

LEON COUNTY  
DEPARTMENT OF DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT  
ENVIRONMENTAL MANAGEMENT PERMIT

TO SPEAK TO AN ENVIRONMENTAL INSPECTOR, CALL (850) 606-1300.

PERMIT EXPIRES THIRTY-SIX (36) MONTHS FROM ISSUANCE PER ARTICLE 5, SECTION 7-41(4)(A)(1), ENVIRONMENTAL MANAGEMENT ACT

PERMIT EXPIRES: 02/05/2022

PERMIT #: LEM1800044  
PROJECT NAME: CENTERVILLE TRACE POND OUTFALL  
LOCATION: STRUCTURE REPLACEMENT  
PERMITTEE: 3642 Oxhill Ct

DATE ISSUED: 02/05/2019  
PARCEL TAX ID: 111004 C0010

FEE INFORMATION	
Env Tree Removal Permit Fee	114.00
Stormwater Standard Form	2,588.08
TOTAL FEES:	2,702.08
TOTAL PAYMENTS	2,702.08
BALANCE:	0.00



*John P. Kraynak*  
John P. Kraynak, Director  
Compliance Division  
Environmental Services Division

John P. Kraynak, Director  
Environmental Services Division

ACCEPTANCE OF THIS PERMIT ACKNOWLEDGES PERMISSIONS FOR LEON COUNTY PERSONNEL TO INSPECT AT REASONABLE TIMES THE PROPERTY AND WORK ASCRIBED IN THIS PERMIT. FAILURE TO POST THE PERMIT PLACARD IN A CONSPICUOUS PLACE ON-SITE OR FAILURE TO HAVE THE APPROVED PERMIT AND PLANS AVAILABLE ON-SITE MAY RESULT IN THE IMMEDIATE ISSUANCE OF A STOP WORK ORDER.

**BOARD OF COUNTY COMMISSIONERS  
LEON COUNTY**  
DEPARTMENT OF DEVELOPMENT SUPPORT AND ENVIRONMENTAL  
MANAGEMENT

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**CENTERVILLE TRACE  
OUTFALL STRUCTURE REPLACEMENT**

**ENVIRONMENTAL MANAGEMENT PERMIT  
LEM18-00044**

**A Pre-Construction Conference with the County Environmental Inspector is required.**  
**(Contact Ms. Brittany Varn at 850-606-1358 or 850-544-0828 to schedule.)**

This environmental management permit authorizes construction (i.e. grading, stormwater conveyance, berm stabilization, etc.) associated with the proposed outfall structure replacement of parcel ID. No.: 11-10-04- -000 1, 11-10-04- -000 2, 11-10-04- C-001 0, 11-10-04- C-002 0, & 11-10-04- C-024 0 in Leon County, consistent with the attachments and exhibits identified below.

Attachment A: Permit Conditions  
Exhibit A: Approved Plans (Permit Plan Set)

The permittee should be familiar with the permit conditions and all other attachments and exhibits included in this permit prior to the commencement of development activity. Failure to conform to this permit may cause appropriate enforcement action to be taken that could include a "Stop Work Order" or a "Notice of Violation".

Approved By:



Approved By: Nawfal Ezzagaghi 2/5/2019

\_\_\_\_\_  
John Kraynak, P.E., Director  
Environmental Services  
MRW

\_\_\_\_\_  
Date

**ATTACHMENT "A"**  
**PERMIT CONDITIONS:**  
**CENTERVILLE TRACE**  
**OUTFALL STRUCTURE REPLACEMENT**

**GENERAL CONDITIONS:**

1. The permittee shall conduct all development activity consistent with the "Environmental Management Act," Article VII, Chapter 10 of the Leon County Land Development Code. **Reference Section 10-4.105.**
2. *Posting of placards.* A placard indicating issuance of a valid permit shall be posted in a conspicuous place on site at all times during the development activity. **Reference Section 10-4.203(c)(1).**
3. *Permit and plans on-site.* A copy of the approved permit and plans (Exhibit "A" and subsequent approved contractor "Shop Drawings") shall be available on site at all times when any development activity is occurring on the site. **Reference Section 10-4.203(c)(2).**
4. *Notice of intent to proceed and Pre-Construction Conference.* A notice of intent to proceed shall be filed with the Director at least three (3) working days prior to initiation of any physical development activity on the site. The notice shall specify the site location and the permit number(s) applicable to the activity and shall specify the date and approximate time at which such physical development activity is to commence. A pre-construction conference will be scheduled and required prior to the commencement of any development activity. **Reference Section 10-4.203(c)(3).**
5. *Environmental Management Officer.* This individual shall be in responsible charge of all on-going work on the site and ensure that all work is proceeding according to the approved plans and permit. The designated environmental management officer must ensure that during such time as the officer is not personally present on the site a designated alternate remains in responsible charge of the project. For this project, the Environmental Management Officer shall be determined at the pre-construction conference. **Reference Section 10-4.203(c)(6).**
6. *Permit Expiration.* This Environmental Management Permit expires 36 months after issuance. **Reference Section 10-4.214(1)(a).**
7. *Extensions.* Permits may be extended, by request of the applicant and approval of the Director, for successive periods of time not to exceed 36 months each, provided the request for extension is made prior to the expiration of the prior approval and provided continuous good faith efforts have been made to complete the development. **Reference Section 10-4.214(1)(b).**
8. *Early expiration for cause.* If no substantial and readily observable site development activity has taken place within 18 months of the issuance of the permit or, once development is started, if no such development activity occurs for any 12 consecutive months, the Director may, after notifying the permittee and providing an opportunity for hearing, determine the permit to be expired and shall so notify the permittee. Such a permit may not thereafter be extended. **Reference Section 10-4.214(1)(c).**

9. *Effect of permit expiration.* Once a permit has expired, no further development activity may proceed on the permitted development site unless and until a new permit is received for the development site and activity. **Reference Section 10-4.214(3).**
10. *Continued responsibility under expired permit.* An expired permit shall not relieve the permittee from the responsibility of continued compliance with this permit and the Code. Where development has commenced and no final inspection completed before expiration of a permit, the permittee may be required to submit, and obtain the Director's approval of a new environmental management permit application or an application for amendment of the expired permit. As an option, the permittee may be required to complete and maintain the landscaping, trees, or stormwater management systems and facilities which were required by the expired permits, as necessary to prevent significant adverse environmental impacts as a result of development activity which has occurred on the site. **Reference Section 10-4.214(3).**
11. *Notice of transfer of permit.* No later than ten (10) days after the sale or legal transfer of property upon which a stormwater management facility has been, or is approved to be, constructed pursuant to a permit issued by the County, a notice of transfer of permit shall be submitted to the Director. The notice shall be made using a form provided by the Director. **Reference Section 10-4.214(5)(a).**
12. *Transfer liability.* Until a proper notice of permit transfer is provided to the Director, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions required as a result of any violations occurring prior to transfer. For facilities that have received final inspection approval prior to the time of legal transfer, the original permittee shall remain liable for performance of warranty obligations as set forth in **Section 4.208(d)**, absent an express assumption of liability as to such warranty obligations by the subsequent holder of the property. **Reference Section 10-4.214(5)(b).**
13. *Amendments.* Any minor change or deviation from the approved plans shall require an amendment to this permit. Substantial changes, including significant increases in impervious area, changes in intended land use, modification of stormwater management system, new phases of development, or other additions, shall not be treated as amendments, but shall require a new permit application. **Reference Section 10-4.215.**
14. *During development.* All environmental management controls and facilities shall be maintained in a manner which will ensure proper functioning and protection from unnecessary environmental degradation, throughout the development process. **Reference Section 10-4.210(a).**
15. *Post-development.* Upon completion of development activities and construction, the permittee shall ensure that each site is properly stabilized, and that swales and other stormwater management features shown in the permit are in place in a manner consistent with the permit, approved plans and specifications. **Reference Section 10-4.210(b).**
16. *Post-construction inspection.* Prior to requesting a final inspection by the Director, the permittee shall have a qualified professional to personally inspect the site and facilities and certify as provided for in **Section 10-4.208(b).**

**SPECIFIC CONDITIONS:**

1. *Permit Scope.* As shown in Exhibit "A" (the permit plan set), this permit authorizes the construction of infrastructure (i.e. grading, stormwater conveyance, berm stabilization, etc.) associated with the proposed outfall structure replacement of parcel ID. No.: 11-10-04- -000 1, 11-10-04- -000 2, 11-10-04- C-001 0, 11-10-04- C-002 0, & 11-10-04- C-024 0 in Leon County consistent with the attachments and exhibits accompanying this permit.
2. *Licensed contractors.* All excavation, grading work, and other site work shall be performed under the supervision of a certified or registered general contractor, building contractor, residential contractor, commercial or residential pool/spa contractor, or underground utility contractor, or by an excavation, grading and site contractor duly licensed by the County Contractors Licensing Board. **Reference Section 10-4.203(c)(5).**
3. *Notification of Easements.* A copy of any required easements, with proof of recording, shall be provided to the county administrator or designee prior to final inspection. Where transfer of title for any affected parcel is proposed, the owner shall provide clear information to each prospective buyer prior to execution of any contracts, about the existence, impacts, and responsibilities associated with any easements on the property. A copy of the applicable easements shall be provided by the owner to each prospective purchaser prior to closing, and the copy shall be initialed by the parties and attached to such closing documents upon execution. **Reference Section 10-4.203(c)(8).**
4. *Stormwater management facility operating permit.* No stormwater management facility shall be utilized until a stormwater management operating permit is obtained. An operating permit is not required for facilities which have as their primary function the conveyance of stormwater, facilities under construction as part of an approved development plan, and temporary facilities which are part of an erosion and sediment control plan. **Reference Section 10-4.209(a).**
5. *Required disclaimers.* Any contract for the conveyance of title to land for which stormwater management is provided by a system or facility not maintained by the County or the City of Tallahassee shall contain the following statement: "Neither Leon County nor the City of Tallahassee is responsible for the maintenance, upkeep or improvement of any stormwater management facility utilized by the land described herein. Title to this property carries with it the requirement that the current and all subsequent owners or their authorized agent obtain a stormwater management facility operating permit from the County. The owner of this property shall be legally responsible, jointly with other owners using the facility and based on pro rata share, for compliance with all stormwater management facility operating permit maintenance and operation requirements, as well as all other permit conditions, unless such maintenance and operation obligations have been specifically assumed by some other entity pursuant to Director approval and appropriate documentation recorded in the public records of Leon County." **Reference Section 10-4.210(d).**
6. *Landscape and tree maintenance, if applicable.* All landscaping, landscaped areas, landscape development, buffer areas, and trees required as part of this permit shall be maintained and used pursuant to **Sections 10-4.348(b), 10-4.355, 10-4.209(f)(1)(h), 10-4.209(g)(7) and 10-4.211** of the Land Development Code and shall be checked for compliance during the operating permit renewal process.
7. *Intergovernmental Transfer.* If at any time, the City of Tallahassee (the "City") annexes the permitted development into its corporate boundary, then this permit shall be transferred to the City with all

- provisions fully enforceable by the City. The City shall assume the role of the County in each provision of this permit.
8. *System Evaluation & Redesign.* At any time, should the County determine that the stormwater management system, stormwater pollution prevention plan, landscape plan, or any maintenance program is not functioning as designed, the County may request a system evaluation to determine compliance. The Permittee shall have thirty (30) days to evaluate the discrepancy and respond. Should the Permittee verify that a discrepancy exists, then the Permittee shall have sixty (60) days to redesign and implement the appropriate redesign necessary to correct the discrepancy. This process does not apply to any event of noncompliance with the permit and approved plans, in which case the enforcement provisions of the Environmental Management Act shall apply.
  9. *Termination of Permit.* The requirements, responsibilities and obligations of the Permittee in the General Conditions, Specific Conditions, and Special Conditions shall never expire with this permit. The Permittee may terminate such requirements, responsibilities and obligations either by an appropriate transfer as prescribed in Paragraph 12 of the General Conditions or by closing the development in a manner guaranteeing the preservation of natural areas, conservation easement areas, and/or other protected areas. Such closure shall require the submittal and approval of a short form environmental management permit which states appropriate plans to close the project in a manner that will ensure compliance with the Environmental Management Act upon and after termination of responsibility. **Reference Section 10-4.214(1)(c).**
  10. *Other Permits.* This permit is issued with the condition that the applicant procure and comply with all other necessary federal, state, and local agency permits, including but not limited to the Florida Department of Environmental Protection (FDEP) permit, Florida Department of Transportation (FDOT) drainage and/or access connection permits, NPDES permit and Leon County driveway connection permit. These permits must be provided to the environmental inspector prior to the start of construction. **Reference Section 10-4.201(f).**
  11. *Construction or repair of buildings, excavation of streets and highways:* The construction, demolition, alteration or repair of any building or the excavation of streets and highways other than between the hours of 7:00 a.m. and 8:00 p.m. on weekdays and Saturdays and between 9:00 a.m. and 5:00 p.m. on Sundays. This prohibition does not apply to the delivery and installation of concrete and other materials associated with residential slab installation. In cases of emergency, construction or repair noises are exempt from this provision. **Reference Section 12-56(10).**

**SPECIAL CONDITIONS:**

As shown in Exhibit “A” (the permit plan set), this permit authorizes the construction of infrastructure (i.e. grading, stormwater conveyance, berm stabilization, etc.) associated with the proposed outfall structure replacement of parcel ID. No.: 11-10-04- -000 1, 11-10-04- -000 2, 11-10-04- C-001 0, 11-10-04- C-002 0, & 11-10-04- C-024 0 in Leon County consistent with the attachments and exhibits accompanying this document.

1. As used herein, the term “permittee” shall refer to Leon County. This permit may be transferred to another party in accordance with the General Conditions. Upon the Director’s approval of a Notice of Transfer of Permit, the term “permittee” shall refer to the new property owner(s) identified in this approved notice. The permittee shall ensure that all contractors and other agents authorized by the permittee to conduct the permitted development activities abide by the terms and conditions of this permit
2. The permittee or permittee’s authorized agent shall contact the County Environmental Inspector (hereinafter “inspector”) to arrange a pre-construction conference prior to the commencement of any construction/development activities. The inspector for this project is Ms. Brittany Varn who may be contacted at 850-606-1358 or 850-544-0828.
3. Development activities involving any retaining wall greater than two feet in height shall not commence until a building permit has been secured for such wall. All retaining walls higher than two feet shall require design and certification by a registered professional engineer retained by the applicant.
4. Additional silt fences or other sediment/erosion control devices and measures may be required, as specified by the inspector. Proposed staging areas shall be discussed with the inspector and explicitly demarcated within the site.
5. All soil excavated as part of this project shall be used on-site or properly disposed of at an approved location.
6. Prior to project completion and request for final inspection, the reforestation requirements shall be met by replanting the project area with the required 35 tree credits. All trees planted in the project area shall be rated as Florida No. 1 or better and suitable for the individual site characteristics of soil, slope, aspect, wetness, and microclimate.
7. Notwithstanding the general and specific conditions contained in this permit, this project will require submittal of the following items to the Director at least 20 days prior to the permittee/applicant’s request for final inspection and ensuing request for final certificate of occupation:
  - a. As-built plans (record drawings) with specific topographic information and a reference to the Official Record book and page of the conservation area, signed/sealed by a Florida licensed land surveyor.
  - b. Compliance Certification signed/sealed by a Florida licensed Professional Engineer.
    - i. The compliance certification shall include post-construction certification for any retaining walls greater than 2’ and specifically address whether such structure was built consistently with the approved plans and that required slope compaction and elevation have been achieved.

**In the event that any condition of this permit is subject to multiple interpretations and becomes the source of conflict that cannot be resolved onsite by the contractor and the environmental inspector, the matter shall be forwarded to the Environmental Services Director for clarification/interpretation.**

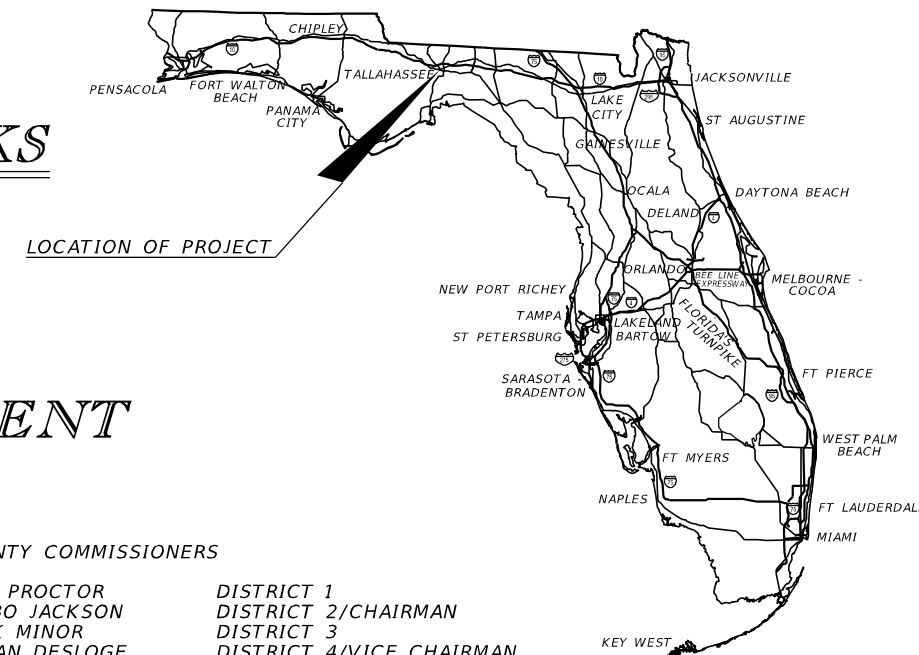
**INDEX OF DRAWINGS**

SHEET NO.	SHEET DESCRIPTION
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2	SIGNATURE SHEET
3	EXISTING CONDITIONS
4	PROJECT LAYOUT
5	GENERAL NOTES
6	TYPICAL SECTION DETAILS
7	TREE REMOVAL
8	MINIMUM EROSION CONTROL
9	LIMITS OF CONSTRUCTION/CONTRACTOR STAGING
10	PLAN
11	ACCESS ROAD PLAN-PROFILE
12	GRADING PLAN
<del>13-16</del>	<del>REPORT OF CORE BORINGS</del>
<del>17</del>	<del>TYPICAL SECTION SLOPE COMPACTION DETAILS</del>
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50	BOARDWALK DETAILS (4 OF 4)

**LEON COUNTY  
DEPARTMENT OF PUBLIC WORKS**

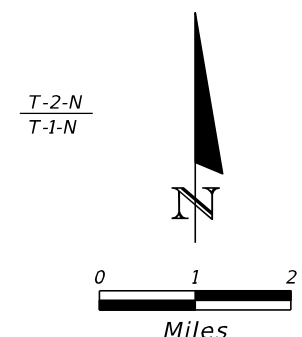
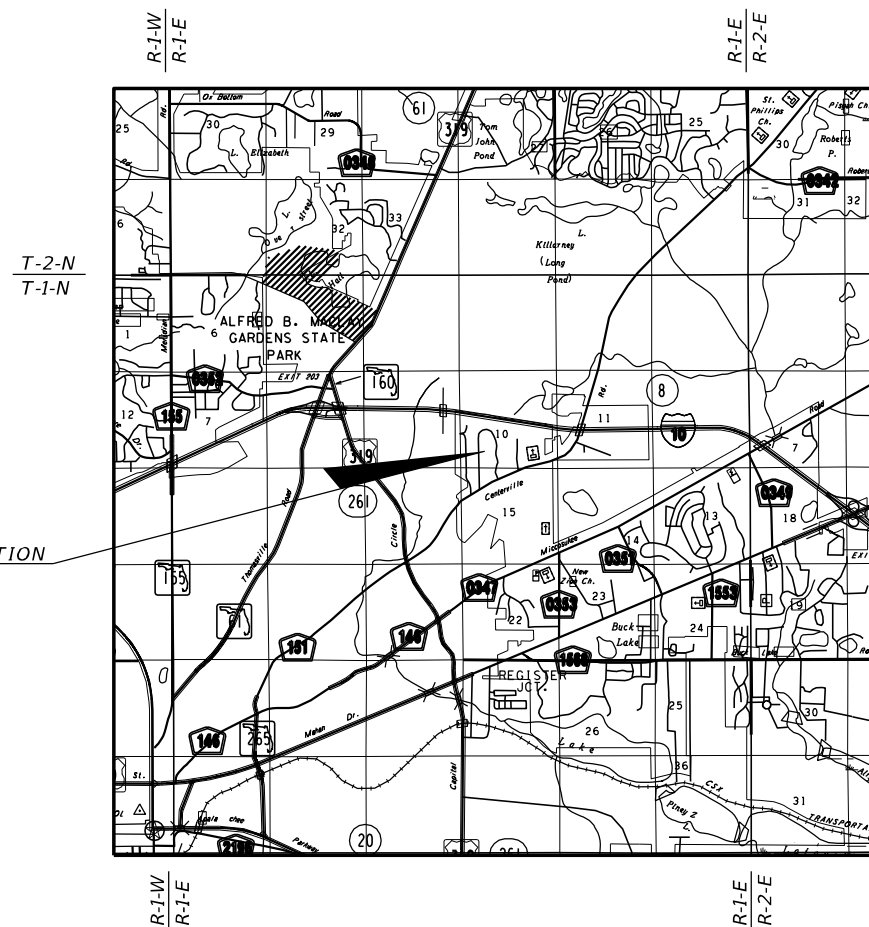
**CONSTRUCTION PLANS**

**CENTERVILLE TRACE POND  
OUTFALL STRUCTURE REPLACEMENT**



**COUNTY COMMISSIONERS**

- |                  |                          |
|------------------|--------------------------|
| BILL PROCTOR     | DISTRICT 1               |
| JIMBO JACKSON    | DISTRICT 2/CHAIRMAN      |
| RICK MINOR       | DISTRICT 3               |
| BRYAN DESLOGE    | DISTRICT 4/VICE CHAIRMAN |
| KRISTIN DOZIER   | DISTRICT 5               |
| MARY ANN LINDLEY | AT-LARGE                 |
| NICK MADDOX      | AT-LARGE                 |
| BRENT PELL, P.E. | DIRECTOR OF PUBLIC WORKS |
| VINCENT S. LONG  | COUNTY ADMINISTRATOR     |



**EXHIBIT A**

PLANS PREPARED BY:



**REGISTE, SLIGER ENGINEERING, INC.**  
 CIVIL AND STRUCTURAL ENGINEERING CONSULTANT  
 CERT. OF AUTHORIZATION # 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ENGINEER OF RECORD: JOHN F. SLIGER, II

P.E. NO.: 55550

FISCAL YEAR	SHEET NO.
19	1

**GOVERNING STANDARDS AND SPECIFICATIONS:**  
 Florida Department of Transportation, FY 2018-19 Standards Plans and revised Index Drawings as appended herein, and July 2018 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:  
<http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:  
<http://www.dot.state.fl.us/programmanagement/>

STORMWATER MANAGEMENT CONTROL OFFICER:  
 FELTON ARD, P.E. (850) 606-1500

DATE OF PREPARATION: 6/26/2018

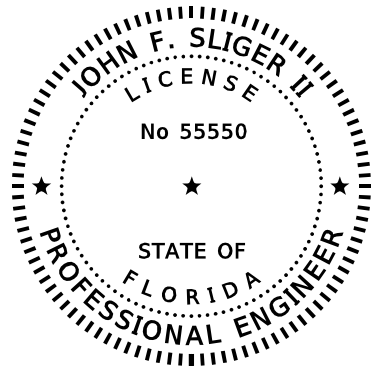
**Approved By: Nawfal Ezzagaghi 2/5/2019**

**APPROVED**  
 PERMIT NO. LEM1800044  
 DATE 2/5/2019

LEON COUNTY PROJECT MANAGER: TOM BRANTLEY, P.E.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY

**John F Sliger II**  
**2019.01.04 15:35:53 -05'00'**

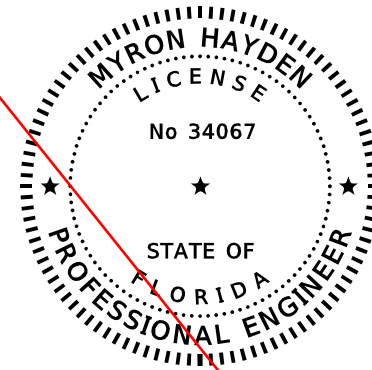
ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REGISTE, SLIGER ENGINEERING, INC.  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 CERTIFICATE OF AUTHORIZATION: 9292  
 JOHN F. SLIGER II, P.E. NO. 55550

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY

No 34067

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.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.  
 104 NORTH MAGNOLIA DRIVE  
 TALLAHASSEE, FL 32301  
 CERTIFICATE OF AUTHORIZATION: 6222  
 MYRON HAYDEN, P.E. NO. 34067

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
13-16	REPORT OF CORE BORINGS
17	TYPICAL SECTION SLOPE COMPACTION DETAILS

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

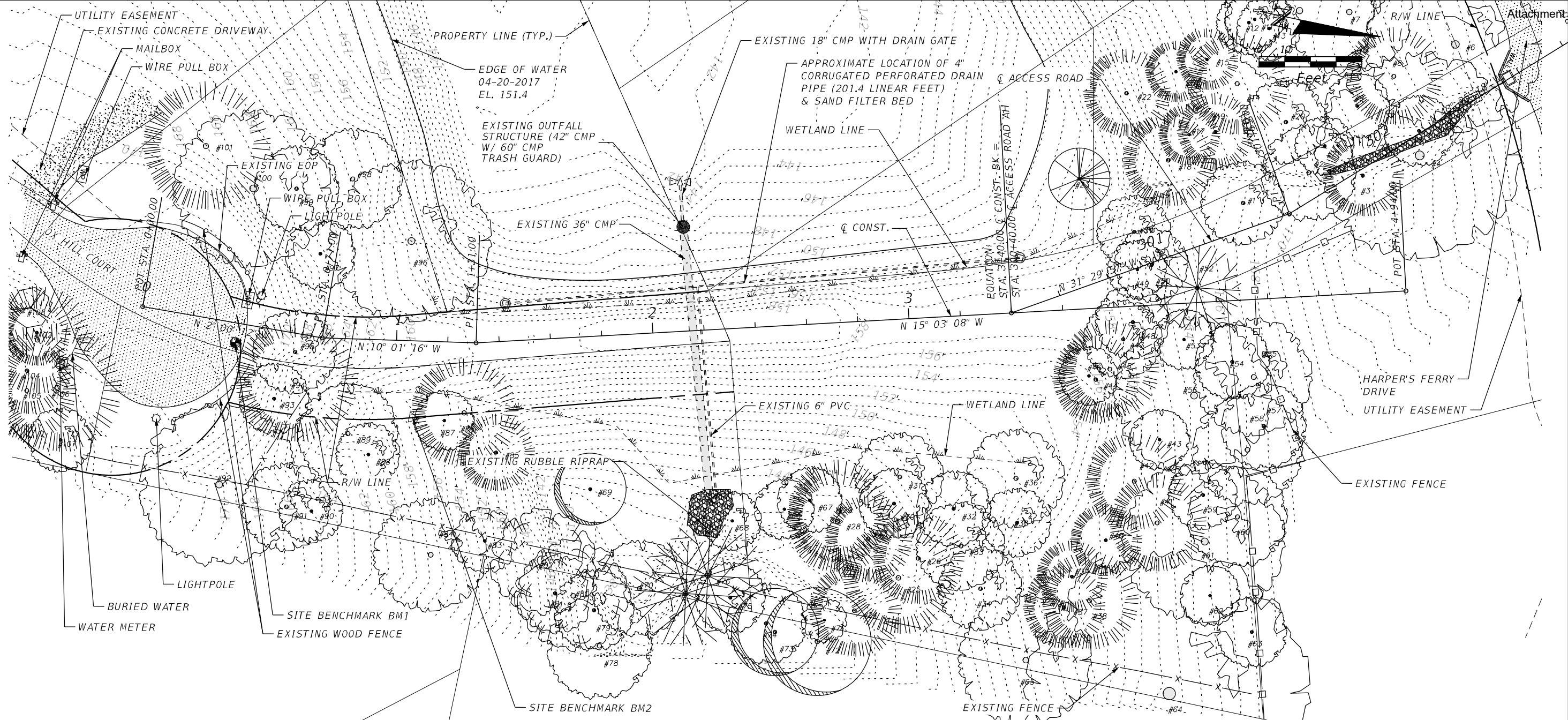


**REGISTE, SLIGER ENGINEERING, INC.**  
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
 P.E. LICENSE NUMBER 55550  
 CERTIFICATE OF AUTHORIZATION: 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505



**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

<b>SIGNATURE SHEET</b>	SHEET NO. <b>2</b>
PROJECT NAME: <b>CENTERVILLE TRACE POND STRUCTURE REPLACEMENT</b>	



TREE TABLE

NO.	DBH (IN.)	DESCRIPTION	NO.	DBH (IN.)	DESCRIPTION	NO.	DBH (IN.)	DESCRIPTION	NO.	DBH (IN.)	DESCRIPTION	NO.	DBH (IN.)	DESCRIPTION	NO.	DBH (IN.)	DESCRIPTION						
1	17	LIVE OAK	15	12	SLASH PINE	29	20	SLASH PINE	43	12	SWEET GUM	57	17	SWEET GUM	71	9	MAGNOLIA	85	15	SLASH PINE	99	17	SWEET GUM
2	19	SWEET GUM	16	12	SLASH PINE	30	14	SWEET GUM	44	17	SLASH PINE	58	22	SWEET GUM	72	21	MIMOSA	86	21	SLASH PINE	100	32	LIVE OAK
3	16	SLASH PINE	17	12	SLASH PINE	31	18	SLASH PINE	45	19	SLASH PINE	59	14	WATER OAK	73	17	MIMOSA	87	12	SWEET GUM	101	25	SLASH PINE
4	42	LIVE OAK	18	18	SLASH PINE	32	15	SWEET GUM	46	12	SHORTLEAF PINE	60	20	SWEET GUM	74	16	SWEET GUM	88	13	WATER OAK	102	13	SLASH PINE
5	14	SWEET GUM	19	15	SLASH PINE	33	18	SLASH PINE	47	16	SHORTLEAF PINE	61	33	LIVE OAK	75	14	SWEET GUM	89	20	SWEET GUM	103	21	SLASH PINE
6	36	LIVE OAK	20	17	WATER OAK	34	17	SLASH PINE	48	15	SLASH PINE	62	12	SWEET GUM	76	22	HICKORY	90	13	WATER OAK	104	17	SLASH PINE
7	26	LIVE OAK	21	12	WATER OAK	35	14	SLASH PINE	49	12	SLASH PINE	63	14	SWEET GUM	77	22	HICKORY	91	18	WATER OAK	105	19	SHORTLEAF PINE
8	19	SHORTLEAF PINE	22	17	SLASH PINE	36	20	SLASH PINE	50	15	SLASH PINE	64	58	LIVE OAK	78	21	SWEET GUM	92	32	SWEET GUM	106	25	SHORTLEAF PINE
9	13	SWEET GUM (DEAD)	23	12	PLUM	37	16	SLASH PINE	51	15	SLASH PINE	65	27	SHORTLEAF PINE	79	16	SWEET GUM	93	14	SWEET GUM	107	13	WATER OAK
10	30	SWEET GUM (POOR COND.)	24	18	SLASH PINE	38	19	SLASH PINE	52	18	HICKORY	66	12	SWEET GUM	80	22	MAGNOLIA	94	24	SLASH PINE	108	8	DOGWOOD DEAD
11	12	WATER OAK	25	22	SLASH PINE	39	14	SHORTLEAF PINE	53	12	SWEET GUM	67	13	SWEET GUM	81	16	MAGNOLIA	95	17	WATER OAK			
12	13	WATER OAK	26	18	SLASH PINE	40	14	SHORTLEAF PINE	54	15	SWEET GUM	68	12	WATER OAK	82	21	MAGNOLIA	96	33	LIVE OAK			
13	13	WATER OAK	27	17	SLASH PINE	41	19	SLASH PINE	55	24	SHORTLEAF PINE	69	14	MIMOSA	83	13	MAGNOLIA	97	14	SWEET GUM			
14	20	SLASH PINE	28	20	SLASH PINE	42	19	SLASH PINE	56	32	LIVE OAK	70	19	SWEET GUM	84	23	WATER OAK	98	20	SWEET GUM			

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

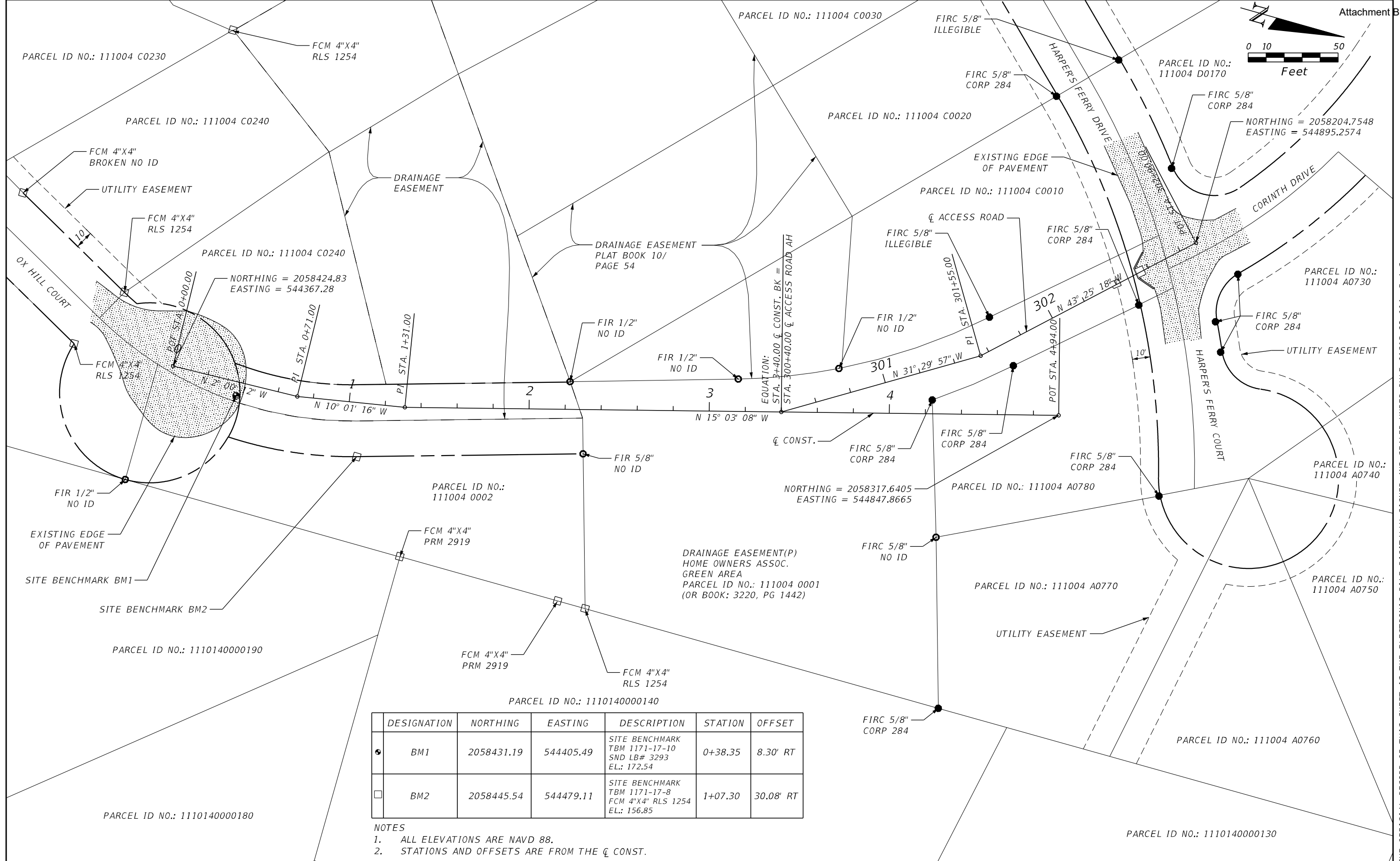
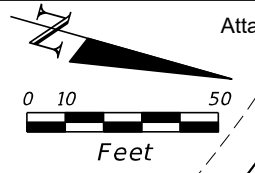
**REGISTE, SLIGER ENGINEERING, INC.**  
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
 P.E. LICENSE NUMBER 55550  
 CERTIFICATE OF AUTHORIZATION: 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**EXISTING CONDITIONS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**3**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



DESIGNATION	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
● BM1	2058431.19	544405.49	SITE BENCHMARK TBM 1171-17-10 SND LB# 3293 EL.: 172.54	0+38.35	8.30' RT
□ BM2	2058445.54	544479.11	SITE BENCHMARK TBM 1171-17-8 FCM 4"X4" RLS 1254 EL.: 156.85	1+07.30	30.08' RT

- NOTES
1. ALL ELEVATIONS ARE NAVD 88.
  2. STATIONS AND OFFSETS ARE FROM THE  $\varnothing$  CONST.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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**PROJECT LAYOUT**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**4**

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**GENERAL NOTES:**

1. HORIZONTAL COORDINATES ARE BASED ON A SURVEY COMPLETED BY NOBLES CONSULTING GROUP, INC. JOB NO. 1655-002, DATED 5/2/2017. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD88).
2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND ARE CONSIDERED APPROXIMATE ONLY. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE (OR 10 DAYS ADVANCE NOTICE IF DIGGING UNDER WATER).
4. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE. ANY MONUMENT OTHERWISE DESTROYED, DURING CONSTRUCTION WILL BE RESET BY A FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE COUNTY ENGINEER. THE CONTRACTOR SHALL PROVIDE THE COUNTY ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.
6. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE COUNTY, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE COUNTY WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE COUNTY.
7. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION BY THE COUNTY PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. THE CONTRACTOR SHALL FURNISH THE COUNTY, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE. ALL SOD SHALL BE OVER SEEDING AT THE DIRECTION OF THE COUNTY. THE COST OF OVER SEEDING SHALL BE INCLUDED IN THE COST OF THE SOD.
8. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AS NOTED ON THE PLAN SHEETS. ALL STAGING AREAS NOT SHOWN IN THE PLANS SHALL REQUIRE APPROVAL BY LEON COUNTY PUBLIC WORKS PRIOR TO CONSTRUCTION. STAGING AND STOCKPILING AREAS OUTSIDE THOSE SHOWN ON THE PLAN ALSO REQUIRE APPROVAL BY LEON COUNTY DEVELOPMENT SUPPORT & ENVIRONMENTAL MANAGEMENT (DSEM) AND MAY REQUIRE A SEPARATE ENVIRONMENTAL MANAGEMENT PERMIT FROM DSEM.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL WORK UNDER IMPROVEMENT, AT HIS COST, UNTIL SUCH TIME AS THE COUNTY ISSUES A CERTIFICATE OF COMPLETION.
10. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT WRITTEN PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND LEON COUNTY.
11. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, 3 SETS OF PLANS, CALCULATIONS, AND SPECIFICATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, FOR ANY PROPOSED CHANGES TO THE CONTRACT DOCUMENTS, TO BE REVIEWED AND APPROVED/REJECTED BY LEON COUNTY.
12. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE TAKEN INTO CONSIDERATION WHEN OBTAINING SCALED DATA.
13. IF ARCHAEOLOGICAL FEATURES OR ARTIFACTS ARE ENCOUNTERED DURING PROJECT ACTIVITIES, IMMEDIATELY CONTACT THE DEPARTMENT OF STATE, DIVISION OF HISTORIC RESOURCES.  
R.A. GRAY BUILDING 500 SOUTH BRONOUGH STREET TALLAHASSEE, FL 32399-0250 (850) 245-6333
14. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ADDITIONAL PERMITS NOT PREVIOUSLY ACQUIRED DURING DESIGN THAT ARE NECESSARY TO COMPLETE THE PROJECT. ALL COSTS FOR ALL ADDITIONAL PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
15. DURING ALL NON-WORK HOURS, NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE STORED WITHIN THE ROADWAY. ALL STORAGE AND/OR STAGING AREAS USED SHALL BE APPROVED BY LEON COUNTY.
16. ALL EXISTING FENCING THAT WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
17. IF A STRUCTURAL FAILURE IS OBSERVED DURING CONSTRUCTION THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. THE CONTRACTOR SHALL SUBMIT A REPORT PREPARED BY A REGISTERED PROFESSIONAL TO THE COUNTY FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED AT NO EXPENSE TO THE COUNTY.

18. THE CONTRACTOR SHALL COMPLY WITH THE STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE PROVIDED BY THE US FISH AND WILDLIFE SERVICE. ADDITIONAL INFORMATION REGARDING REQUIRED PRE/DURING/POST CONSTRUCTION ACTIVITIES CAN BE FOUND AT THE FOLLOWING WEBSITE:

[https://www.fws.gov/northflorida/indigosnakes/20130812\\_eastern\\_indigo\\_snake\\_standard\\_protection\\_measures.htm](https://www.fws.gov/northflorida/indigosnakes/20130812_eastern_indigo_snake_standard_protection_measures.htm)

**SEQUENCE OF CONSTRUCTION:**

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION SEQUENCE UNLESS A SEPARATE SEQUENCE IS SUBMITTED IN WRITING BY THE CONTRACTOR AND APPROVED BY LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT (DSEM).

1. PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY ENVIRONMENTAL INSPECTOR.
2. SUBMIT A DEWATERING AND TURBIDITY CONTROL PLAN TO LEON COUNTY PUBLIC WORKS FOR APPROVAL. PLANS SHALL INCLUDE PROVISIONS FOR DEWATERING TO ENSURE ALL BACKFILL AND COMPACTION IS ACCOMPLISHED UTILIZING THE DRY FILL METHOD. PLAN SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AND INCLUDE TURBIDITY TESTING REQUIREMENTS TO MEET LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. INSTALL TREE PROTECTION BARRICADES. CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE THE ROOT SYSTEM OF NEARBY TREES. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN.
4. INSTALL EROSION CONTROL DEVICES (SILT FENCE, TURBIDITY BARRIERS, ETC.) IN ACCORDANCE WITH THE PROJECT PLANS, CONTRACTOR TURBIDITY CONTROL PLANS AND FDOT STANDARD SPECIFICATIONS.
5. ESTABLISH LIMITS OF CLEARING AND GRUBBING.
6. CONSTRUCT HARPER'S FERRY DRIVE MAINTENANCE ACCESS ROAD.
7. DEWATER PER THE LEON COUNTY PUBLIC WORKS APPROVED CONTRACTOR DEWATERING PLAN.
8. REMOVE ALL DEMOLITION ITEMS, INCLUDING EXISTING CONTROL STRUCTURE, DISCHARGE PIPE, AND SAND FILTER. DISPOSE OF ALL DEMOLITION ITEMS OFF SITE IN A LEGAL MANNER.
9. CONSTRUCT ROCK FILTER AT TOE OF BERM.
10. INSTALL STEEL SHEET PILES IN ACCORDANCE WITH THE WALL CONTROL DRAWING AND THE STEEL SHEET PILE NOTES AND DETAILS. ALL PILE DRIVING ACTIVITIES SHALL OCCUR DURING NORMAL BUSINESS HOURS OF 8AM-5PM, MONDAY THRU FRIDAY.
11. INSTALL WEIR SUPPORT HELICAL PILES AND CONSTRUCT THE CONCRETE WEIR.
12. RE-GRADE THE EXISTING BERM AS SHOWN ON THE GRADING PLAN AND CROSS SECTIONS. INSTALL PROPOSED SIDE BANK SAND FILTER AND CONCRETE LINED EMERGENCY SPILLWAY.
13. CONSTRUCT TIMBER BOARDWALK
14. FINISH GRADE AND SOD AS SHOWN IN THE PLANS.
15. REMOVE ALL EROSION CONTROL DEVICES AT THE END OF CONSTRUCTION AND AFTER SITE IS STABILIZED, WITH APPROVAL FROM THE COUNTY ENVIRONMENTAL INSPECTOR.
16. SITE SHALL BE CLEANED, DEBRIS REMOVED, AND CORRECTIONS MADE TO ENSURE A PRISTINE AND NEW CONDITION FOR THE PROJECT PER THE CONSTRUCTION PLANS AND SPECIFICATIONS. SPECIFICALLY, ALL TRASH WILL BE COLLECTED, SOD REPLACED WHERE DAMAGED, AND SOILED STRUCTURES SHALL BE CLEANED.

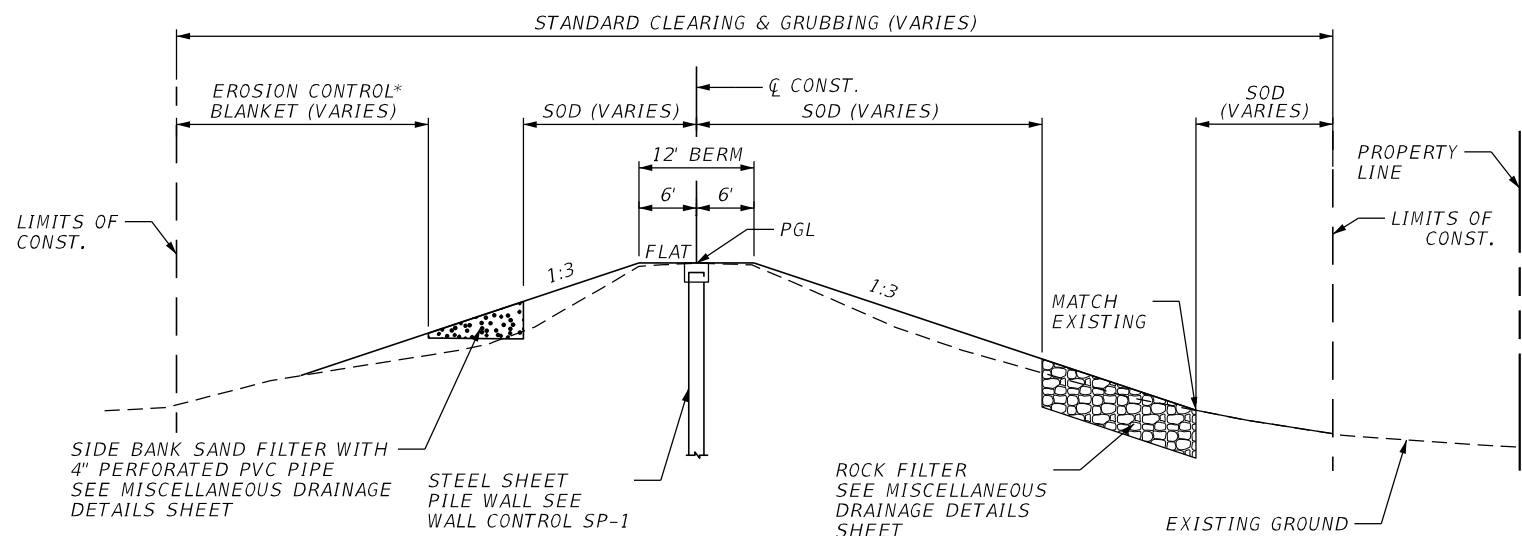
**ADDITIONAL NOTES:**

1. AS-BUILT PLANS WITH SPECIFIC TOPOGRAPHIC INFORMATION, SIGNED AND SEALED BY A FLORIDA LICENSED LAND SURVEYOR AND A COMPLIANCE CERTIFICATE SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED AND SHOULD BE SUBMITTED TO THE COUNTY AT LEAST 20 DAYS PRIOR TO THE PERMITTEE/APPLICANT'S REQUEST FOR FINAL INSPECTION. LANDSCAPE AS-BUILTS (IF REQUIRED) WILL BE SUBMITTED TO LEON COUNTY DSEM.

REVISIONS		REVISIONS		 <b>REGISTE, SLIGER ENGINEERING, INC.</b> ENGINEER OF RECORD: JOHN F. SLIGER II, P.E. P.E. LICENSE NUMBER 55550 CERTIFICATE OF AUTHORIZATION: 9292 3370 CAPITAL CIRCLE NE, SUITE J TALLAHASSEE, FL 32308 PHONE: (850) 894-4521 - FAX: (850) 224-0505	 <b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b> 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	<b>GENERAL NOTES</b>  PROJECT NAME: <b>CENTERVILLE TRACE POND                  STRUCTURE REPLACEMENT</b>	SHEET NO.  5
DATE	DESCRIPTION	DATE	DESCRIPTION				

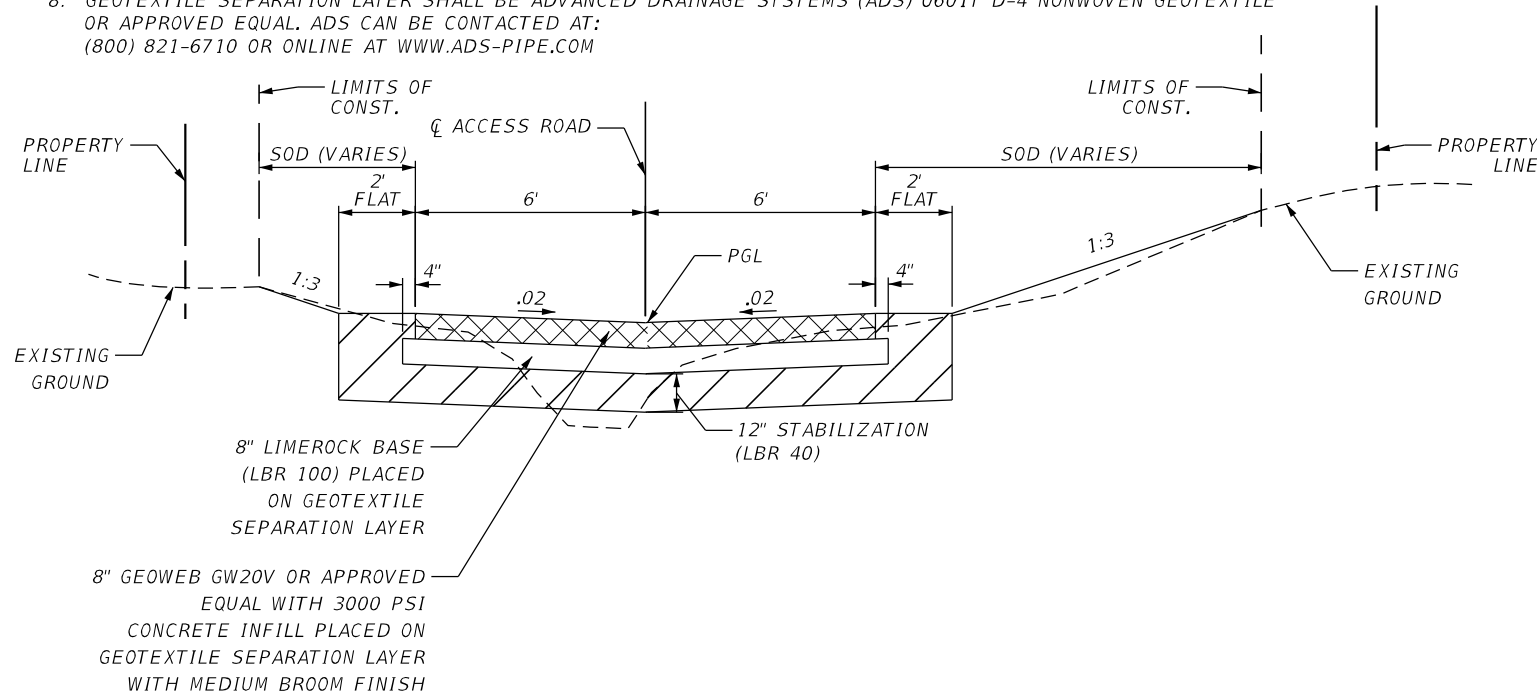
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1. GEOWEB SYSTEM SHALL BE GW20V-CELL SYSTEM MANUFACTURED BY PRESTO GEOSYSTEMS OR APPROVED EQUAL. PRESTO GEOSYSTEMS MAY BE CONTACTED AT: (800) 548-3424 OR ONLINE AT WWW.PRESTOGEO.COM
2. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE ENGINEER CALCULATIONS FOR GEOWEB LOAD SUPPORT AND ANCHORAGE REQUIREMENTS FOR HS25-44 LOADING AND/ OR ANTICIPATED CONSTRUCTION LOADS, WHICHEVER IS GREATER, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.
3. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER INCLUDING MANUFACTURER'S PRODUCT DATA, SAMPLES AND SECTION LAYOUT.
4. INSTALL CELLULAR CONFINEMENT GEOWEB SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
5. THE CELLULAR CONFINEMENT SYSTEM MATERIAL SHALL BE PROVIDED FROM A SINGLE MANUFACTURER FOR THE ENTIRE PROJECT.
6. THE MANUFACTURER'S QUALITY MANAGEMENT SYSTEM SHALL BE CERTIFIED AND IN ACCORDANCE WITH ISO 9001:2008 AND CE CERTIFICATION. ANY SUBSTITUTE MATERIALS SUBMITTED SHALL PROVIDE A CERTIFICATION THAT THEIR CELLULAR CONFINEMENT MANUFACTURING PROCESS IS PART OF AN ISO PROGRAM AND A CERTIFICATION WILL BE REQUIRED SPECIFICALLY STATING THAT THEIR TESTING FACILITY IS CERTIFIED AND IN ACCORDANCE WITH ISO. AN ISO CERTIFICATION FOR THE SUBSTITUTE MATERIAL WILL NOT BE ACCEPTABLE UNLESS IT IS PROVEN IT PERTAINS SPECIFICALLY TO THE GEOCELL MANUFACTURING OPERATIONS.
7. THE MANUFACTURER SHALL PROVIDE CERTIFICATION OF COMPLIANCE TO ALL APPLICABLE TESTING PROCEDURES AND RELATED SPECIFICATIONS. THE MANUFACTURER SHALL HAVE A MINIMUM OF 20 YEARS EXPERIENCE PRODUCING CELLULAR CONFINEMENT SYSTEMS.
8. GEOTEXTILE SEPARATION LAYER SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) 0601T D-4 NONWOVEN GEOTEXTILE OR APPROVED EQUAL. ADS CAN BE CONTACTED AT: (800) 821-6710 OR ONLINE AT WWW.ADS-PIPE.COM



TYPICAL SECTION BERM STABILIZATION

\* EROSION CONTROL BLANKET SHALL BE ECP-2 POLYPROPYLENE TURF REINFORCEMENT MAT MANUFACTURED BY EAST COAST EROSION CONTROL OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.



TYPICAL SECTION MAINTENANCE ACCESS ROAD

NOTE:  
 GEOWEB GW20V SYSTEM OR APPROVED EQUAL SHALL BE ANCHORED WITH TENDONS AND ATRA ANCHORS, AND SHALL CONSIST OF THE FOLLOWING:  
 GW20V-CELL WITH 8" NOMINAL CELL DEPTH  
 ATRA CLIPS  
 ATRA KEYS  
 ATRA ANCHORS  
 WOVEN KEVLAR TENDON ANCHORS  
 ATRA TENDON CLIPS

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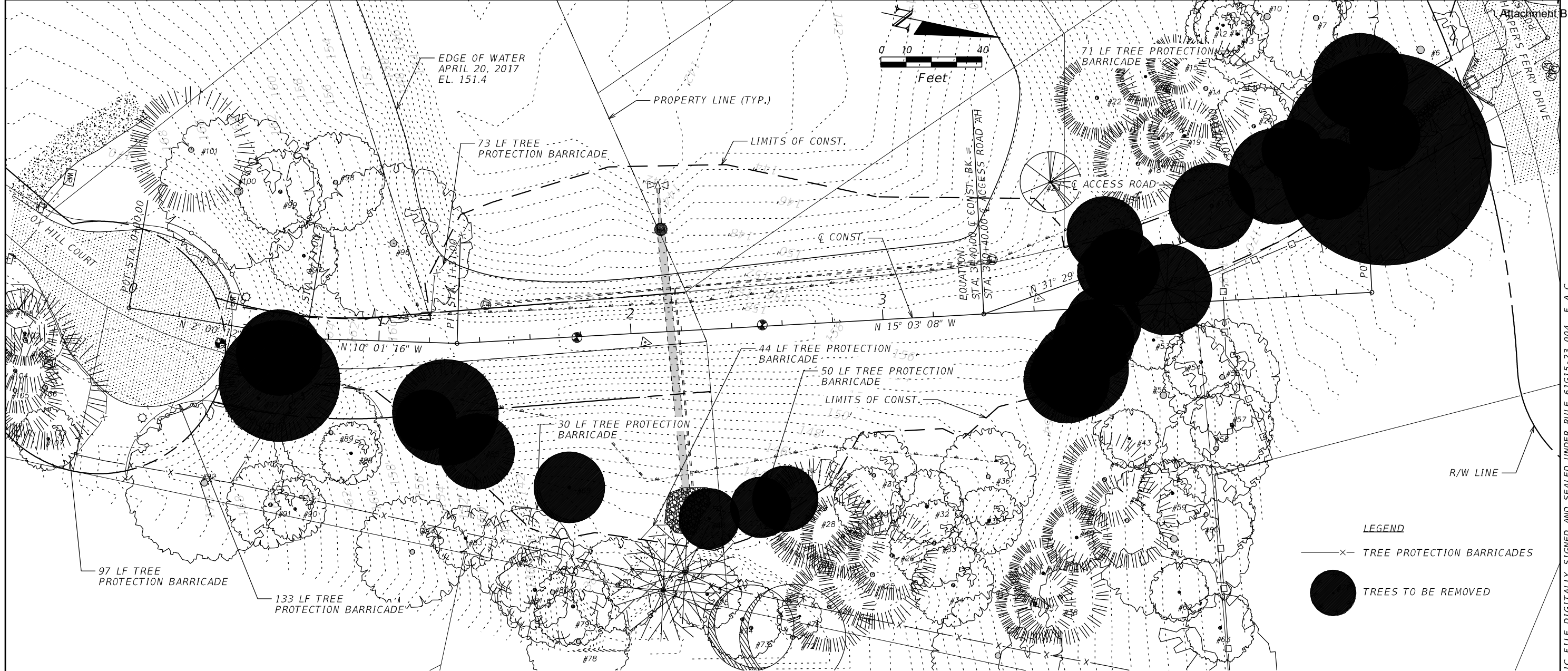
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**TYPICAL SECTION DETAILS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.  
**6**

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TREE DEBIT LIST

TREE NO.	DESCRIPTION	DBH (IN)	DEBITS	ACTION	NOTES	TREE NO.	DESCRIPTION	DBH (IN)	DEBITS	ACTION	NOTES	
1	LIVE OAK	17	-6	REMOVE		67	SWEET GUM	13	-6	REMOVE		
2	SWEET GUM	19	-8	REMOVE		68	WATER OAK	12	-4	REMOVE		
3	SLASH PINE	16		REMOVE	UNPROTECTED	69	TALLOW	14		REMOVE	INVASIVE SPECIES	
4	LIVE OAK	42	-20	REMOVE		76	RED MAPLE	22		ROOT IMPACTS	ARBORIST MITIGATION/ROOT PRUNING REQUIRED	
5	SWEET GUM	14		REMOVE	UNPROTECTED	82	MAGNOLIA	21		ROOT IMPACTS	ARBORIST MITIGATION/ROOT PRUNING REQUIRED	
6	LIVE OAK	36		ROOT IMPACTS	ARBORIST MITIGATION/ROOT PRUNING REQUIRED	85	SLASH PINE	15	-6	REMOVE		
8	SHORTLEAF PINE	19		REMOVE	DEAD	86	SLASH PINE	21	-8	REMOVE		
9	SWEET GUM	13		ROOT IMPACTS	DEAD	87	SWEET GUM	12	-4	REMOVE		
21	WATER OAK	12		REMOVE	UNPROTECTED	89	SWEET GUM	20		ROOT IMPACTS	ARBORIST MITIGATION/ROOT PRUNING REQUIRED	
28	SLASH PINE	20		IMPACTED	ARBORIST MITIGATION/ROOT PRUNING REQUIRED	93	SWEET GUM	14		ROOT IMPACTS	UNPROTECTED	
29	SLASH PINE	20		IMPACTED	ARBORIST MITIGATION/ROOT PRUNING REQUIRED	94	SLASH PINE	24	-8	REMOVE		
44	SLASH PINE	17		REMOVE	UNPROTECTED	95	WATER OAK	17		REMOVE	UNPROTECTED	
45	SLASH PINE	19	-8	REMOVE		TOTAL REMOVED TREE DEBITS			-88			
46	MULBERRY	12		REMOVE	UNPROTECTED	TOTAL PRESERVED TREE CREDITS			0			
47	SHORTLEAF PINE	16		REMOVE	POOR/DISEASED UNPROTECTED	TOTAL PLANTED TREE CREDITS			0			
48	SLASH PINE	15		REMOVE	UNPROTECTED	DEVELOPED ACRES OF THE SITE			0.863			
49	SLASH PINE	12		REMOVE	UNPROTECTED	MINIMUM REQUIRED CREDITS			35			
50	SLASH PINE	15		REMOVE	DEAD	TOTAL REQUIRED TREE CREDITS			123			
51	SLASH PINE	15		REMOVE	UNPROTECTED							
52	HICKORY	18	-6	REMOVE								
66	SWEET GUM	12	-4	REMOVE								

NOTES:  
 THE SERVICES OF A CERTIFIED ARBORIST ARE REQUIRED FOR THE TREE PROTECTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR HIRING THE CERTIFIED ARBORIST AND COORDINATION OF ALL TREE PROTECTION EFFORTS.

REVISIONS		REVISIONS	
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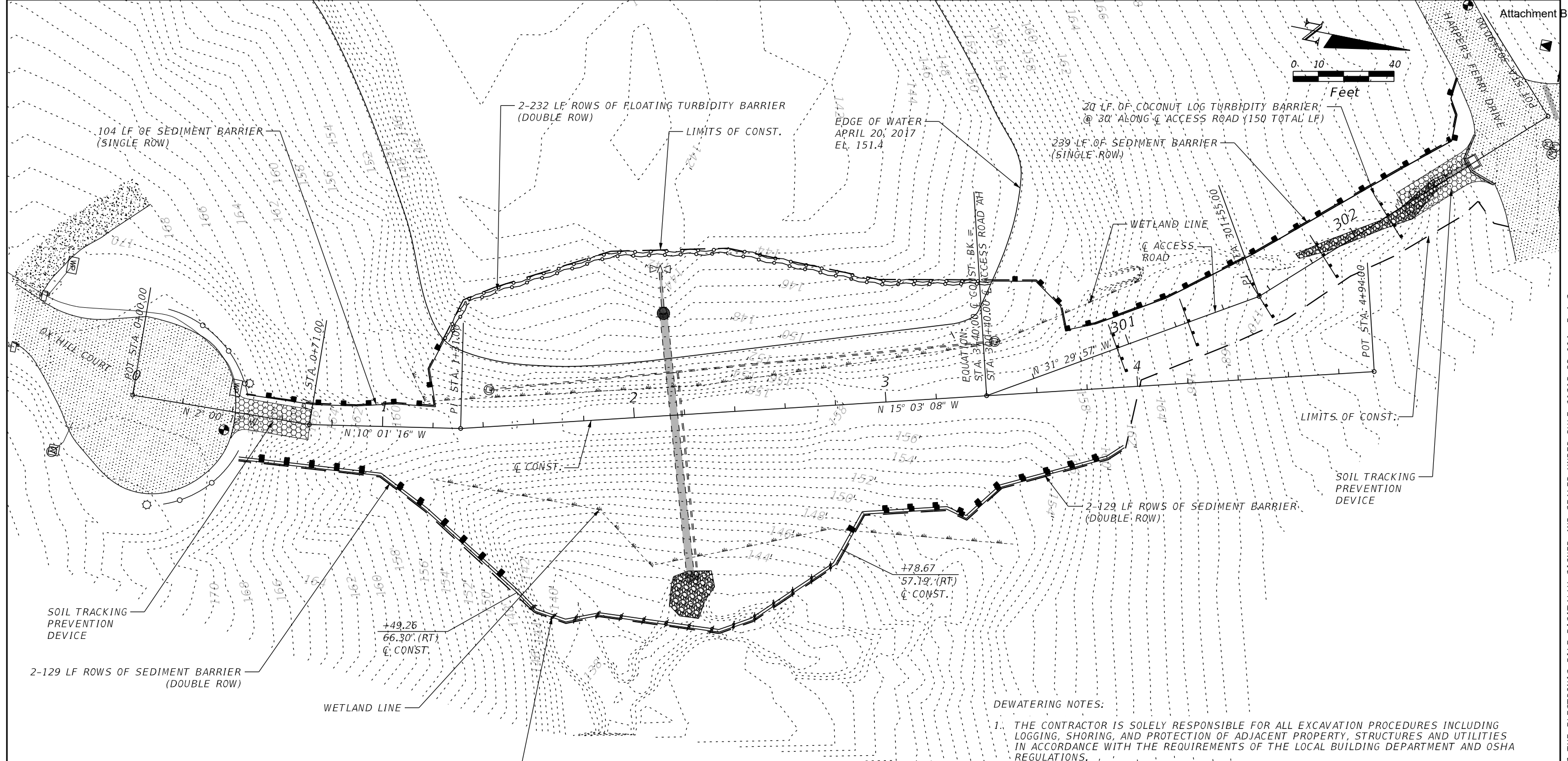
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**TREE REMOVAL**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**7**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- EROSION CONTROL NOTES:**
1. EROSION CONTROL MEASURES ARE LOCATED AT THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED.
  2. SEE CONSTRUCTION DETAILS SHEET FOR MINIMUM SEDIMENT AND TURBIDITY BARRIER DETAILS.
  3. ADDITIONAL SEDIMENT AND TURBIDITY BARRIERS, OTHER EROSION CONTROL DEVICES, OR TREE BARRICADES MAY BE REQUIRED DURING PROJECT CONSTRUCTION, AS SPECIFIED BY THE COUNTY ENVIRONMENTAL INSPECTOR. COSTS FOR ADDITIONAL EROSION CONTROL DEVICES REQUIRED SHALL BE AT NO ADDITIONAL COST TO THE COUNTY.

- LEGEND:**
- STAKED TURBIDITY BARRIER
  - FLOATING TURBIDITY BARRIER
  - SEDIMENT BARRIER
  - COCONUT TURBIDITY BARRIER

- DEWATERING NOTES:**
1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LOGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS.
  2. CONTRACTOR SHALL BE RESPONSIBLE FOR BERM STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT TO LEON COUNTY A BERM STABILITY ANALYSIS BASED UPON THE MEANS AND METHODS PROPOSED, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, PRIOR TO CONSTRUCTION.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND OPERATION OF AN ADEQUATE DEWATERING AND TURBIDITY CONTROL SYSTEM TO DEWATER EXCAVATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT DEWATERING AND TURBIDITY CONTROL PLANS, CALCULATIONS, AND SPECIFICATIONS, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA TO LEON COUNTY FOR APPROVAL.
  4. DEWATER TO AN ELEVATION 3 FEET OR MORE BELOW THE BOTTOM OF THE EXCAVATION. MAINTAIN THE WATER TABLE 3 FEET OR MORE BELOW THE MAXIMUM DEPTH OF EXCAVATION.
  5. THE CONTRACTOR SHALL ENSURE OFF-SITE DISCHARGE MEETS LOCAL, STATE AND FEDERAL WATER QUALITY STANDARDS. EFFLUENT SHALL NOT EXCEED 29 NTU'S ABOVE BACKGROUND.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

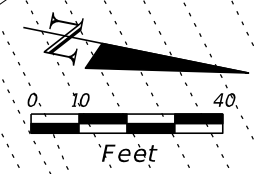
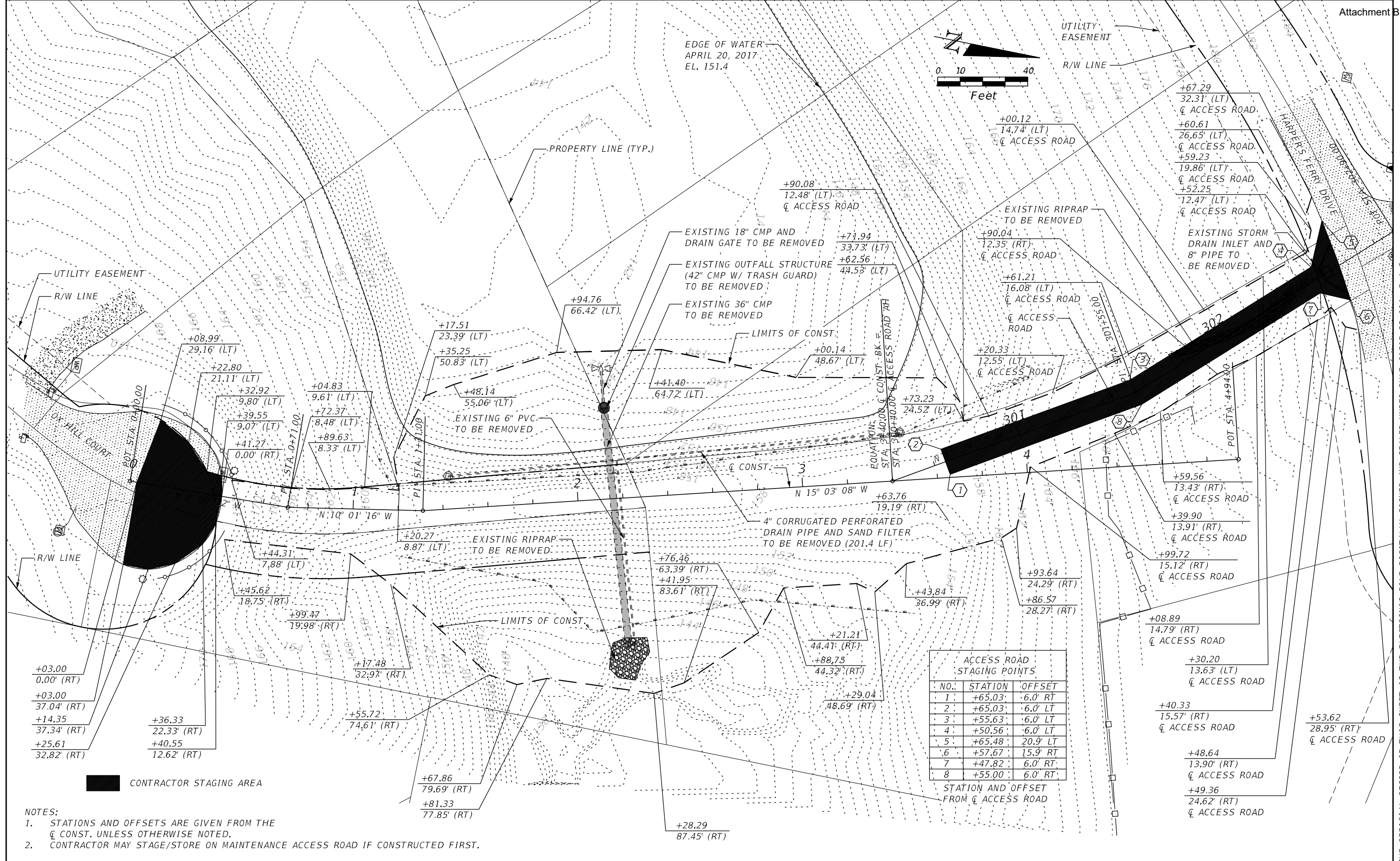
**REGISTE, SLIGER ENGINEERING, INC.**  
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
 P.E. LICENSE NUMBER 55550  
 CERTIFICATE OF AUTHORIZATION: 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**MINIMUM EROSION CONTROL**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.  
**8**

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ACCESS ROAD STAGING POINTS

NO.	STATION	OFFSET
1	+65.03	6.0' RT
2	+65.03	6.0' LT
3	+55.63	6.0' LT
4	+50.56	6.0' LT
5	+65.48	20.9' LT
6	+57.67	15.9' RT
7	+47.82	6.0' RT
8	+55.00	6.0' RT

STATION AND OFFSET FROM  $\varnothing$  ACCESS ROAD

- NOTES:
- STATIONS AND OFFSETS ARE GIVEN FROM THE  $\varnothing$  CONST. UNLESS OTHERWISE NOTED.
  - CONTRACTOR MAY STAGE/STORE ON MAINTENANCE ACCESS ROAD IF CONSTRUCTED FIRST.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**REGISTE, SLIGER ENGINEERING, INC.**  
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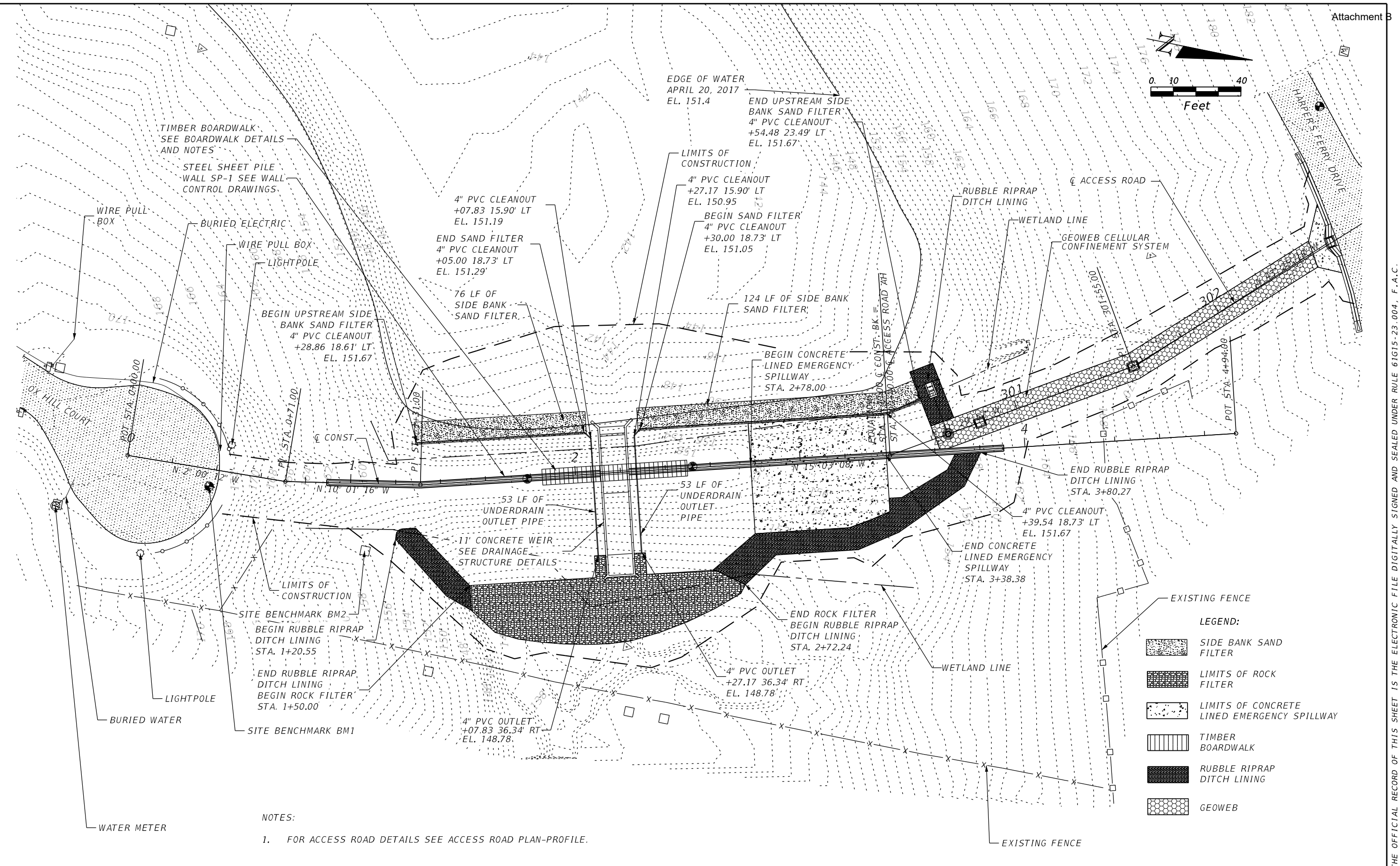
**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**LIMITS OF CONSTRUCTION/  
 CONTRACTOR STAGING**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO. 9

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NOTES:  
 1. FOR ACCESS ROAD DETAILS SEE ACCESS ROAD PLAN-PROFILE.

- LEGEND:
- SIDE BANK SAND FILTER
  - LIMITS OF ROCK FILTER
  - LIMITS OF CONCRETE LINED EMERGENCY SPILLWAY
  - TIMBER BOARDWALK
  - RUBBLE RIPRAP DITCH LINING
  - GEOWEB

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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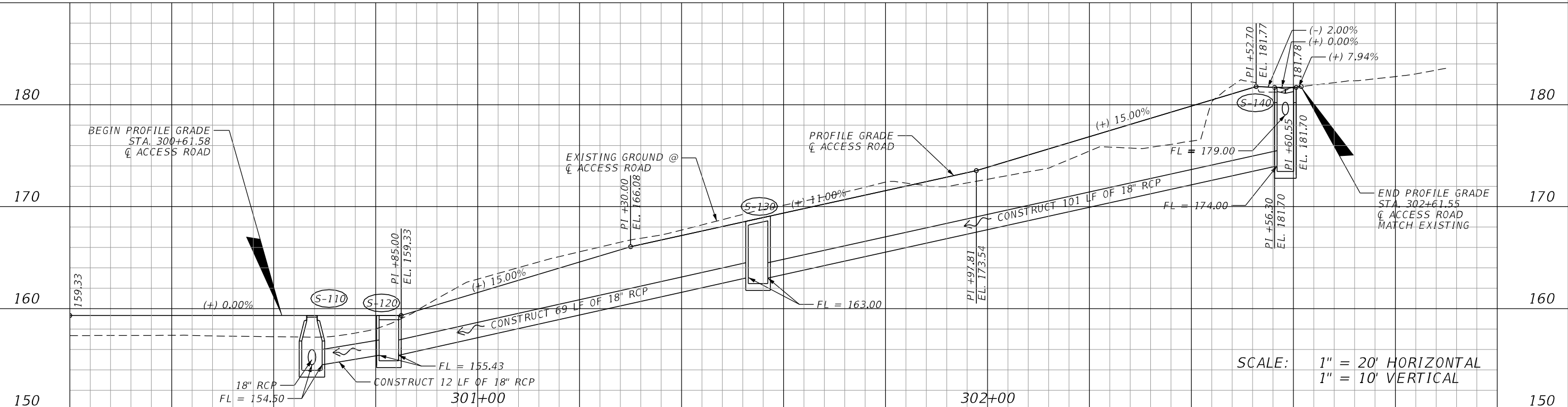
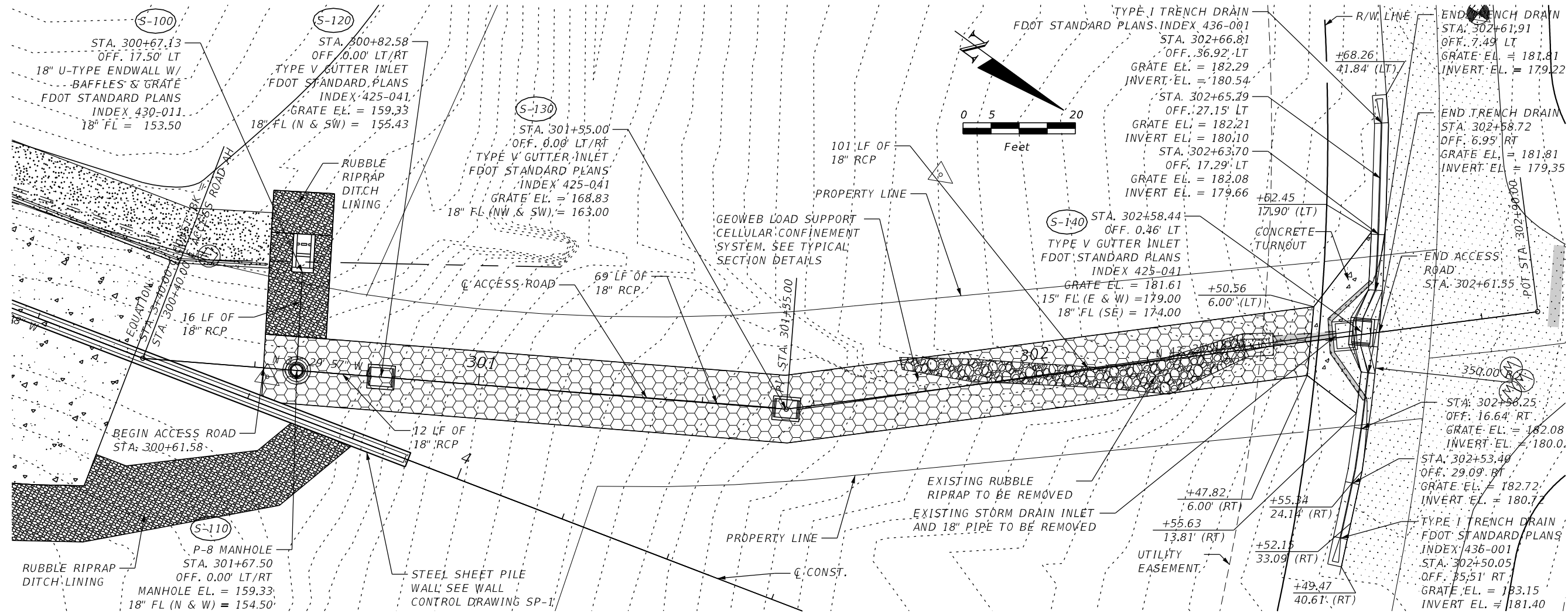
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**PLAN**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
 10

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SCALE: 1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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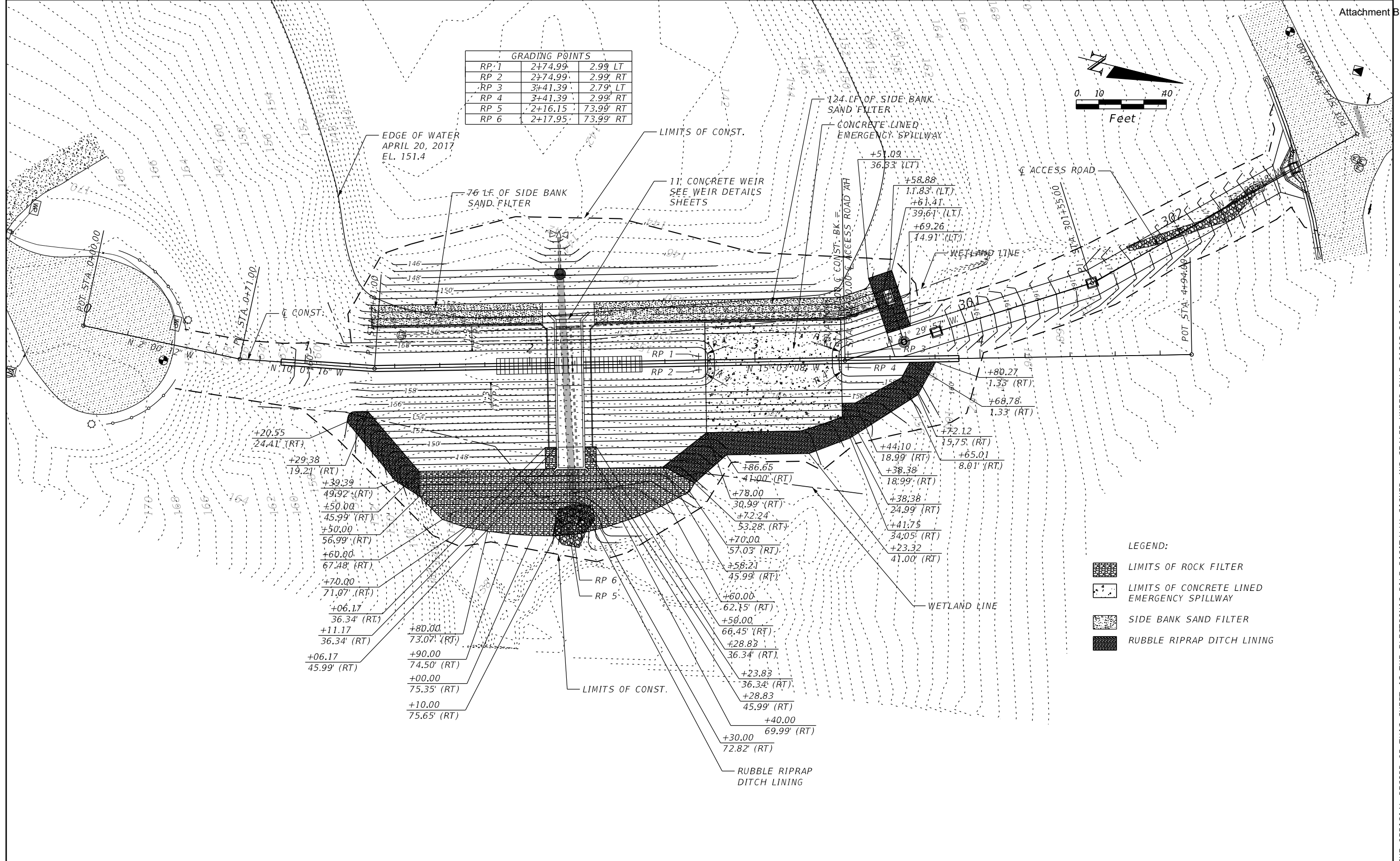
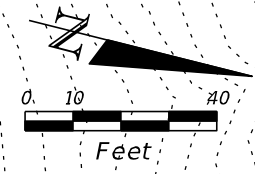
**ACCESS ROAD  
PLAN-PROFILE**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO. **11**

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GRADING POINTS		
RP 1	2+74.99	2.99' LT
RP 2	2+74.99	2.99' RT
RP 3	3+41.39	2.79' LT
RP 4	3+41.39	2.99' RT
RP 5	2+16.15	73.99' RT
RP 6	2+17.95	73.99' RT



- LEGEND:
- LIMITS OF ROCK FILTER
  - LIMITS OF CONCRETE LINED EMERGENCY SPILLWAY
  - SIDE BANK SAND FILTER
  - RUBBLE RIPRAP DITCH LINING

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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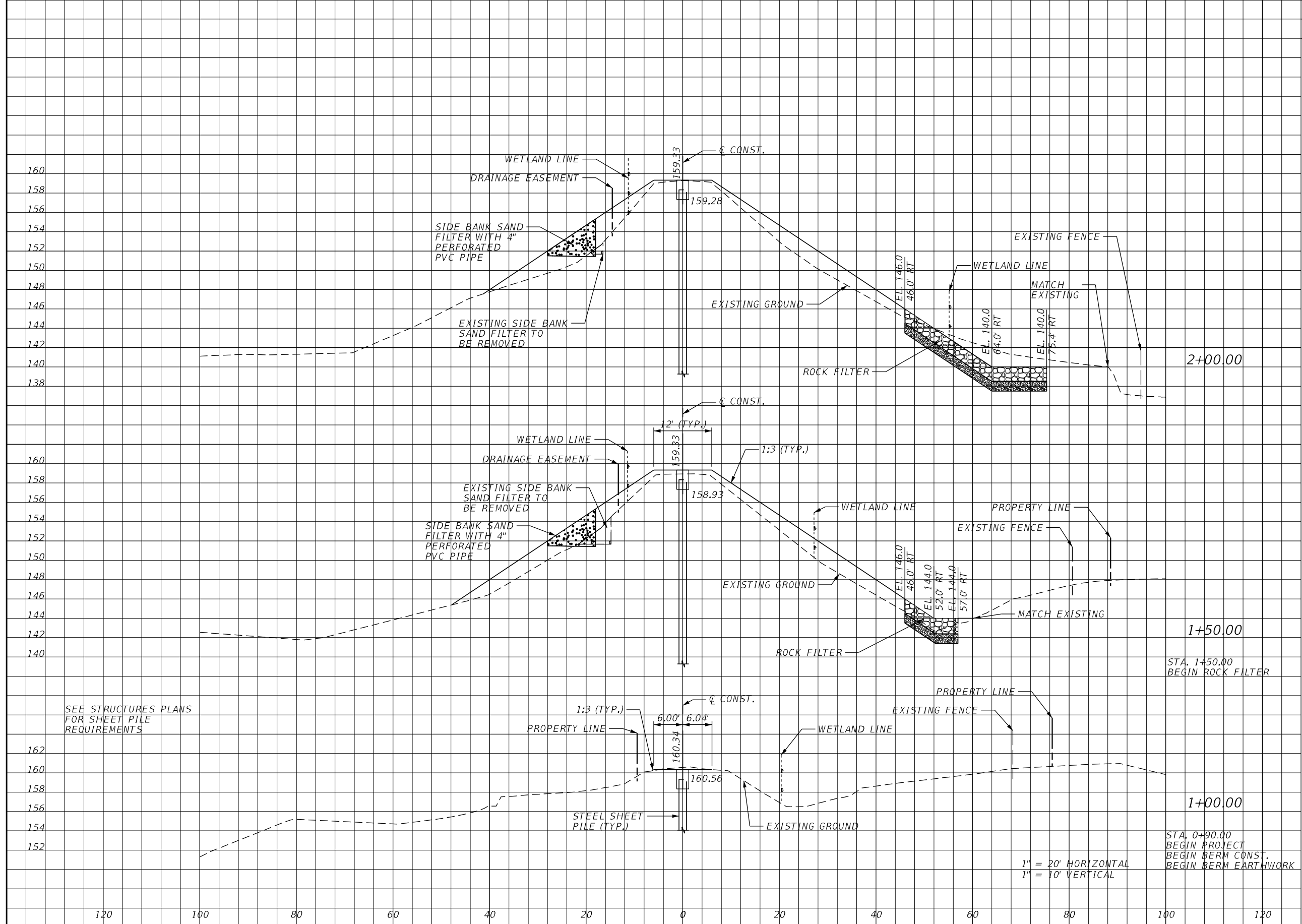
**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**GRADING PLAN**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**12**

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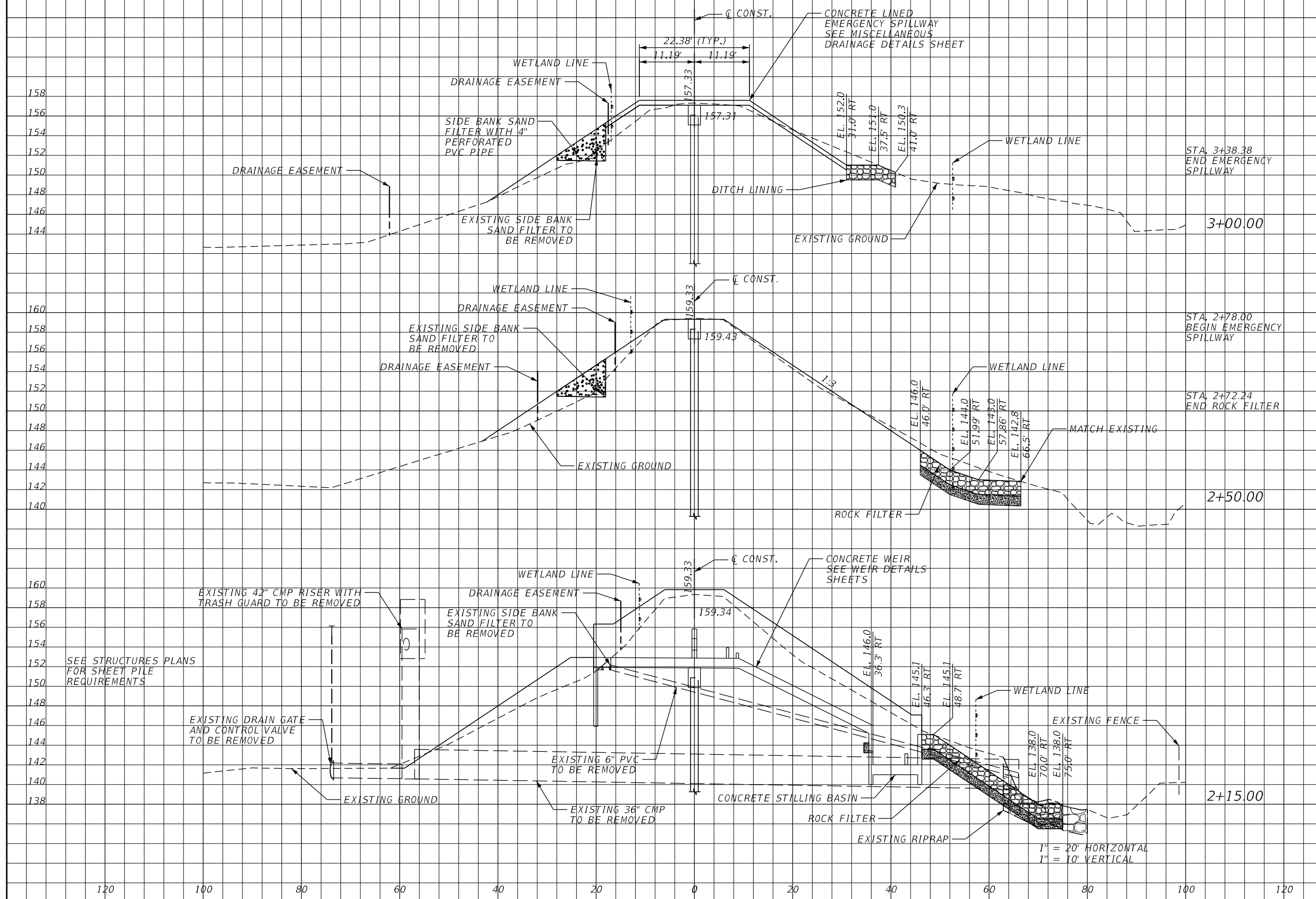
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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PHONE (850) 606-1500 \* FAX (850) 606-1501

**CROSS SECTIONS**  
PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO.  
**18**



1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

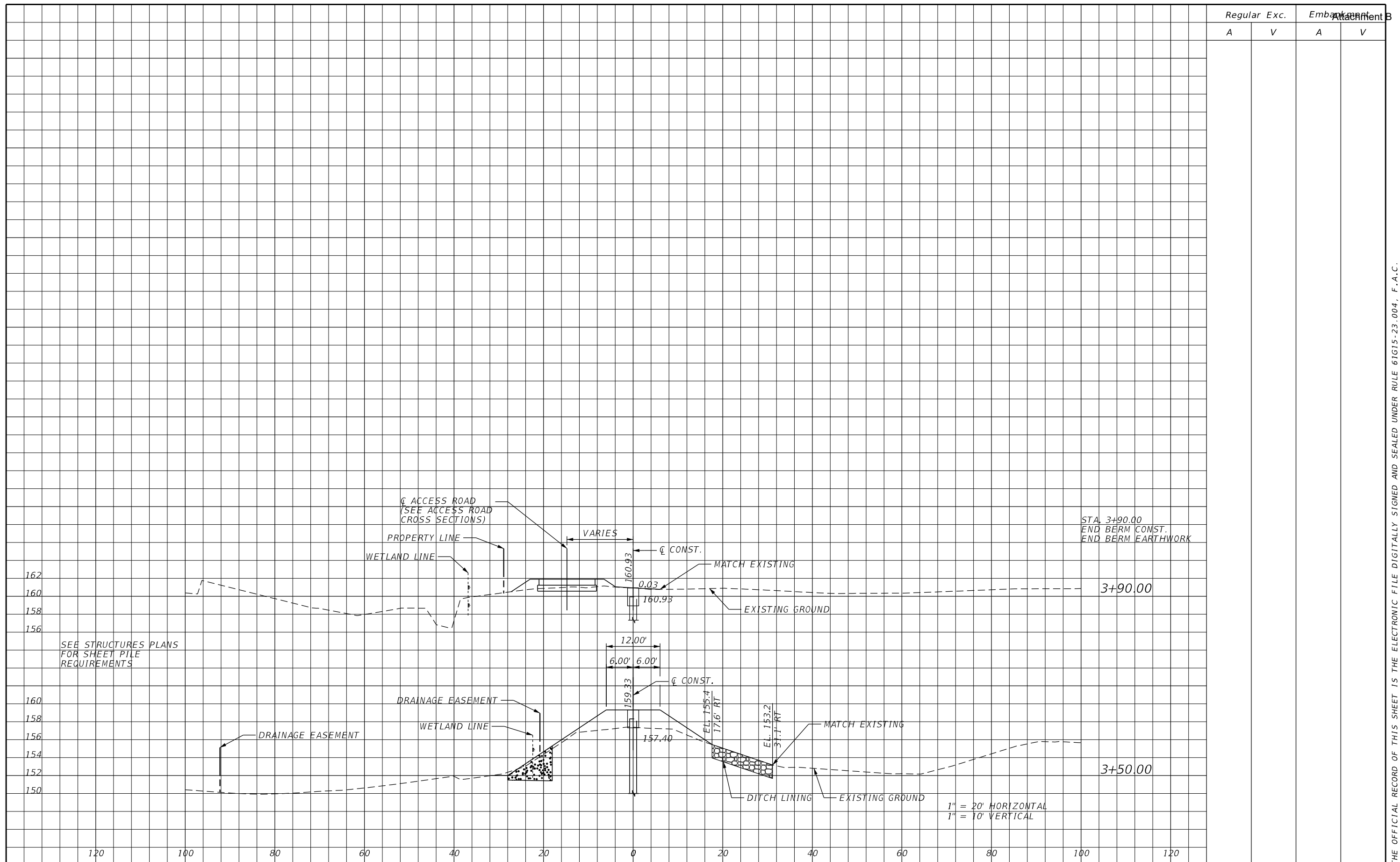
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**CROSS SECTIONS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
19

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SEE STRUCTURES PLANS FOR SHEET PILE REQUIREMENTS

STA. 3+90.00  
END BERM CONST.  
END BERM EARTHWORK

1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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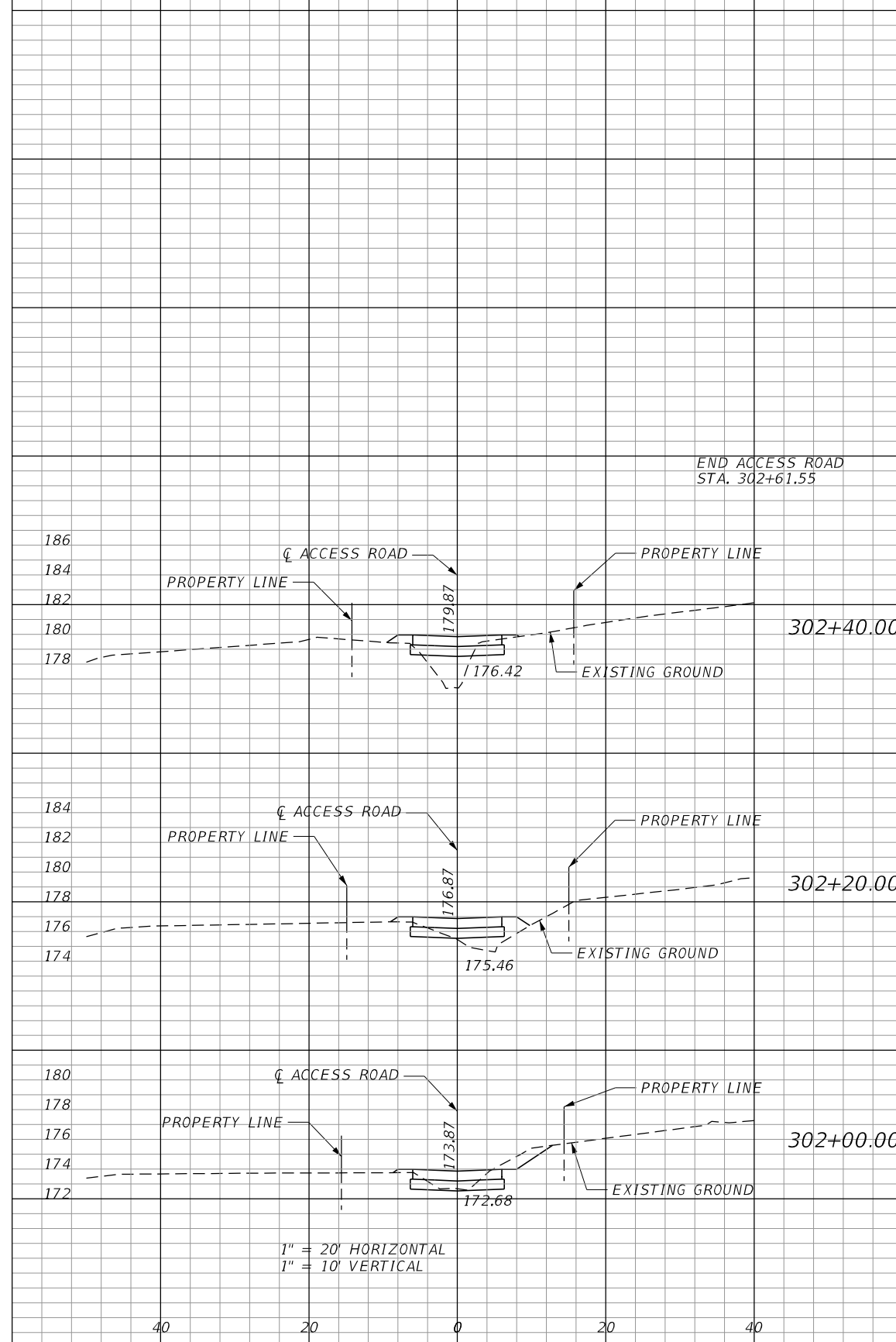
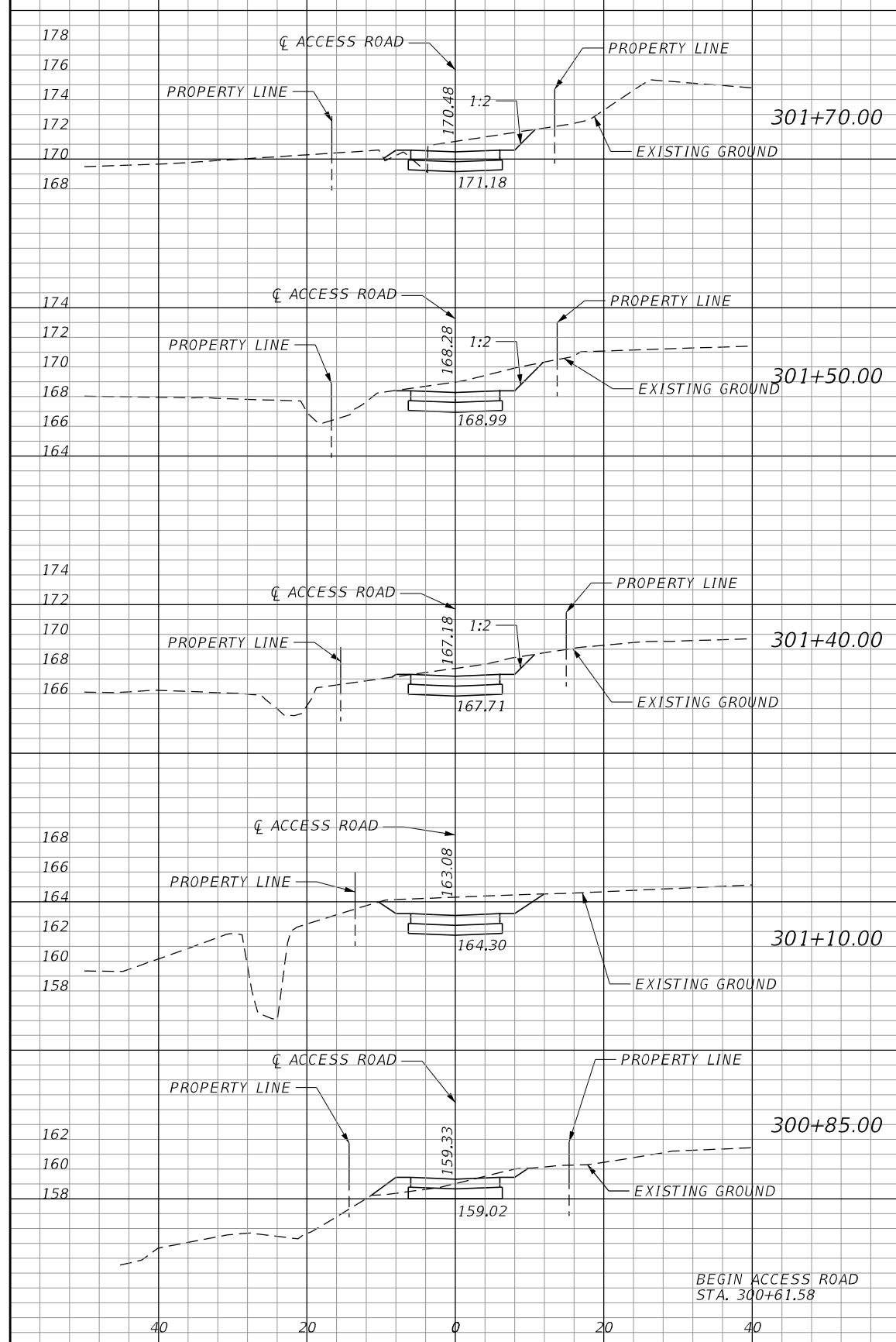
**CROSS SECTIONS**  
PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO.
20

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Regular Exc. Embankment  
A V A V

Regular Exc. Embankment  
A V A V



REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

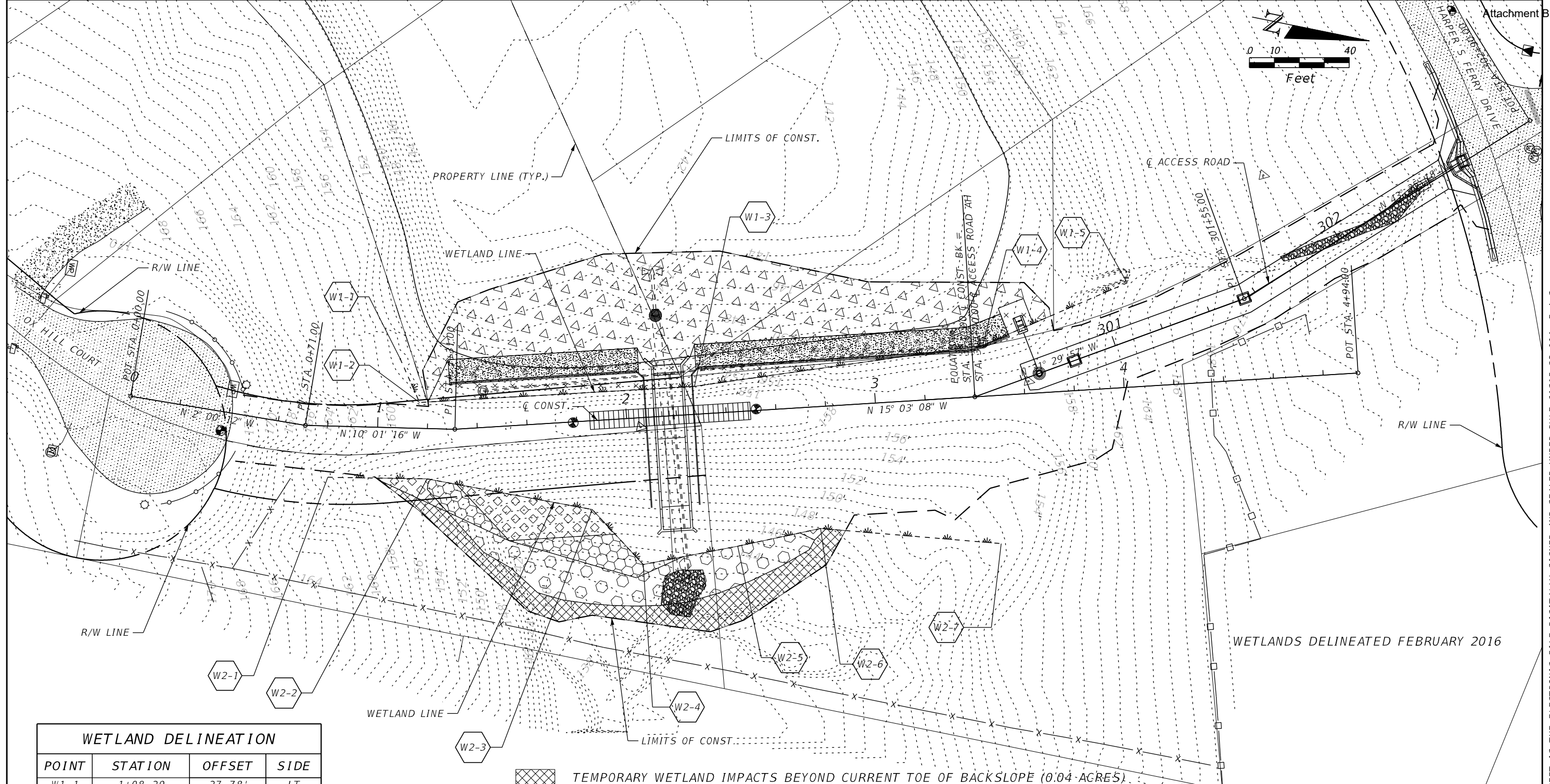
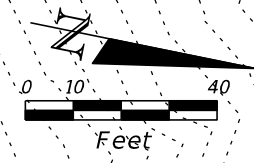
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 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**ACCESS ROAD CROSS SECTIONS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.  
21

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WETLANDS DELINEATED FEBRUARY 2016

**WETLAND DELINEATION**

POINT	STATION	OFFSET	SIDE
W1-1	1+08.29	27.78'	LT
W1-2	1+16.58	10.36'	LT
W1-3	2+28.00	11.19'	LT
W1-4	3+44.51	20.46'	LT
W1-5	4+03.79	41.80'	LT
W2-1	0+80.51	20.57'	RT
W2-2	1+20.39	20.18'	RT
W2-3	1+83.98	35.56'	RT
W2-4	2+03.03	58.84'	RT
W2-5	2+41.34	53.86'	RT
W2-6	2+74.92	48.86'	RT
W2-7	3+46.86	59.39'	RT

- TEMPORARY WETLAND IMPACTS BEYOND CURRENT TOE OF BACKSLOPE (0.04 ACRES)
- PERMANENT WETLAND IMPACTS BEYOND CURRENT TOE OF BACKSLOPE (0.05 ACRES)
- PERMANENT BACKSLOPE WETLAND IMPACTS (0.02 ACRES)
- TEMPORARY BACKSLOPE WETLAND IMPACTS (0.02 ACRES)
- TEMPORARY FRONTSLOPE WETLAND IMPACTS (0.16 ACRES)
- PERMANENT FRONTSLOPE WETLAND IMPACTS (0.07 ACRES)

TOTAL PERMANENT WETLAND IMPACTS (0.14 ACRES)  
 TOTAL TEMPORARY WETLAND IMPACTS (0.22 ACRES)

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
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**WETLAND IMPACTS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**


SHEET NO.  
 22

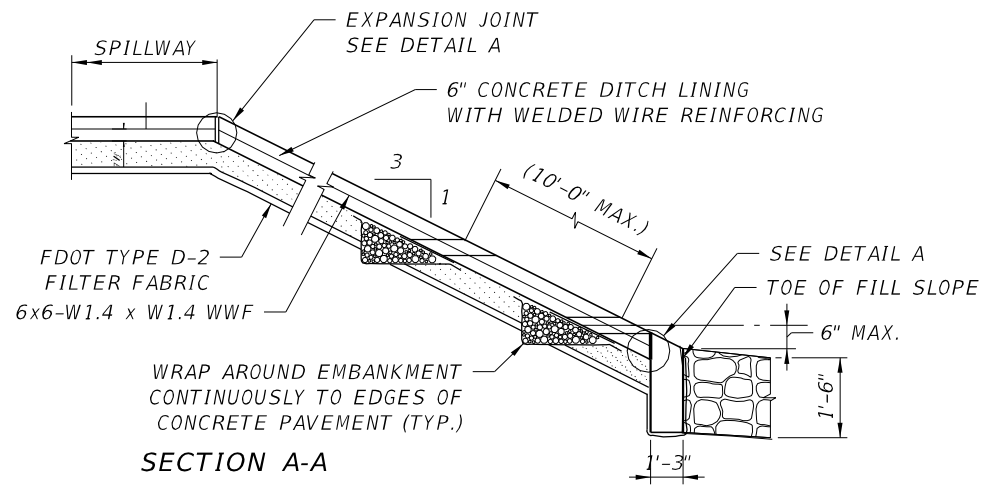
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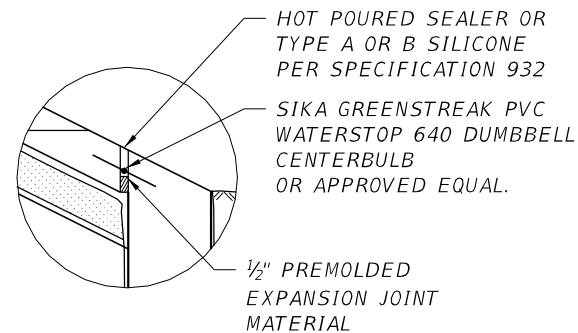
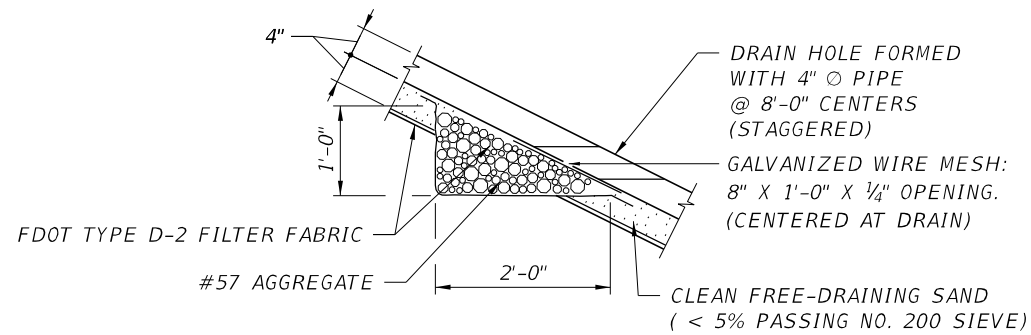
MAINTENANCE OF TRAFFIC NOTES

1. CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS TO THE LEON COUNTY PROJECT MANAGER FOR APPROVAL. MAINTENANCE OF TRAFFIC PLANS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR CERTIFIED BY AN INDIVIDUAL WITH A CURRENT FDOT CERTIFIED ADVANCED MOT PRACTITIONER CERTIFICATE.
2. TRAFFIC IS TO BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS 102-603 AND 102-604, DEPENDANT UPON THE OPERATION TO BE PERFORMED. FOR GENERAL TCZ REQUIREMENTS AND ADDITIONAL INFORMATION, REFER TO STANDARD PLANS INDEX 102-600.
3. THE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS FOR ROAD CONSTRUCTION.
4. EXISTING SPEED LIMIT SIGNS SHALL BE MAINTAINED WITHIN THE LIMITS OF THE ACTIVE WORK ZONES ALONG PROJECT.
5. POSITIVE DRAINAGE SHALL BE MAINTAINED PRIOR TO, DURING, AND AFTER CONSTRUCTION.
6. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS DURING AN EVACUATION NOTICE OF A HURRICANE OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE LEON COUNTY PROJECT MANAGER.
7. PUBLIC ACCESS TO RESIDENCES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR KEEPING UP ROAD MAINTENANCE DURING CONSTRUCTION. CONTRACTOR SHALL STREET SWEEP DAILY OR AS NECESSARY TO KEEP STREETS FREE OF SEDIMENT AND DEBRIS.
9. ALL LANE CLOSURES SHALL REQUIRE APPROVAL FROM LEON COUNTY. REQUESTS SHALL BE SUBMITTED TO LEON COUNTY 2 WEEKS PRIOR TO LANE CLOSURE OPERATIONS.

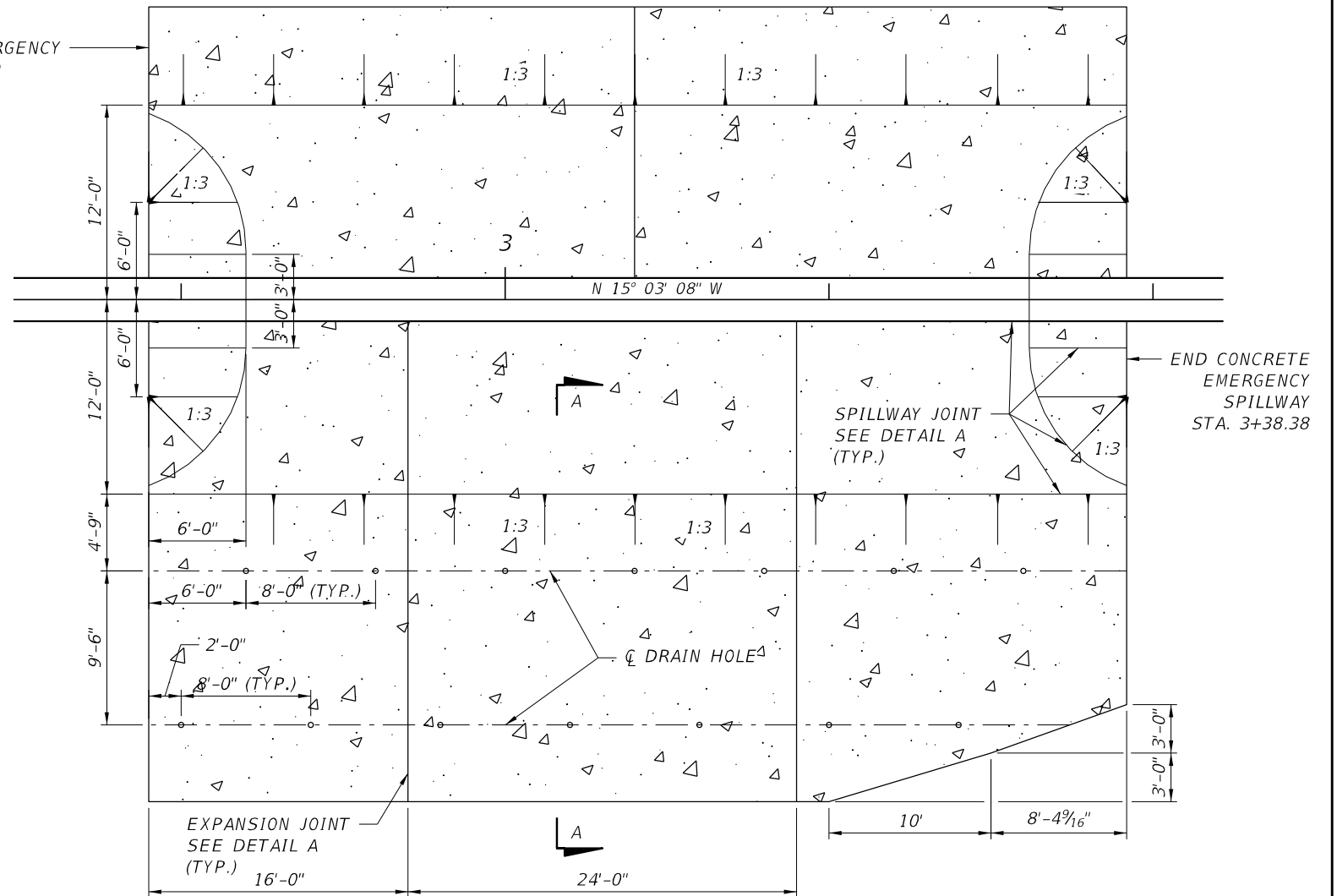
REVISIONS		REVISIONS		 <b>REGISTE, SLIGER ENGINEERING, INC.</b> ENGINEER OF RECORD: JOHN F. SLIGER II, P.E. P.E. LICENSE NUMBER 55550 CERTIFICATE OF AUTHORIZATION: 9292 3370 CAPITAL CIRCLE NE, SUITE J TALLAHASSEE, FL 32308 PHONE: (850) 894-4521 - FAX: (850) 224-0505	 <b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b> 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	<b>TRAFFIC CONTROL GENERAL NOTES</b>		SHEET NO.  23
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME:		
						<b>CENTERVILLE TRACE POND STRUCTURE REPLACEMENT</b>		



NOTE: VERTICAL JOINTS SHALL BE SEALED.



BEGIN CONCRETE EMERGENCY SPILLWAY STA. 2+78.00



1 CONCRETE LINED EMERGENCY SPILLWAY DETAIL

REVISIONS		REVISIONS	
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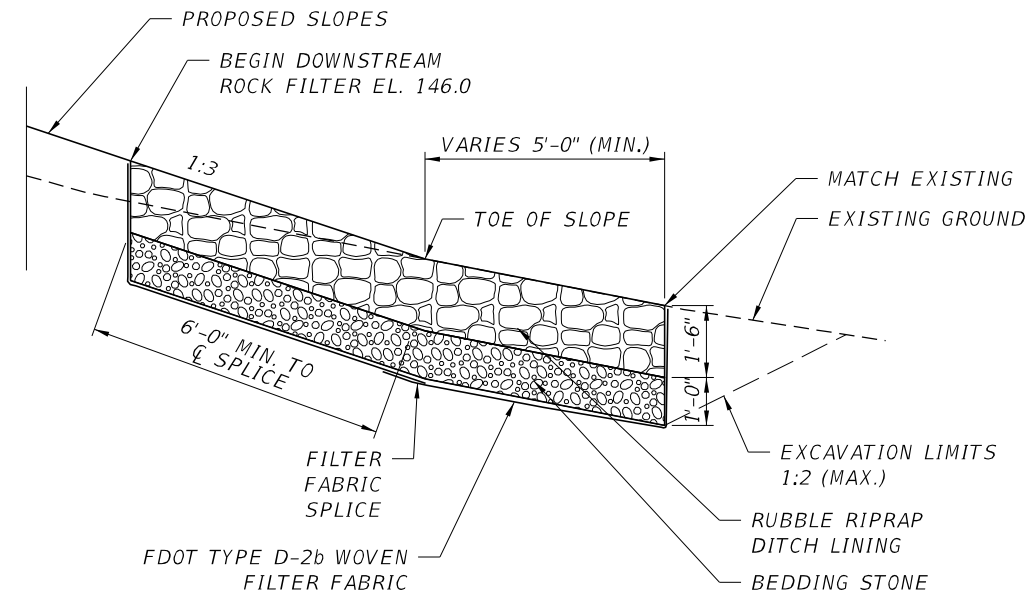
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 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
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**EMERGENCY SPILLWAY DETAILS**

PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

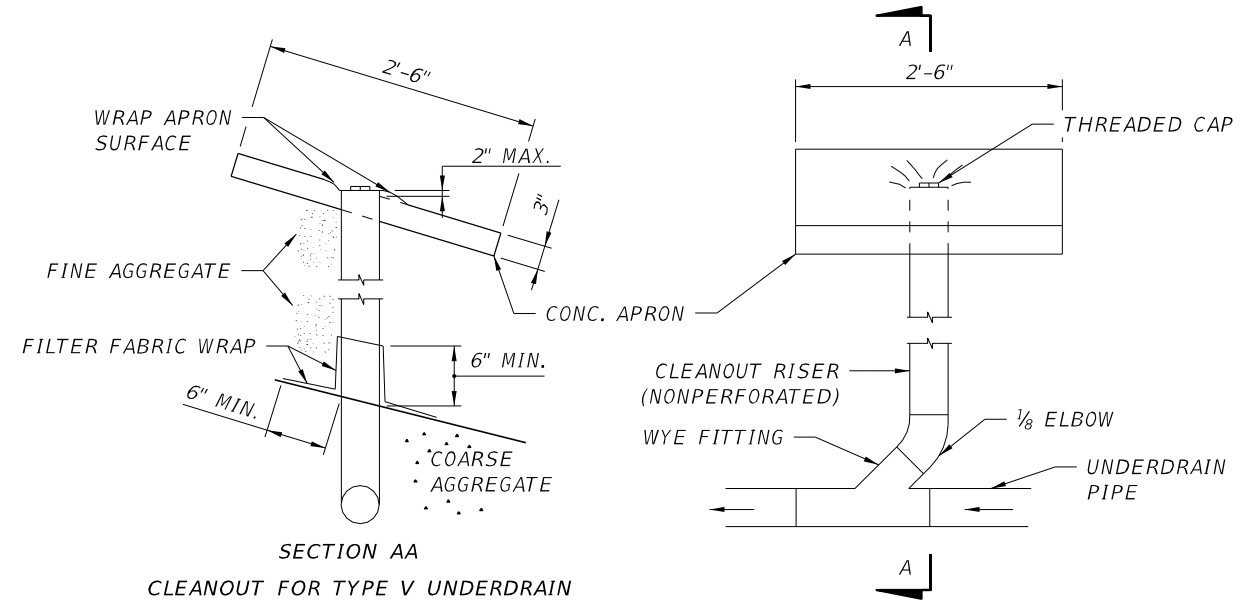
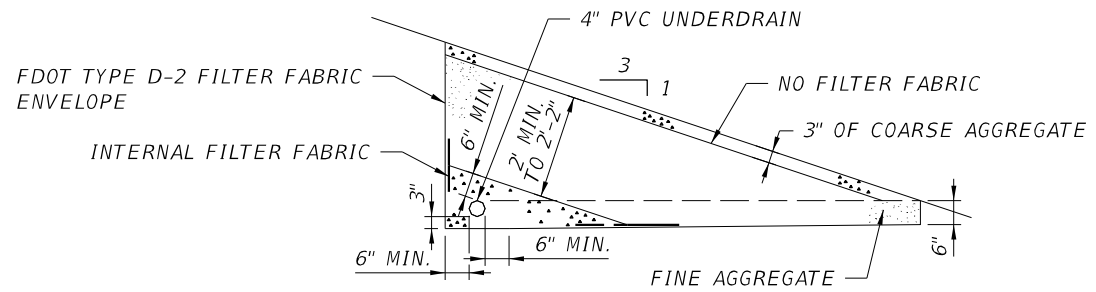
SHEET NO.	24
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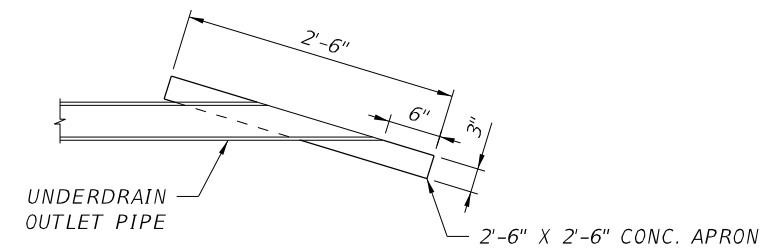


1. ROCK SHALL BE RUBBLE RIPRAP DITCH LINING IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 530.
2. FOR LOCATION AND LIMITS OF ROCK FILTER, SEE GRADING PLAN.
3. ROCK FILTER SHALL BE INSTALLED PRIOR TO INSTALLATION OF STEEL SHEET PILE WALL. EXCAVATION SLOPES FOR INSTALLATION OF ROCK FILTER SHALL NOT EXCEED 1V:2H.

**1** DOWNSTREAM ROCK FILTER DETAIL



SECTION AA  
CLEANOUT FOR TYPE V UNDERDRAIN



OUTLET PIPE APRON

**2** SIDE BANK SAND FILTER DETAIL

1. FINE AGGREGATE SHALL BE QUARTZ SAND MEETING THE REQUIREMENTS OF SECTION 902-4 OF THE FDOT STANDARD SPECIFICATIONS.
2. COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTIONS 901-2 OR 901-3. GRADATION SHALL BE ACCORDING TO SECTION 901, GRADES 4, 467, 5, 56 OR 57 STONE.
3. UNDERDRAIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 440.
4. FILTER FABRIC SOCK SHALL MEET THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 948.
5. ALL FILTER FABRIC JOINTS SHALL OVERLAP A MINIMUM OF 1'.
6. UNDERDRAIN OUTLET PIPES SHALL BE NONPERFORATED AND ALL BENDS SHALL BE MADE USING 1/8 (45 DEG.) ELBOWS. 90 DEG. BENDS SHALL BE CONSTRUCTED WITH TWO 1/8 ELBOWS SEPARATED BY AT LEAST 1' OF STRAIGHT PIPE.
7. PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM F758 OR ASTM F949. PERFORATED PVC PIPE SHALL BE IN ACCORDANCE WITH THE PERFORATION REQUIREMENTS GIVEN IN AASHTO M36 OR AASHTO M196.

REVISIONS		REVISIONS	
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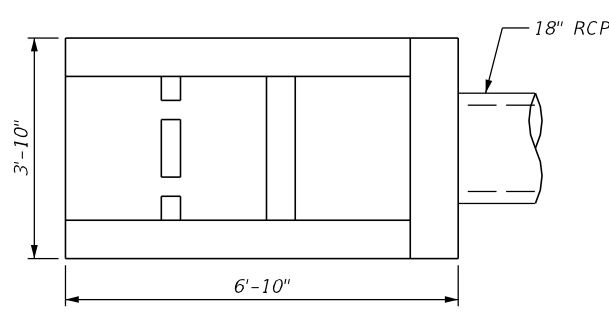
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**MISCELLANEOUS DRAINAGE DETAILS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.	25
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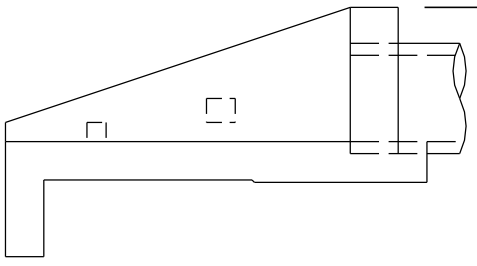
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**PLAN VIEW**  
**S-100**  
 STA. 300+67.13  
 OFFSET = 17.50' LT  
 U-TYPE ENDWALL  
 FDOT STANDARD PLANS  
 INDEX 430-011

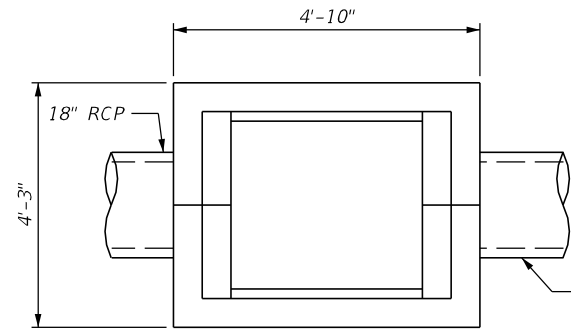


**SECTION A-A VIEW**  
 TOP EL. = 155.83



INV. EL. = 153.50 (NE)

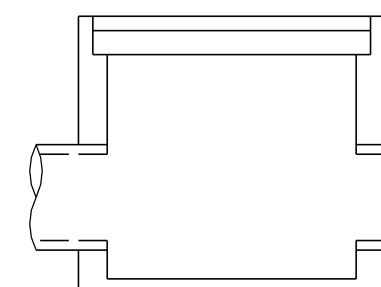
**S-100 U-TYPE ENDWALL**



**PLAN VIEW**  
**S-120**  
 STA. 300+82.58  
 OFFSET = 0.00' LT/RT  
 TYPE V GUTTER INLET  
 FDOT STANDARD PLANS  
 INDEX 425-041

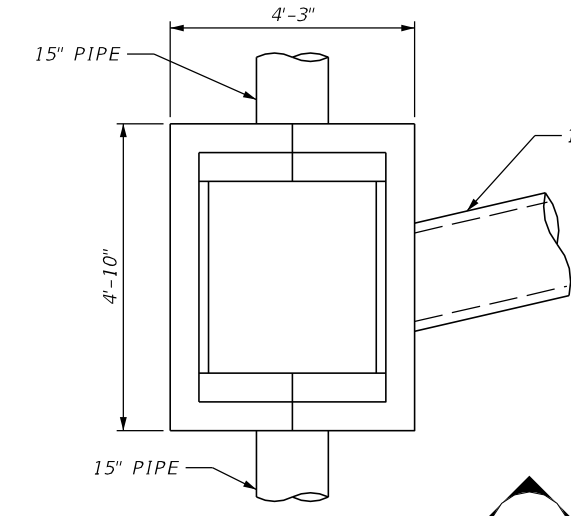


TOP OF GRATE EL. = 159.33



**SECTION A-A VIEW**  
 INV. EL. = 155.43 (NW & SE)  
 MIN. STRUCTURAL  
 BOTTOM EL. = 154.72

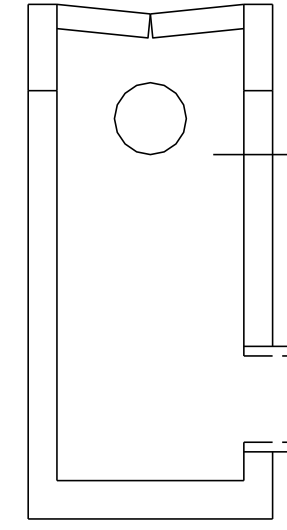
**S-120 GUTTER INLET TYPE V**



**PLAN VIEW**  
**S-140**  
 STA. 302+58.44  
 OFFSET = 0.46' LT  
 TYPE V GUTTER INLET  
 FDOT STANDARD PLANS  
 INDEX 425-041

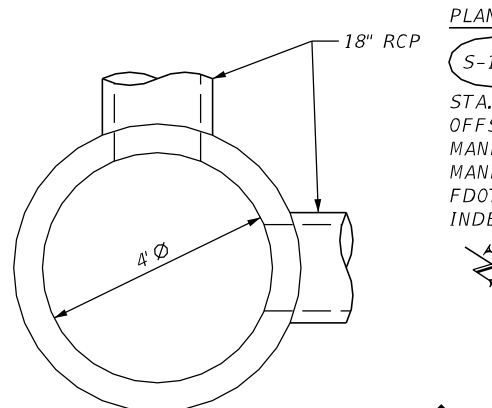


TOP OF GRATE EL. = 181.61



**SECTION A-A VIEW**  
 INV. EL. = 179.00 (SW & NE)  
 MIN. STRUCTURAL  
 BOTTOM EL. = 173.29

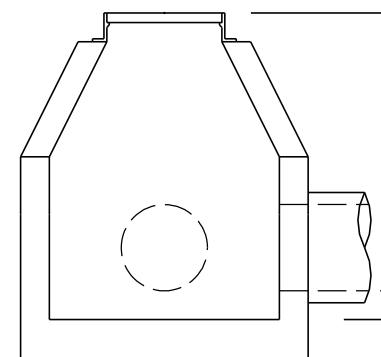
**S-140 GUTTER INLET TYPE V**



**PLAN VIEW**  
**S-110**  
 STA. 301+67.50  
 OFFSET = 0.00' LT/RT  
 MANHOLE TYPE P (4' DIA.)  
 MANHOLE COVER DIA. = 3'  
 FDOT STANDARD PLANS  
 INDEX 425-010

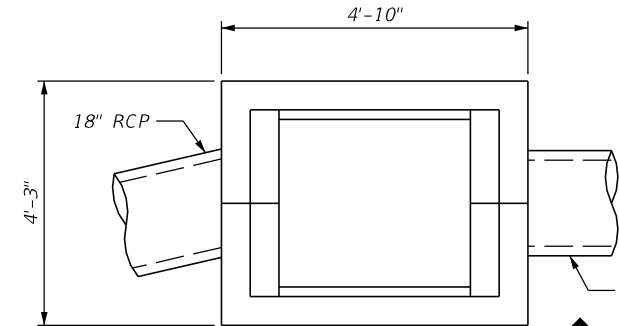


TOP EL. = 159.33



**SECTION A-A VIEW**  
 INV. EL. = 154.50 (NW & SW)  
 MIN. STRUCTURAL  
 BOTTOM EL. = 153.79

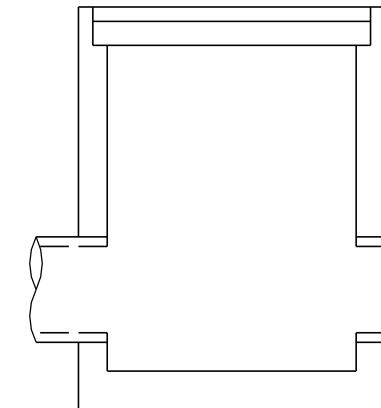
**S-110 MANHOLE 4' DIA.**



**PLAN VIEW**  
**S-130**  
 STA. 301+55.00  
 OFFSET = 0.00' LT/RT  
 TYPE V GUTTER INLET  
 FDOT STANDARD PLANS  
 INDEX 425-041



TOP OF GRATE EL. = 168.83



**SECTION A-A VIEW**  
 INV. EL. = 163.00 (NW & SE)  
 MIN. STRUCTURAL  
 BOTTOM EL. = 162.29

**S-130 GUTTER INLET TYPE V**

NOTES:  
 1. ALL STATIONS AND OFFSETS ARE FROM THE  $\zeta$  ACCESS ROAD UNLESS OTHERWISE NOTED.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

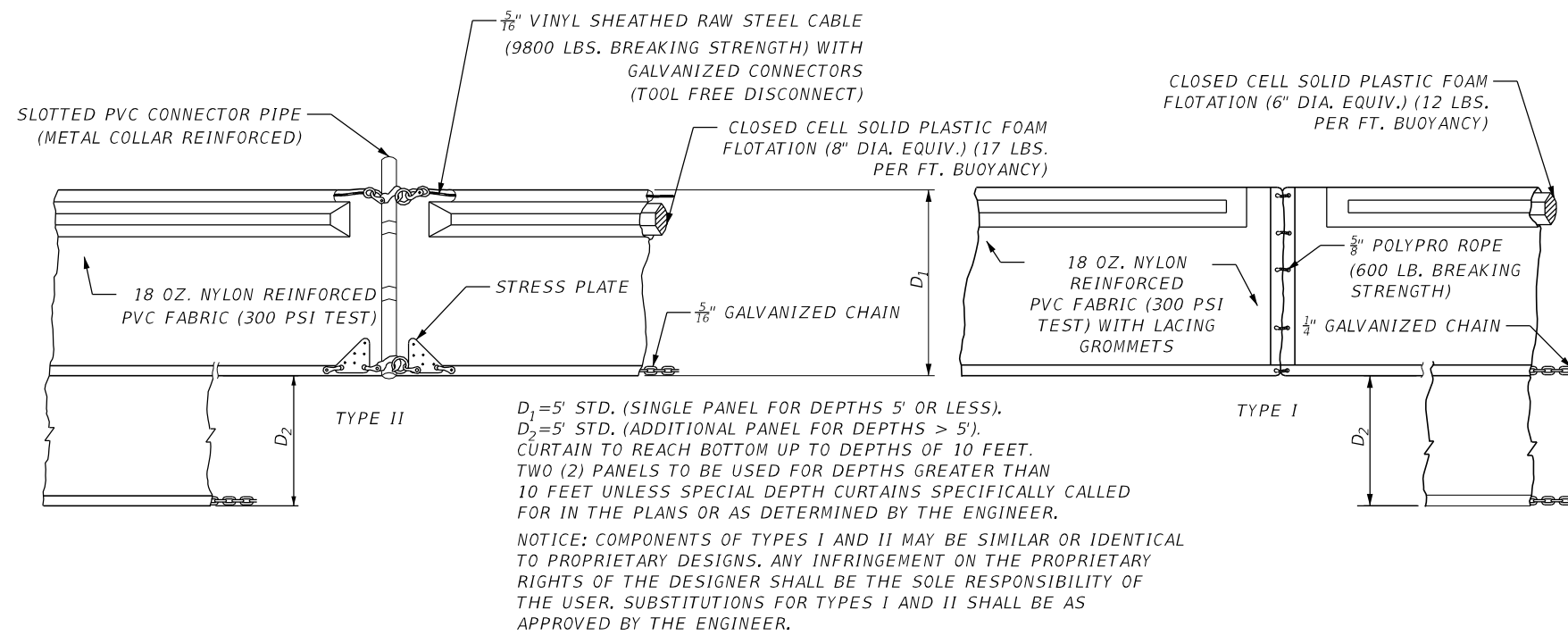
**REGISTE, SLIGER ENGINEERING, INC.**  
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
 P.E. LICENSE NUMBER 55550  
 CERTIFICATE OF AUTHORIZATION: 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

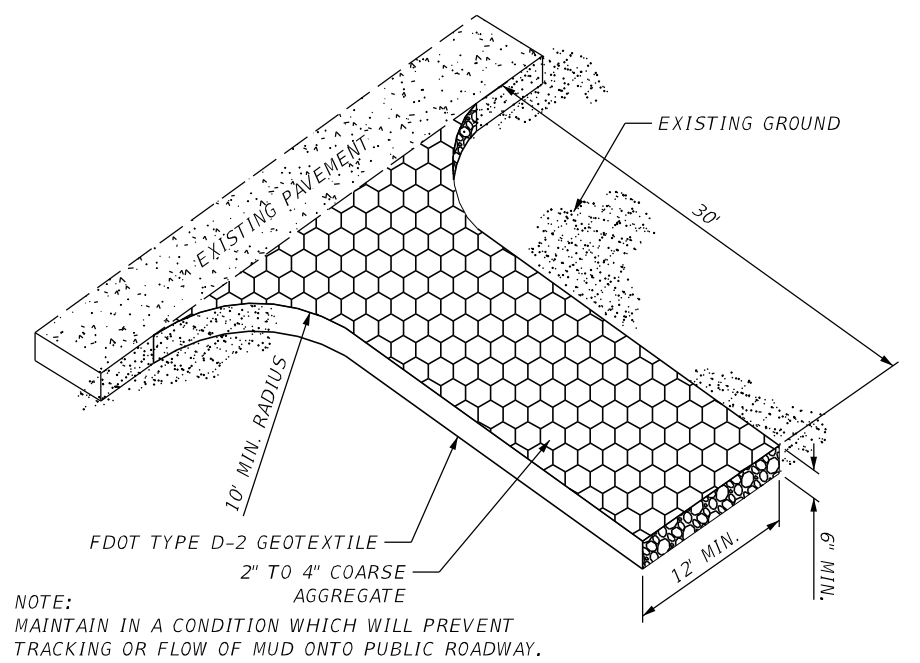
**DRAINAGE STRUCTURE DETAILS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.	26
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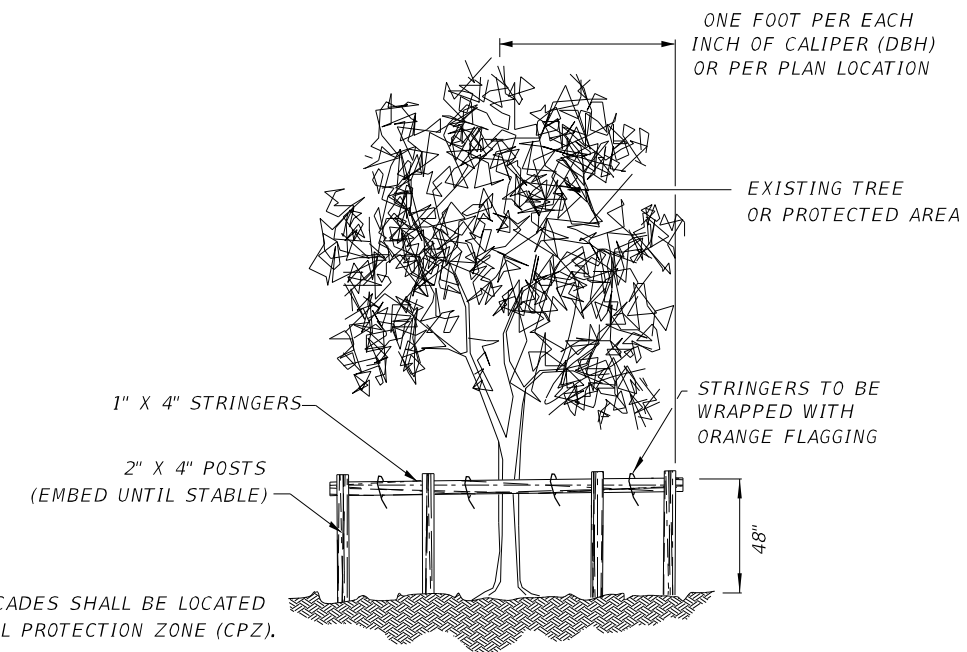
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



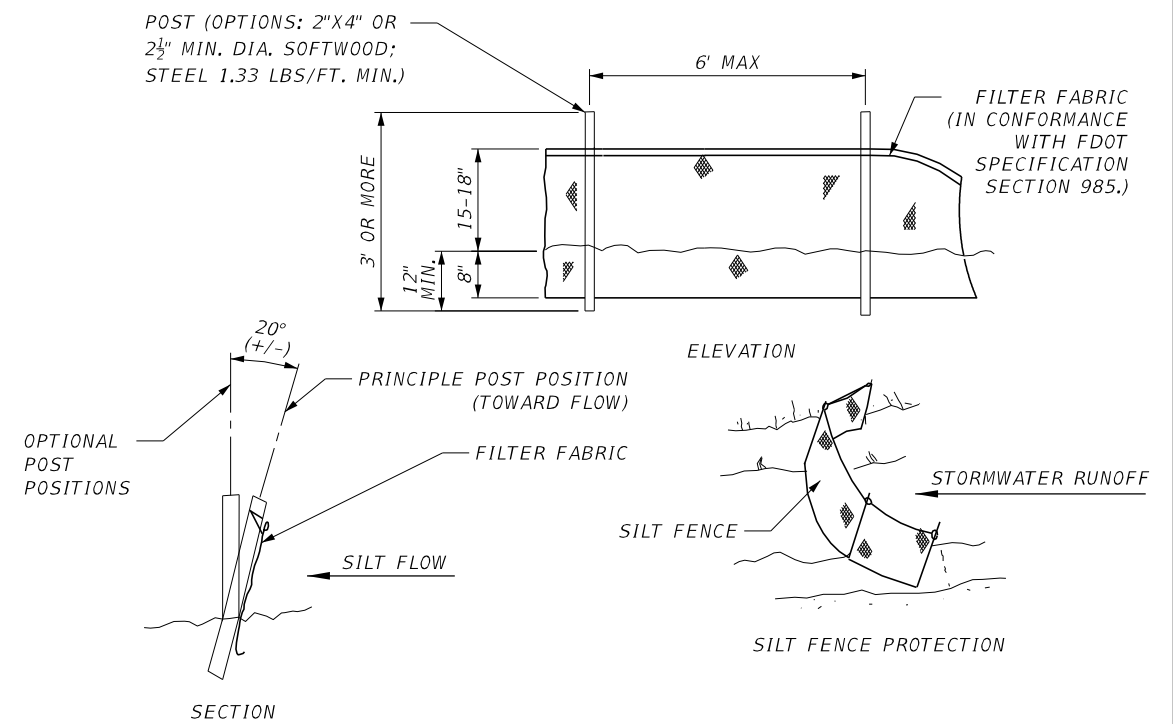
**1 FLOATING TURBIDITY BARRIER**  
 N.T.S.



**2 SOIL TRACKING PREVENTION DEVICE**  
 N.T.S.



**3 TREE PROTECTION BARRICADE DETAIL**  
 N.T.S.



**4 TYPE III SILT FENCE**  
 N.T.S.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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 PHONE: (850) 894-4521 - FAX: (850) 224-0505

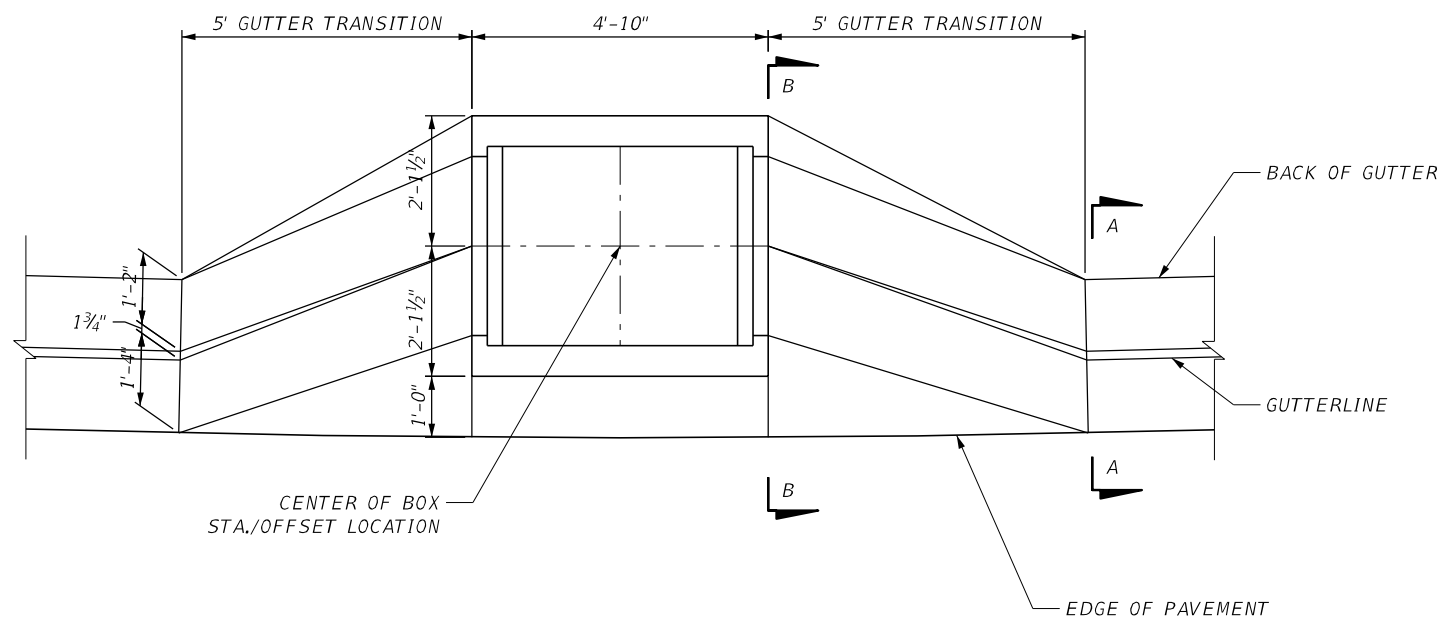
**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**CONSTRUCTION DETAILS**

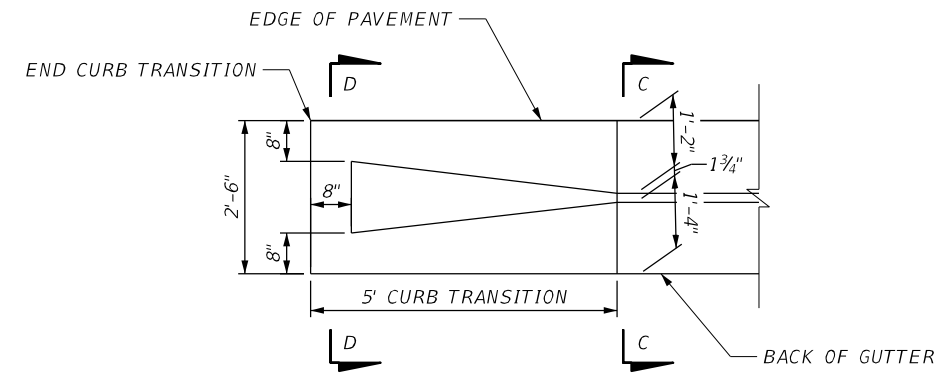
PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.	27
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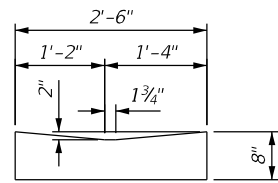
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



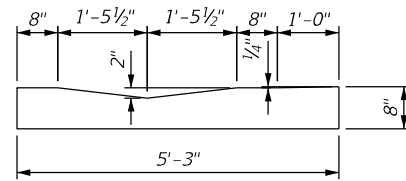
1 GUTTER TRANSITION DETAIL  
N.T.S.



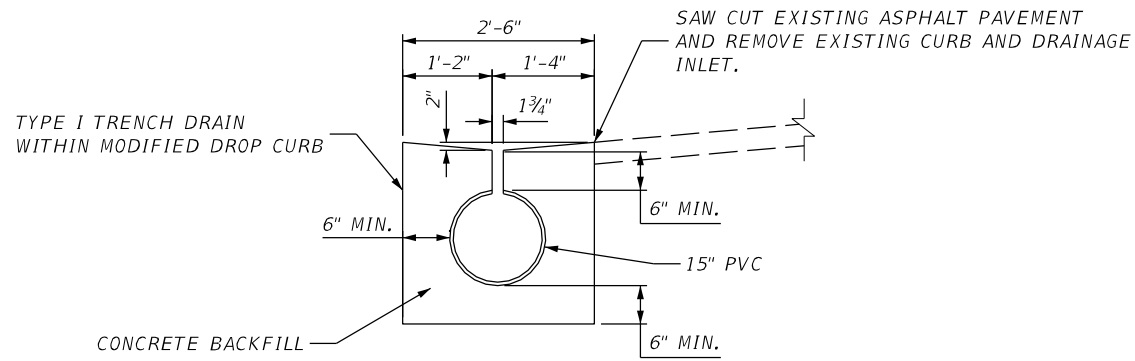
3 CURB TRANSITION DETAIL  
N.T.S.



SECTION A-A

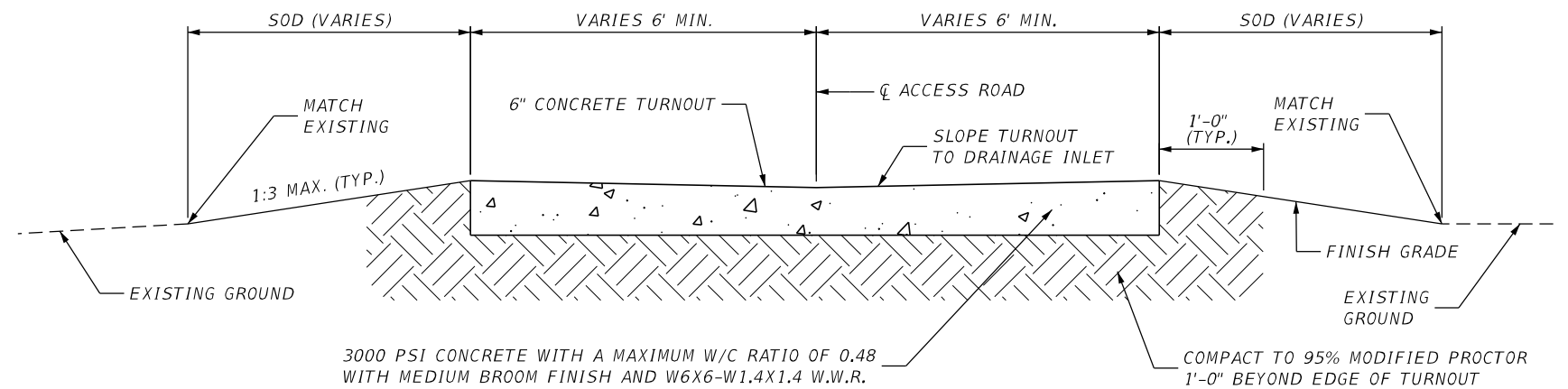


SECTION B-B



2 TRENCH DRAIN/DROP CURB DETAIL  
N.T.S.

NOTE:  
WORK THIS DETAIL WITH FDOT STANDARD PLANS INDEX 436-001.



4 TYPICAL SECTION: CONCRETE TURNOUT  
N.T.S.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

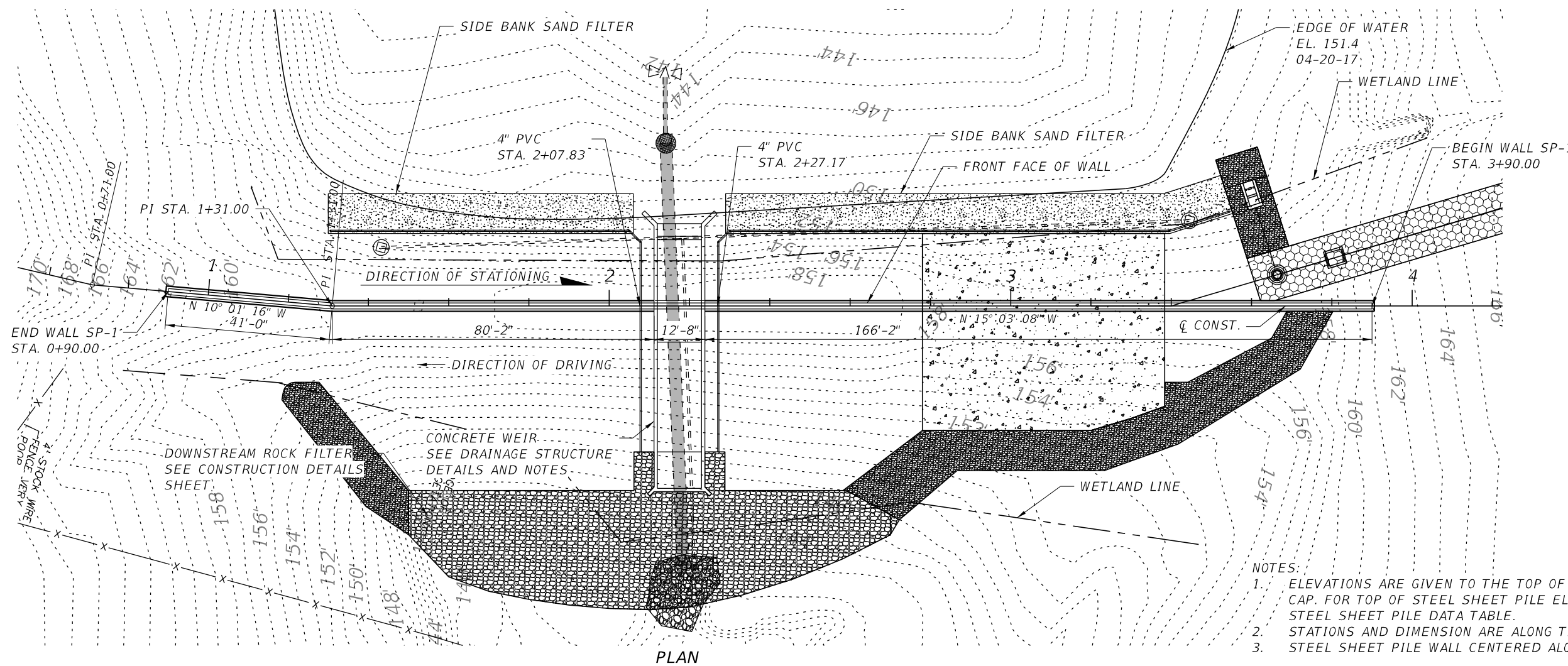
**REGISTE, SLIGER ENGINEERING, INC.**  
ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
P.E. LICENSE NUMBER 55550  
CERTIFICATE OF AUTHORIZATION: 9292  
3370 CAPITAL CIRCLE NE, SUITE J  
TALLAHASSEE, FL 32308  
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PHONE (850) 606-1500 \* FAX (850) 606-1501

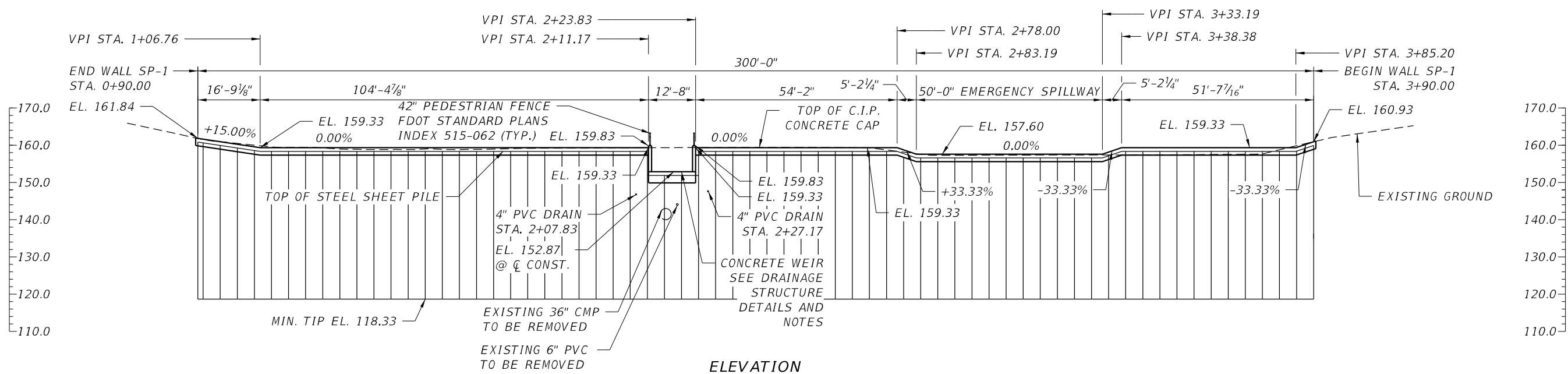
**CONSTRUCTION DETAILS**  
PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO.	28
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- NOTES:**
1. ELEVATIONS ARE GIVEN TO THE TOP OF C.I.P. CONCRETE CAP. FOR TOP OF STEEL SHEET PILE ELEVATIONS, SEE STEEL SHEET PILE DATA TABLE.
  2. STATIONS AND DIMENSION ARE ALONG THE  $\phi$  OF CONST.
  3. STEEL SHEET PILE WALL CENTERED ALONG  $\phi$  CONST.



REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**WALL CONTROL SP-1**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
 29

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES:

1. THE DESIGN PARAMETERS INDICATED IN THE TABLES WERE USED IN THE SHEET PILE WALL ANALYSIS. IF THE CONTRACTOR PLANS OPERATIONS WHICH EXCEED THE DESIGN PARAMETERS SHOWN, THE CONTRACTOR'S SPECIALTY ENGINEER WILL REDESIGN THE WALL TO RESIST CONSTRUCTION LOADS AT A MAXIMUM DEFLECTION OF 3.0 INCHES.
2. THE EMBANKMENT SEEPAGE INVESTIGATION WAS PERFORMED BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. SEE REPORT OF CORE BORINGS FOR BORING LOCATION AND SOIL PROPERTIES.
3. THE ENVIRONMENTAL CLASSIFICATION FOR THE STRUCTURE IS EXTREMELY AGGRESSIVE.

SHEET PILE DRIVING NOTES:

1. STEEL SHEET PILES SHALL BE DRIVEN BY USE OF VIBRATORY OR PRESS IN METHODS ONLY.
2. ALL SHEET PILE SECTIONS SHALL BE DRIVEN TO THE MINIMUM DEPTHS SHOWN IN THE PLANS. PILES SHALL BE DRIVEN SO AS NOT TO SUBJECT THE PILES TO DAMAGE AND TO ENSURE PROPER INTERLOCK THROUGHOUT THEIR LENGTHS. CONTRACTOR SHALL REMOVE AND REPLACE ANY SECTION DAMAGED DURING HANDLING AND/OR INSTALLATION OR PILES DRIVEN OUT OF INTERLOCK AT NO COST TO THE COUNTY.
3. ALL STEEL PILING SHALL HAVE SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THE SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION AND DIMENSIONS NECESSARY TO CONSTRUCT THE WALLS. CONTRACTOR SHALL SUBMIT A PILE DRIVING INSTALLATION PLAN TO THE ENGINEER 14 DAYS PRIOR TO PILE INSTALLATION FOR APPROVAL INCLUDING:

DETAILED DRAWINGS OF TEMPLATES  
 SEQUENCE OF PILE SECTION DRIVING  
 MANUFACTURER'S DATA SHEETS ON HAMMERS  
 LIST AND SIZE OF ALL EQUIPMENT INCLUDING CRANES AND DRIVING EQUIPMENT  
 MONITORING PLAN

CONTRACTOR SHALL PROVIDE A FIXED TEMPLATE, ADEQUATE TO MAINTAIN THE PILE IN PROPER POSITION AND ALIGNMENT DURING DRIVING. WHERE PRACTICAL, PLACE THE TEMPLATE SO THAT THE PILE CAN BE DRIVEN TO CUT-OFF ELEVATION BEFORE REMOVING THE TEMPLATE. ENSURE THAT TEMPLATES DO NOT RESTRICT THE VERTICAL MOVEMENT OF THE PILE. SUPPLY A STABLE REFERENCE CLOSE TO THE PILE, WHICH IS SATISFACTORY IN THE OPINION OF THE ENGINEER, FOR DETERMINATION OF THE PILE PENETRATION. AT THE TIME OF DRIVING PILES, FURNISH THE ENGINEER WITH ELEVATIONS OF THE ORIGINAL GROUND AND TEMPLATE AT EACH PILE.

4. TEMPORARY SOIL EXCAVATION, EMBANKMENT AND/OR DEWATERING OF THE SITE MAY BE REQUIRED AS MEANS AND METHODS TO INSTALL THE SHEET PILE SECTIONS. ALL EXCAVATION SUPPORT AND DEWATERING DESIGN SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA WITH A MINIMUM OF 10 YEARS EXPERIENCE WITH SIMILAR DESIGN WORK.
5. SHEET PILE SECTIONS SHALL BE DRIVEN PLUMB WITHIN A TOLERANCE OF 1% IN ANY DIRECTION.
6. JETTING OF STEEL SHEET PILES SHALL NOT BE PERMITTED.

SHEET PILE INSTALLATION NOTES:

1. SHEET PILES SHALL BE INSTALLED SUCH THAT THE LEADING INTERLOCK IN THE DIRECTION OF DRIVING DOES NOT CONTAIN THE WATER-SWELLING PRODUCT.
2. PRIOR TO THREADING THE TRAILING INTERLOCK OF THE FOLLOWING SHEET (TREATED WITH WATER-SWELLING PRODUCT AND LUBRICATED), INSTALL NONRECOVERABLE INTERLOCK CLEANING TOOL AS PROVIDED BY THE MANUFACTURER FOR EXPULSION OF SOIL FROM THE LEADING INTERLOCK.
3. THE WATER-SWELLING PRODUCT SHALL BE LUBRICATED IMMEDIATELY PRIOR TO SHEET PILE INSTALLATION USING A COMMERCIAL SOAP PRODUCT APPLIED TO THE INTERLOCK WITH A PAINT BRUSH.
4. INDIVIDUAL SHEET PILES SHALL BE DRIVEN TO GRADE IN THEIR FINAL POSITION WITHIN 2 HOURS TO AVOID EXPANSION AND STRIPPING OF THE WATER-SWELLING PRODUCT. PARTIALLY DRIVEN PILES SUSPENDED OR NOT DRIVEN TO GRADE AND IN FINAL POSITION IN EXCESS OF 2 HOURS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. THE EXISTING WATER SWELLING PRODUCT SHALL BE REMOVED AND REAPPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THESE NOTES.
5. THE CONTRACTOR SHALL MONITOR THE TEMPERATURE OF THE SHEET PILE INTERLOCKS DURING INSTALLATION. SUBMIT FOR APPROVAL PRIOR TO SHEET PILE DRIVING OPERATIONS A MONITORING PLAN INCLUDING TEMPERATURE GAUGING TECHNIQUES AND TEMPERATURE RECORDING INTERVALS. IF, AT ANY TIME DURING THE INSTALLATION OF THE SHEET PILES, THE INTERLOCK TEMPERATURE EXCEEDS 270 °F, THE SHEET SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. THE SHEET MAY BE REUSED UPON REMOVAL AND REAPPLICATION OF THE WATER SWELLING PRODUCT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THESE NOTES.

SHEET PILE SECTION:

1. HOT ROLLED STEEL SHEET PILE SHALL BE PROVIDED BY SKYLINE STEEL OR APPROVED EQUAL. STEEL SHEET PILE SECTIONS SHALL BE NZ 28. SKYLINE STEEL MAY BE CONTACTED AT 1-866-875-9546 OR ONLINE AT WWW.SKYLINESTEEL.COM

NZ 28 SECTION PROPERTIES						
STEEL REQUIREMENTS A-572 (ksi)	MINIMUM SECTION MODULUS (in <sup>3</sup> /ft)	MINIMUM REQUIRED MOMENT OF INERTIA (in <sup>4</sup> /ft)	SECTION HEIGHT (in)	WIDTH (in)	THICKNESS	
					FLANGE (in)	WALL (in)
f <sub>y</sub> =50	52.62	457.4	17.38	27.56	0.56	0.56

NZ 28 STEEL SHEET PILE WALL CANTILEVER DATA TABLE		
WALL LOCATION	MINIMUM WALL TIP ELEVATION (ft)	WALL TOP ELEV. (ft)
STATION (BEGIN TO END)		
3+90.00 TO 3+76.00	118.33	159.93-156.33
3+76.00 TO 2+76.00	118.33	156.33
2+76.00 TO 2+70.00	118.33	156.33-158.33
2+70.00 TO 2+52.20	118.33	158.33
2+52.20 TO 2+38.42	118.33	151.87
2+38.42 TO 1+15.14	118.33	158.33
1+15.14 TO 0+90.00	118.33	158.33-160.84

SHEET PILE INTERLOCK WELDING:

1. ALL WELDS SHALL CONFORM TO ANSI/AWS D1.1-96 UTILIZING E70XX ELECTRODES. WELDS SHALL BE A MINIMUM OF 1/4" THICK.
2. PILES SHALL BE SUPPLIED TO THE SITE IN DOUBLE UNITS WITH THE CENTER INTERLOCKS (THREADED AT THE FACTORY) WITH SEALING WELDING CARRIED OUT AT THE FACTORY IN A HORIZONTAL POSITION. WELDING SHALL BE PERFORMED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. WHEN THE GAP BETWEEN ADJACENT INTERLOCKS IS SMALL ENOUGH, IT IS POSSIBLE TO CREATE A SEAL BY APPLYING A SIMPLE FILLET WELD ACROSS THE JOINT.
4. WHERE THE GAP IS TOO LARGE TO BE BRIDGED IN A SINGLE PASS, INTRODUCTION OF A SMALL DIAMETER BAR CAN BE EFFECTIVE WITH A WELD RUN APPLIED TO EITHER SIDE OF THE JOINT TO CREATE THE SEAL.

SHEET PILE COATING REQUIREMENTS:

1. COAT ENTIRE SURFACE OF STEEL SHEET PILES WITH THE EXCEPTION OF NON-WELDED INTERLOCK CHAMBERS.
2. STEEL SHEET PILE COATING SHALL BE A SHOP APPLIED COATING, CONSISTING OF AN INORGANIC ZINC PRIMER COAT, AND 2 COATS OF COAL TAR EPOXY IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 560.
3. COATING APPLICATION EQUIPMENT SHALL BE IN ACCORDANCE WITH THE COATING MANUFACTURER'S TECHNICAL DATA REQUIREMENTS.
4. STEEL SHEET PILE SURFACES IN CONTACT OR ENCASED IN CONCRETE SHALL NOT BE COATED.

REVISIONS		REVISIONS		 REGISTE, SLIGER ENGINEERING, INC. ENGINEER OF RECORD: JOHN F. SLIGER II, P.E. P.E. LICENSE NUMBER 55550 CERTIFICATE OF AUTHORIZATION: 9292 3370 CAPITAL CIRCLE NE, SUITE J TALLAHASSEE, FL 32308 PHONE: (850) 894-4521 - FAX: (850) 224-0505	 LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	STEEL SHEET PILE NOTES		SHEET NO.  30
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



## WATER-SWELLING PRODUCT:

1. THE WATER-SWELLING PRODUCT SHALL BE ADEKA ULTRASEAL P-021 HYDROPHILIC WATERSTOP OR APPROVED EQUAL. THE PRODUCT SHALL BE A HYDROPHILIC URETHANE PASTE AND SHALL MEET THE MINIMUM PERFORMANCE CRITERIA:



HARDNESS HS- A45  
 TENSILE STRENGTH- 4 MPA  
 ELONGATION- 850%  
 SPECIFIC GRAVITY- 1.25  
 VOLUME EXPANSION- 100%  
 MASS CHANGE- NOT GREATER THAN 5.0%

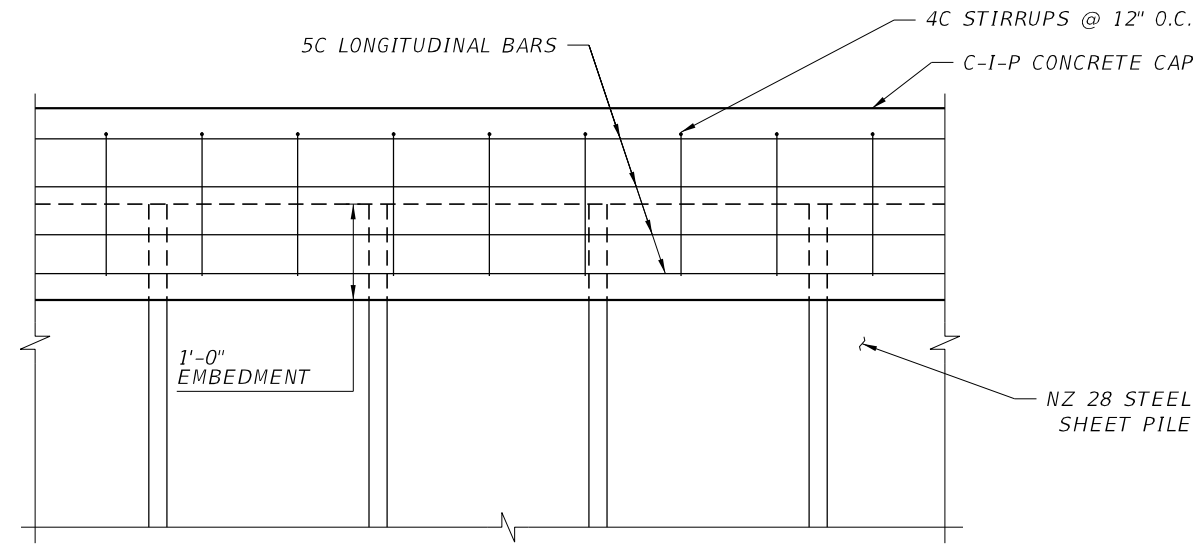
2. THE WATER-SWELLING PRODUCT SHALL BE FIELD APPLIED USING THE ROXAN SEALANT SYSTEM OR APPROVED EQUAL. THE FOLLOWING SPECIFICATIONS SHALL BE APPLIED ALONG WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS:

1. THE INTERLOCK MUST BE DRY PRIOR TO APPLICATION.
2. LAY OUT THE PILING IN THE HORIZONTAL POSITION.
3. RECENTLY ROLLED PILES NEED TO BE CLEANED WITH A JET OF COMPRESSED AIR. IN THE EVENT OF CORROSION IN THE INTERLOCK, CLEANING WITH A STEEL WIRE BRUSH AND/OR HIGH PRESSURE WATER JET IS NECESSARY.
4. APPLY TO THE SHEET PILE INTERLOCK USING AN AIRLESS OR EXTRUSION PUMP AT A RATE OF 90 LF PER GALLON.
5. IN ORDER TO ENSURE ADEQUATE COATING OF THE SHEET PILE INTERLOCK, USE THE MANUFACTURER SUPPLIED PROFILARBED PATENTED TEMPLATE TO EXTRUDE AND SPREAD THE WATER-SWELLING PRODUCT.
6. FILL IN THE INTERLOCK TAKING INTO ACCOUNT THE DIRECTION OF THE DRIVING.
7. THE PILES SHALL BE SUPPLIED AND FITTED TOGETHER IN DOUBLE UNITS. THE INTERMEDIATE INTERLOCK SHALL BE SHOP WELDED. ONLY THE TRAILING INTERLOCK SHALL BE FILLED WITH THE WATER-SWELLING PRODUCT.
8. PILES WITH WATER-SWELLING PRODUCT SHALL BE TRANSPORTED WITH THE OPENINGS OF THE SEALED, FREE INTERLOCKS FACING DOWNWARDS.
9. THE WATER-SWELLING PRODUCT SHALL BE APPLIED UNDER SHELTER AT AMBIENT TEMPERATURES. PRIOR TO DRIVING OF SHEETS, ALLOW FOR A MINIMUM CURE DURATION OF 48 HOURS AFTER APPLICATION OF WATER-SWELLING PRODUCT. STORE SHEETS DURING CURE PERIOD WITH THE OPEN ENDS OF THE SEALED INTERLOCKS FACING DOWNWARD AND UNDER SHELTER.

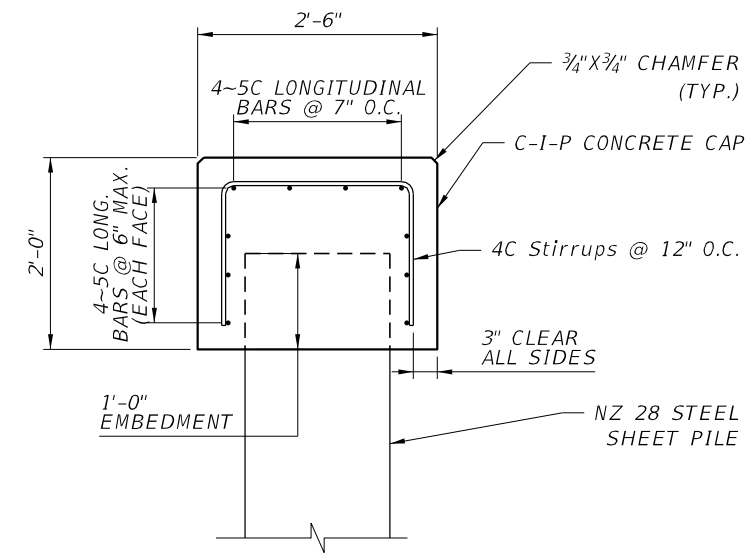
## SHEET PILE SPLICING:

1. AT THE CONTRACTOR'S OPTION, THE STEEL SHEET PILES MAY BE SUPPLIED IN FULL LENGTH SECTIONS OR PARTIAL LENGTH SECTIONS. IF THE CONTRACTOR ELECTS TO HAVE THE SHEETS SUPPLIED IN PARTIAL SECTIONS, THE SECTIONS SHALL BE FIELD SPLICED IN ACCORDANCE WITH THE STEEL SHEET PILE SPLICING DETAILS.

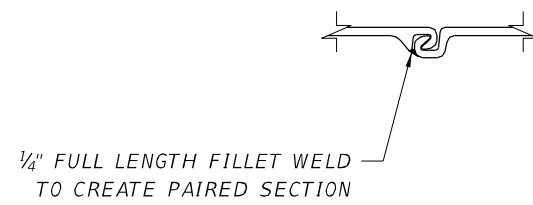
REVISIONS		REVISIONS		 <b>REGISTE, SLIGER ENGINEERING, INC.</b> ENGINEER OF RECORD: JOHN F. SLIGER II, P.E. P.E. LICENSE NUMBER 55550 CERTIFICATE OF AUTHORIZATION: 9292 3370 CAPITAL CIRCLE NE, SUITE J TALLAHASSEE, FL 32308 PHONE: (850) 894-4521 - FAX: (850) 224-0505	 <b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b> 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	<b>STEEL SHEET PILE NOTES</b>  PROJECT NAME: <b>CENTERVILLE TRACE POND          STRUCTURE REPLACEMENT</b>	SHEET NO.  31
DATE	DESCRIPTION	DATE	DESCRIPTION				



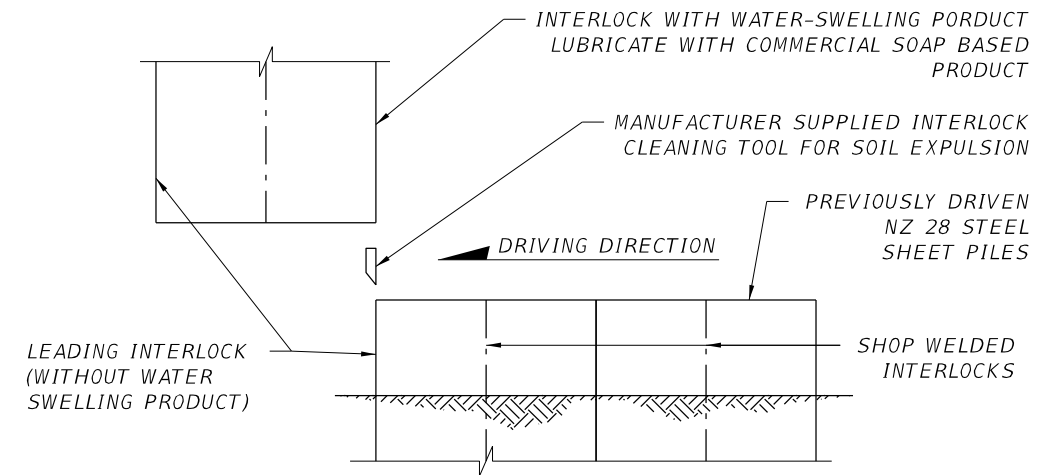
1 SHEET PILE PARTIAL ELEVATION  
N.T.S.



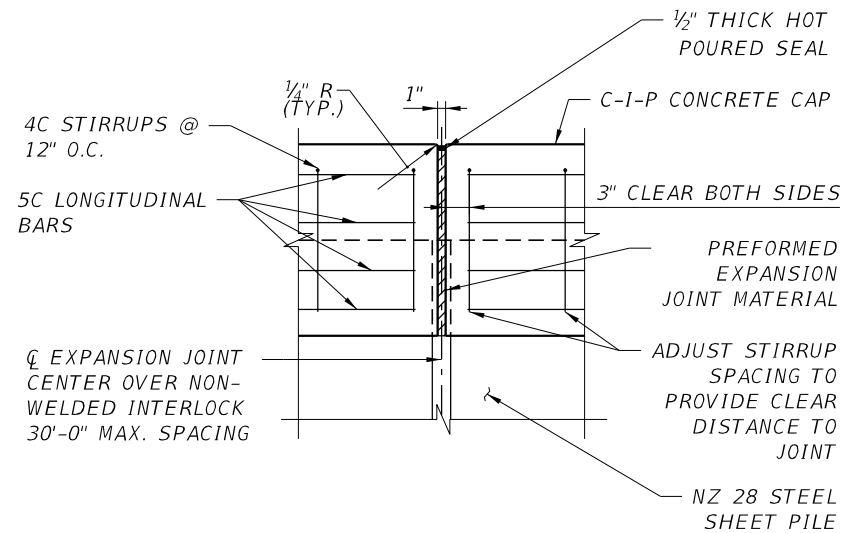
2 SHEET PILE SECTION  
N.T.S.



5 INTERLOCK DETAILS  
N.T.S.



4 DRIVING DETAILS  
N.T.S.



3 C.I.P CONCRETE CAP  
EXPANSION JOINT DETAIL  
N.T.S.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION



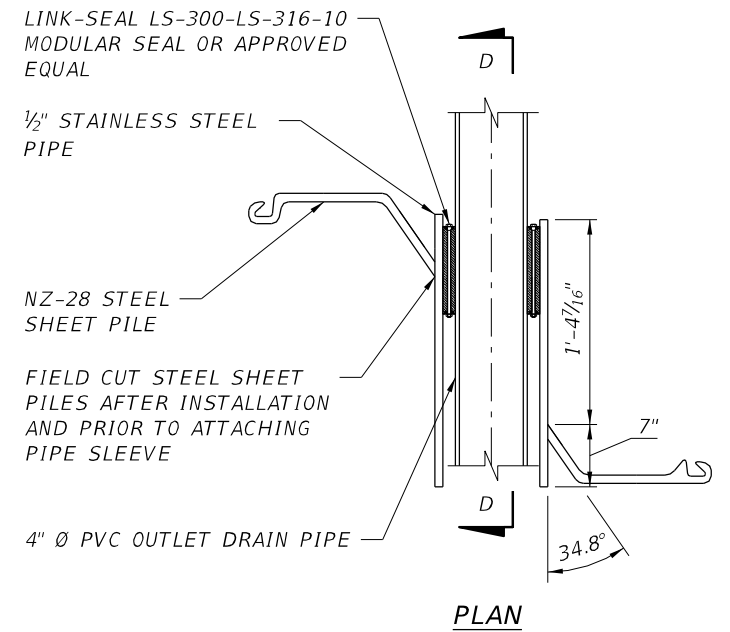
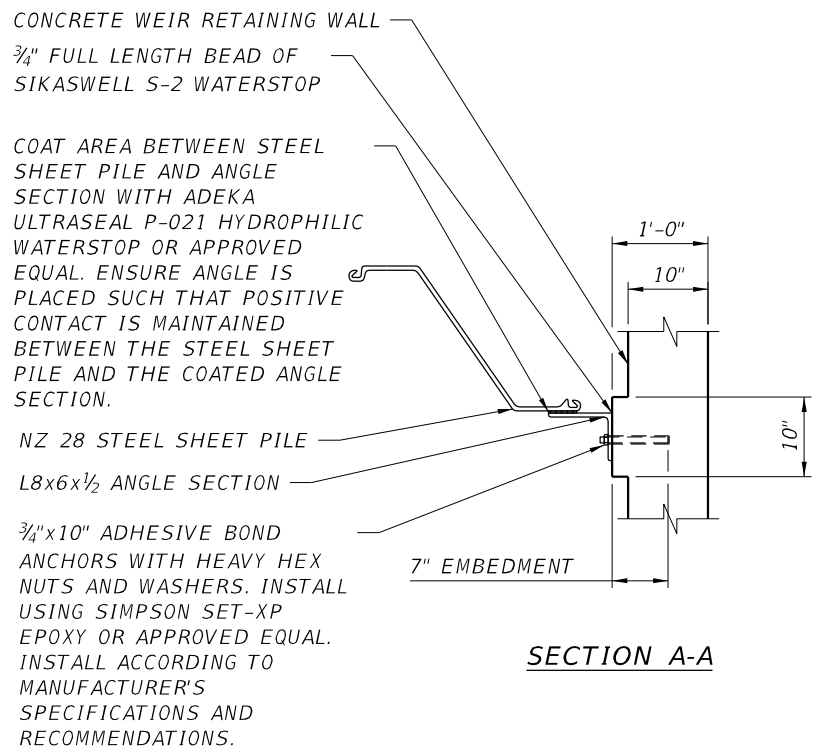
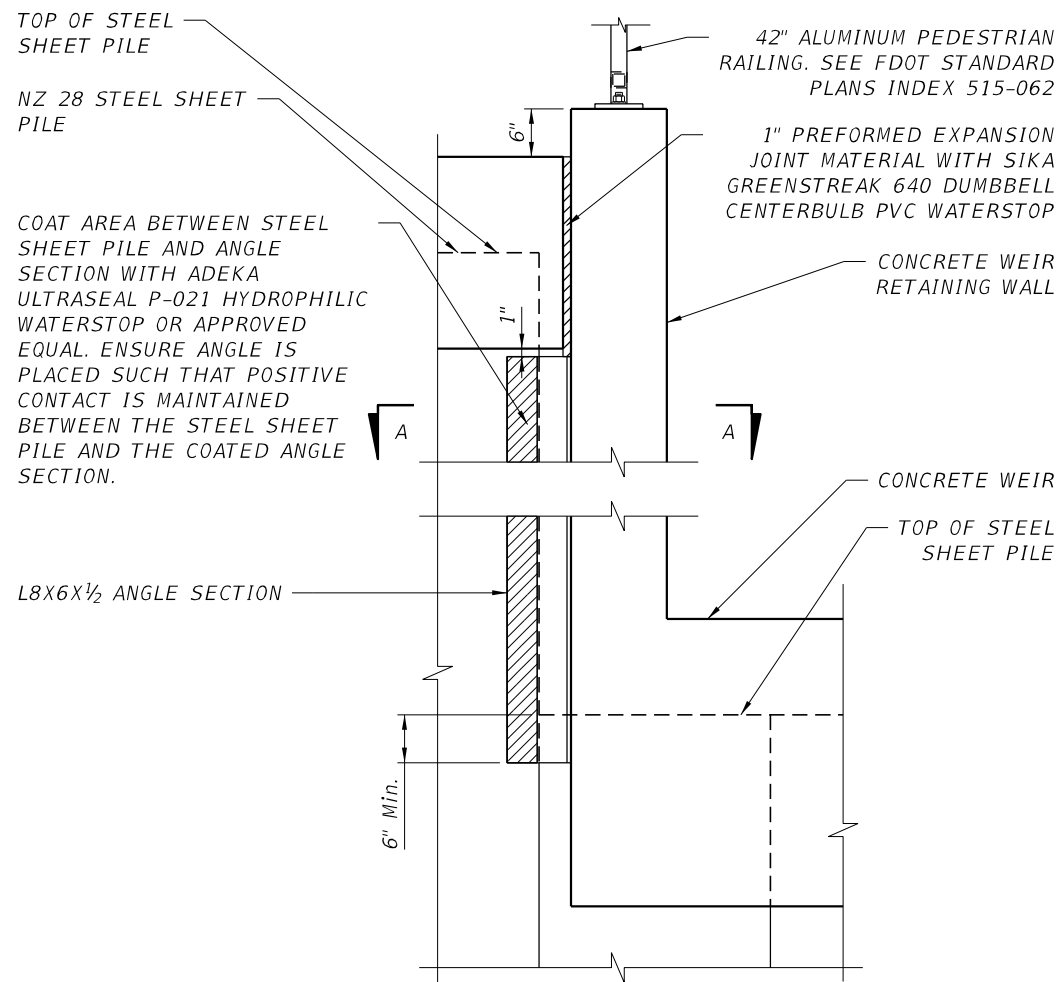
**REGISTE, SLIGER ENGINEERING, INC.**  
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
 P.E. LICENSE NUMBER 55550  
 CERTIFICATE OF AUTHORIZATION: 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505



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 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
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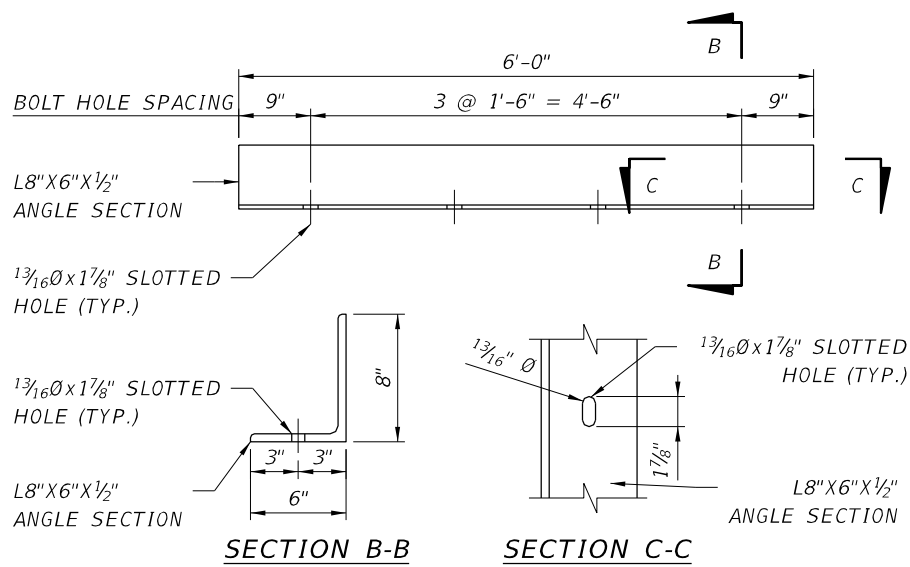
**STEEL SHEET PILE  
 DETAILS (1 OF 3)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
32



1 WALL JOINT DETAIL  
N.T.S. (TYPICAL FOR BOTH SIDES OF WEIR)

3 DRAIN PIPE PENETRATION DETAIL  
N.T.S.



2 ANGLE SECTION DETAIL  
N.T.S.

- NOTES:
- ADHESIVE BOND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 416.
  - ADHESIVE ANCHORS SHALL BE ASTM A307 WITH A MINIMUM TENSILE STRENGTH OF 60KSI.
  - PROVIDE HEAVY HEX NUTS MEETING THE REQUIREMENTS OF ASTM A563.
  - ALL WELDING SHALL BE IN ACCORDANCE WITH AWS (D1.1).

- PIPE PENETRATION NOTES:
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO LEON COUNTY FOR APPROVAL, PRIOR TO CONSTRUCTION SHOW PIPE PENETRATION DETAILS.
  - PIPE WALL PENETRATIONS SEALS TO BE OF THE MODULAR LINK TYPE. SEALS SHALL CONSIST OF A SERIES OF INTERLOCKING, MOLDED SYNTHETIC RUBBER LINKS, WITH HEAVY-DUTY PLASTIC PRESSURE PLATES, AND STAINLESS STEEL NUTS AND BOLTS.
  - SEALS TO BE DESIGNED TO PROVIDE A HYDROSTATIC SEAL BETWEEN THE PIPE AND WALL PENETRATION. SEALS SHALL BE SIZED AND SELECTED PER THE MANUFACTURER RECOMMENDATIONS.
  - MECHANICAL PIPE SEALS SHALL BE FABRICATED OF A EPDM ELASTOMER FOR GENERAL SERVICE. MANUFACTURER SHALL BE GTP INDUSTRIES OR APPROVED EQUAL.
  - PIPE SHALL BE 304 STAINLESS STEEL IN ACCORDANCE WITH ASTM A312.

REVISIONS		REVISIONS	
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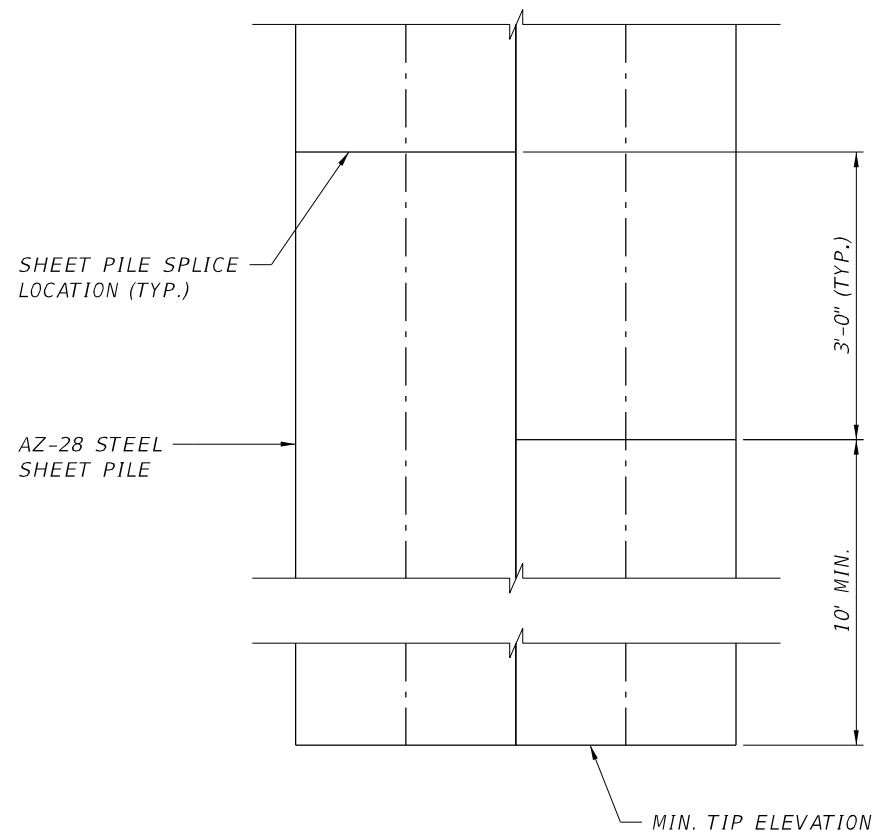
**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**STEEL SHEET PILE  
 DETAILS (2 OF 3)**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**33**

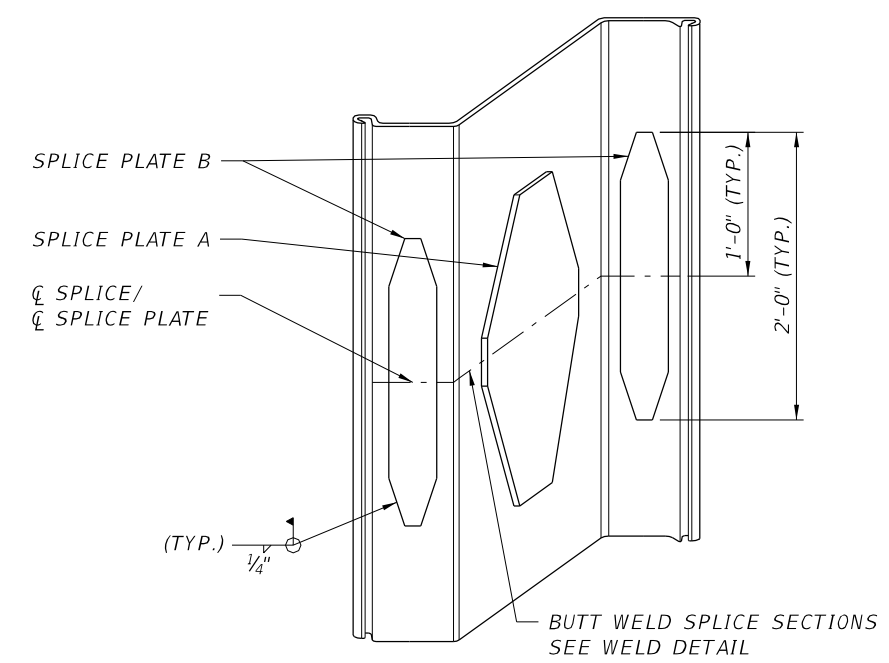
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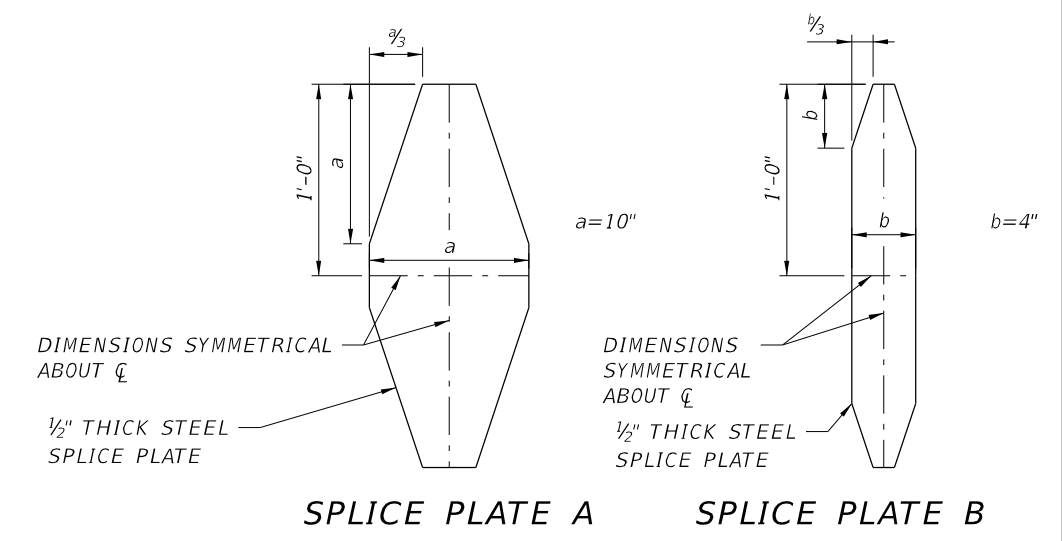
**1** SHEET PILE SPLICE LOCATION  
N.T.S.

- NOTES
1. ALTERNATE SPLICE LOCATIONS EVERY OTHER SHEET SECTION.
  2. SHEET PILE SPLICE TO BE LOCATED 3'-0" ABOVE OR BELOW PREVIOUS SECTION SPLICE LOCATION.

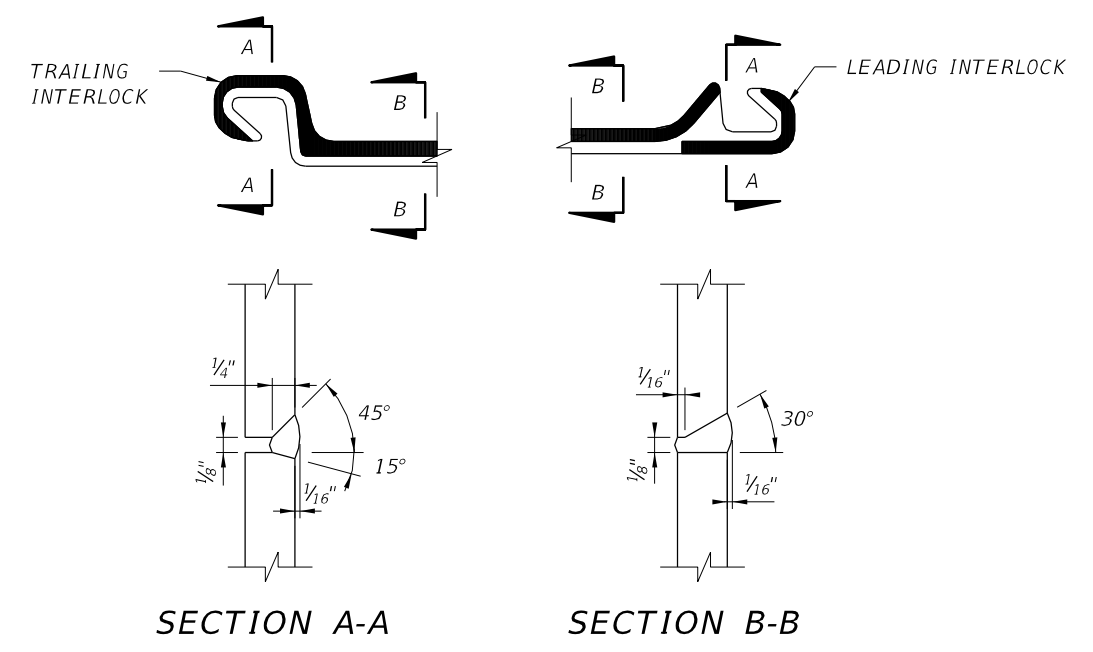
- NOTES:
1. ALL WELDING SHALL CONFORM TO AWS (D1.1).
  2. SPLICE PLATES SHALL MATCH THE GRADE REQUIREMENTS OF THE STEEL SHEET PILES.
  3. INTERLOCKS SHALL BE FREE OF WELD MATERIAL. CONTRACTOR SHALL GRIND THE INTERLOCKS OF SPLICED SHEET SECTIONS IN THE EVENT THAT WELD MATERIAL ENTERS THE INTERLOCK TO THE SATISFACTION OF THE ENGINEER.
  4. SHEET PILE SPLICE LOCATIONS SHALL BE PLACED A MINIMUM OF 10'-0" AND A MAXIMUM OF 13'-0" FROM THE BOTTOM OF THE STEEL SHEET PILE SECTIONS. CONSECUTIVE SPLICE LOCATIONS SHALL BE STAGGERED BY VERTICALLY 3 FEET.
  5. STEEL SHEET PILE SPLICES SHALL BE CONTINUOUSLY BUTT WELDED PRIOR TO WELDING OF STEEL SHEET PILE SPLICE PLATES.
  6. STEEL SHEET PILE SPLICE PLATES SHALL BE WELDED TO THE SAME FACE OF THE STEEL SHEET PILE THROUGHOUT THE WALL LENGTH. SPLICE PLATES ARE REQUIRED AT ALL FLANGE AND ALL WEB LOCATIONS. CENTER SPLICE PLATES ABOUT THE CENTER OF THE WEB OR FLANGE AS APPLICABLE.



**2** ISOMETRIC SPLICE PLATE DETAIL  
N.T.S.



**3** SPLICE PLATE DETAIL  
N.T.S.



**4** BUTT WELD DETAIL  
N.T.S.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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**STEEL SHEET PILE  
DETAILS (3 OF 3)**  
PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO.	34
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

STRUCTURE NOTES



1. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, LOCAL CODES, STANDARDS, REGULATIONS AND LAW. THE GOVERNING BUILDING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 2017, SIXTH EDITION INCLUDING ALL CURRENT AMENDMENTS.
2. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS (+/-) USE ONLY PRINTED DIMENSIONS. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTION FROM THE ENGINEER.
3. THE STRUCTURE AND ITS COMPONENTS ARE DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING OR SUPPORT.
4. DETAILS LABELED "TYP." APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTION REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE LEON COUNTY REPRESENTATIVE.

CONCRETE

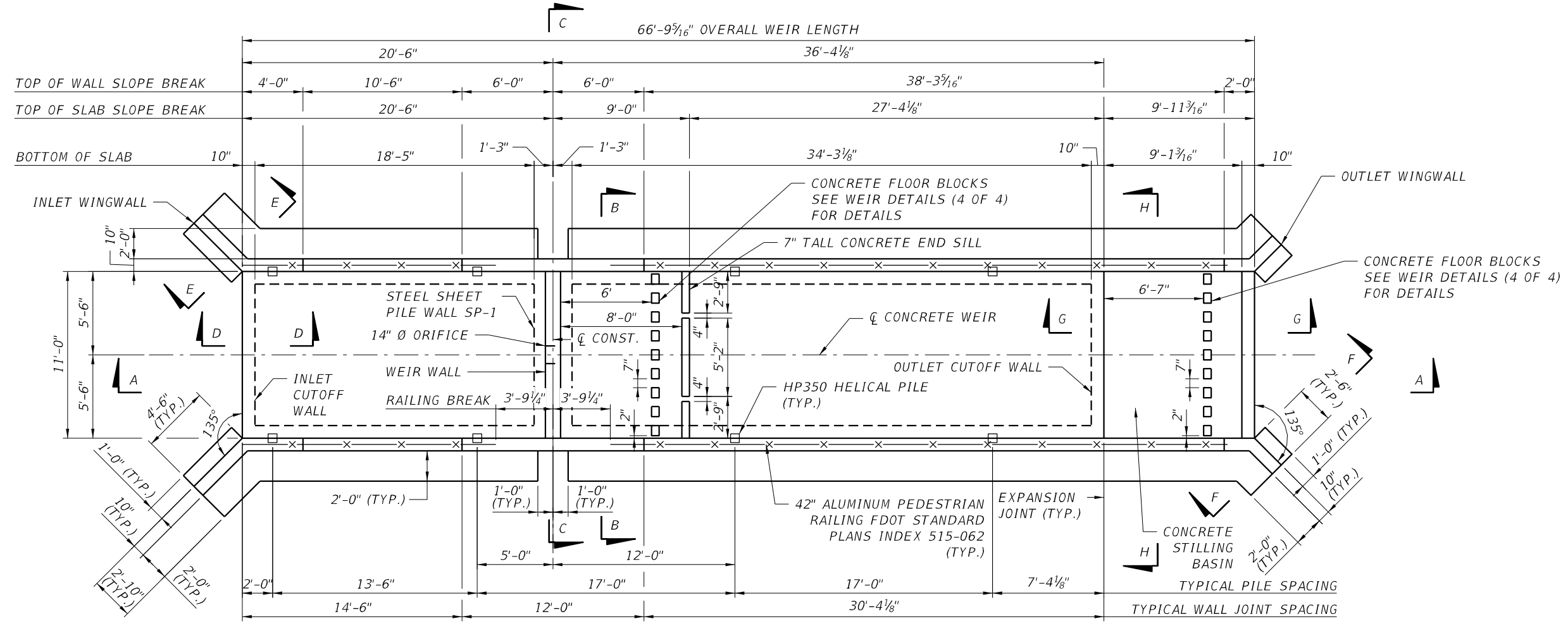
1. CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 346 OF THE FDOT STANDARD SPECIFICATIONS. CONCRETE SHALL INCLUDE A PERMEABILITY REDUCING ADMIXTURE SUCH AS SIKA WATERTIGHT CONCRETE POWDER OR APPROVED EQUAL. USE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE CLASS	MIN. 28 DAY COMPRESSIVE STRENGTH	MAXIMUM WATER/CEMENT RATIO
IV	5,500 PSI	0.41

2. CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO THE CENTERLINE OF THE BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.
3. VIBRATE CONCRETE TO PREVENT HONEYCOMBS AND VOIDS. DO NOT USE ADMIXTURES CONTAINING CHLORIDE SALTS IN THE CONCRETE.
4. ALL REINFORCING STEEL SHALL COMPLY WITH FDOT STANDARD SPECIFICATIONS SECTION 931.

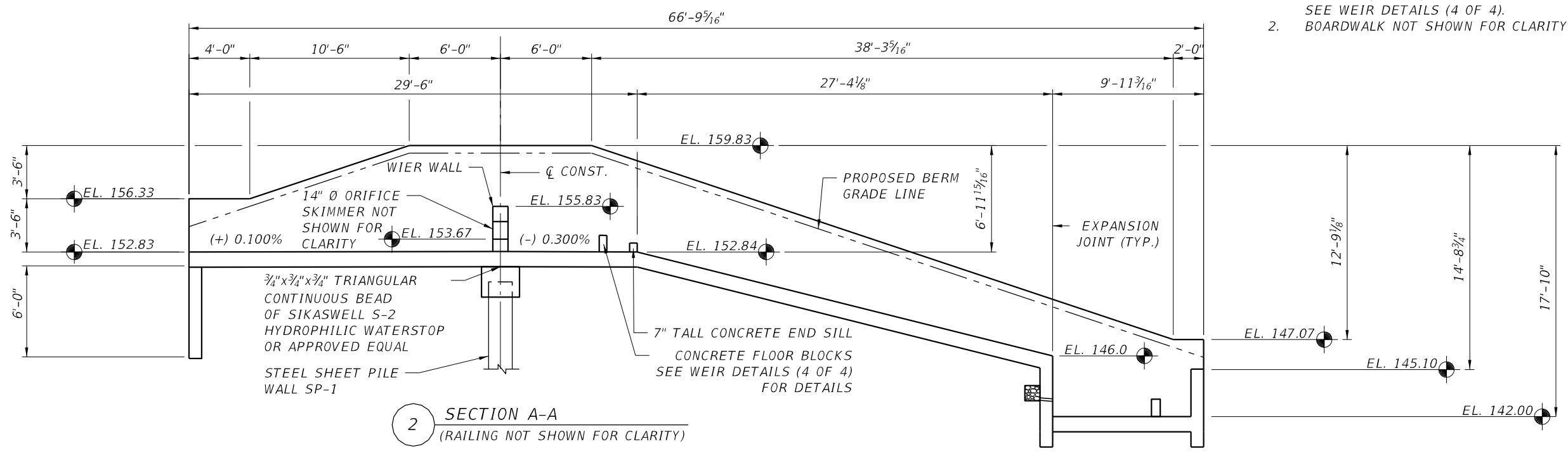
REVISIONS		REVISIONS		 <b>REGISTE, SLIGER ENGINEERING, INC.</b> ENGINEER OF RECORD: JOHN F. SLIGER II, P.E. P.E. LICENSE NUMBER 55550 CERTIFICATE OF AUTHORIZATION: 9292 3370 CAPITAL CIRCLE NE, SUITE J TALLAHASSEE, FL 32308 PHONE: (850) 894-4521 - FAX: (850) 224-0505	 <b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b> 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	<b>STRUCTURE NOTES</b>  PROJECT NAME: <b>CENTERVILLE TRACE POND                  STRUCTURE REPLACEMENT</b>	SHEET NO.  35
DATE	DESCRIPTION	DATE	DESCRIPTION				

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1 PLAN

- NOTES:
- FOR SECTIONS A-A THRU D-D, SEE WEIR DETAILS (3 OF 4). FOR SECTIONS E-E THRU H-H, SEE WEIR DETAILS (4 OF 4).
  - BOARDWALK NOT SHOWN FOR CLARITY.



2 SECTION A-A (RAILING NOT SHOWN FOR CLARITY)

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

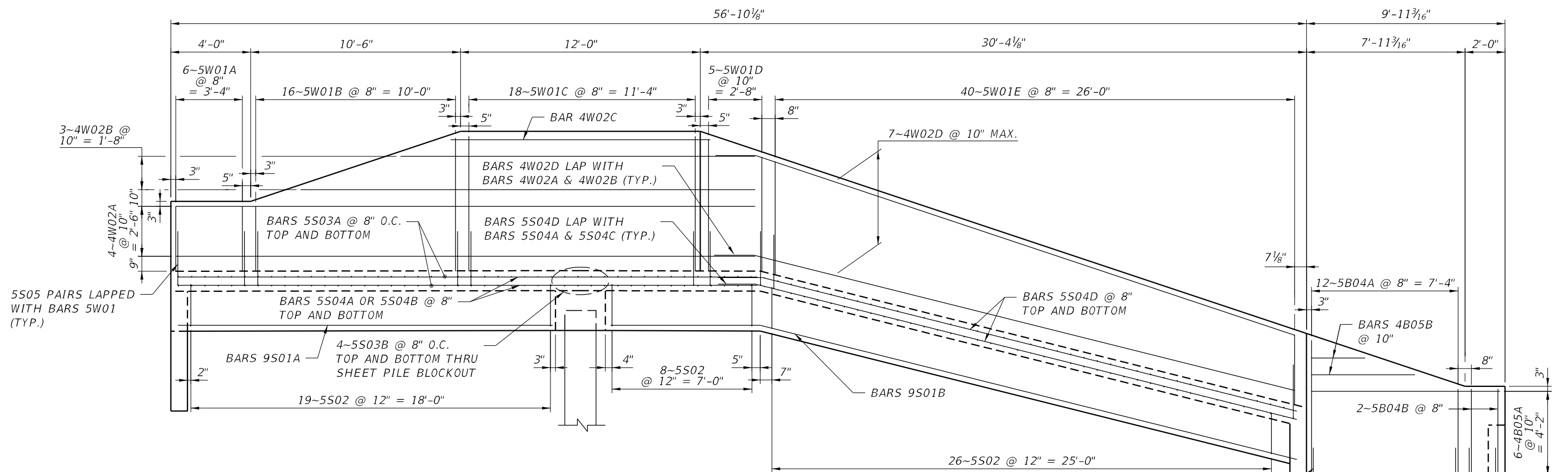
**REGISTE, SLIGER ENGINEERING, INC.**  
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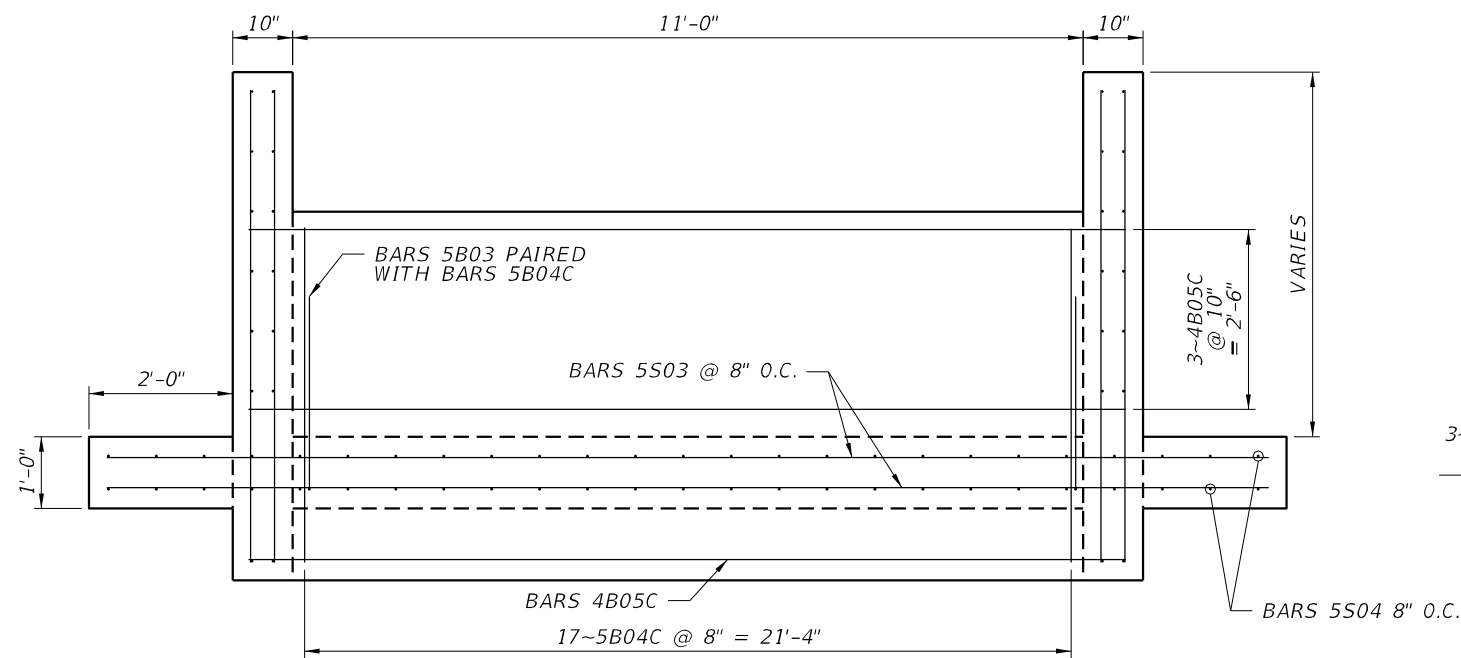
**WEIR DETAILS (1 OF 4)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.	36
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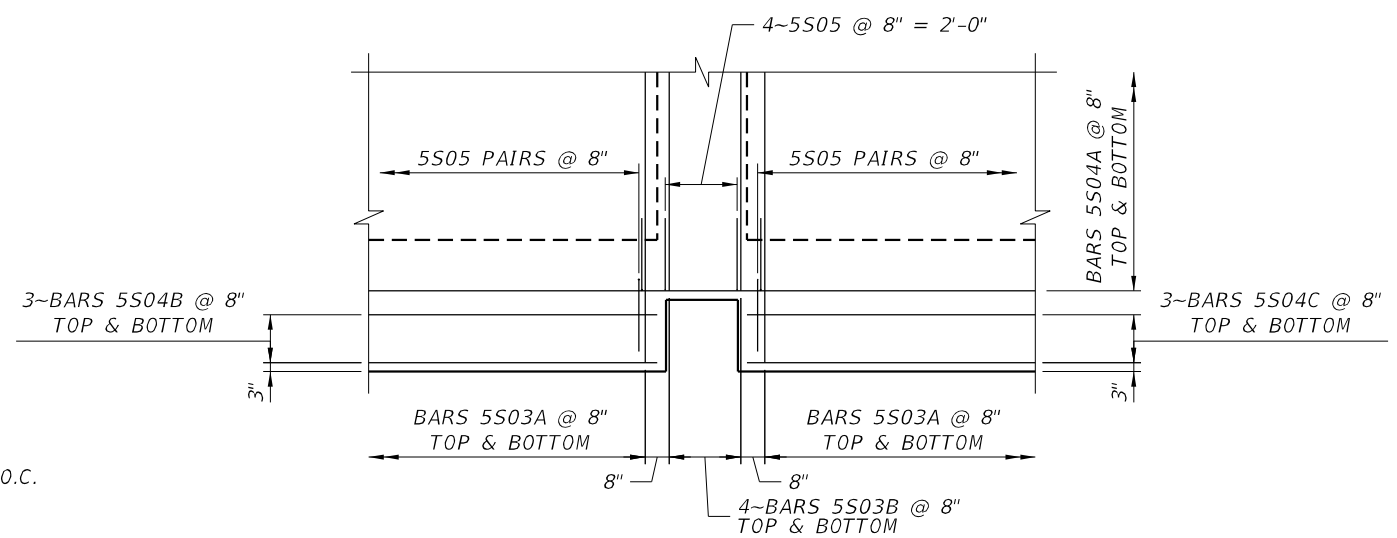
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1 CONCRETE WEIR ELEVATION  
(SHOWING WALL REINFORCING)



2 STILLING BASIN OUTLET WALL ELEVATION  
(SHOWING WALL REINFORCING)



3 SHEET PILE BLOCKOUT  
(SHOWING SLAB REINFORCING)

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

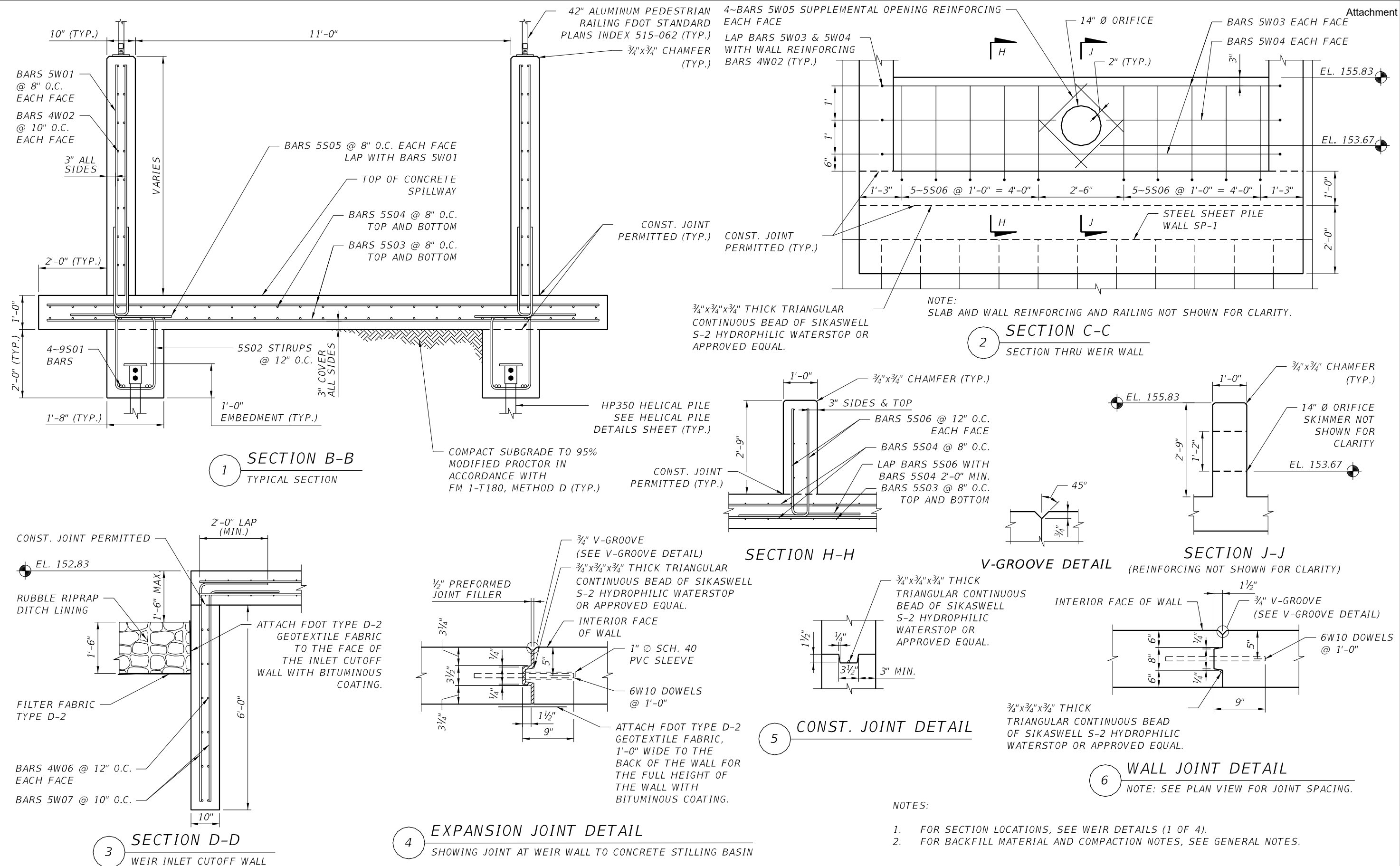
**REGISTE, SLIGER ENGINEERING, INC.**  
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**WEIR DETAILS (2 OF 4)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.	37
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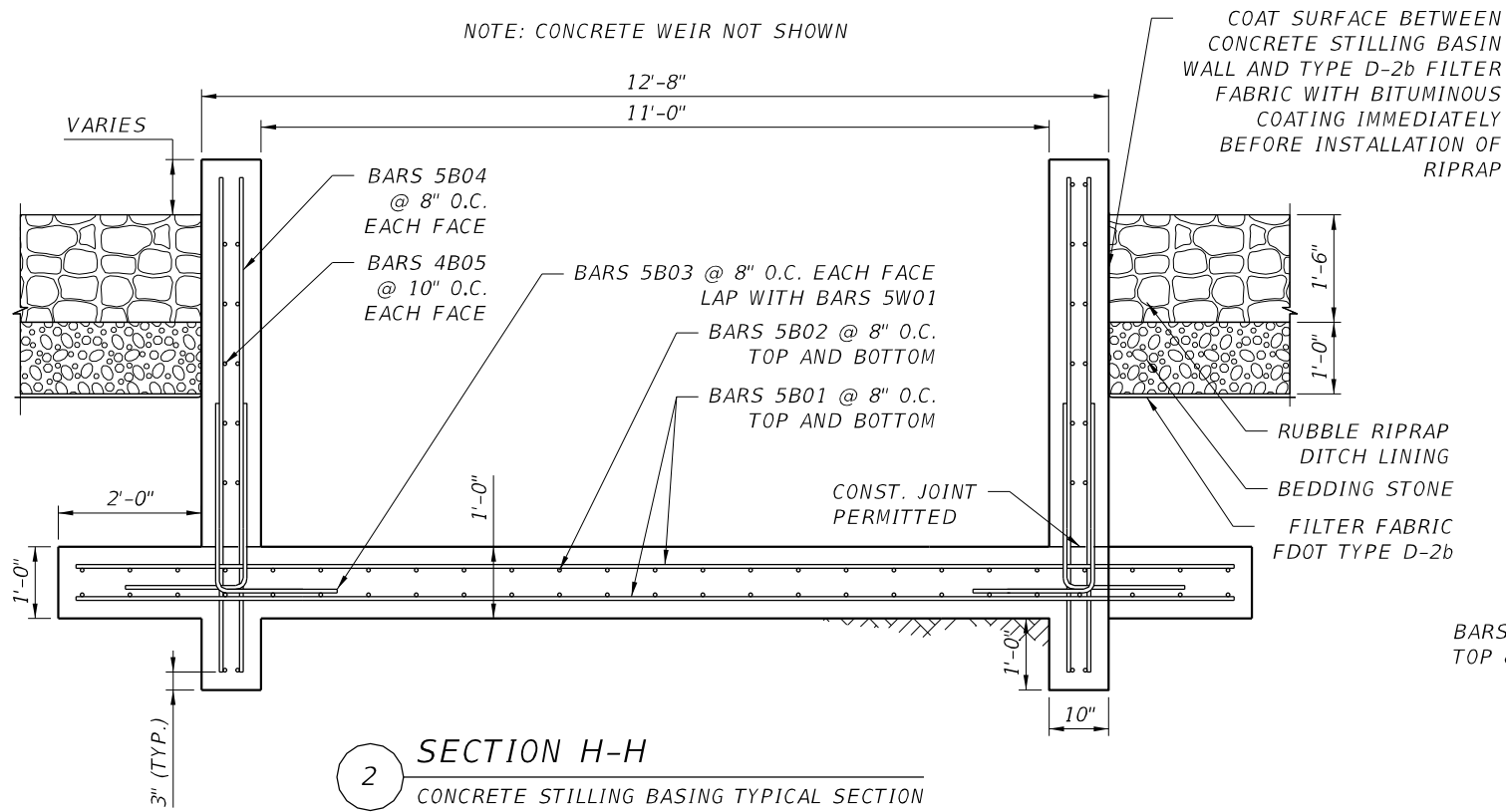
**WEIR DETAILS (3 OF 4)**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

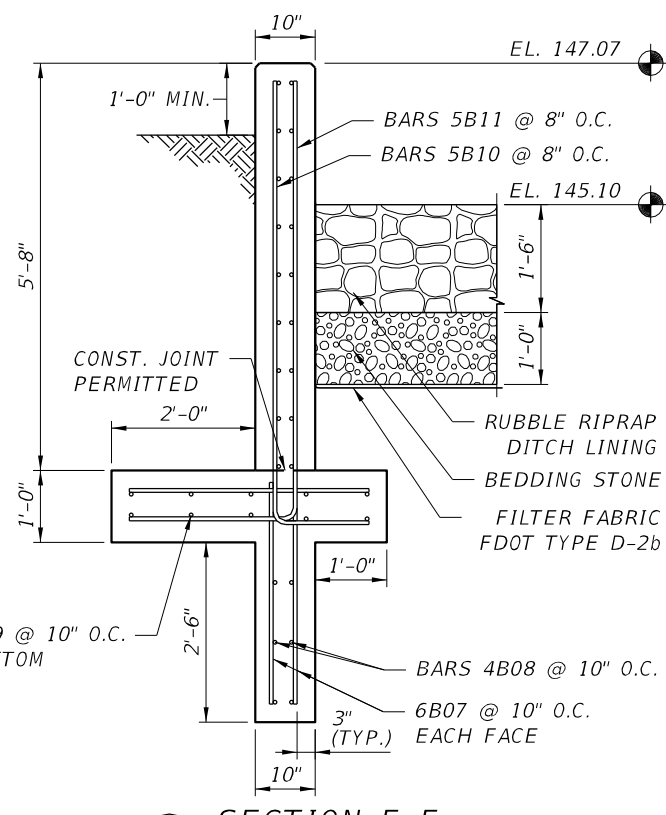
SHEET NO.	38
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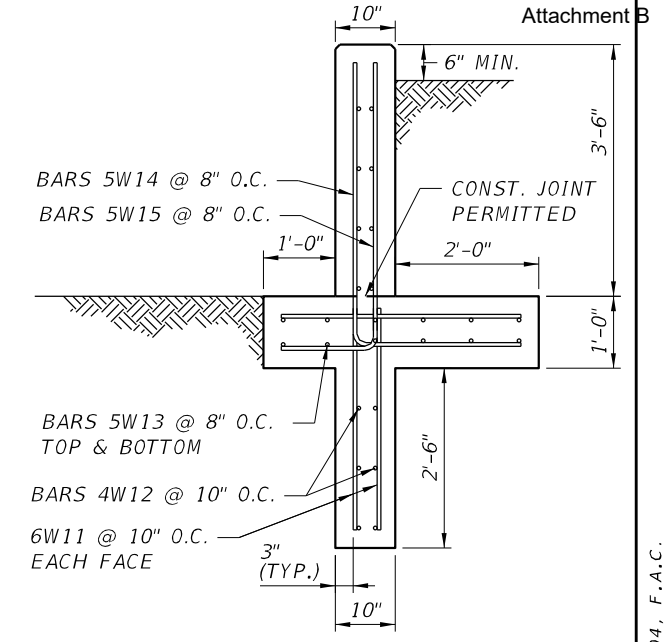




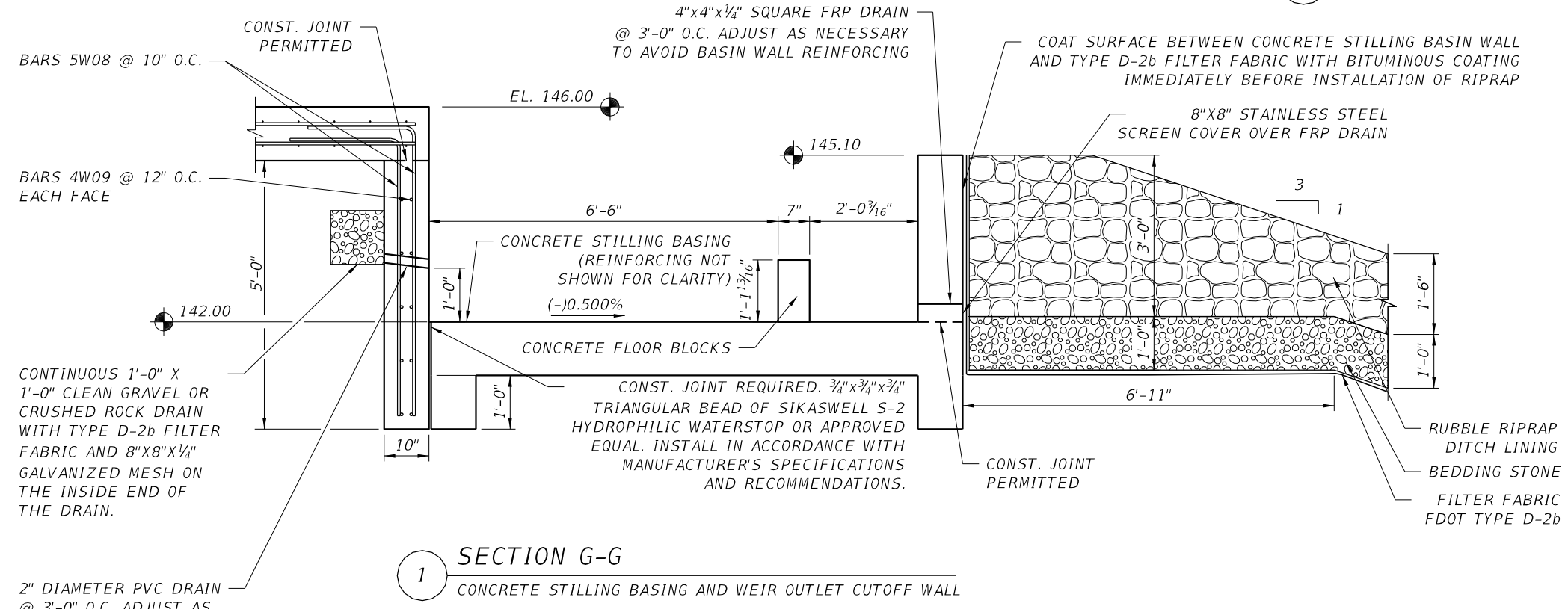
2 SECTION H-H  
CONCRETE STILLING BASING TYPICAL SECTION



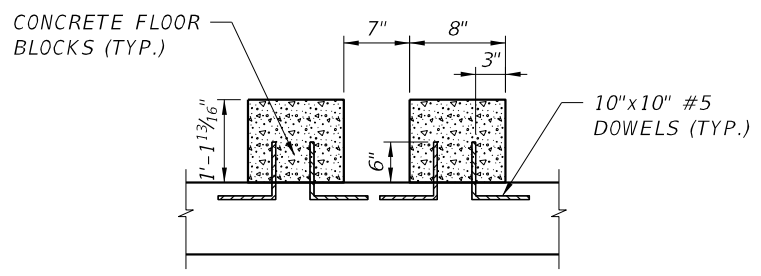
3 SECTION F-F  
OUTLET WINGWALL



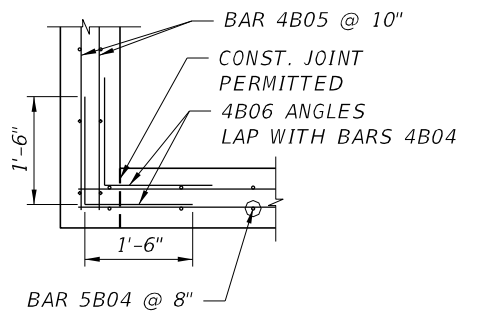
4 SECTION E-E  
INLET WINGWALL



1 SECTION G-G  
CONCRETE STILLING BASING AND WEIR OUTLET CUTOFF WALL



5 CONCRETE FLOOR BLOCK DETAILS



6 CORNER DETAIL

FRP DRAIN COVER SHALL BE 3/4"x9 GAUGE 304 STAINLESS STEEL EXPANDED SHEET SECURED TO CONCRETE STILLING BASING WITH 4-3/16"x1 1/4" STAINLESS STEEL TAPPER CONCRETE SCREWS.

NOTE:  
FOR CONSTRUCTION JOINT DETAILS, SEE WEIR DETAILS (3 OF 4).

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**REGISTE, SLIGER ENGINEERING, INC.**  
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3370 CAPITAL CIRCLE NE, SUITE J  
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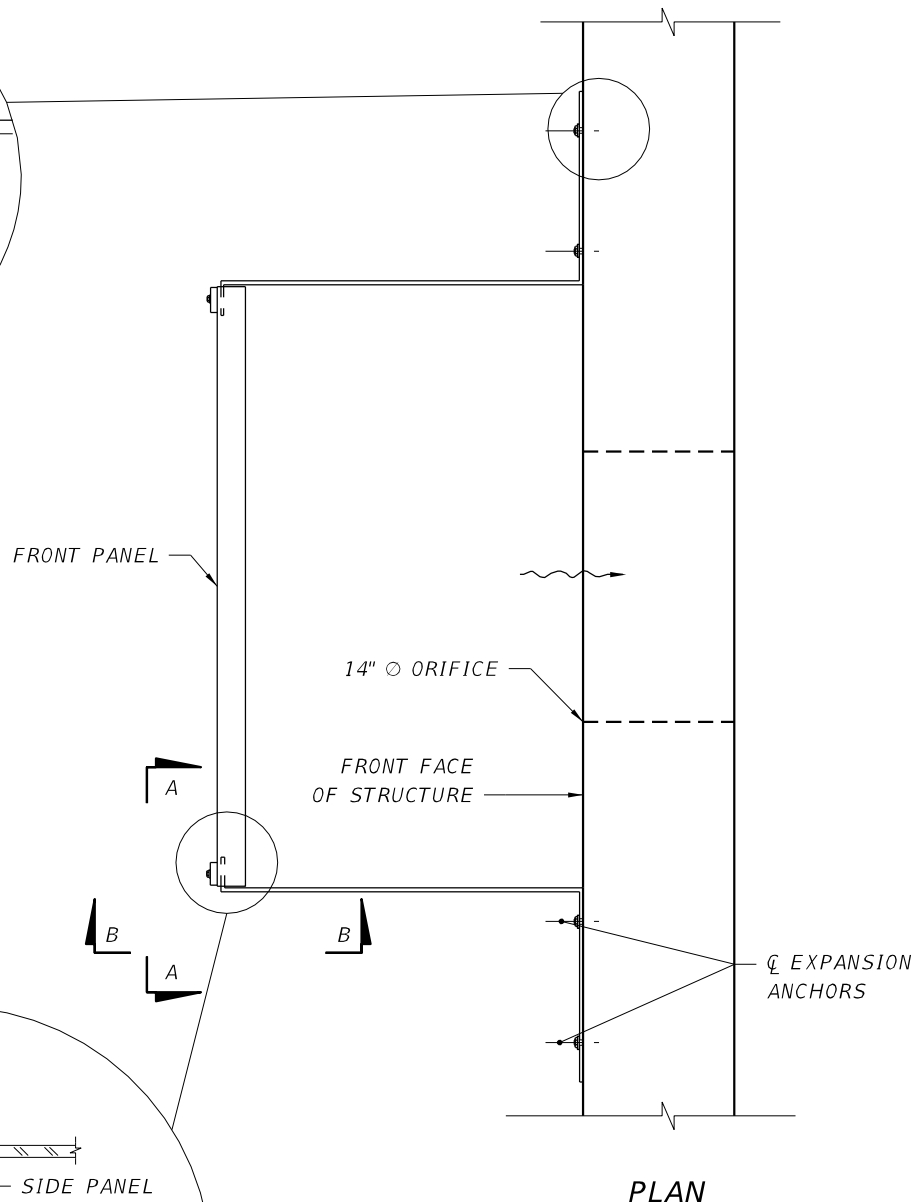
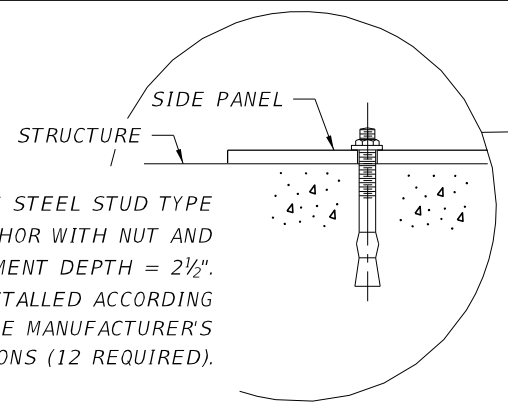
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**WEIR DETAILS (4 OF 4)**  
PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

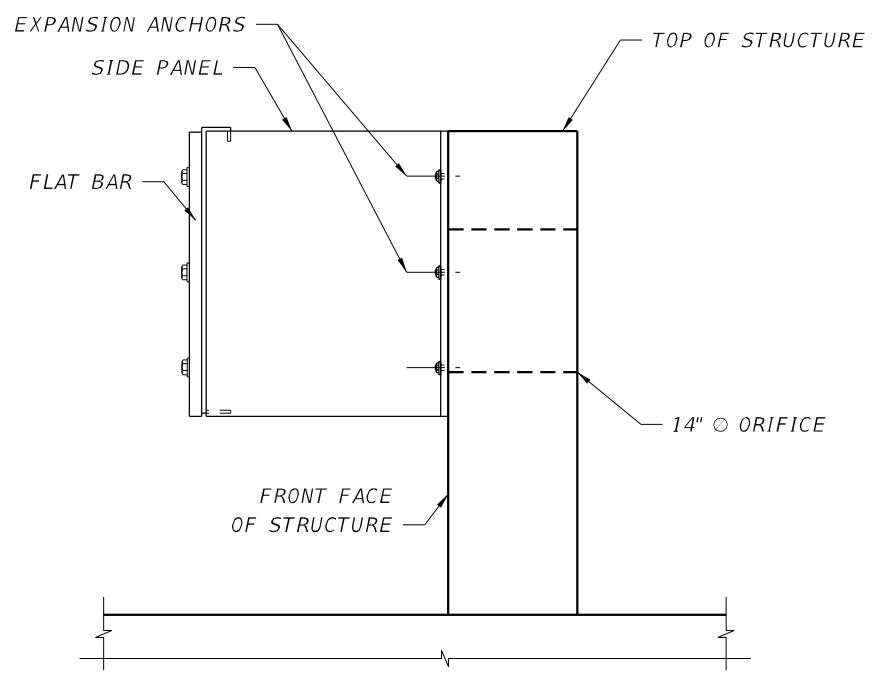
SHEET NO.	39
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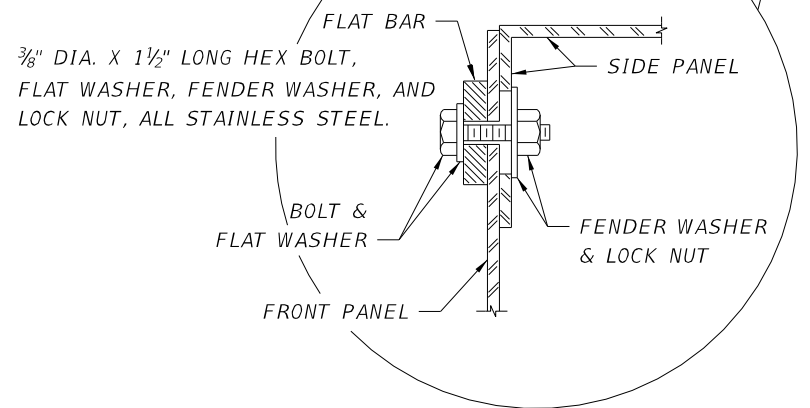
3/8" DIA. STAINLESS STEEL STUD TYPE EXPANSION ANCHOR WITH NUT AND WASHER. EMBEDMENT DEPTH = 2 1/2". ANCHORS TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS (12 REQUIRED).



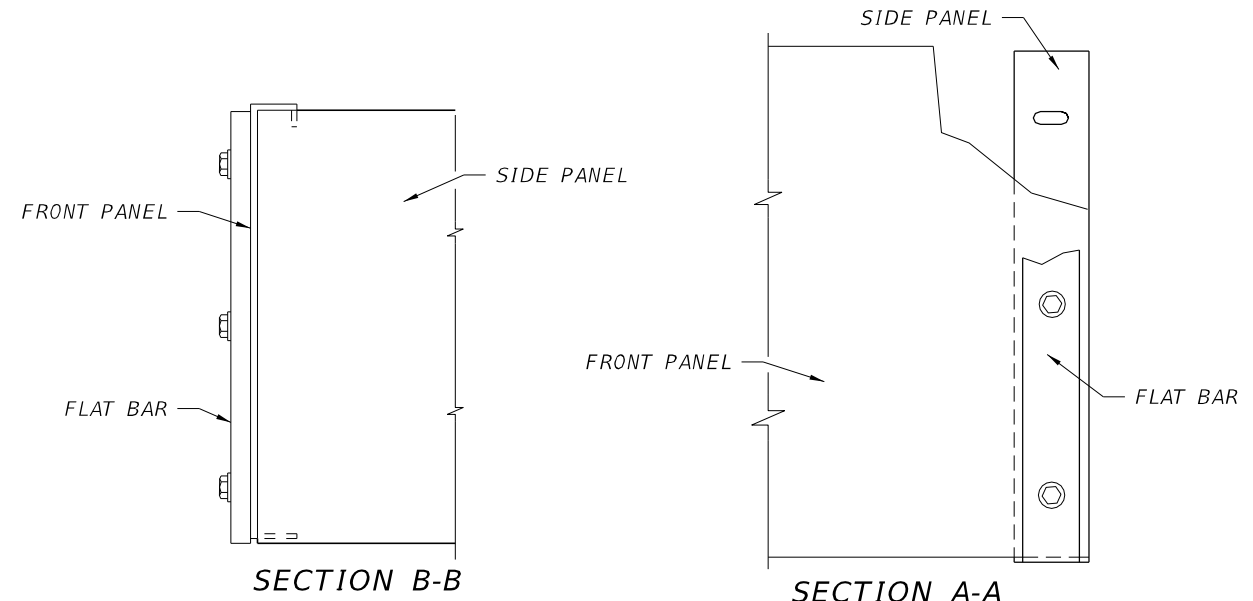
PLAN



ELEVATION VIEW



3/8" DIA. X 1 1/2" LONG HEX BOLT, FLAT WASHER, FENDER WASHER, AND LOCK NUT, ALL STAINLESS STEEL.



SECTION B-B

SECTION A-A

1. THE FRONT PANEL, SIDE PANELS, AND FLAT BARS ARE TO BE HOT DIP GALVANIZED AFTER FABRICATION.
2. A SKIMMER CONSISTS OF TWO (2) SIDE PANELS, ONE FRONT PANEL, TWO (2) FLAT BARS, AND ACCESSORY HARDWARE.

REVISIONS		REVISIONS	
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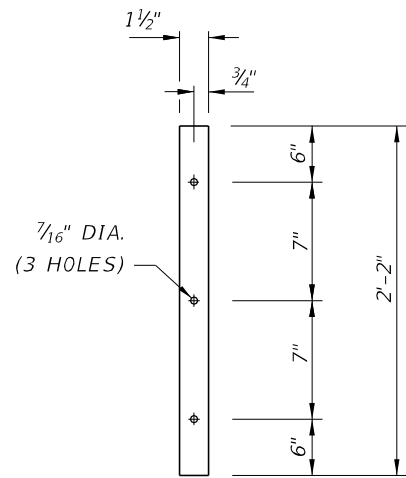
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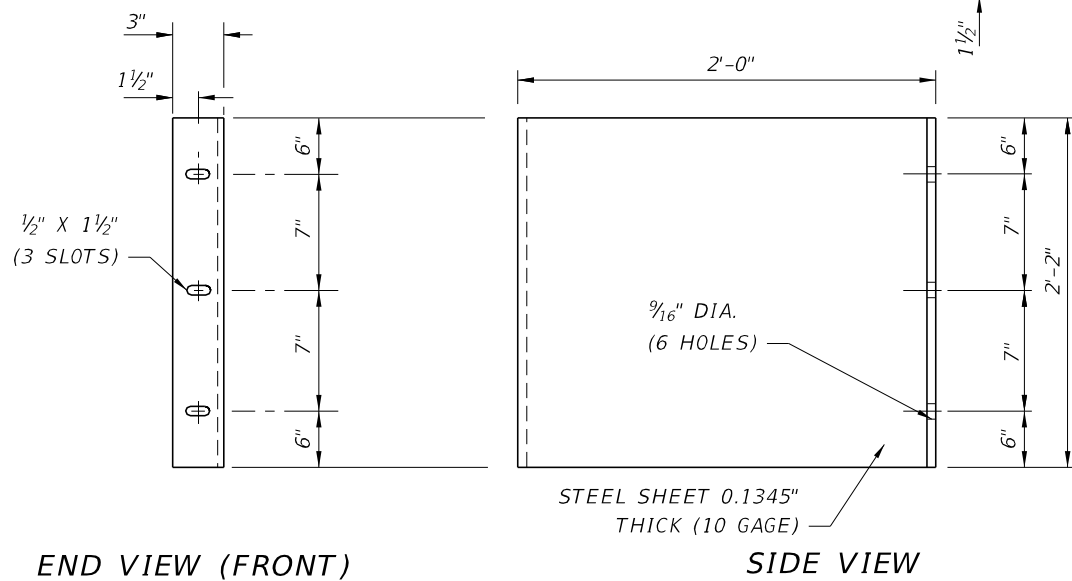
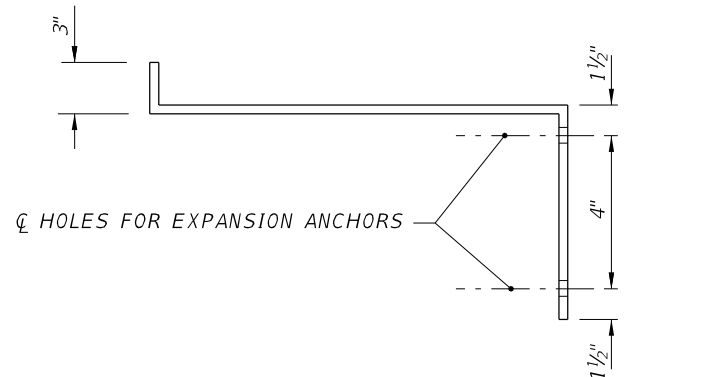
**SKIMMER DETAILS (1 OF 2)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**40**

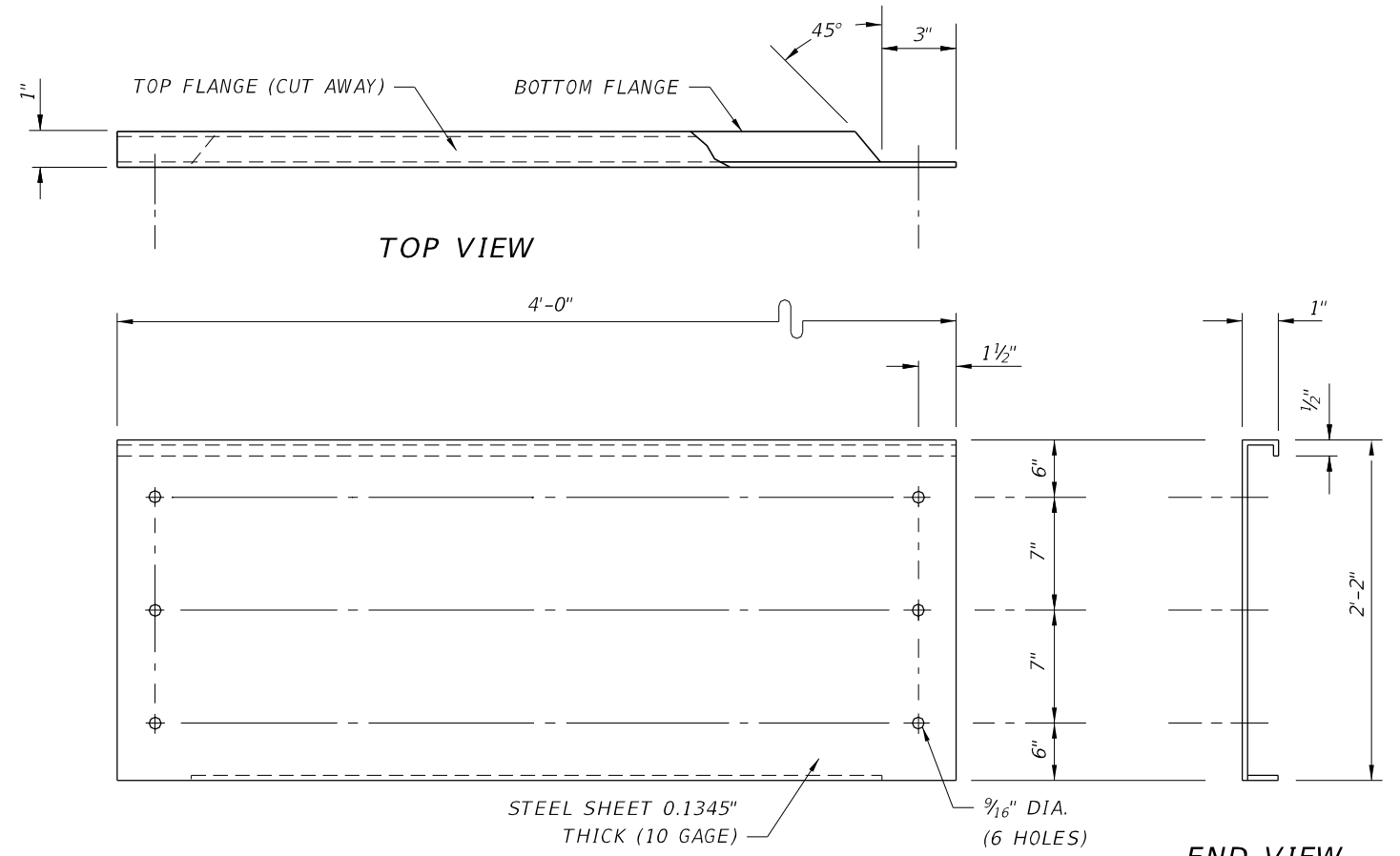
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1/4" THICK X 1 1/2" WIDE  
FLAT BAR



SIDE PANEL



FRONT VIEW

FRONT PANEL

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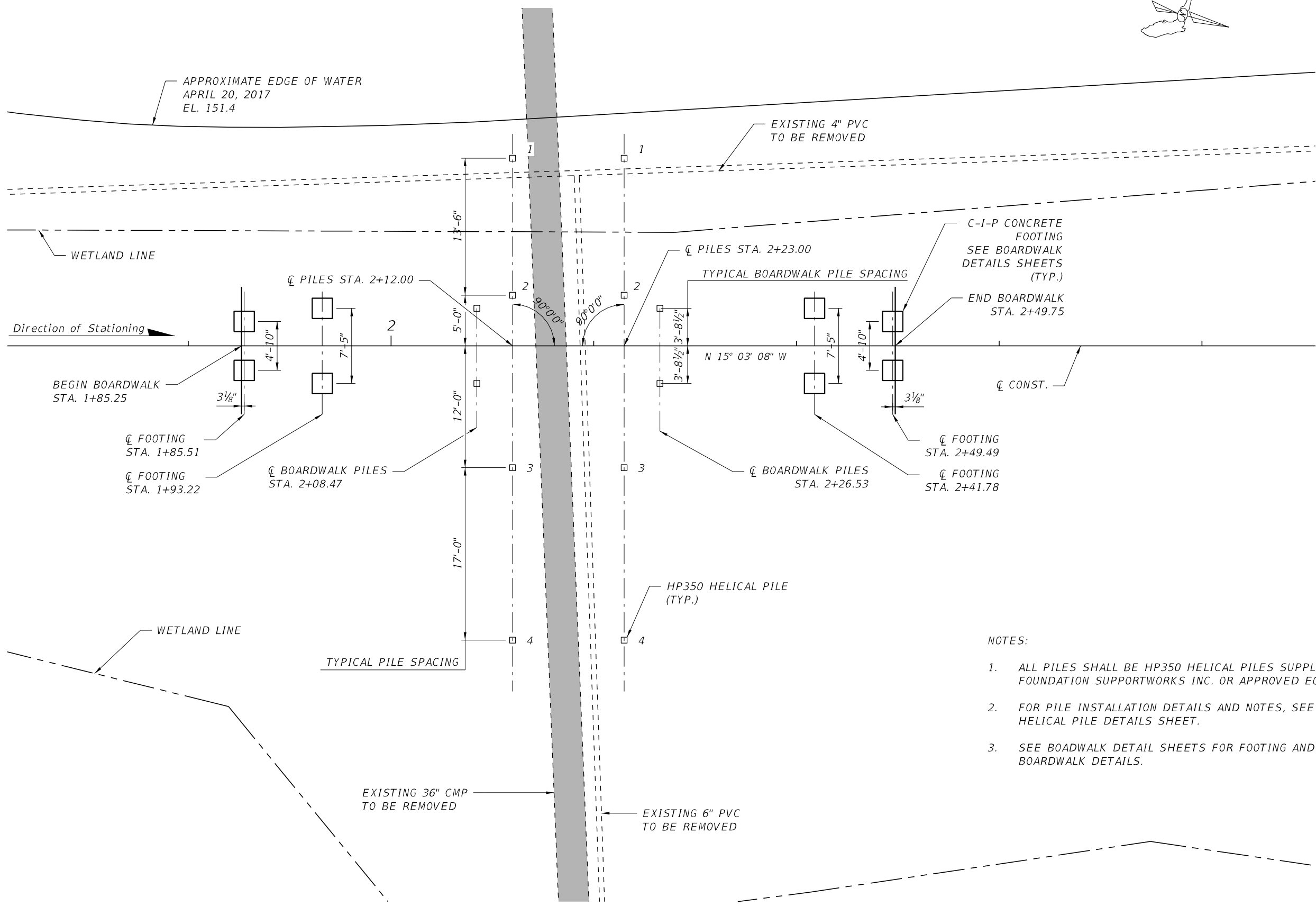
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**SKIMMER DETAILS (2 OF 2)**  
PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO.

41





NOTES:

1. ALL PILES SHALL BE HP350 HELICAL PILES SUPPLIED BY FOUNDATION SUPPORTWORKS INC. OR APPROVED EQUAL.
2. FOR PILE INSTALLATION DETAILS AND NOTES, SEE HELICAL PILE DETAILS SHEET.
3. SEE BOADWALK DETAIL SHEETS FOR FOOTING AND BOARDWALK DETAILS.

REVISIONS		REVISIONS	
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**FOUNDATION LAYOUT**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**43**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

HELICAL PILE DATA TABLE

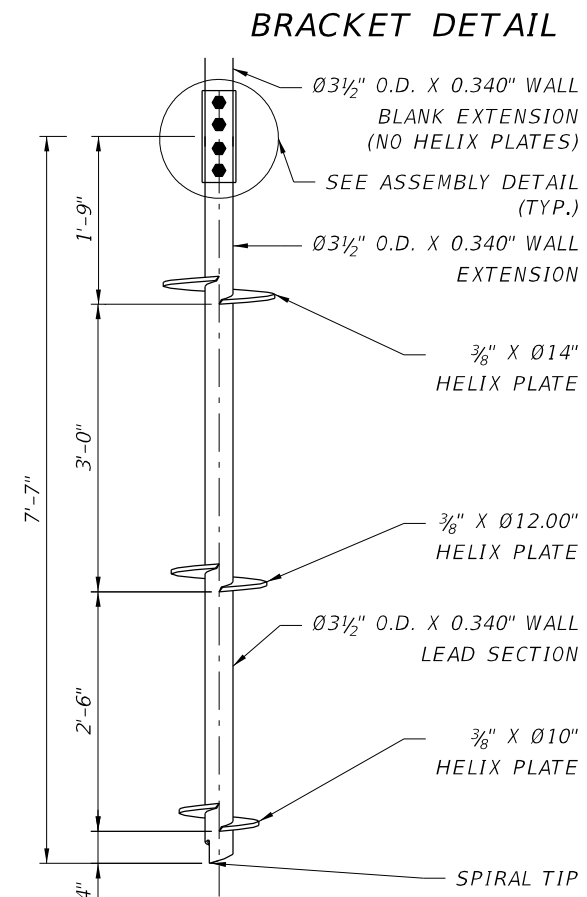
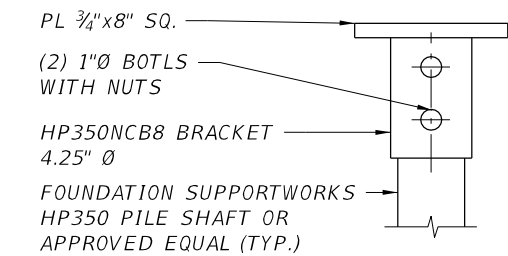
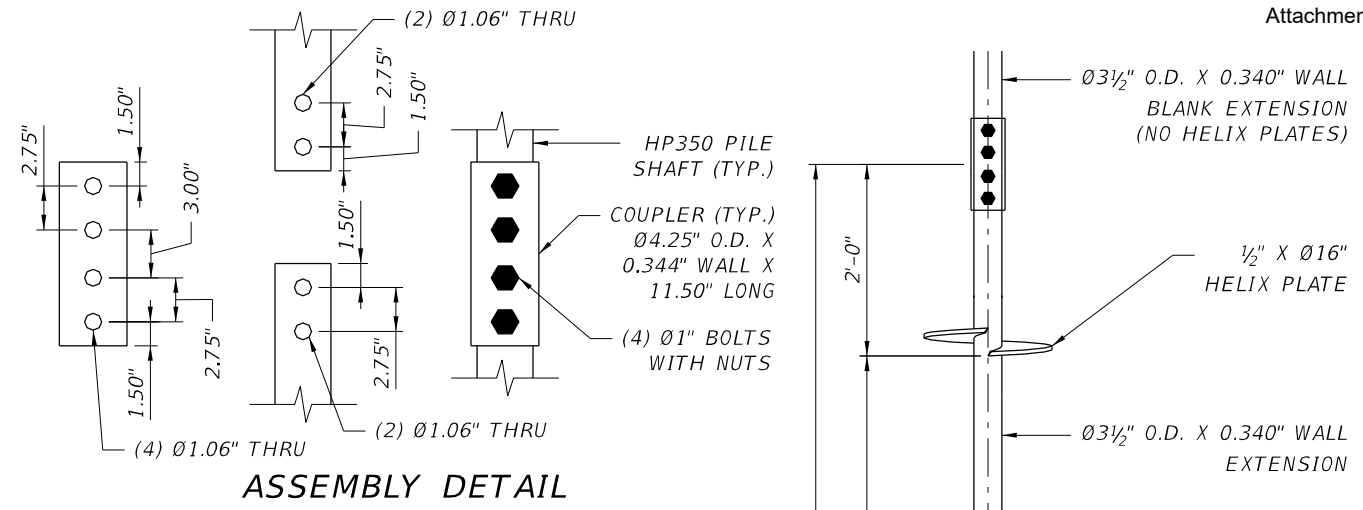
INSTALLATION CRITERIA								DESIGN CRITERIA			
STATION	PILE NO.	SHAFT TYPE	BRACKET TYPE	MINIMUM TIP ELEVATION (ft.)	ULTIMATE BEARING RESISTANCE (tons)	FINAL INSTALLATION TORQUE (lb*ft)	MIN. OVERALL PILE LENGTH (ft)	FACTORED DESIGN LOAD (tons)	FS	$K_t$ ( $\frac{1}{ft}$ )	MAXIMUM INSTALLATION TORQUE (lb*ft)
2+12.00	1-4	HP350	HP350NCB8	124.0	50	13,413	35.0	23	2.0	7.0	17,500
2+23.00	1-4	HP350	HP350NCB8	124.0	50	13,413	35.0	23	2.0	7.0	17,500
2+08.47	1-2	HP350	HP350NCB8	143.00	12	3,457	16.0	6	2.0	7.0	17,500
2+26.53	1-2	HP350	HP350NCB8	143.00	12	3,457	16.0	6	2.0	7.0	17,500

PILE INSTALLATION NOTES:

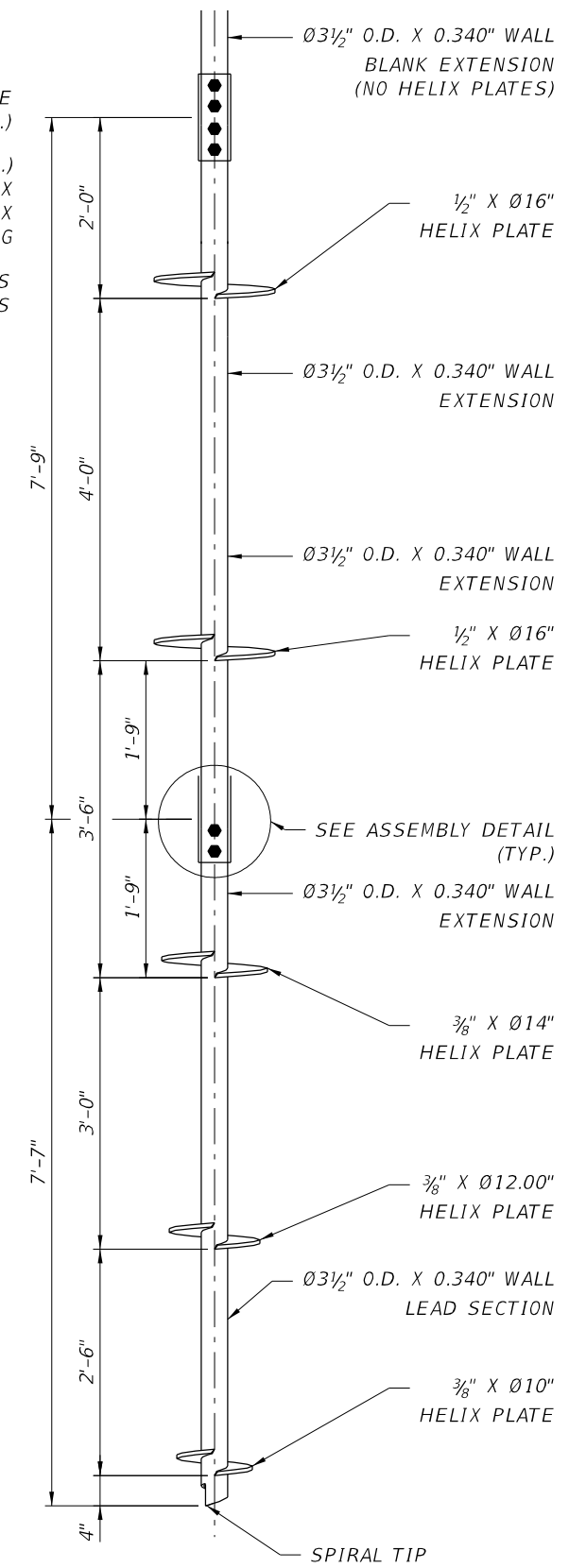
- HELICAL PILES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- THE REQUIRED ULTIMATE TORQUE-CORRELATED CAPACITY SHALL BE VERIFIED AT EACH PILE LOCATION, MONITORING AND RECORDING THE FINAL INSTALLATION TORQUE AND APPLYING DEFAULT TORQUE CORRELATIONS PER ICC-EC AC358.
- THE HELICAL PILES SECTIONS SHALL BE ADVANCED INTO THE SOIL IN A CONTINUOUS MANNER AT A RATE OF ROTATION LESS THAN 25 RPM. SUFFICIENT CROWD SHALL BE APPLIED TO ADVANCE THE HELICAL PILE SECTIONS AT A RATE OF APPROXIMATELY EQUAL TO THE PITCH OF THE HELIX PLATE PER REVOLUTION. THE RATE OF ROTATION AND MAGNITUDE OF DOWNWARD PRESSURE SHALL BE ADJUSTED FOR DIFFERENT SOIL CONDITIONS AND DEPTHS. EXTENSIONS SHALL BE PROVIDED TO OBTAIN THE REQUIRED MINIMUM OVERALL LENGTH AND MINIMUM TORSIONAL RESISTANCE SHOWN.
- IF THE TORSIONAL RESISTANCE DURING INSTALLATION REACHES THE HELICAL PILE'S ALLOWABLE TORQUE RATING PRIOR TO SATISFACTION OF THE MINIMUM TIP ELEVATION, TERMINATE THE INSTALLATION AT THE DEPTH OBTAINED.
- THE CONTRACTOR SHALL PROVIDE LEON COUNTY COPIES OF THE INDIVIDUAL HELICAL PILE INSTALLATION RECORDS WITHIN 24 HOURS AFTER EACH INSTALLATION IS COMPLETED. FORMAL COPIES SHALL BE SUBMITTED WITHIN 30 DAYS FOLLOWING THE COMPLETION OF THE HELICAL PILE INSTALLATION. RECORDS SHALL CONTAIN AT A MINIMUM, THE FOLLOWING:  
 DATE AND TIME OF INSTALLATION  
 LOCATION OF HELICAL PILE AND PILE IDENTIFICATION NUMBER.  
 TERMINATION DEPTH, PILE HEAD DEPTHS, AND LENGTH OF INSTALLED PILE  
 INSTALLED INCLINATION OF PILE  
 FINAL TORSIONAL RESISTANCE  
 CALCULATED GEOTECHNICAL CAPACITY BASED ON FINAL TORSIONAL RESISTANCE  
 COMMENTS PERTAINING TO INTERRUPTIONS, OBSTRUCTIONS OR OTHER RELEVANT INFORMATION
- A SINGLE PILE LOAD TEST SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D1143 QUICK TEST METHOD AND THE FOLLOWING CRITERIA:  
 FAILURE CRITERIA- SHALL BE IN ACCORDANCE WITH AC358  
 LOADING- INCREMENTS SHALL BE PERFORMED AT 5% OF THE ANTICIPATED FAILURE LOAD OR MAXIMUM ANTICIPATED TEST LOAD WITH A MINIMUM HOLD TIMES OF 4 MIN. AT EACH INCREMENT. UPON COMPLETION OF THE MAXIMUM TEST LOAD HOLD INCREMENT, THE PILES SHALL BE UNLOADED IN 5 TO 10 EVEN INCREMENTS WITH MINIMUM HOLD TIMES OF 4 MIN. AT EACH INCREMENT.

HELICAL PILE NOTES:

- MINIMUM MATERIAL REQUIREMENTS:  
 SHAFTS-FY = 65 KSI, FU = 75 KSI  
 COUPLERS-FY = 70 KSI, FU = 80 KSI  
 HELIX PLATES-ASTM A572 GR. 50  
 SHAFT COUPLING HARDWARE - (4) -  $\phi$  1" GRADE 5 BOLTS WITH NUTS  
 BRACKET WELDMENT - ASTM A36  
 EXTERNAL SLEEVE - FY = 50 KSI, FU = 62 KSI  
 CAP PLATE - ASTM A572 GRADE 50  
 BRACKET HARDWARE - (2) - 1"  $\phi$  GRADE 5 BOLTS WITH NUTS
- ALL WELDING TO BE IN ACCORDANCE WITH AWS D1.1 LATEST ISSUE WITH E70-XX MIN. ELECTRODE.
- HELIX PLATES HAVE A NOMINAL 3" PITCH WITH LEADING AND TRAILING EDGES BEING NO MORE THAN  $\frac{1}{4}$ " OUT OF PARALLEL.
- LEADS, EXTENSIONS, COUPLERS, HELIX PLATES AND BRACKETS SHALL BE HOT-DIP GALVANIZED (HDG) IN ACCORDANCE WITH ASTM A123.
- SHAFT COUPLING AND BRACKET HARDWARE SHALL BE ZINC COATED IN ACCORDANCE WITH ASTM B633.
- HELICAL PILES SHALL BE OBTAINED FROM FOUNDATION SUPPORTWORKS, INC. OR APPROVED EQUAL.



BOARDWALK HELICAL PILE CONFIGURATION DETAIL



WEIR HELICAL PILE CONFIGURATION DETAIL

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**REGISTE, SLIGER ENGINEERING, INC.**  
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.  
 P.E. LICENSE NUMBER 55550  
 CERTIFICATE OF AUTHORIZATION: 9292  
 3370 CAPITAL CIRCLE NE, SUITE J  
 TALLAHASSEE, FL 32308  
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**HELICAL PILE DETAILS**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**44**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, LOCAL CODES, STANDARDS, REGULATIONS AND LAW. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 6TH EDITION (2017) INCLUDING ALL CURRENT AMENDMENTS.
- THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING OR SUPPORT.
- DESIGN SUPERIMPOSED LOADS  
DECK LIVE LOAD -----100 PSF
- DESIGN WIND LOADS  
GOVERNING CODE ----- ASCE 7-10  
ULTIMATE DESIGN WIND SPEED -----V<sup>ULT</sup> = 107 MPH  
NOMINAL DESIGN WIND SPEED -----V<sup>ASD</sup> = 82.9 MPH  
RISK CATEGORY -----I  
EXPOSURE - MWFRS -----C  
COMPONENTS AND CLADDING -----C  
INTERNAL PRESSURE COEFFICIENT-----GCP +/-0.0 (OPEN BUILDING)  
MEAN ROOF HEIGHT -----N/A  
WIND DIRECTIONAL FACTOR-----Kd= 0.85  
TOPOGRAPHY FACTOR-----1.0
- VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES. NO CHANGES OF INFORMATION SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER. DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDE OVERALL DIMENSIONAL PARAMETERS AND DESCRIBE ELEMENTS TO BE CONSTRUCTED. THE CONTRACTOR SHALL ADJUST DIMENSIONS AND DETAILS AS REQUIRED TO FIT EXISTING CONDITIONS. THE ENGINEER SHALL BE NOTIFIED OF ANY PROPOSED MODIFICATIONS.
- DETAILS LABELED "TYP." APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTION REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS MARKED WITH (+/-). USE ONLY PRINTED DIMENSIONS.
- ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTION FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOB SITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, 3 SETS OF PLANS, CALCULATIONS, AND SPECIFICATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, FOR ANY PROPOSED CHANGES TO THE CONTRACT DOCUMENTS.

DIMENSIONAL LUMBER:

- ALL DIMENSIONAL LUMBER SHALL BE S4S AND GRADE STAMPED BY AN AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARDS COMMITTEE'S BOARD OF REVIEW AND MANUFACTURED IN ACCORDANCE WITH PS-20, LATEST REVISION.
- FRAMING MATERIAL SHALL BE SOUTHERN YELLOW PINE, No.1 OR BETTER, WITH A MAXIMUM MOISTURE CONTENT OF 19%.
- ALL MATERIAL SHALL BE SOUTHERN PINE, COMPLYING WITH THE STRESS VALUE TABLES LOCATED IN THE GENERAL NOTES.
- WANES ARE NOT ACCEPTABLE IN EXPOSED MATERIAL.
- "PT" DENOTES PRESSURE TREATED. ALL PT LUMBER SHALL BE KILN DRIED AFTER TREATMENT (KDAT).
- ALL LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION STANDARD T1.
- FIELD CUTS, HOLES, AND DAMAGE SHALL BE TREATED WITH A BRUSH APPLIED COPPER NAPHTHANATE OR APPROVED PRESERVATION SYSTEM AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL SUBMIT PRODUCT TREATMENT DATA SHEETS FOR APPROVAL BY LEON COUNTY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ABIDE BY AWPAC USE CATEGORY STANDARD U1. MATERIALS NOT PROPERLY TREATED FOR THEIR SPECIFIC USE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- ALL FASTENERS SHALL BE APPLIED PER TABLE 2304.10.1, FBC 2017 UNLESS OTHERWISE NOTED.

CONNECTORS:

- ALL CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.
- ALL CONNECTORS AND FASTENERS THAT ARE NOT STAINLESS STEEL (SS) SHALL BE HOT DIPPED GALVANIZED FOR CORROSION PROTECTION: ZMAX (G185)- MIN. 1.85 OZ. OF ZINC PER SQUARE FOOT OF SURFACE AREA PER ASTM A653. HDG (14 GA. AND THICKER)- MIN. AVG. COATING WEIGHT OF 2.0 OZ. PER SQUARE FOOT OF SURFACE AREA PER ASTM A123. CONNECTORS MAY REQUIRE SPECIAL FABRICATION FROM THE MANUFACTURER. NO ADDITIONAL CONTRACT TIME SHALL BE GRANTED TO OBTAIN THE REQUIRED CONNECTORS. CONTRACTOR SHALL HAVE ALL CONNECTORS INSPECTED BY THE ENGINEER PRIOR TO CONCRETE EMBEDMENT OR COVERING CONNECTORS WITH SUBSEQUENT WORK.
- CONTRACTOR SHALL USE FASTENERS THAT ARE COMPATIBLE WITH THE CORROSION PROTECTION OF THE CONNECTOR, AND SHALL USE ALL FASTENERS REQUIRED TO OBTAIN MAXIMUM PUBLISHED CONNECTOR LOADS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL INSTALL ALL CONNECTORS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
- THREADED ROD WITH NUTS AND WASHERS OF THE SAME MATERIAL TYPE AND DIAMETER MAY BE SUBSTITUTED FOR THRU-BOLTS.

BOARDWALK PILES:

- HELICAL PILE BEAM BRACKETS MAY REQUIRE SPECIAL FABRICATION. SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF FLORIDA SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION OR INSTALLATION. ALL COSTS FOR PILE BRACKETS SHALL BE PAID FOR BY THE CONTRACTOR. NO ADDITIONAL CONTRACT TIME SHALL BE GRANTED TO OBTAIN THE REQUIRED BRACKETS.

SCHEDULE OF REQUIRED STRESS VALUES VISUALLY GRADED, NO. 1 MATERIAL (@100% STRESS RATING)						
WOOD FRAMING SIZE	REQUIRED VALUES, IN PSI					
	F <sub>b</sub>	F <sub>t</sub>	F <sub>v</sub>	F <sub>c<sub>s</sub></sub>	F <sub>c</sub>	E
SOUTHERN YELLOW PINE (SYP)						
2X4, 3X4, & 4X4	1500	1000	175	565	1650	1,600,000
2X6, 3X6, & 4X6	1350	875	175	565	1550	1,600,000
2X8, 3X8, & 4X8	1250	800	175	565	1500	1,600,000
2X12, 3X12, & 4X12	1000	650	175	565	1400	1,600,000

SCHEDULE OF REQUIRED STRESS VALUES TREATED ROUND TIMBER PILES GRADED PER ASTM D25 (@100% STRESS RATING)					
WOOD FRAMING SIZE	REQUIRED VALUES, IN PSI				
	F <sub>b</sub>	F <sub>v</sub>	F <sub>c<sub>s</sub></sub>	F <sub>c</sub>	E
SOUTHERN YELLOW PINE (SYP)					
P.T. 8" ROUND PILE	1950	160	440	1250	1,500,000

SCHEDULE OF REQUIRED STRESS VALUES TRUSS JOIST PARALLAM PLUS PSL WOLMANIZED (@100% STRESS RATING)						
WOOD FRAMING SIZE	REQUIRED VALUES, IN PSI					
	F <sub>b</sub>	F <sub>t</sub>	F <sub>v</sub>	F <sub>c<sub>s</sub></sub>	F <sub>c</sub>	E
SERVICE LEVEL 2						
5½" x 11¼"	1827	1397	197	338	1508	1,460,000

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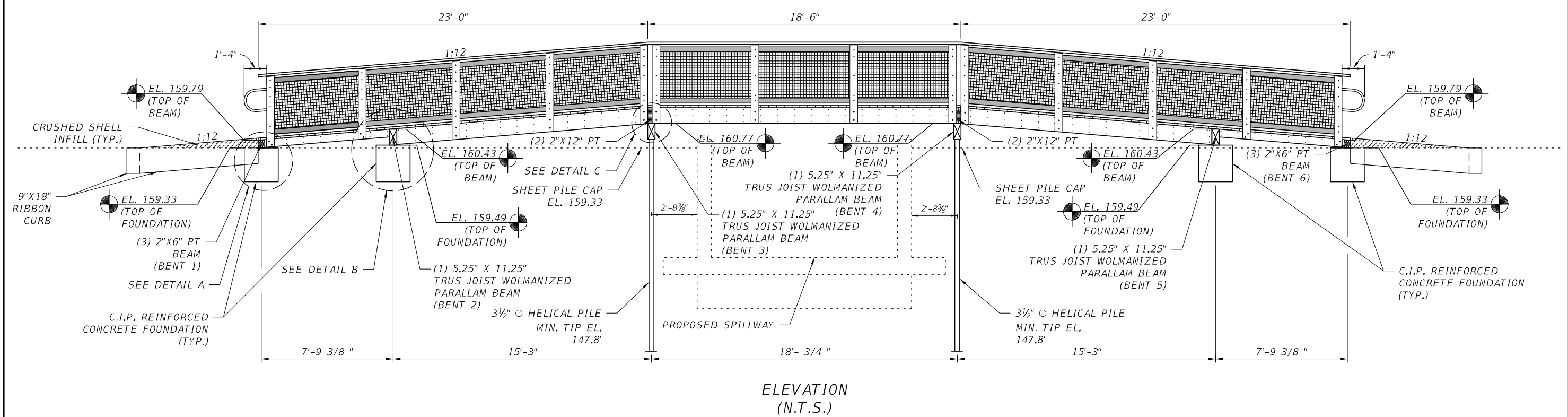
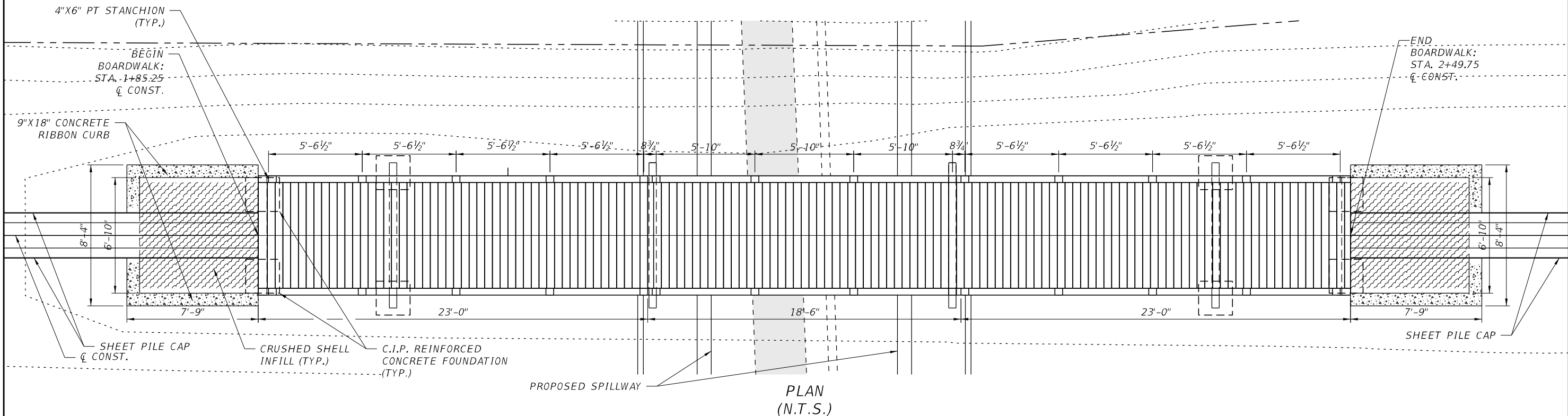
**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
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**BOARDWALK  
STRUCTURAL NOTES**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

SHEET NO.  
**45**

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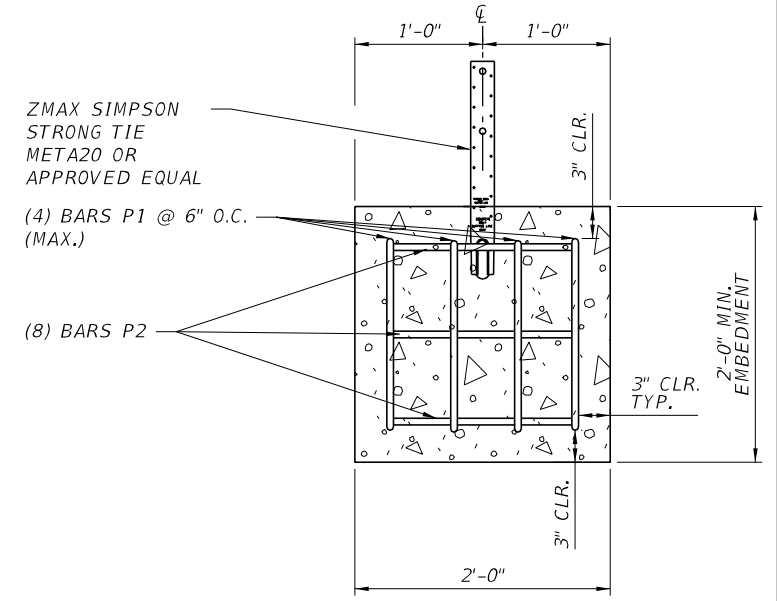
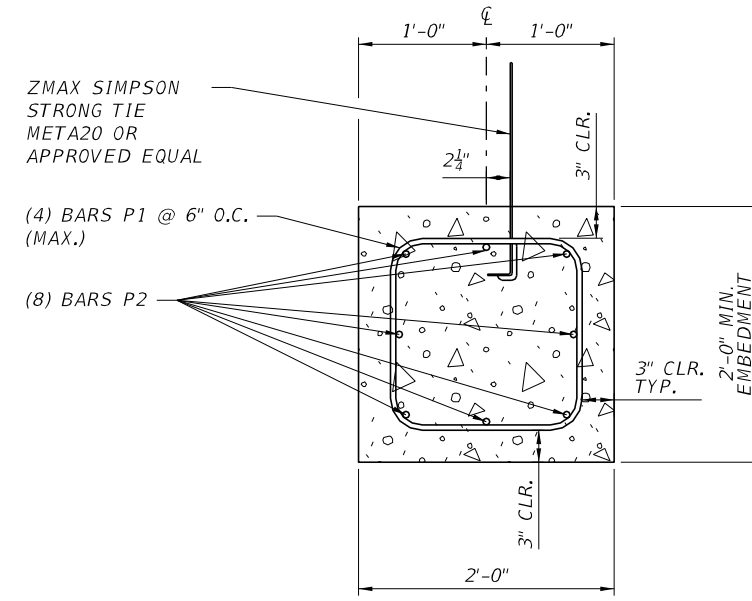
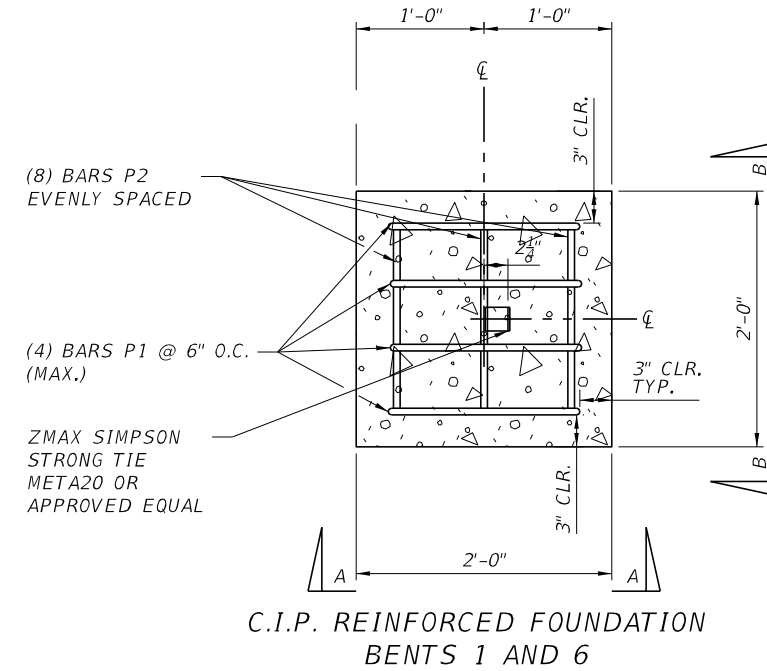
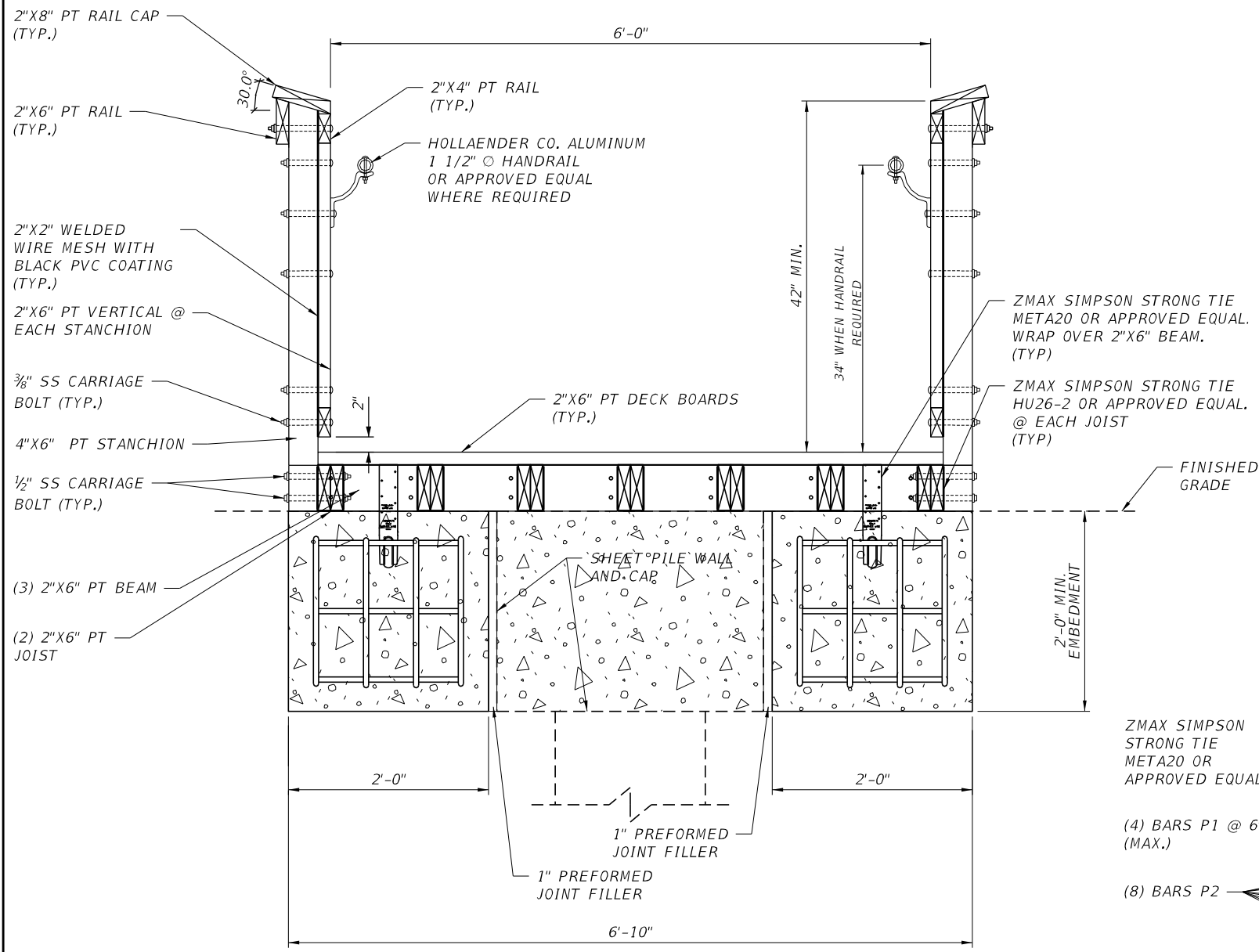
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**BOARDWALK  
 PLAN AND ELEVATION**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
 46

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TYPICAL BOARDWALK SECTION  
BENTS 1 AND 6  
(N.T.S.)

SECTION A-A  
(N.T.S.)

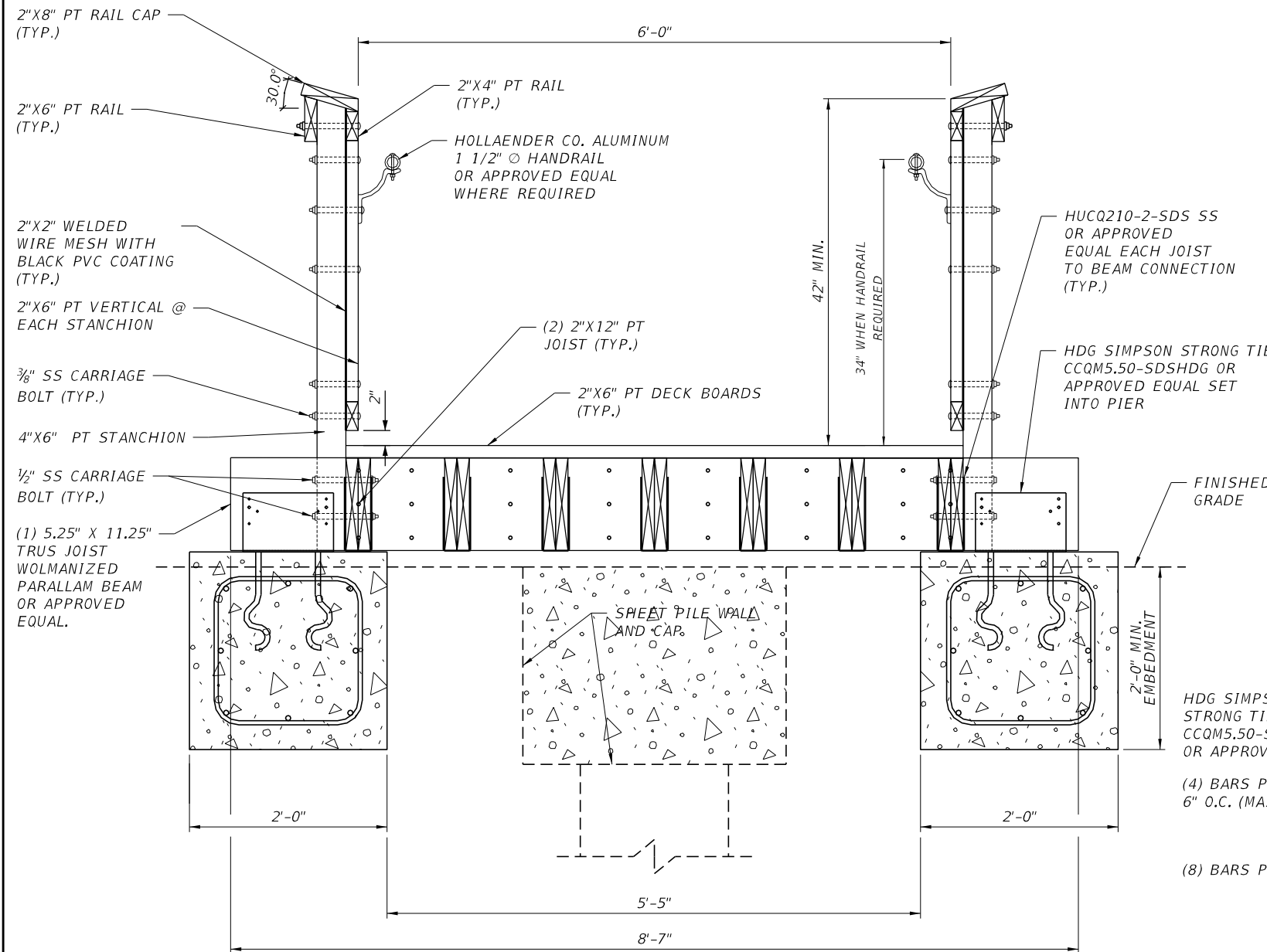
SECTION B-B  
(N.T.S.)

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

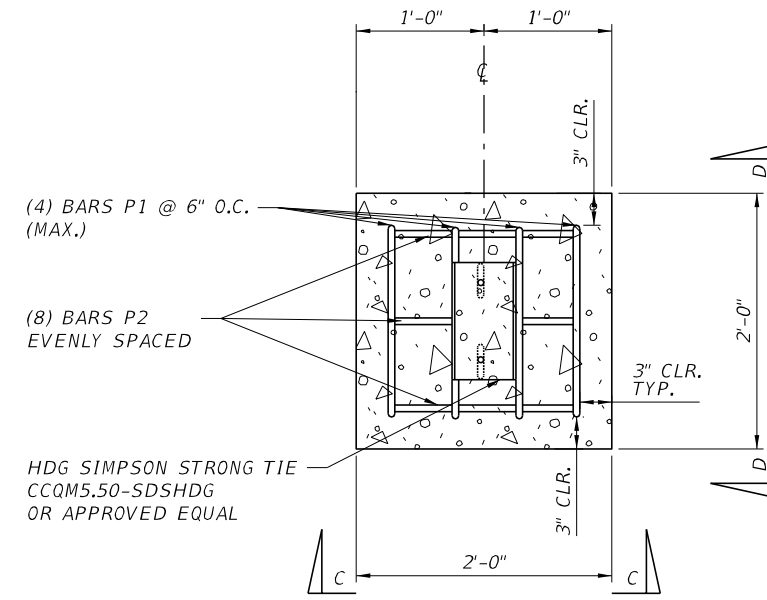
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**BOARDWALK  
 DETAILS (1 OF 4)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**  
 SHEET NO.  
 47

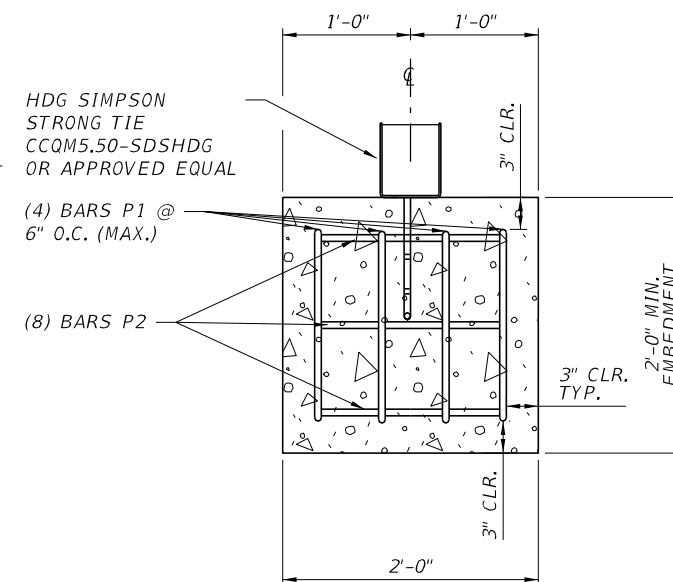


TYPICAL BOARDWALK SECTION  
BENTS 2 AND 5  
(N.T.S.)

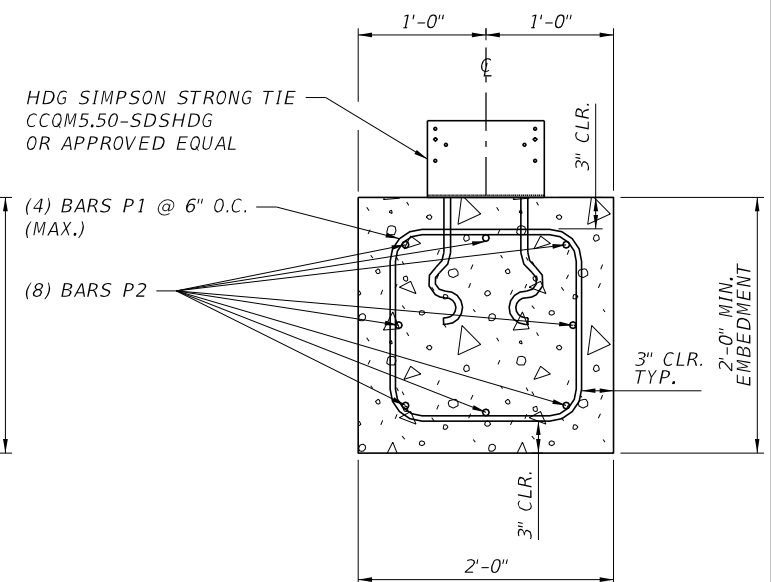


C.I.P. REINFORCED FOUNDATION  
BENTS 2 AND 5

PLAN  
(N.T.S.)



SECTION C-C  
(N.T.S.)



SECTION D-D  
(N.T.S.)

REVISIONS		REVISIONS	
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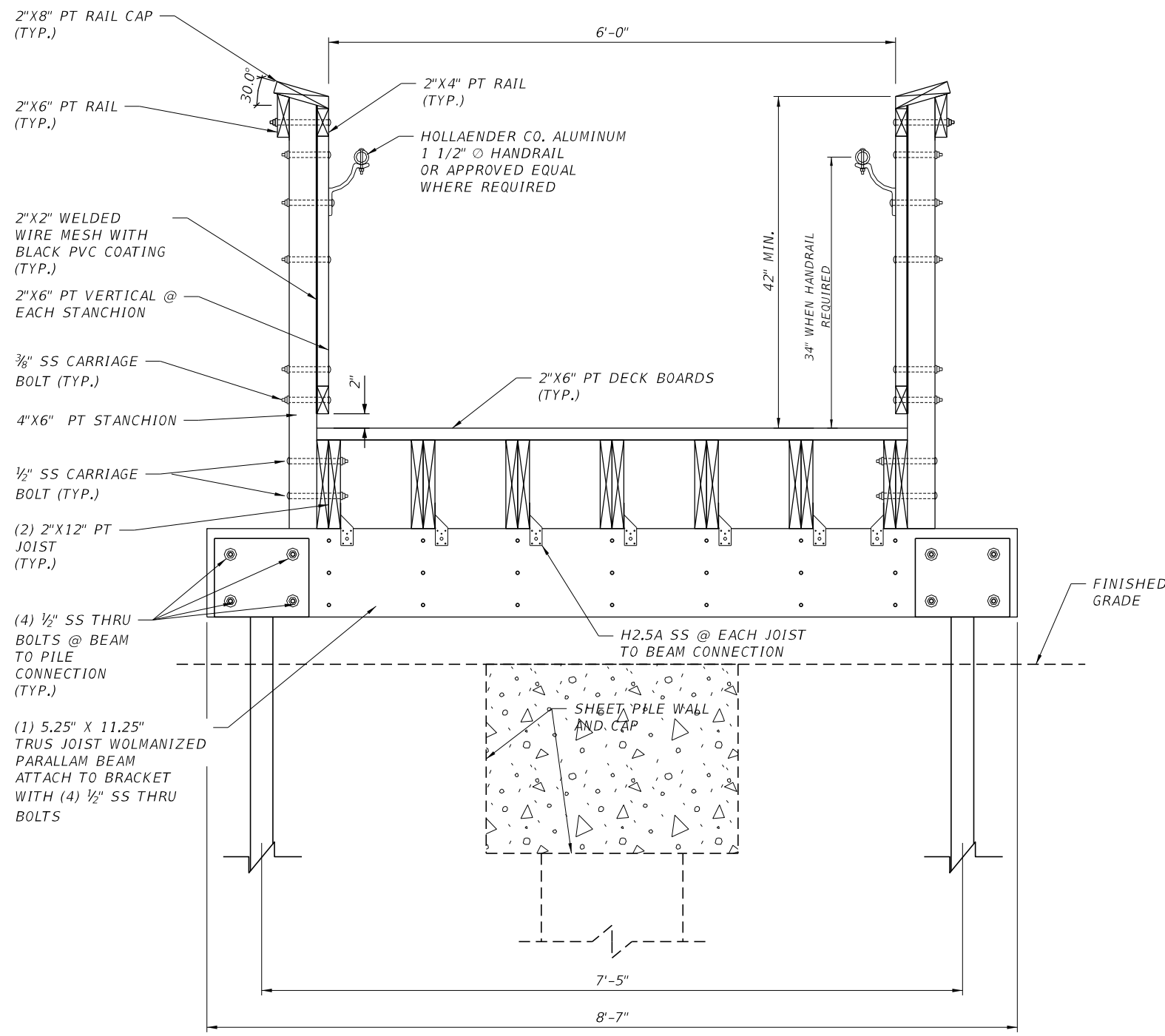
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**BOARDWALK  
DETAILS (2 OF 4)**

PROJECT NAME:  
**CENTERVILLE TRACE POND  
STRUCTURE REPLACEMENT**

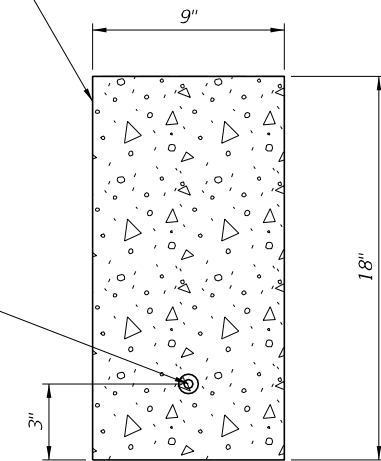
SHEET NO.	48
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TYPICAL BOARDWALK SECTION WITH HELICAL PILES (N.T.S.)

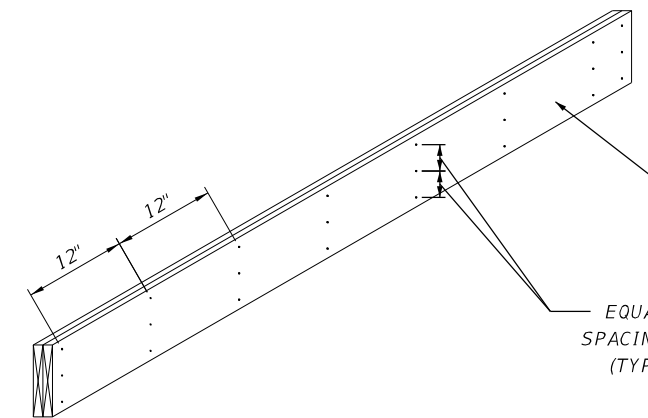
9"X18" RIBBON CURB WITH 1 #4 BAR CONTINUOUS AND 3000 PSI CONCRETE MIX. PROVIDE 1/2" EXPANSION JOINT AT SHEET PILE CAP. CONSTRUCT FLUSH WITH FINISH GRADE AT BOARDWALK AND TOP OF BERM.



RIBBON CURB DETAIL (N.T.S.)

BEAM BUILD UP

- 2"X12" BUILT UP BEAMS AND JOISTS SHALL HAVE MEMBERS FASTENED TOGETHER WITH (3) 10D STAINLESS STEEL RING SHANK NAILS @ EACH END AND @ 12" O.C.
- 2"X6" BUILT UP BEAMS AND JOISTS SHALL HAVE MEMBERS FASTENED TOGETHER WITH (2) 10D STAINLESS STEEL RING SHANK NAILS @ EACH END AND @ 12" O.C.



2"X12" BUILT-UP MEMBER NAILING PATTERN (N.T.S.)

\* NOTE:  
2-PLY MEMBER SHOWN. 3-PLY AND 4-PLY MEMBERS SIMILAR.

REVISIONS		REVISIONS	
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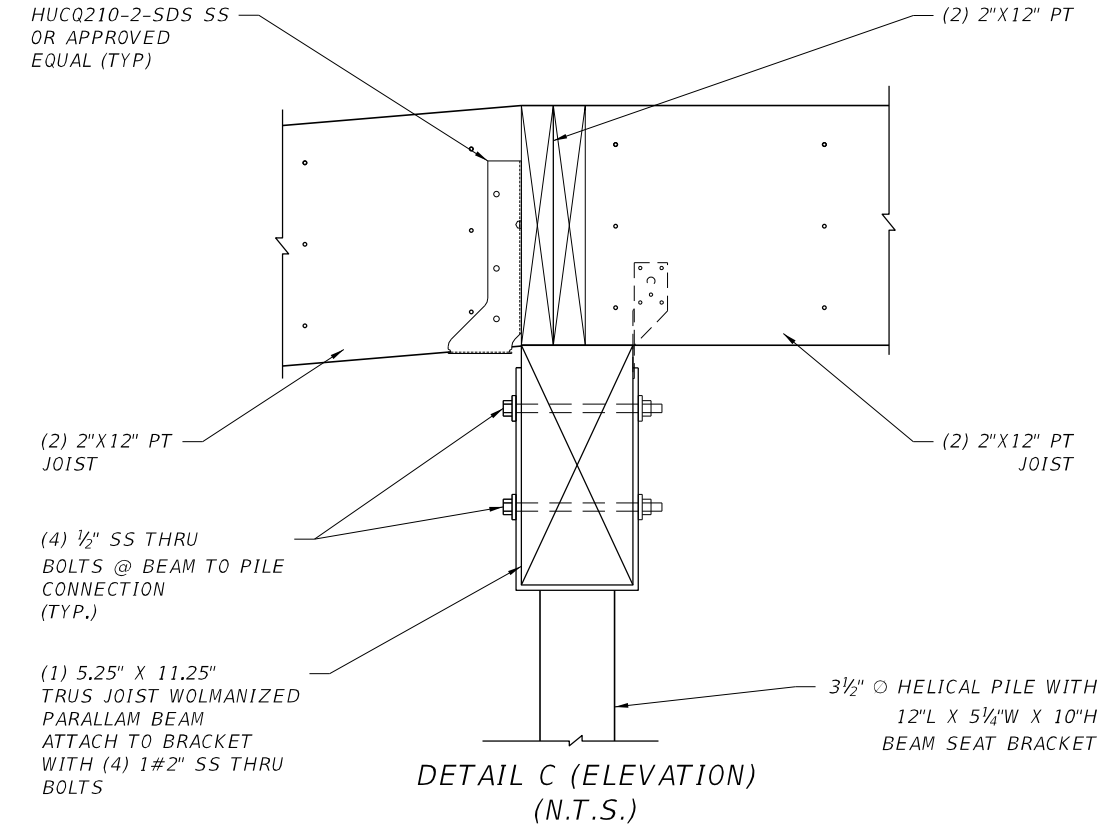
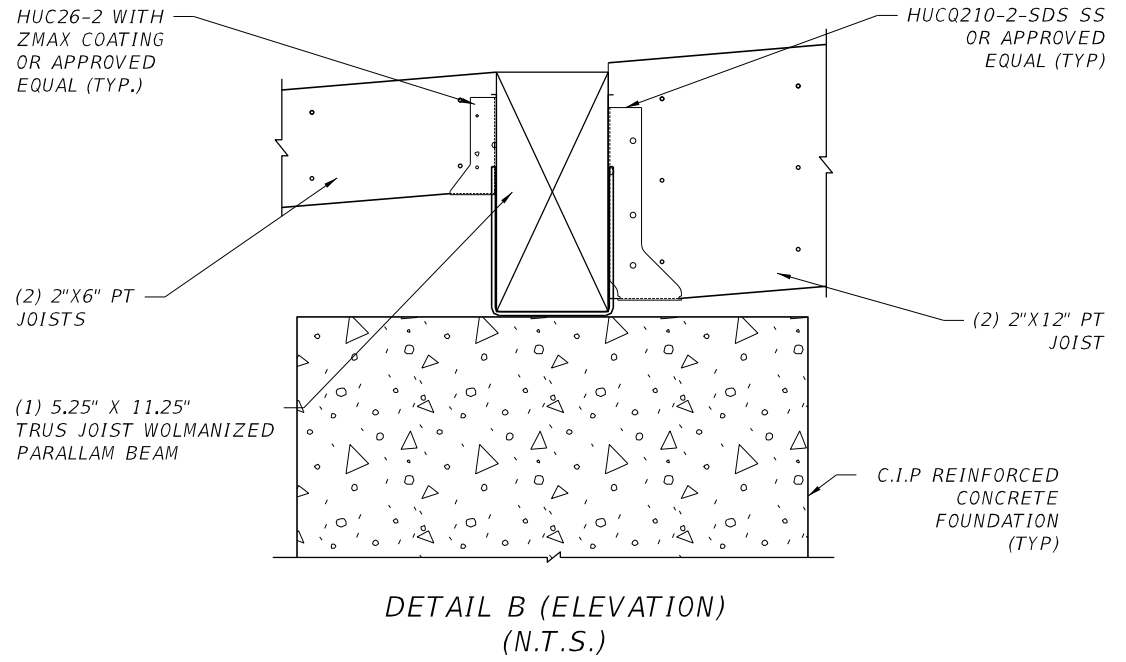
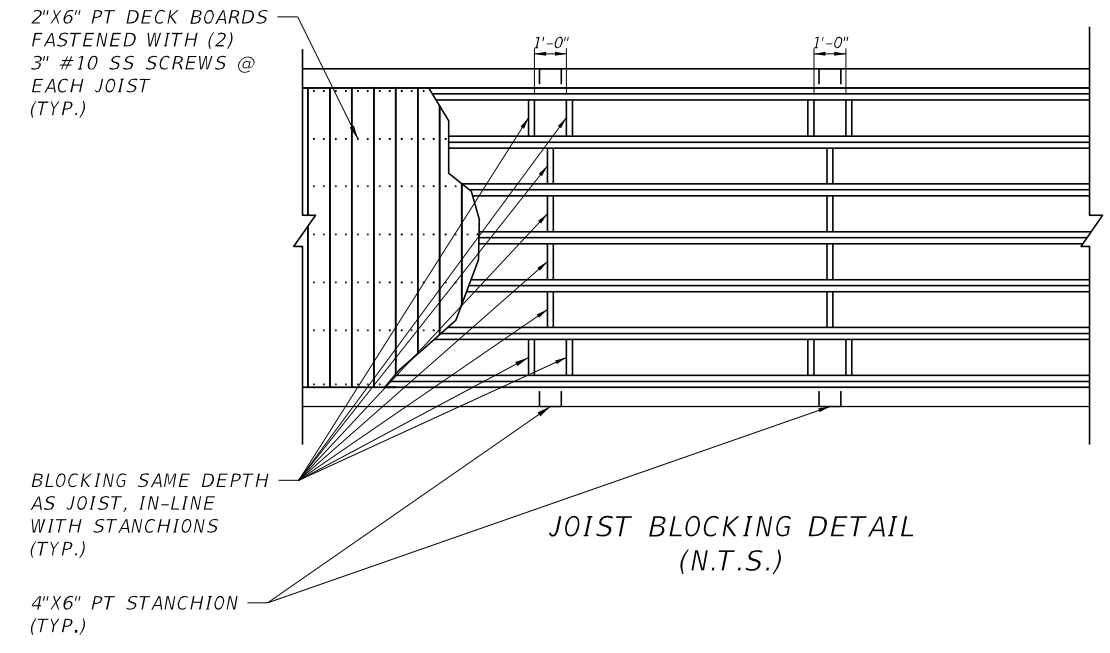
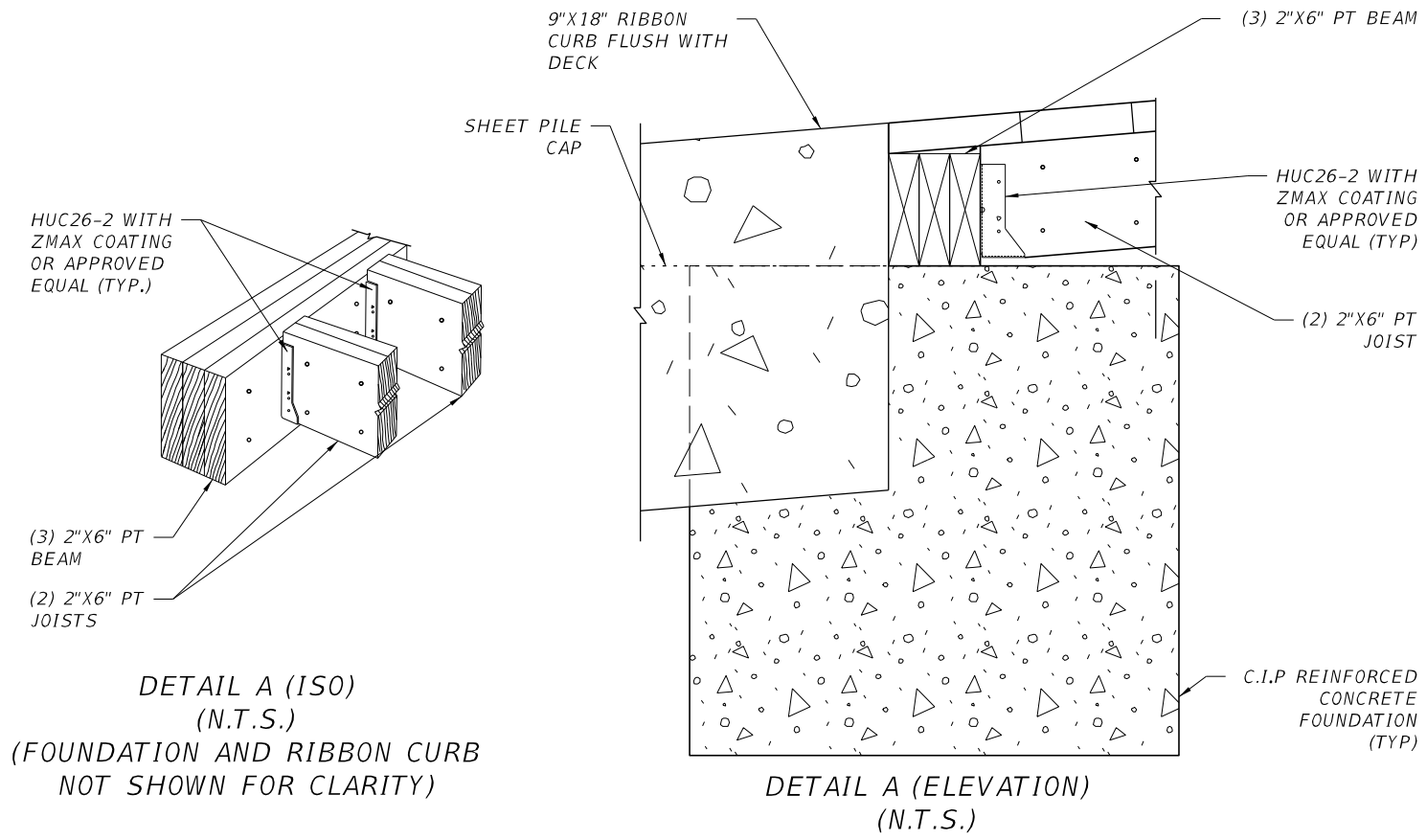
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**BOARDWALK DETAILS (3 OF 4)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND STRUCTURE REPLACEMENT**

SHEET NO.	49
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REVISIONS		REVISIONS	
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 3370 CAPITAL CIRCLE NE, SUITE J  
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**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308  
 PHONE (850) 606-1500 \* FAX (850) 606-1501

**BOARDWALK  
 DETAILS (4 OF 4)**  
 PROJECT NAME:  
**CENTERVILLE TRACE POND  
 STRUCTURE REPLACEMENT**

SHEET NO.  
**50**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.