dewatering activities:

- **Dewatering Plan, signed and sealed by a Professional Engineer of a Professional Geologist, which addresses the following:**
  - Project Background and dewatering requirements
  - Plan and profile view of dewatering systems
  - Subsurface soil and groundwater conditions in the project area
  - The hydraulic conductivity of the sub-soils present at the site
  - The nature, locations, and depths of subsurface installations for the dewatering systems
  - The nature, locations, and detailed dewatering pump(s) information
  - The general route of discharge and all points of discharge
  - The estimated groundwater extraction and discharge rates for system
  - The Best Management Practices to control turbidity and erosion at the discharge location.
- **FDEP Generic Permit for Discharge of Produced Ground Water from Non-Contaminated Site Activity**
- **WMD Noticed General Permit for Short Term Construction Dewatering Activities will be required if :**
  - Withdrawal is over 300,000 gallons per day
  - Withdrawal exceeds 30 days duration
  - The capacity of the pump is over 1,000,000 gallons per day

A Short-Term Construction Dewatering Permit can be issued for activities when:

1. The withdrawal method is a well-point system or vacuum underdrain (sock).
2. A hydraulic pump is used to maintain or repair existing permitted systems, and discharges through the permitted control structure.
3. The withdrawal method does not discharge directly into an OFW, Class I or Class II water body ("not directly" means a mixing zone or dispersal method must be employed).
4. The withdrawal method cannot be used on lands used for industrial purposes or landfills.
5. The maximum total withdrawal does not exceed 180 million gallons (maximum daily for first 5 days (<6 mgd, thereafter <4 mgd. Average daily for first 60 days = 2 mgd and = 1 mgd for duration).
6. The maximum duration does not exceed 180 days.
7. Turbidity control measures are in place when needed.
8. No adverse impacts occur off-site.

Note A – Exceeding the above Short-Term Construction Dewatering Permit thresholds will require a general or individual CUP based on project rate/volume thresholds.

Note B – Dewatering projects with numerous phases and/or contractors may not qualify for Short-Term Construction Dewatering Permits based on the connectivity/complexity of the project and will be assessed on a case-by-case basis.

- **Proposed steps and effort to be taken to prevent offsite flooding, if not addressed in the Dewatering Plan.**

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Christopher Pogue
12/5/2024

CHW
AN NV5 COMPANY

Florida Department of Transportation
3600 DOT Rd,
St. Augustine, FL 32084

October 30, 2024

Dear Staff,

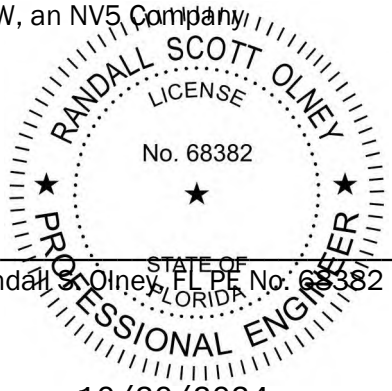
The Central St. Johns Sportsplex project proposes the construction of a regional athletic facility with tournament-style lighted multipurpose fields, a stadium multipurpose field, restrooms, and associated pavement for sidewalks, lighted parking lots, and utilities in St. Augustine, FL.

The project site is located within the watershed for a master FDOT pond, Pond 13, previously permitted under St. Johns River Water Management District ERP #113964-30 in 2021 and constructed as a part of the CR-16A roadway project. The permitted stormwater report states a 65% impervious buildout for the future ±38.60 ac. drainage area immediately east of the permitted pond, resulting in ±25.09 ac. of permitted impervious area and an SCS curve number value of 92.

The subject property will contain ±22.43 acres of impervious area which includes two large artificial turf fields that have conservatively been considered impervious for the purpose of this calculation. The result is a total impervious area which encompasses ±58% of the post development watershed as well as a curve number value will be 90. The site will drain to onsite inlets into a stormwater pipe conveyance system and to the existing master pond, Pond 13. Therefore, the proposed development is in compliance with the existing permit and there exists sufficient stormwater treatment and flood attenuation capability to meet the permitting requirements within the existing system. The proposed connection is in conformance with the FDOT Pond 13 design.

Please refer to the attached plan set for more information. We trust that you will find this application complete and sufficient for review and approval for a drainage connection permit. Should you have any questions, please contact me at 352-331-1976 or at randy.olney@nv5.com

Sincerely,
CHW, an NV5 Company



Randall S. Olney, FL PE No. 68382

10/30/2024
Date

This item has been digitally signed and sealed by Randall Scott Olney, FL PE on the date adjacent to the seal

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

Project Number: 22-0073
Project Name: SJC Sportsplex
Calculated by: JHP
Checked by: RSO
Date: 10/30/2024

IMPERVIOUS AREA CALCULATIONS

Post-Development Watershed #1 (Post DA-1):

Impervious Area	582,152	s.f.	13.36	ac.
Artificial Turf Area	395,000	s.f.	9.07	ac.

Total Area:	1,681,416	s.f.	38.60	ac.	CN	CN * Area	% of Site
Total Impervious Area	977,152	s.f.	22.43	ac.	98	2198.37	58%
Open Space (Type 'D' Soils)	704,264	s.f.	16.17	ac.	80	1293.41	42%

Composite CN: 90

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

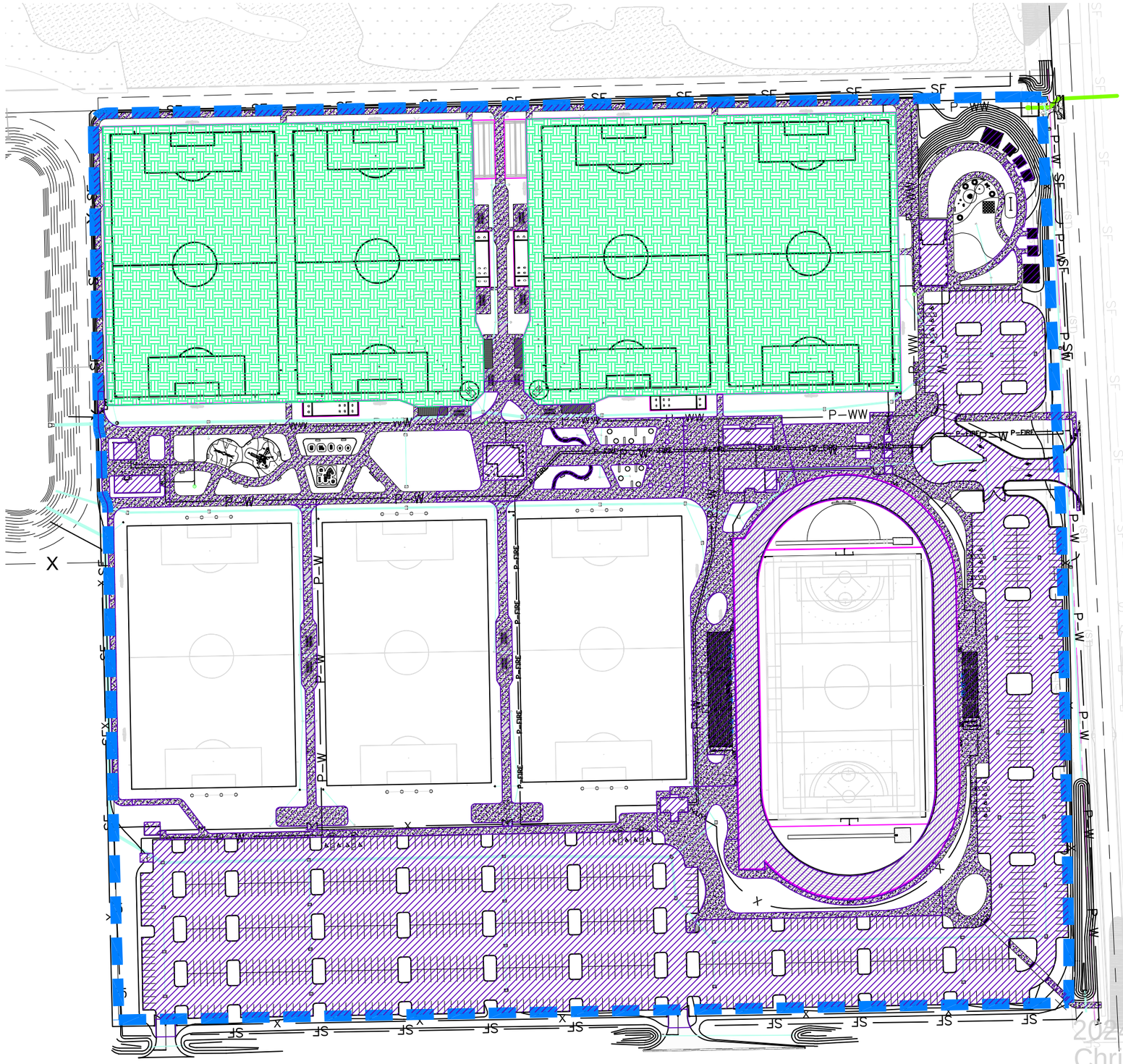
Exhibit "C"
St. Johns County Permit with FDOT

LEGEND

POST-DEVELOPMENT WATERSHED #1:

PROPOSED ARTIFICIAL TURF AREAS:

PROPOSED ONSITE IMPERVIOUS AREA:



422938-8-52-01 CR 16A Pond

111

1801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-0015
CHW
Professional Consultants

SCALE: 1"=150'

VERIFY SCALE BAR IS CORRECT FOR ORIGINAL DRAWING.

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION RECORDS

SUBMITTALS

CLIENT: CAUSSEAUX, HEWETT, & WALPOLE, INC.
ENGINEERING - SURVEYING - PLANNING

PROJECT: ST. JOHNS SPORTSPLEX

SHEET TITLE: 1

TECHNICIAN:

DESIGNER:

QUALITY CONTROL:

PROJECT NUMBER: 22-0073

SHEET NO.: 1

Approved
2024-D-297-00042
Christopher Pogue
12/5/2024

St. Johns River
Water Management District
Michael A. Register, P.E., Executive Director

525 Community College Parkway S.E. • Palm Bay, FL 32909 • 321-984-4940 • www.sjrwmd.com

July 09, 2026

Van Humphreys
FDOT - District 2
1109 S Marion Ave
Lake City, FL 32025-5874
Send via email: van.humphreys@dot.state.fl.us

Re: As-Built Response Letter; First Coast Expressway - Pond 13 Modification
Permit Number 113964-30; Item Number 1420358
(Please reference the permit/item number on all correspondence.)

Dear Mr. Humphreys:

The St. Johns River Water Management District ("District") is in receipt of the As-Built Certification, on form number 62-330.310(1) ("As-Built Certification Form") for the above referenced permit on July 9, 2026.The "As-built Certification Form" was signed and sealed by a "Registered Professional" as required by Section 12.2(1), Applicant's Handbook, Vol. I.

Based on the certification of the received information by a registered professional, the system was constructed in accordance with the approved permitted plans. As such, the permitted project is now in the operation and maintenance phase. Rule 62-330.310(1), Florida Administrative Code (F.A.C.). Please note that this permit remains in the name of the original permittee and has not been transferred to a new operation and maintenance entity.

To transfer the operation and maintenance phase permit to a new entity, please submit form 62-330.310(2), ("Request for Transfer of Environmental Resource Permit to the Perpetual Operational Maintenance Entity Form"). It is vital to include all necessary information. Failure to submit the appropriate final documents will result in the original permittee remaining liable for operation and maintenance of the permitted activities.

Future inspections may be needed to ensure continued compliance with State law and District rules. Furthermore, should it be determined that the "As-Built Certification Form" at the time of submittal did not sufficiently or correctly certify the system, additional corrective action will be necessary to bring the project into compliance with the District's rules and Florida Statutes.

The District encourages you to review the conditions unique to your project. Some projects may require frequent inspections, maintenance, or submittals due to the type of system approved and/or the geographical location. At a minimum, the operation and maintenance (O&M) entity must inspect the stormwater/surface water management system once every two years to determine whether the system is functioning as designed and permitted. The District asks that the O&M entity maintain a record of the inspection and have it available upon request. If the system is not functioning as designed and permitted, please submit to the District an Operation and Maintenance Inspection Certification, on form number 62-330.311(1).

GOVERNING BOARD

Rob Bradley, CHAIR, FLEMING ISLAND
Maryam H. Ghyabi-White, VICE CHAIR, ORMOND BEACH
J. Chris Peterson, SECRETARY, WINTER PARK
Cole Oliver, TREASURER, MERRITT ISLAND
Ryan Atwood, MOUNT DORA
Doug Bournique, VERO BEACH
Douglas Burnett, ST. AUGUSTINE
Ron Howse, COCOA
Janet Price, FERNANDINA BEACH

As noted in this letter, the submittal of the As-Built Certification does not transfer the permit to a new entity. Therefore, please notify the District within 30 days of any sale, conveyance or any other transfer of a permitted stormwater/surface water management system or the real property on which the system is located, as required by Rule 62-330.340, F.A.C. This notification will assist the District in the permit transfer process and to ensure that the correct entity is the holder of the legal permit.

Thank you for your cooperation. If you have any questions, please contact Katherine von Canal at (321) 473-1330 or KvonCanal@sjrwmd.com.

Sincerely,

Katherine von Canal
Senior Regulatory Information Specialist
Office of Records and Regulatory Support

CC: Regulatory File

Daniel Welch
ETM

EXHIBIT “E”
(Resolution)