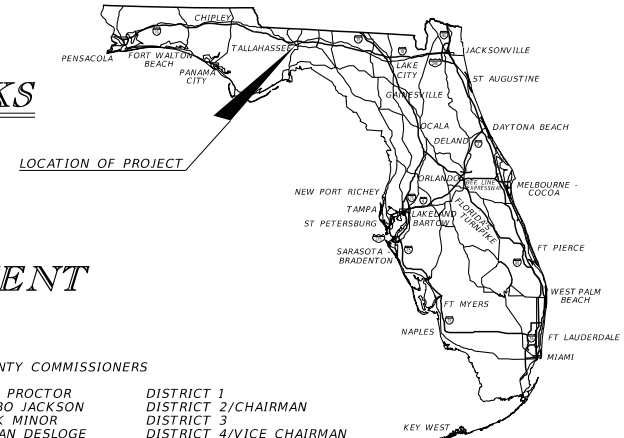


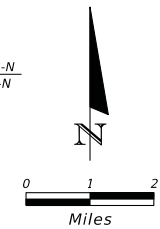
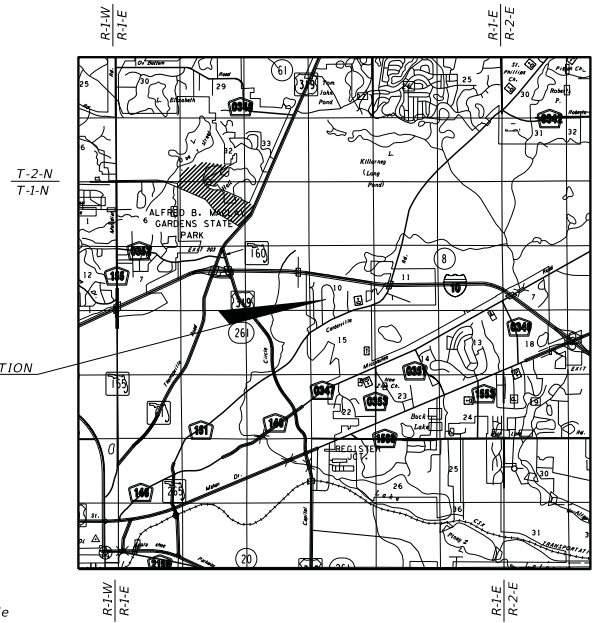
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LEON COUNTY
DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION PLANS
CENTERVILLE TRACE POND
OUTFALL STRUCTURE REPLACEMENT



- 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 |



BID SET

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 STANDARD PLANS:

Florida Department of Transportation, FY 2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road and Bridge Construction and associated IRs are available at the following website:
<http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

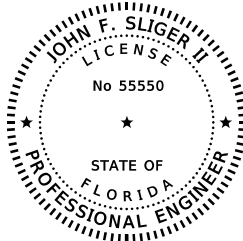
Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

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

DATE OF PREPARATION: 3/27/2019

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.



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John F Sliger II
2019.05.14 13:59:37 -04'00'

ON THE DATE ADJACENT TO THE SEAL

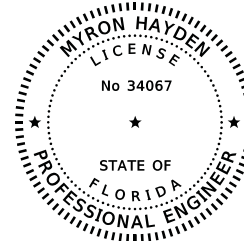
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REGISTE, SLIGER ENGINEERING, INC.
3370 CAPITAL CIRCLE NE, SUITE J
TALLAHASSEE, FL 32308
CERTIFICATE OF AUTHORIZATION: 9292
JOHN F. SLIGER II, P.E. NO. 55550

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

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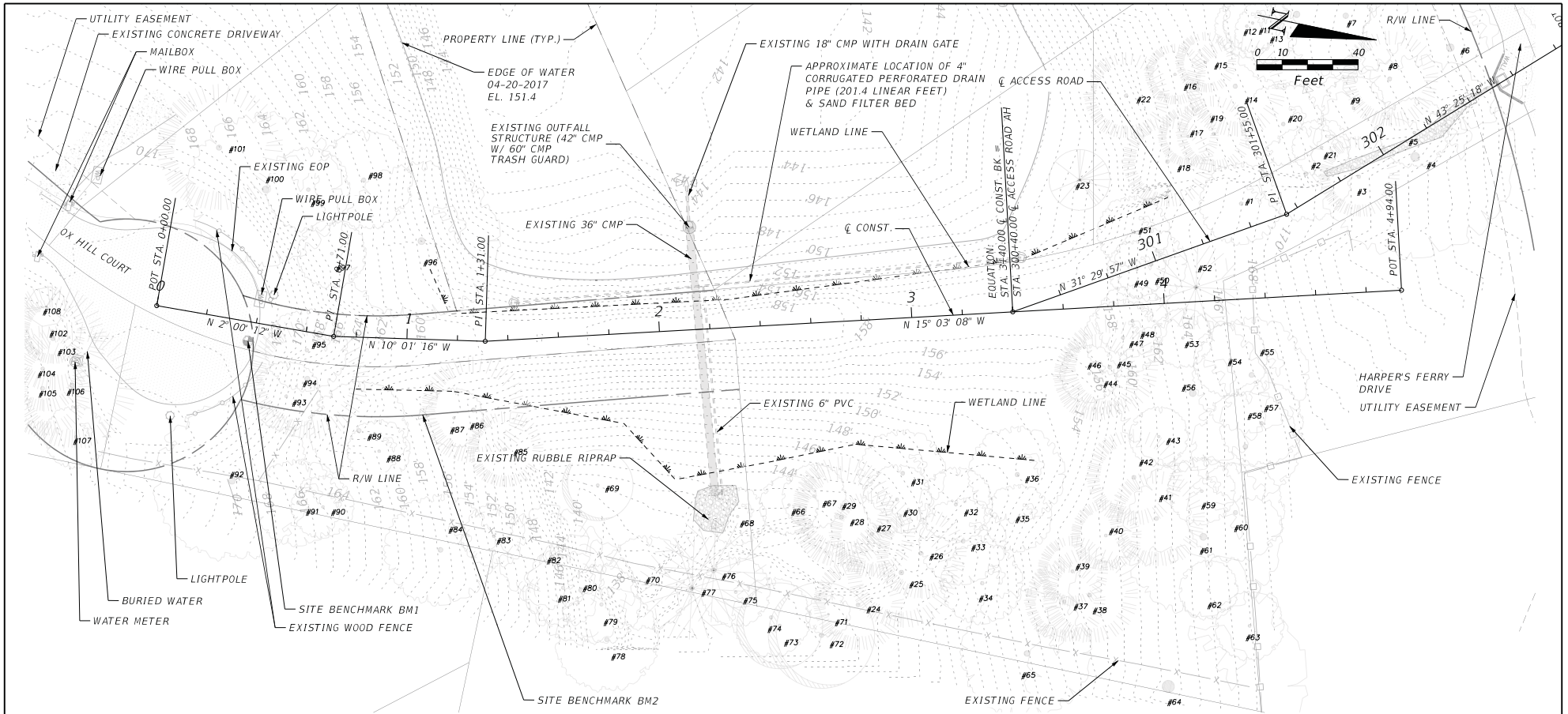
ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
104 NORTH MAGNOLIA DRIVE
TALLAHASSEE, FL 32301
CERTIFICATE OF AUTHORIZATION: 6222
MYRON HAYDEN, P.E. NO. 34067

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

<table border="1"> <tr><th colspan="2">REVISIONS</th></tr> <tr><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td></tr> </table>		REVISIONS		DATE	DESCRIPTION			<table border="1"> <tr><th colspan="2">REVISIONS</th></tr> <tr><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td></tr> </table>		REVISIONS		DATE	DESCRIPTION			 <p>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</p>	 <p>LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501</p>	<p>SIGNATURE SHEET</p>	<p>SHEET NO. 2</p>
REVISIONS																			
DATE	DESCRIPTION																		
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DATE	DESCRIPTION																		
<p>PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT</p>																			



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	SWEET GUM	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	SWEET GUM	83	13	MIMOSA	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

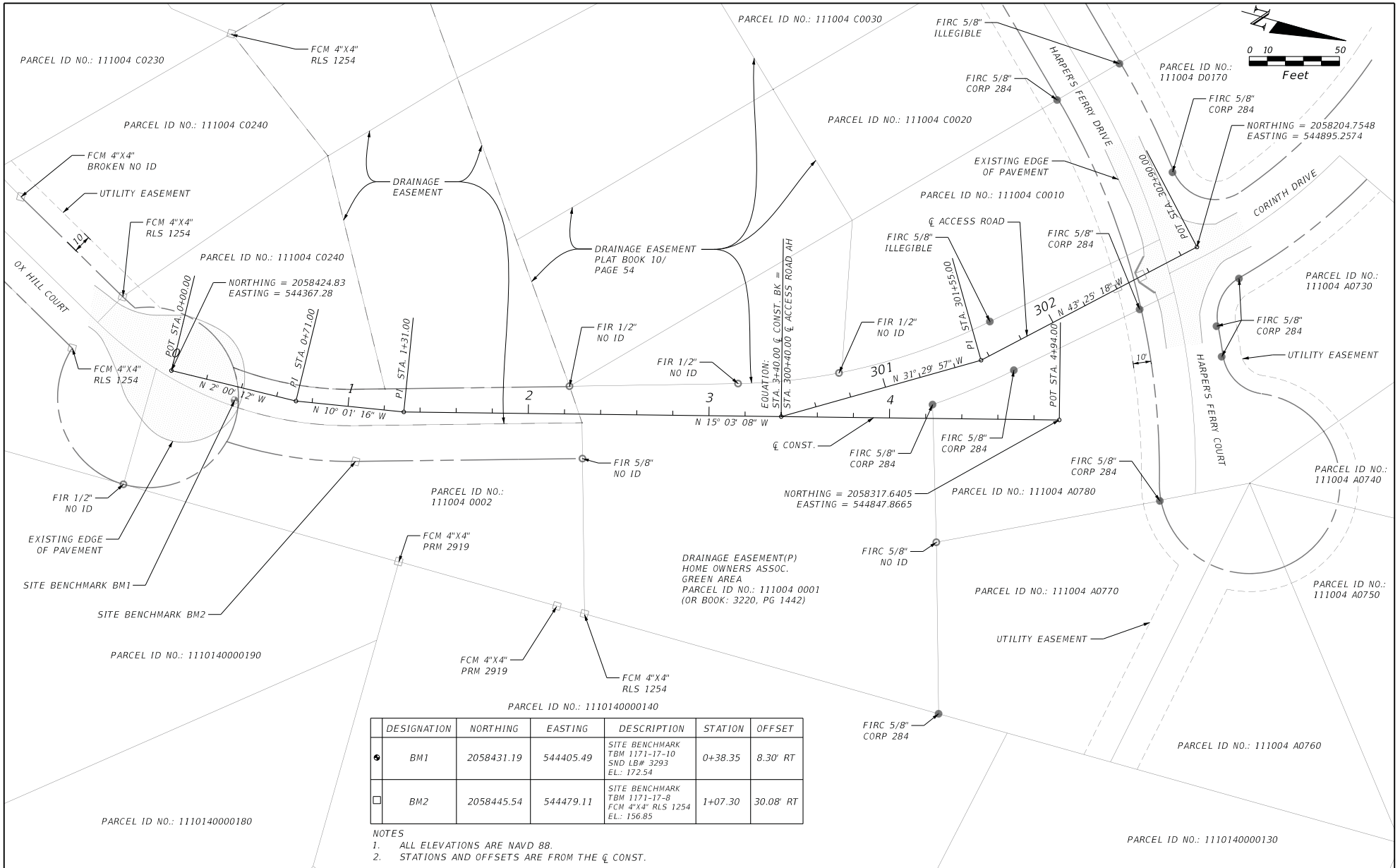
REGISTE, SLIGER ENGINEERING, INC.
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.
 P.E. LICENSE NUMBER 55550
 CERTIFICATE OF AUTHORIZATION: 9292
 3370 CAPITAL CIRCLE NE, SUITE J
 TALLAHASSEE, FL 32308
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

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

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

SHEET NO. 3

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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 \hat{C} CONST.



REVISIONS DATE DESCRIPTION	REVISIONS 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	PROJECT LAYOUT PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	SHEET NO. 4
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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.

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 SEEDED 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:

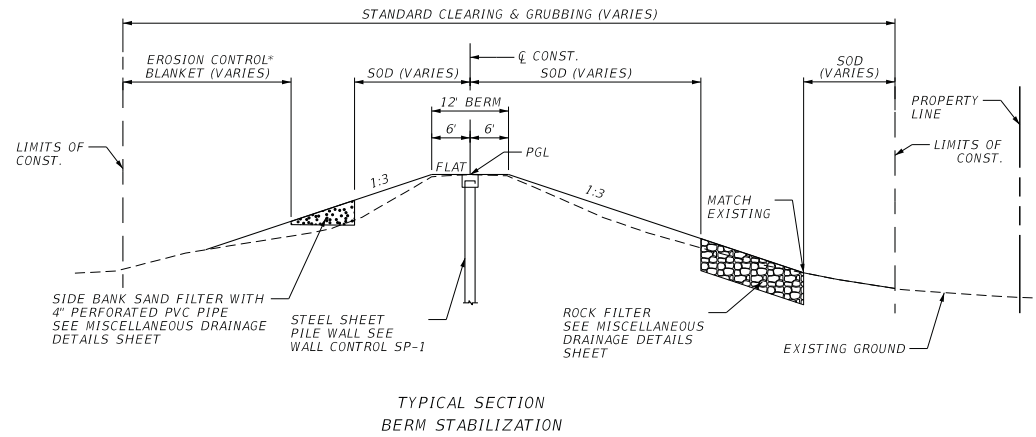
https://www.fws.gov/northflorida/indigosnakes/20130812_eastern_indigo_snake_standard_protection_measures.htm
 19. THE CONTRACTOR SHALL BE AWARE AND ABIDE BY THE REQUIREMENTS LISTED WITHIN THE APPROVED PROJECT PERMITS. THE APPROVED PROJECT PERMITS ARE AS FOLLOWS:
 1. USACOE NATIONWIDE PERMIT #39 - PERMIT NO. SAJ-2019-01590
 2. LEON COUNTY EMP - PERMIT NO. LEM18-00044
 3. NWFWD INDIVIDUAL ERP - PERMIT NO. IND-073-11703-2
 20. MATERIAL REQUIRED TO BACKFILL FOR THE EXCAVATION AND REMOVAL OF THE EXISTING OUTLET STRUCTURE SHALL CONFORM TO THE MATERIAL AND COMPACTION REQUIREMENTS LISTED ON THE TYPICAL SECTION SLOPE COMPACTION DETAIL SHEET.
- 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.

<table border="1"> <tr> <th colspan="2">REVISIONS</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		REVISIONS		REVISIONS		DATE	DESCRIPTION	DATE	DESCRIPTION					 <p>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</p>	 <p>LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501</p>	<p>GENERAL NOTES</p> <p>PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT</p>	<p>SHEET NO. 5</p>
REVISIONS		REVISIONS															
DATE	DESCRIPTION	DATE	DESCRIPTION														
<p>2:20:10 PM Z:\2017_Current_Projects\1702_Centerville Pond Structure Replacement\1702_roadway\CA</p>																	

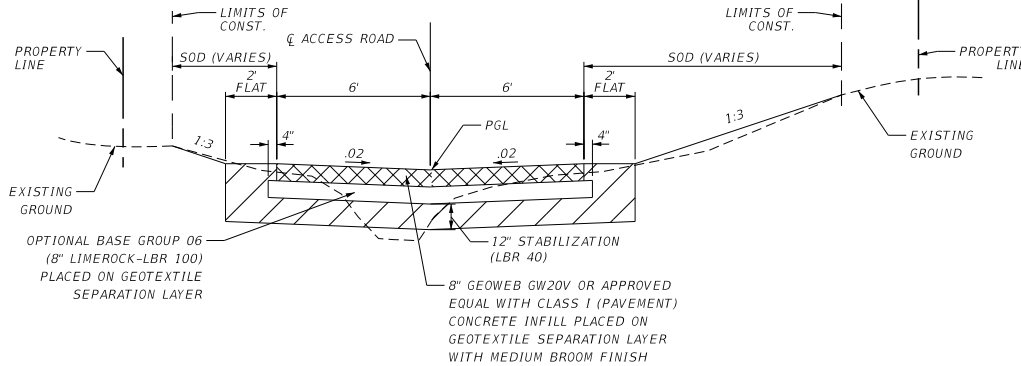
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F. A. C.

GEOWEB CELLULAR CONFINEMENT SYSTEM

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.PRESTOGEOS.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





* 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.



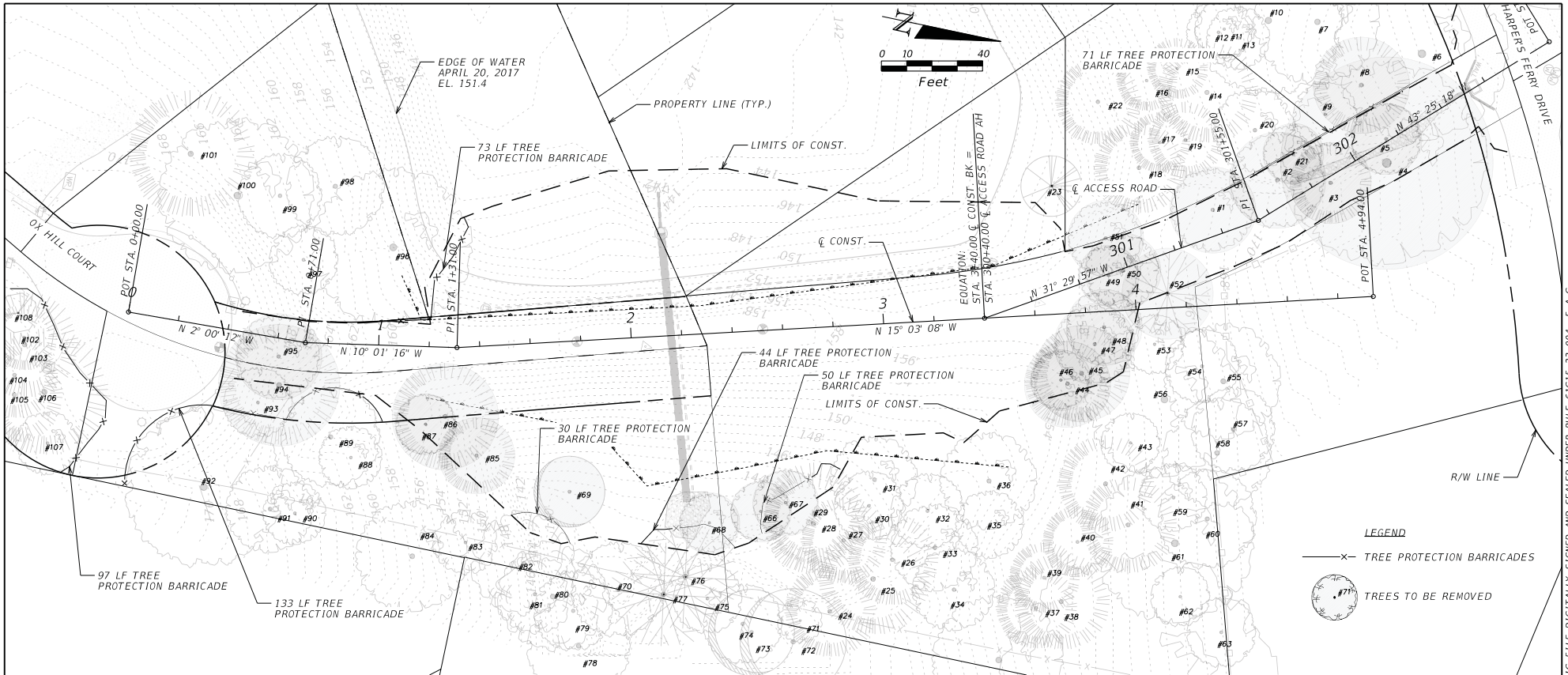
TYPICAL SECTION
MAINTENANCE ACCESS ROAD
STA. 300+61.58 TO STA. 302+49.19
(ACCESS ROAD)

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

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	TYPICAL SECTION DETAILS		SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

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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	27		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						
49	SLASH PINE	12		REMOVE	UNPROTECTED					DEVELOPED ACRES OF THE SITE	0.863
50	SLASH PINE	15		REMOVE	DEAD					MINIMUM REQUIRED CREDITS	35
51	SLASH PINE	15		REMOVE	UNPROTECTED						
52	HICKORY	18	-6	REMOVE							
66	SWEET GUM	12	-4	REMOVE						TOTAL REQUIRED TREE CREDITS	123

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.

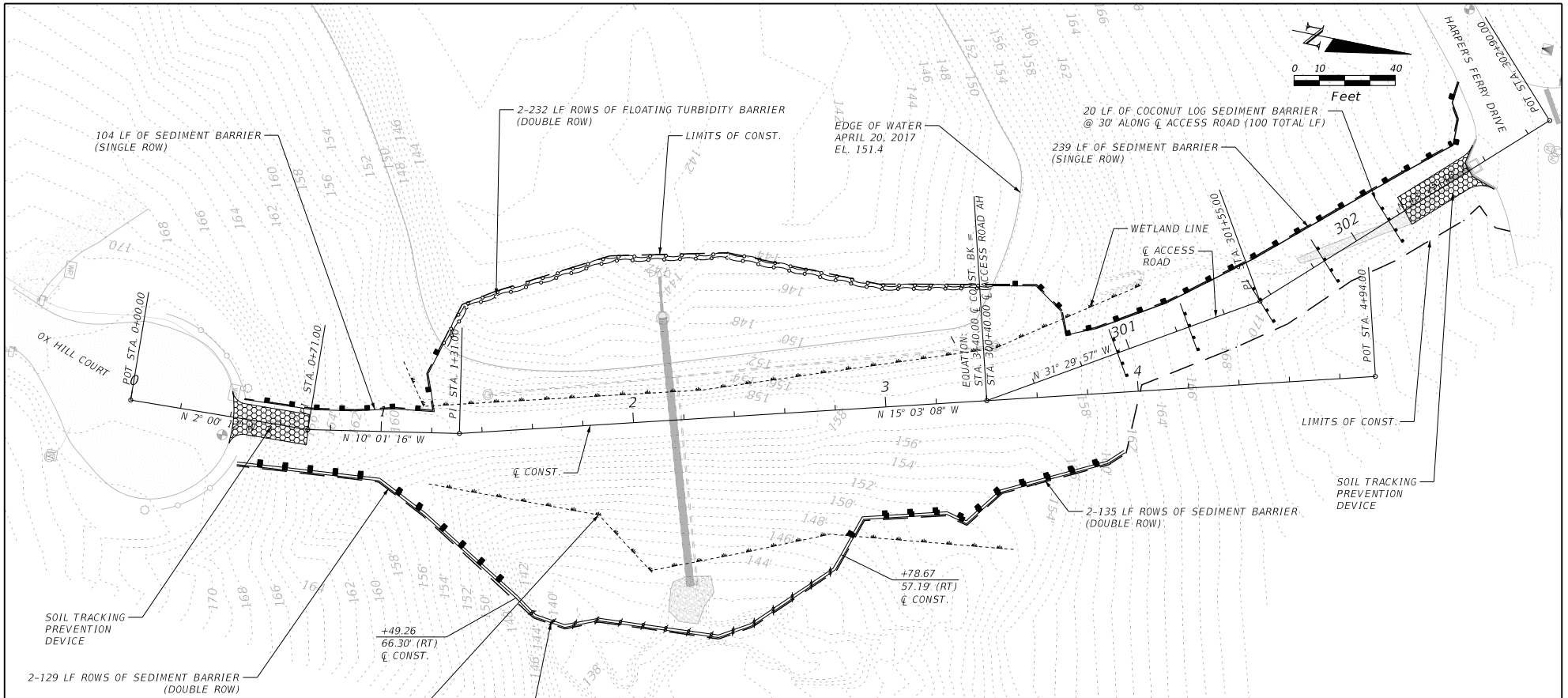
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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

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 SEDIMENT 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.
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 3370 CAPITAL CIRCLE NE, SUITE J
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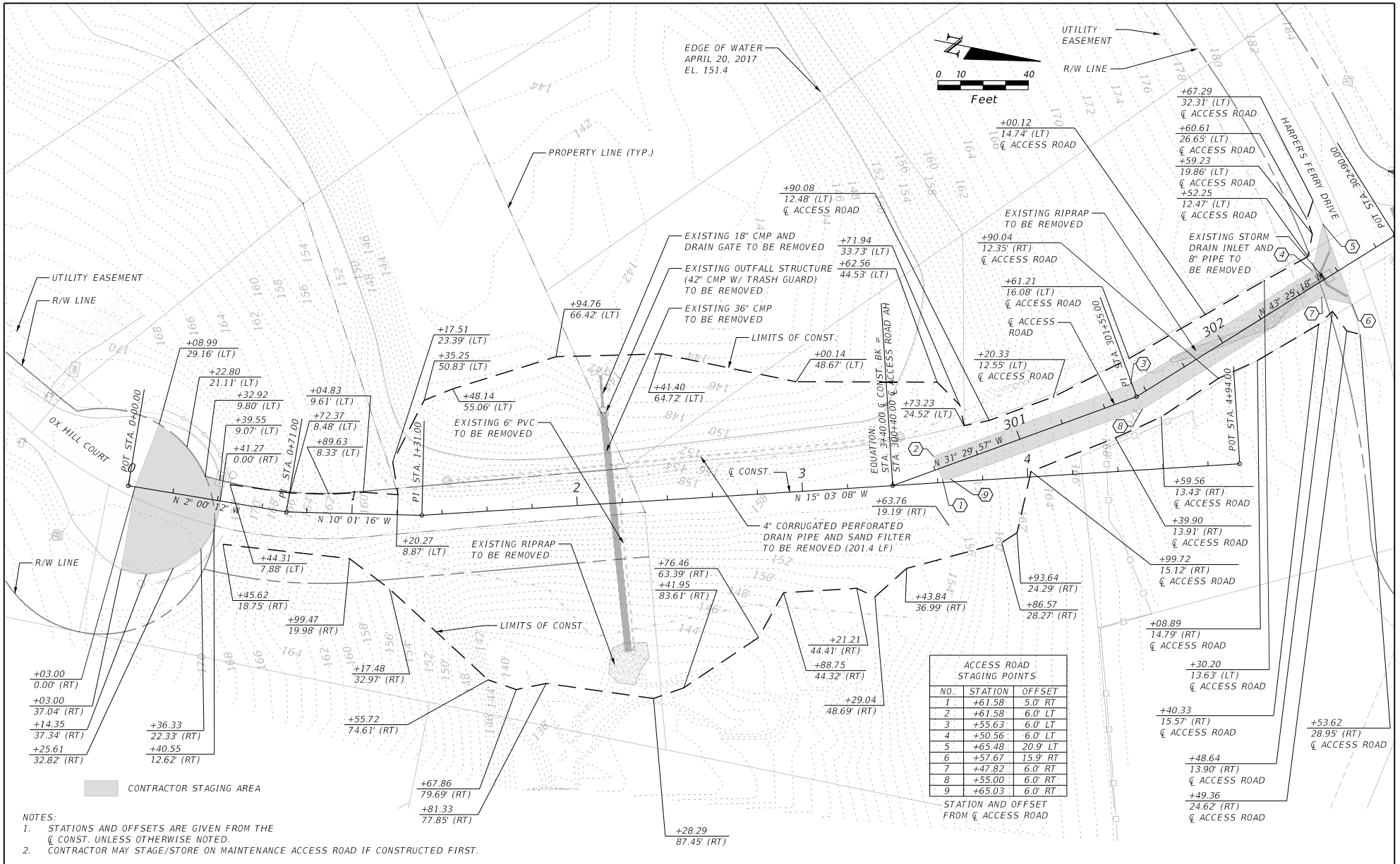
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

MINIMUM EROSION CONTROL

PROJECT NAME:
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT

SHEET NO. **8**

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



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

ACCESS ROAD STAGING POINTS		
NO.	STATION	OFFSET
1	+61.58	5.0' RT
2	+61.58	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
9	+65.03	6.0' RT

STATION AND OFFSET FROM $\text{\textcircled{C}}$ ACCESS ROAD

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

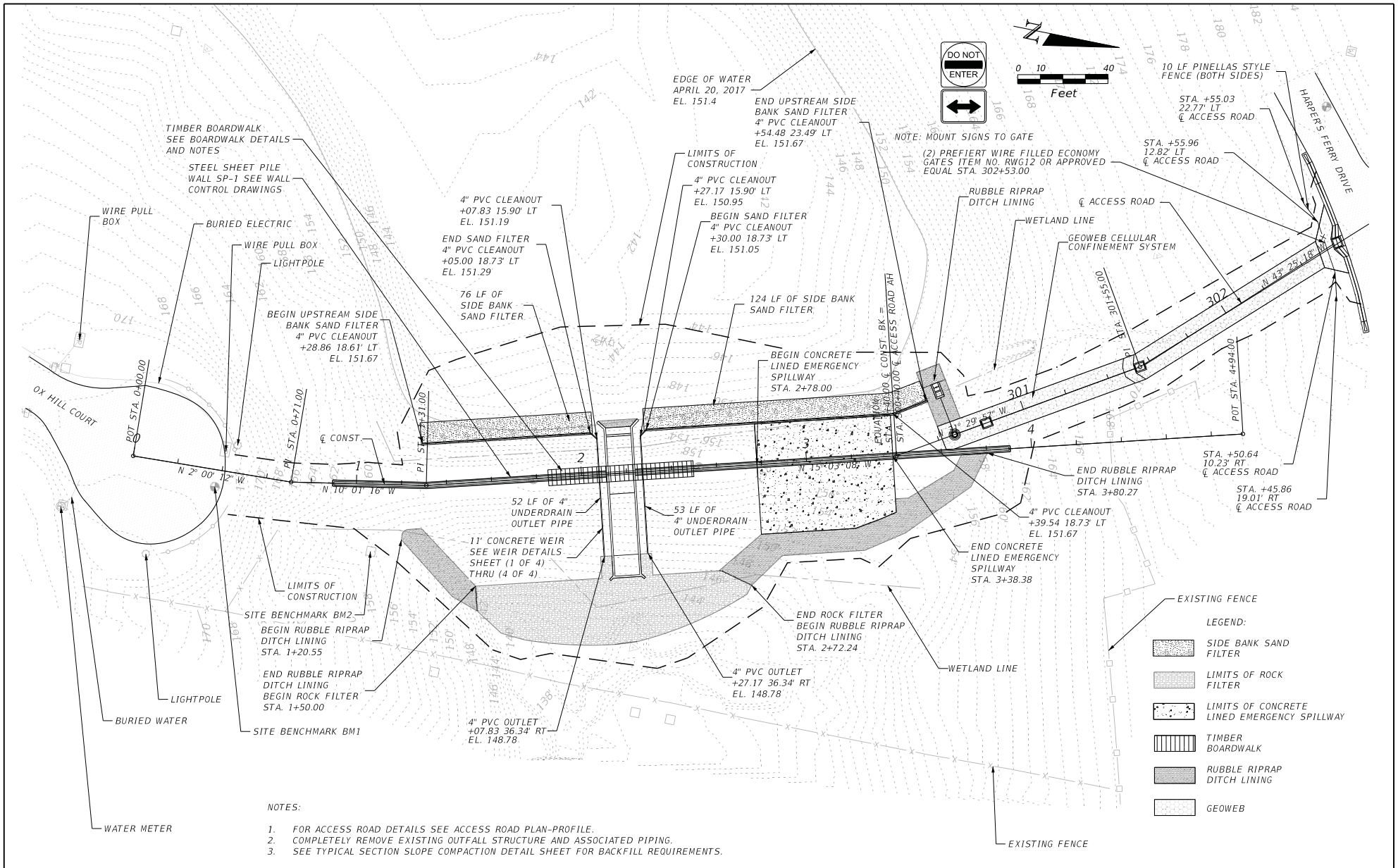
REGISTE, SLIGER ENGINEERING, INC.
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.
 P.E. LICENSE NUMBER 55550
 CERTIFICATE OF AUTHORIZATION: 9292
 3370 CAPITAL CIRCLE NE, SUITE J
 TALLAHASSEE, FL 32308
 PHONE: (850) 894-4521 - FAX: (850) 224-0505

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

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

SHEET NO. 9

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NOTES:

1. FOR ACCESS ROAD DETAILS SEE ACCESS ROAD PLAN-PROFILE.
2. COMPLETELY REMOVE EXISTING OUTFALL STRUCTURE AND ASSOCIATED PIPING.
3. SEE TYPICAL SECTION SLOPE COMPACTION DETAIL SHEET FOR BACKFILL REQUIREMENTS.

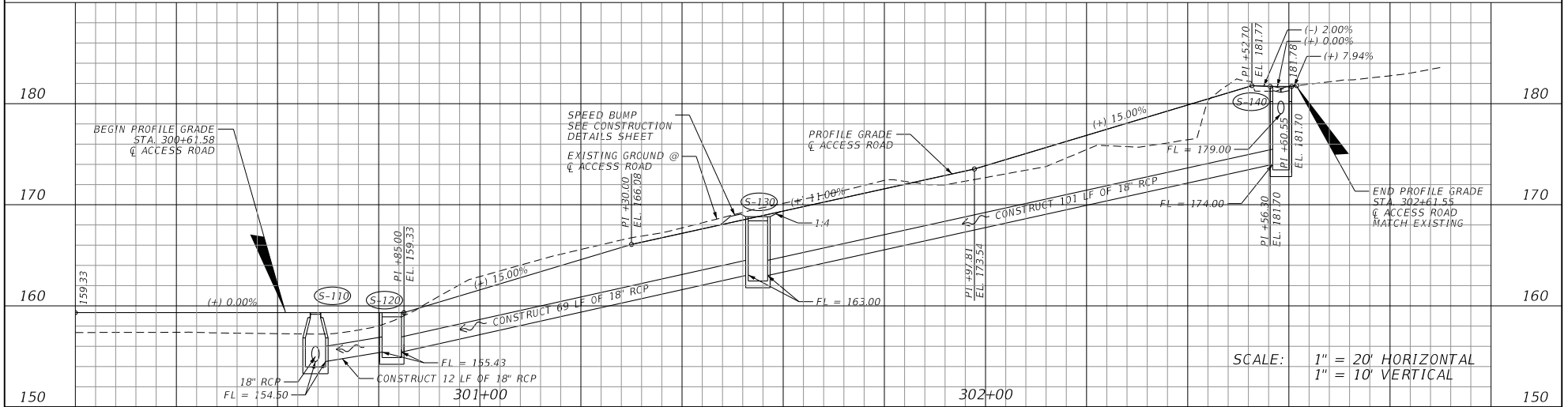
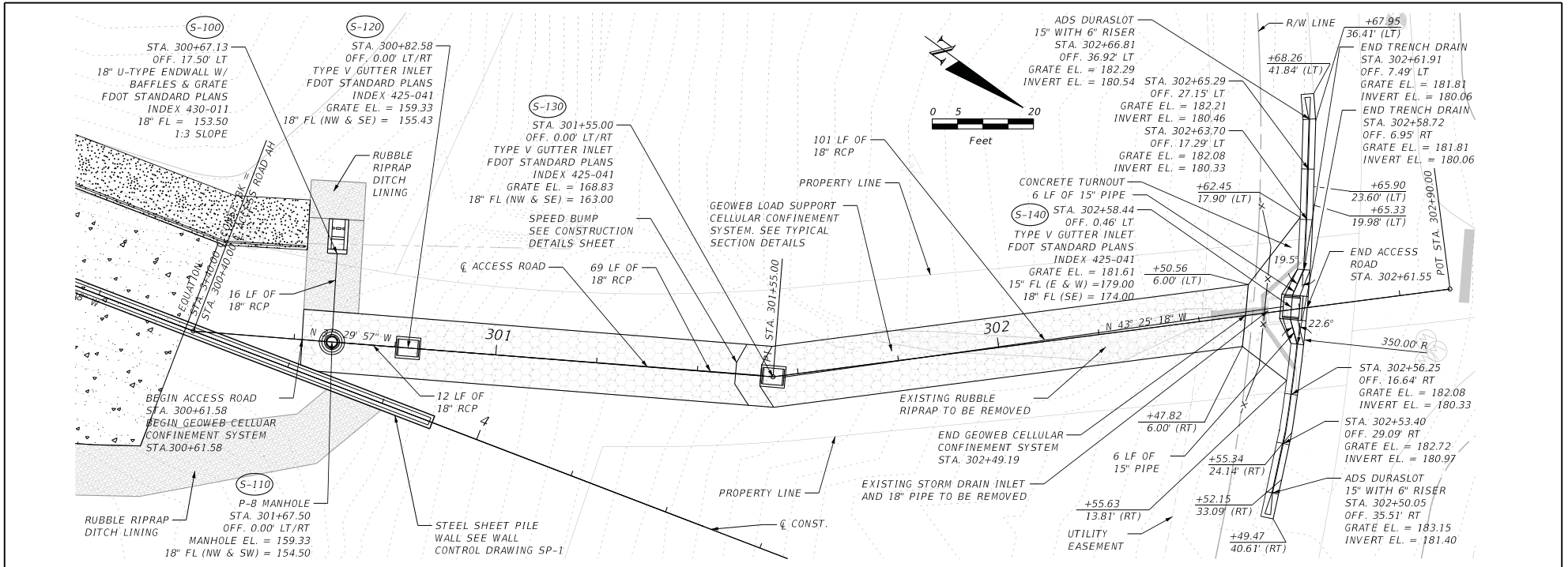
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

REGISTE, SLIGER ENGINEERING, INC.
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.
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LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

PLAN	SHEET NO. 10
PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	

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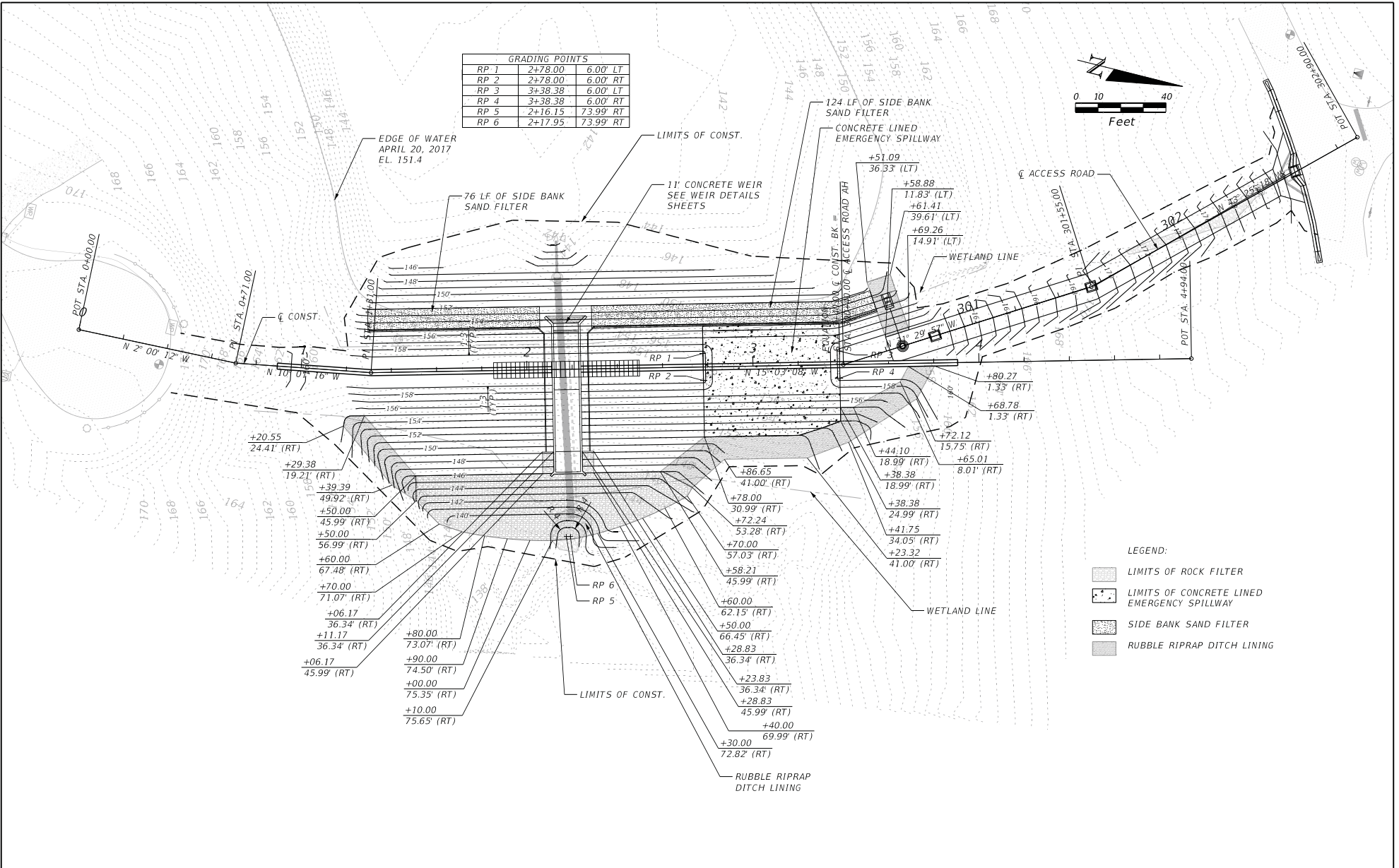
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DATE	DESCRIPTION	DATE	DESCRIPTION





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 2280 MCCOSKUE ROAD, TALLAHASSEE, FLORIDA 32308
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ACCESS ROAD PLAN-PROFILE
 PROJECT NAME:
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT
 SHEET NO. **11**

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

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	GRADING PLAN		SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

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NOTES


- NUMBERS LEFT OF BORING INDICATE STANDARD PENETRATION TEST (SPT) N-VALUES FOR 12 IN. PENETRATION (UNLESS OTHERWISE NOTED).
- WATER ELEVATIONS SHOWN ARE THE WATER ELEVATIONS ENCOUNTERED. FLUCTUATIONS IN THE ELEVATION OF WATER SHOULD BE EXPECTED.
- SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATIONS EXCEPT AT THE LOCATION OF THE SOIL BORING. EXTRAPOLATION OF THE SOIL BORING DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.


AUTOMATIC HAMMER


GRANULAR MATERIALS RELATIVE DENSITY	SPT (BLOWS/12 IN.)	SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/12 IN.)
VERY LOOSE	LESS THAN 3	VERY SOFT	LESS THAN 1
LOOSE	3 - 8	SOFT	1 - 3
MEDIUM DENSE	8 - 24	FIRM	3 - 6
DENSE	24 - 40	STIFF	6 - 12
VERY DENSE	GREATER THAN 40	VERY STIFF HARD	12 - 24 GREATER THAN 24

SPLIT-SPOON: INSIDE DIAMETER: 1.375 IN
 OUTSIDE DIAMETER: 2.0 IN
 AVG. HAMMER DROP: 30.0 IN
 HAMMER WEIGHT: 140 LBS

LEGEND







MEASURED WATER LEVEL 

SOIL BORING LOCATION 

LABORATORY TESTING RESULTS 

WATER CONTENT $W_c =$
 -200 SIEVE $-200 =$
 PLASTICITY INDEX $PI =$
 LIQUID LIMIT $LL =$
 ORGANIC CONTENT $OC\% =$
 UNCONFINED COMPRESSIVE STRENGTH (PSF) $UCC =$
 WEIGHT OF HAMMER $WOH =$

UNIFIED CLASSIFICATION GROUP SYMBOL (SM)
 AASHTO CLASSIFICATION GROUP SYMBOL (A-2-4)

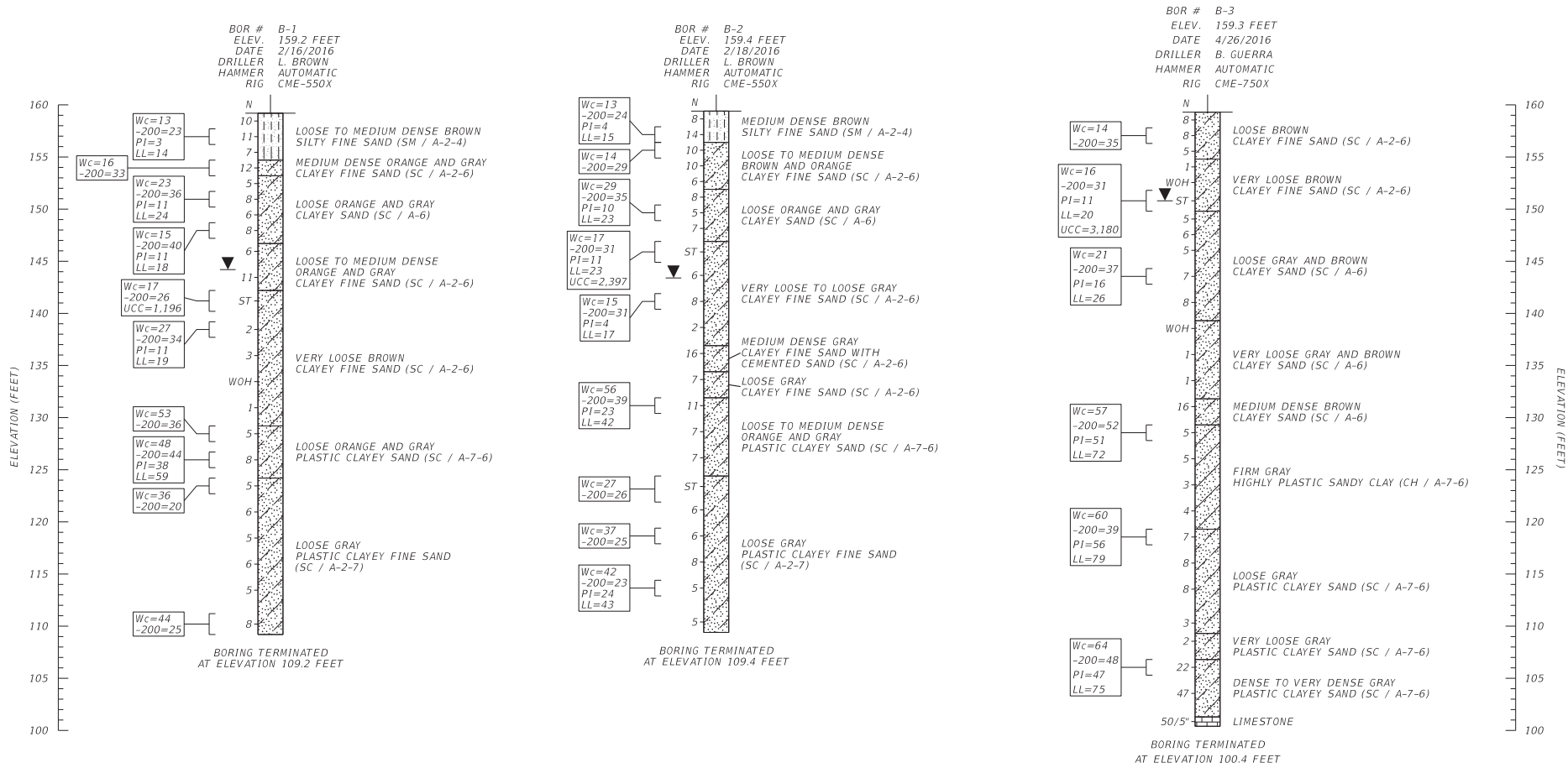
	SILTY FINE SAND (SM)
	CLAYEY FINE TO PLASTIC CLAYEY SAND (SC)
	PLASTIC SILT (MH)
	HIGHLY PLASTIC SANDY CLAY (CH)
	WEATHERED LIMESTONE
	LIMESTONE

SOIL BORING LOCATION MAP



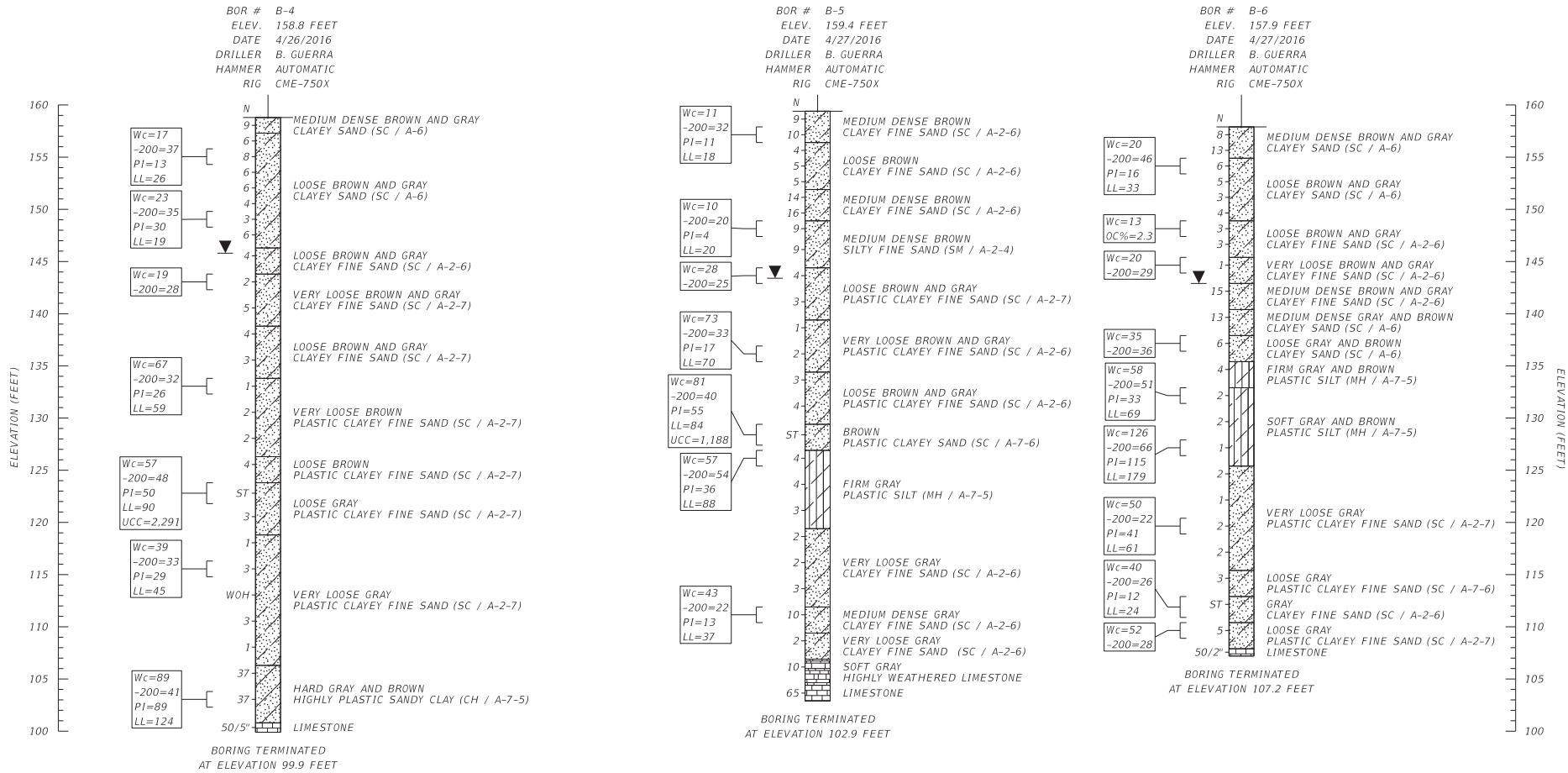
REVISIONS						SEAL:	Environmental & Geotechnical Specialists, Inc.	REGISTE, SLIGER ENGINEERING, INC.	REPORT OF CORE BORINGS (SHEET 1 OF 4)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						MYRON HAYDEN, P.E.	104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050	PROJECT TITLE	CENTERVILLE TRACE	13
						P.E. NO.: 34067				

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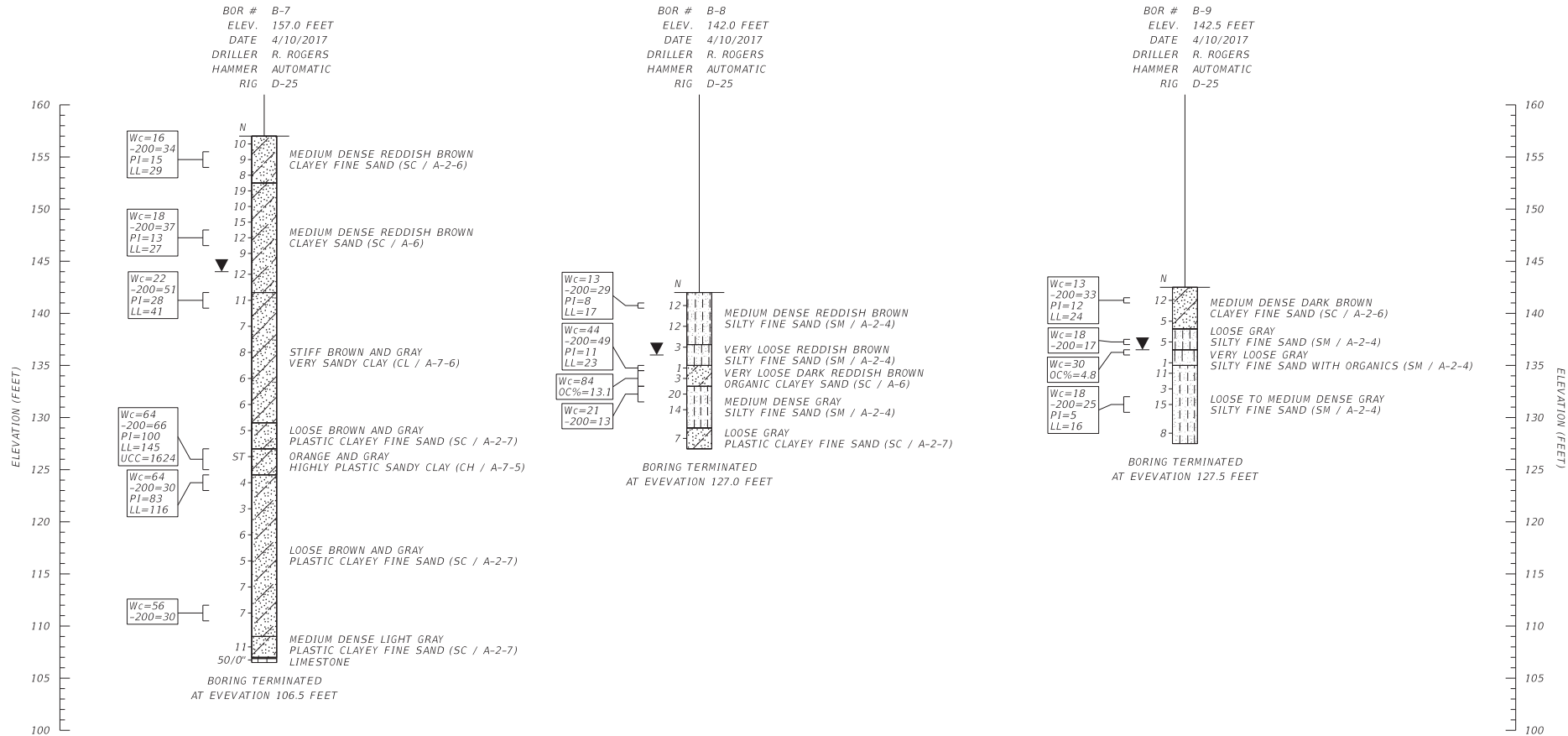
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						MYRON HAYDEN, P.E.	104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050	CENTERVILLE TRACE			14



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						MYRON HAYDEN, P.E.	104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050	PROJECT TITLE CENTERVILLE TRACE		

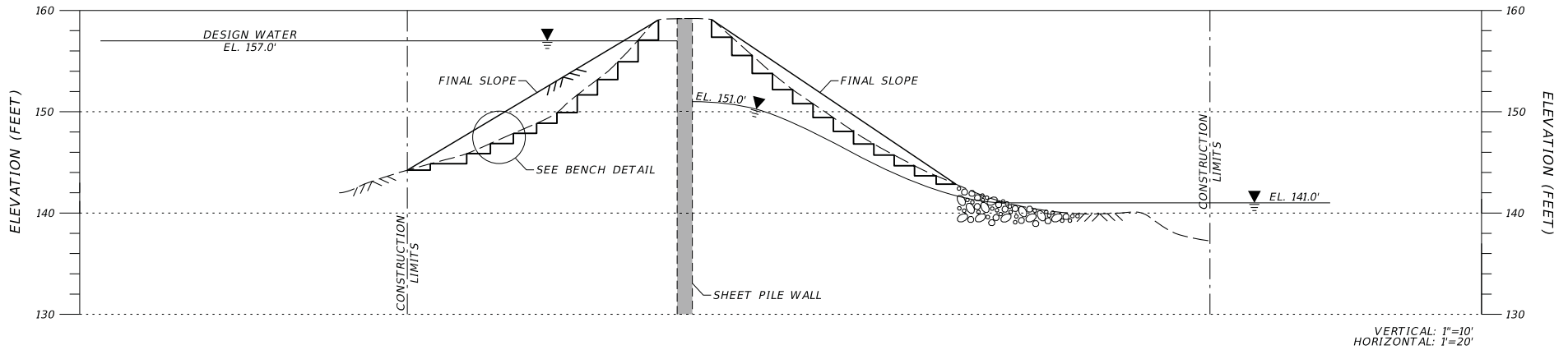
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						MYRON HAYDEN, P.E.	104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050	CENTERVILLE TRACE			16
						P.E. NO.: 34067					

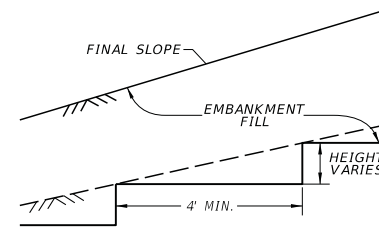
TYPICAL CROSS-SECTION EMBANKMENT STABILIZATION



NOTES

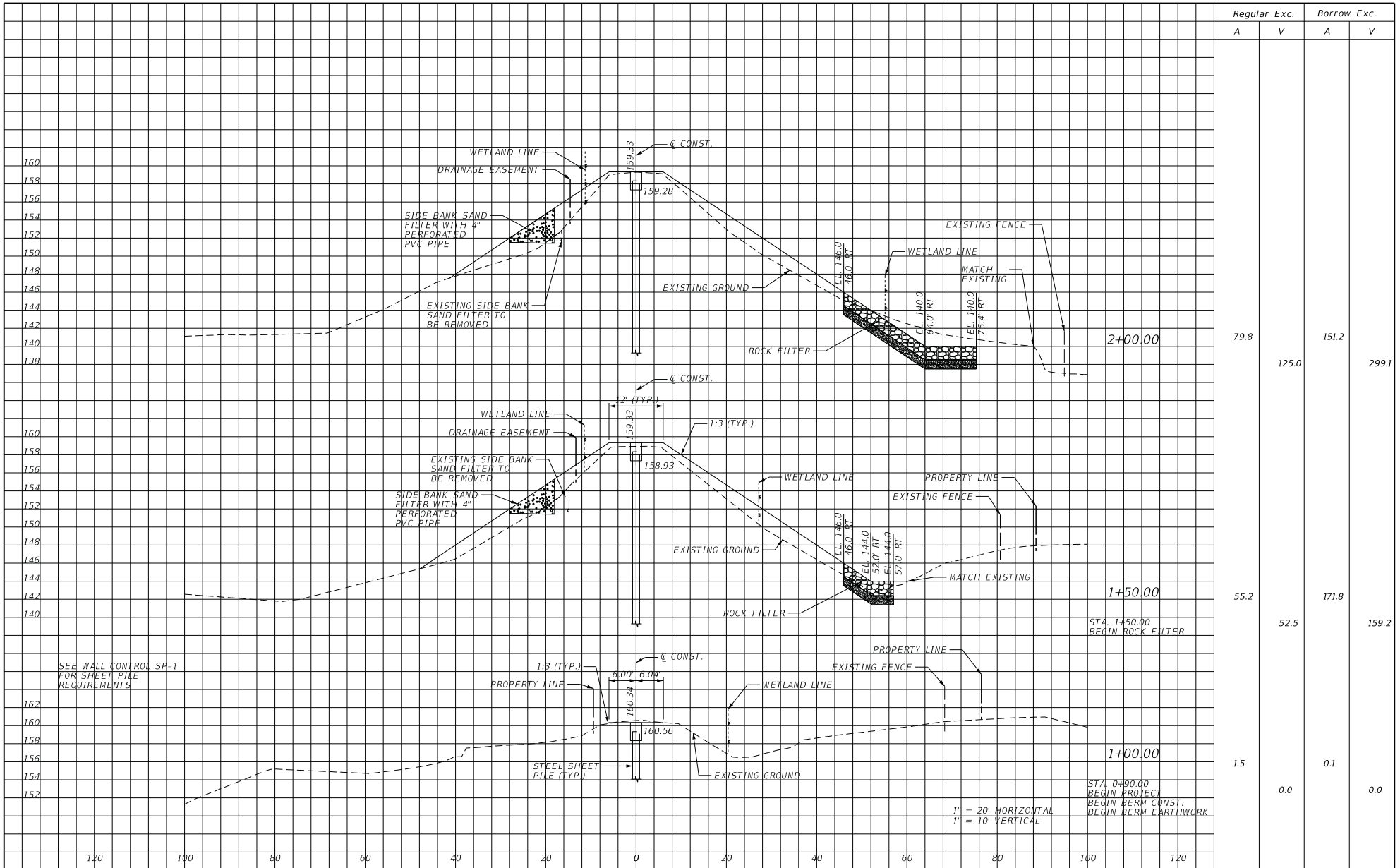
1. EXCAVATE EMBANKMENT BENCHES STARTING AT THE BOTTOM AND WORKING TO THE TOP OF SLOPE.
2. AFTER BENCH HAS BEEN EXCAVATED, SMOOTH THE SURFACE AND COMPACT TO AT LEAST 95% OF THE SOIL'S STANDARD PROCTOR DRY DENSITY.
3. BACKFILL TO THE REQUIRED GRADE WITH A CLAYEY SAND (A-2-6/A-6) WITH A MAXIMUM LIQUID LIMIT OF 45, PERCENTAGE OF FINES (PASSING THE NO. 200 SIEVE) NO GREATER THAN 45%, AND A MAXIMUM ORGANIC CONTENT OF 1% BY WEIGHT.
4. THE FILL SOILS SHALL BE COMPACTED IN LIFTS THAT DO NOT EXCEED 9 INCHES OF LOOSE SOIL AND COMPACTED TO 95% OF THE SOIL'S STANDARD PROCTOR DRY DENSITY.
5. THESE FILL SOILS WILL BE MOISTURE SENSITIVE AND WILL NEED TO BE COMPACTED AT A MOISTURE CONTENT CLOSE TO THE SOIL'S STANDARD PROCTOR OPTIMUM.
6. THE BENCHES SHALL BE BACKFILLED AND COMPACTED STARTING AT THE BOTTOM OF THE SLOPE AND WORKING TO THE TOP OF THE SLOPE.
7. NO MORE THAN 3 BENCHES SHALL BE EXPOSED PRIOR TO BACKFILLING.
8. AFTER THE BENCHES HAVE BEEN COMPACTED, SHAPE THE FACE OF THE SLOPE TO THE REQUIRED FINAL SLOPE.
9. THE FOLLOWING MINIMUM DENSITY TESTS SHALL BE CONDUCTED ON THE COMPACTED SOIL: 3 TESTS ON EACH PREPARED BENCH SUBGRADE AND 3 TESTS PER LIFT PER BENCH.

COMPACTION BENCH DETAIL



	SEAL:	Environmental & Geotechnical Specialists, Inc. EGS 104 NORTH MAGNOLIA DRIVE TALLAHASSEE, FLORIDA 32301 OFFICE: (850) 386-1253 FAX: (850) 385-8050 Cert. of Auth.: 6222	REGISTE, SLIGER ENGINEERING, INC. PROJECT TITLE CENTERVILLE TRACE EMBANKMENT DAM	TYPICAL SECTION SLOPE COMPACTION DETAIL	SHEET NO. 17
		M. HAYDEN, P.E. P.E. NO.: 34067			

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



Regular Exc.		Borrow Exc.	
A	V	A	V
79.8	125.0	151.2	299.1
55.2	52.5	171.8	159.2
1.5	0.0	0.1	0.0

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

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

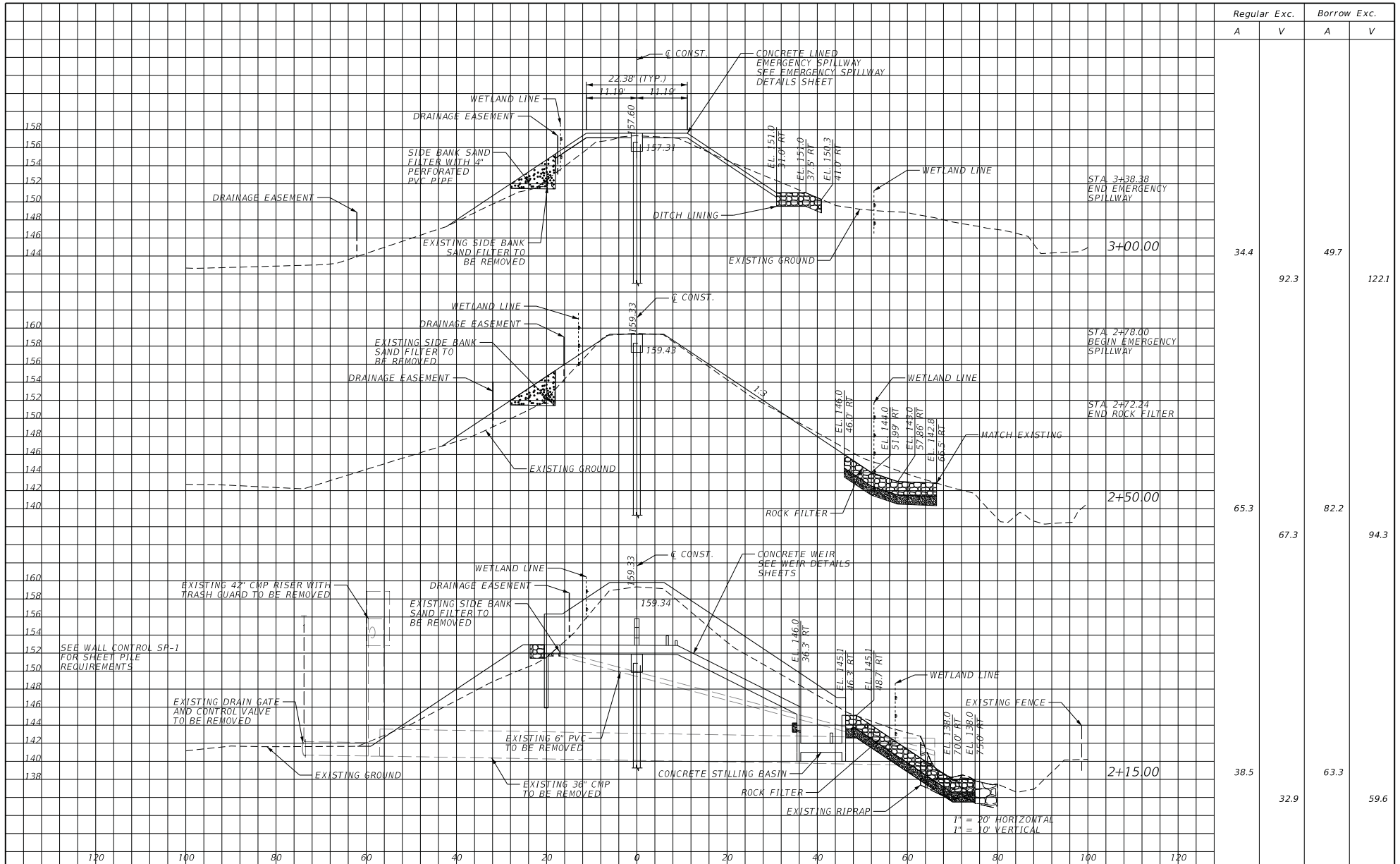
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MCCOSKUEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

CROSS SECTIONS

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

SHEET NO. **18**

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Regular Exc.		Borrow Exc.	
A	V	A	V
34.4	92.3	49.7	122.1
65.3	67.3	82.2	94.3
38.5	32.9	63.3	59.6

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

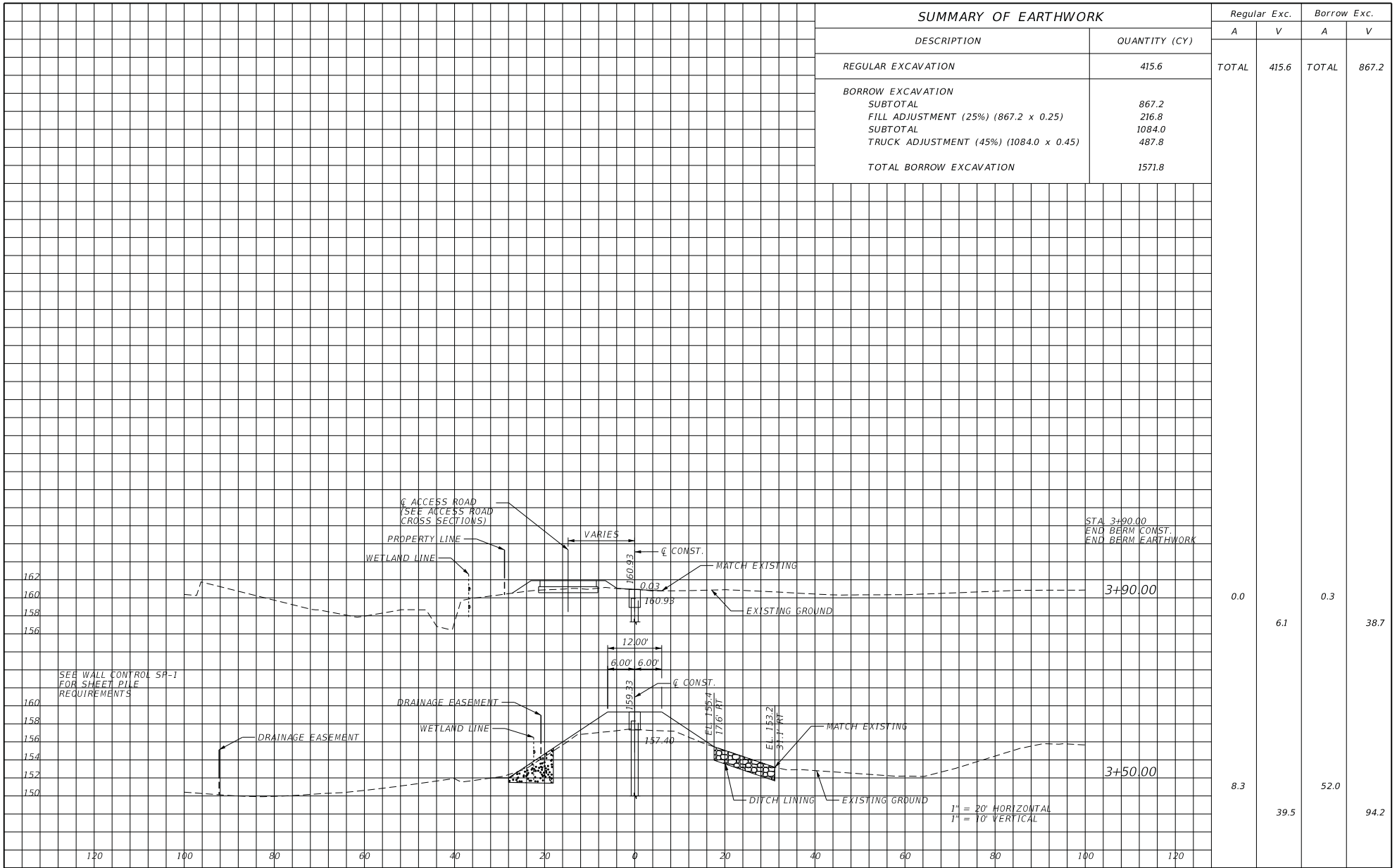
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MCCOSLUKKE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

CROSS SECTIONS

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

SHEET NO.
19

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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

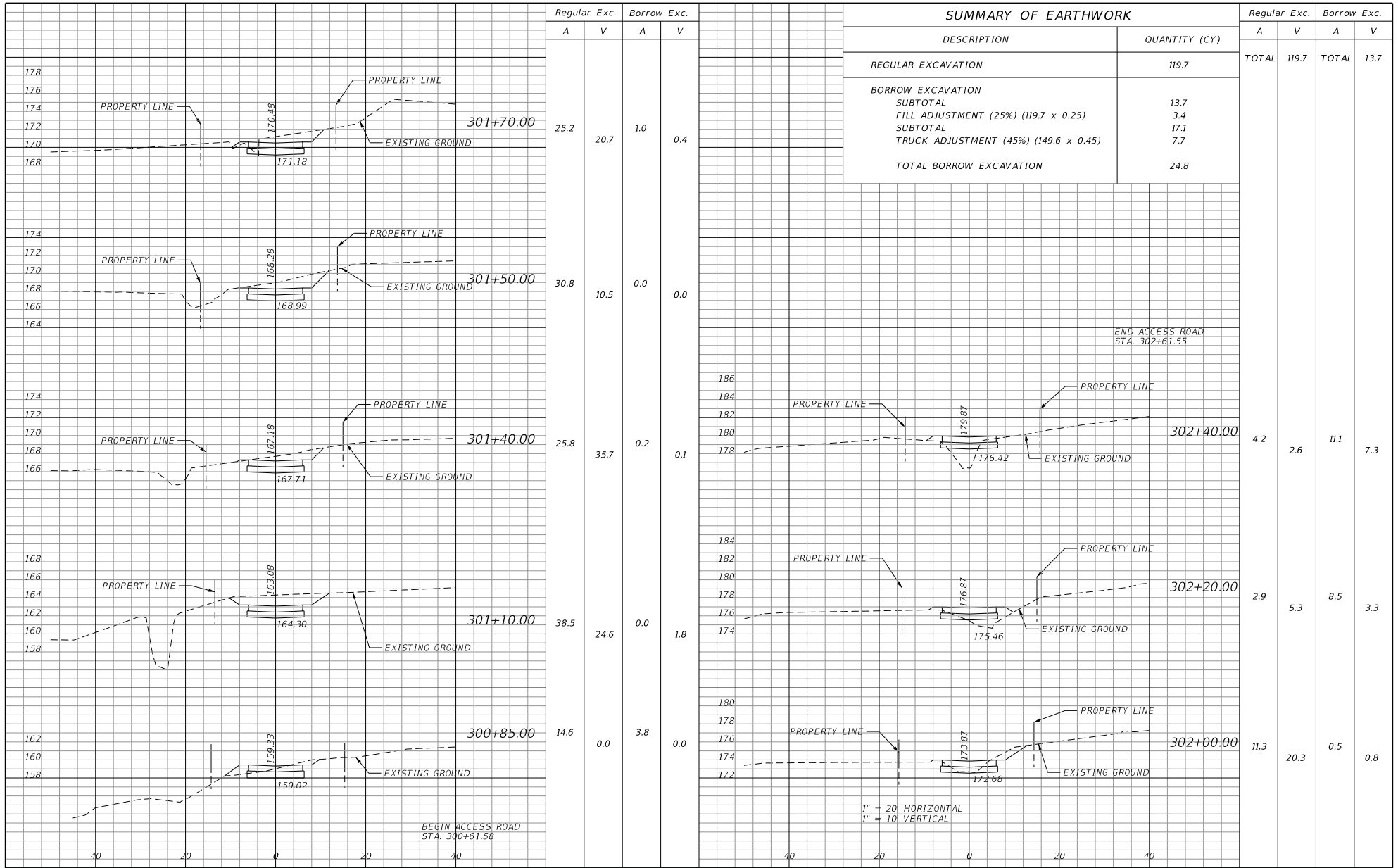
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

CROSS SECTIONS

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

SHEET NO.
20

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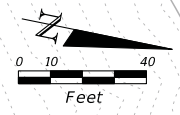
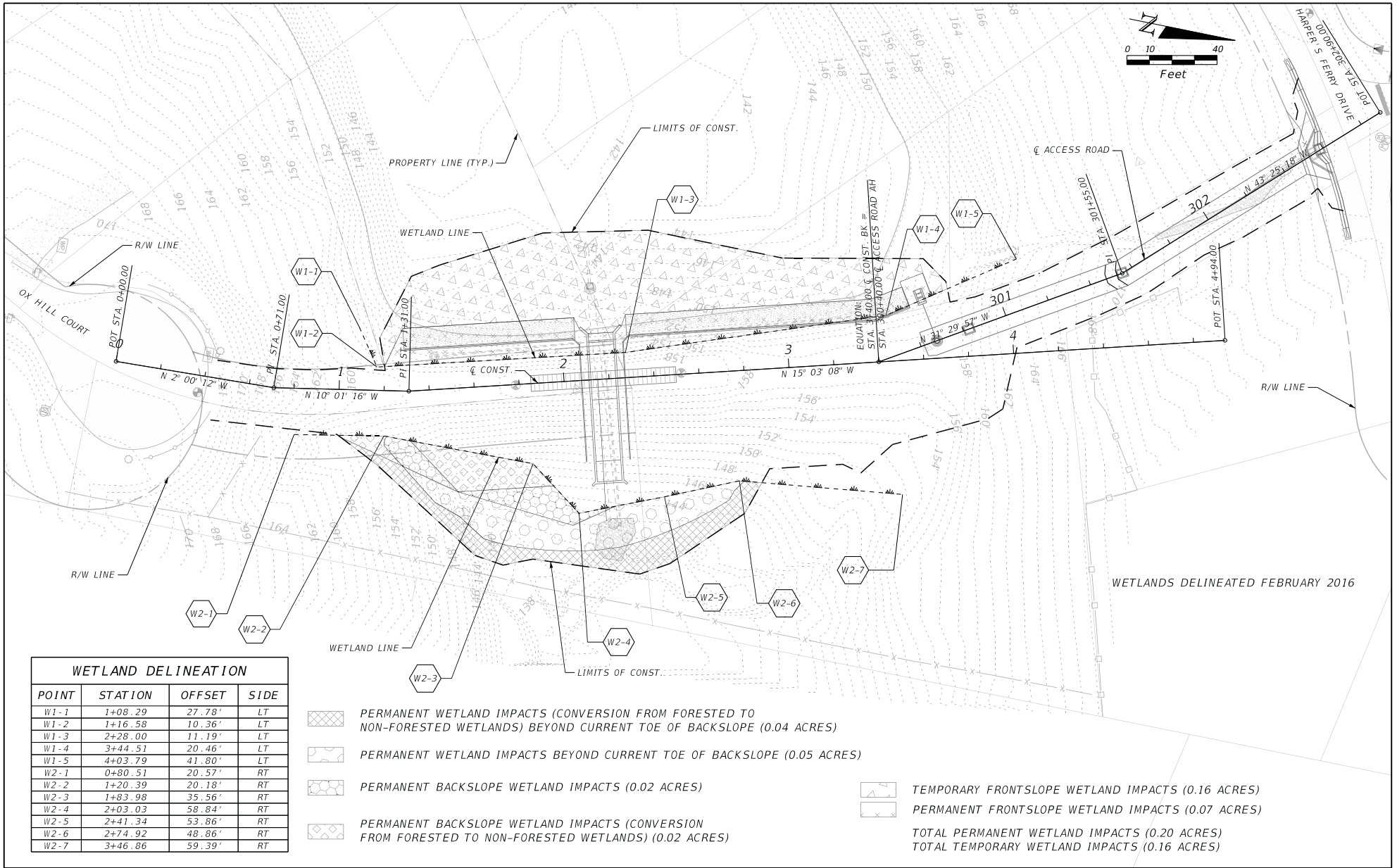
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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

ACCESS ROAD CROSS SECTIONS
 PROJECT NAME:
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT
 SHEET NO. 21

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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

- PERMANENT WETLAND IMPACTS (CONVERSION FROM FORESTED TO NON-FORESTED WETLANDS) 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)
 - PERMANENT BACKSLOPE WETLAND IMPACTS (CONVERSION FROM FORESTED TO NON-FORESTED WETLANDS) (0.02 ACRES)
 - TEMPORARY FRONTSLOPE WETLAND IMPACTS (0.16 ACRES)
 - PERMANENT FRONTSLOPE WETLAND IMPACTS (0.07 ACRES)
- TOTAL PERMANENT WETLAND IMPACTS (0.20 ACRES)
 TOTAL TEMPORARY WETLAND IMPACTS (0.16 ACRES)

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

WETLAND IMPACTS

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

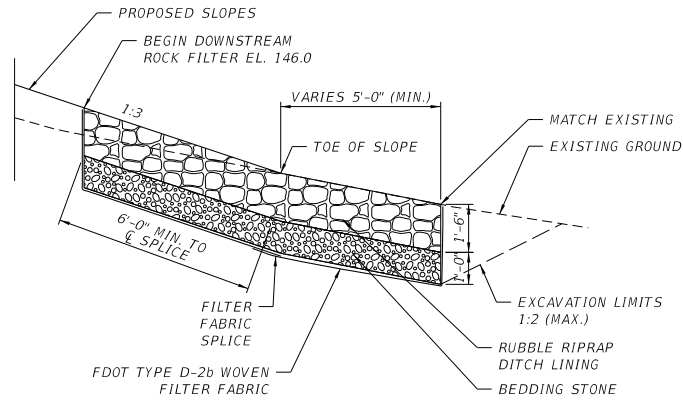
SHEET NO.
22

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MAINTENANCE OF TRAFFIC NOTES

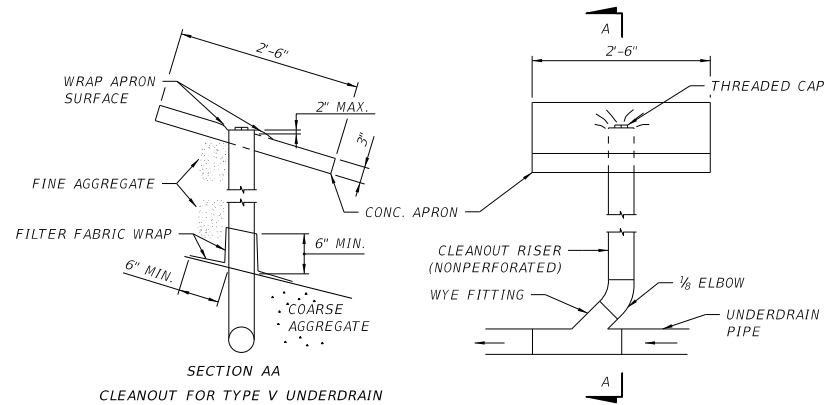
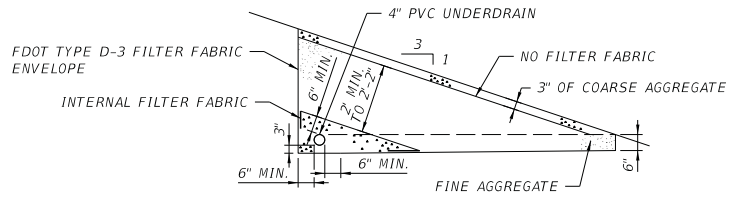
1. CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS TO THE LEON COUNTY PROJECT MANAGER FOR APPROVAL. MAINTENANCE OF TRAFFIC PLANS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR CERTIFIED BY AN INDIVIDUAL WITH A CURRENT FDOT CERTIFIED ADVANCED MOT PRACTITIONER CERTIFICATE.
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		 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	TRAFFIC CONTROL GENERAL NOTES		SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

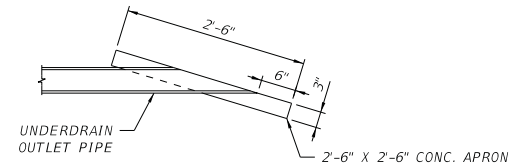


1. ROCK SHALL BE RUBBLE RIPRAP DITCH LINING IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 530.
2. FOR LOCATION AND LIMITS OF ROCK FILTER, SEE GRADING PLAN.
3. ROCK FILTER SHALL BE INSTALLED PRIOR TO INSTALLATION OF STEEL SHEET PILE WALL. EXCAVATION SLOPES FOR INSTALLATION OF ROCK FILTER SHALL 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
FDOT TYPE V UNDERDRAIN (STANDARD PLANS INDEX 440-001)

NOTES:

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. FILTER FABRIC SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 985. THE INTERNAL FILTER FABRIC SHALL HAVE A PERMITTIVITY OF 0.7 /SEC. AND AN AOS OF #40 SIEVE. ALL FILTER FABRIC JOINTS SHALL OVERLAP A MINIMUM OF 1'. THE INTERNAL FILTER FABRIC SHALL OVERLAP INTO THE COARSE AGGREGATE OR THE FINE AGGREGATE A MINIMUM OF 1'.
6. UNDERDRAIN OUTLET PIPES SHALL BE NONPERFORATED AND ALL BENDS SHALL BE MADE USING 1/2 (45 DEG.) ELBOWS. 90 DEG. BENDS SHALL BE CONSTRUCTED WITH TWO 1/2 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	
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



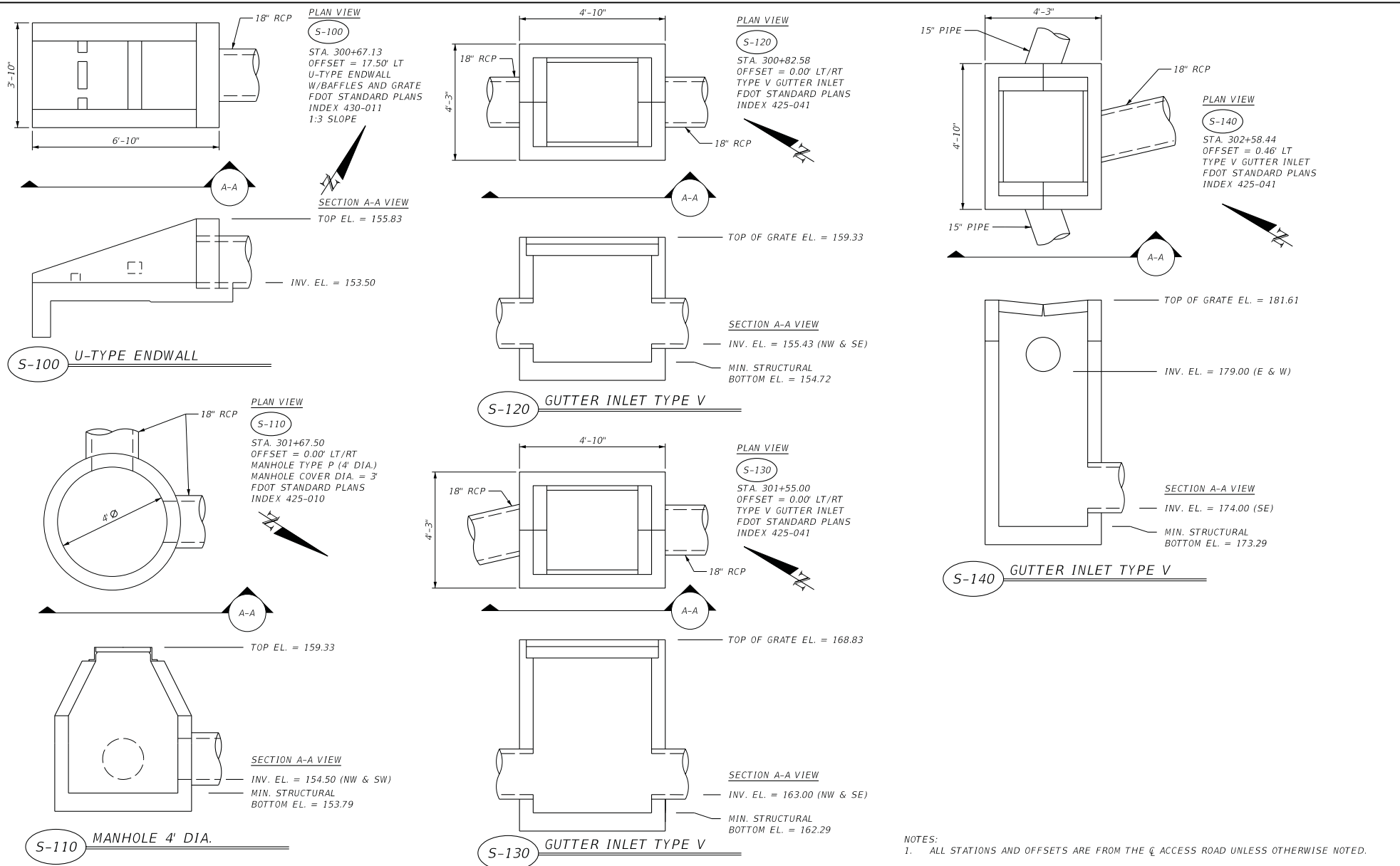
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
PHONE (850) 606-1500 * FAX (850) 606-1501

**MISCELLANEOUS DRAINAGE
DETAILS**

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

SHEET
NO.

24



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

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION



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



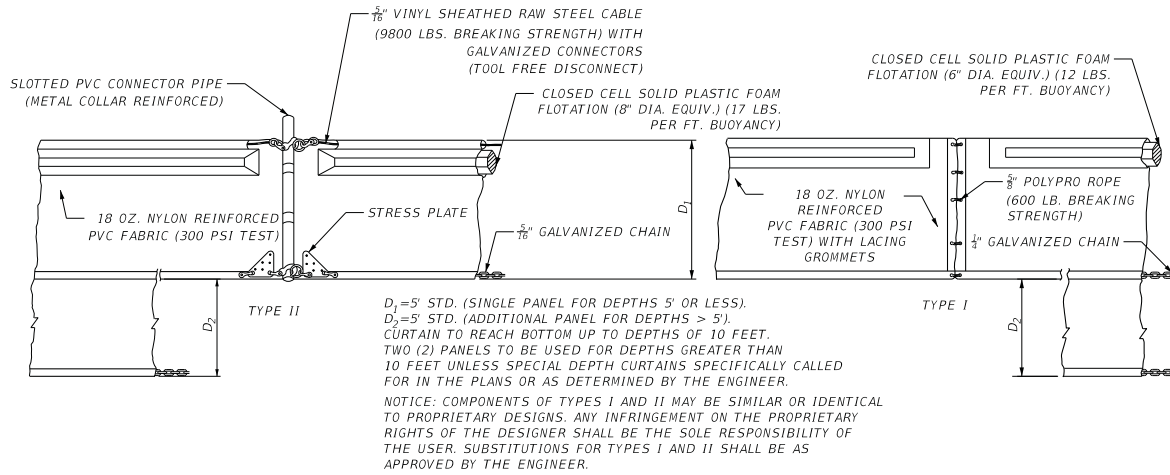
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

DRAINAGE STRUCTURE DETAILS

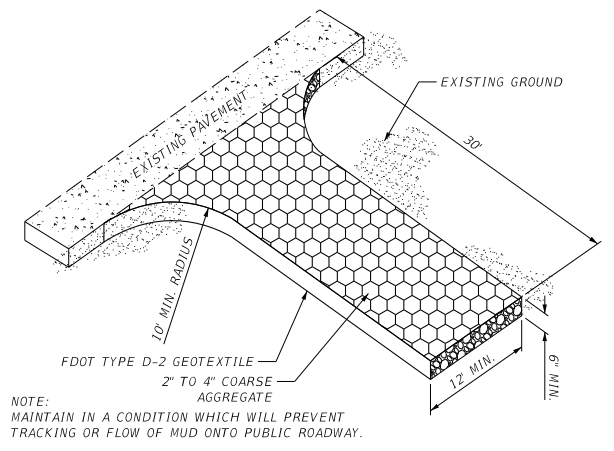
PROJECT NAME:
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT

SHEET NO.
25

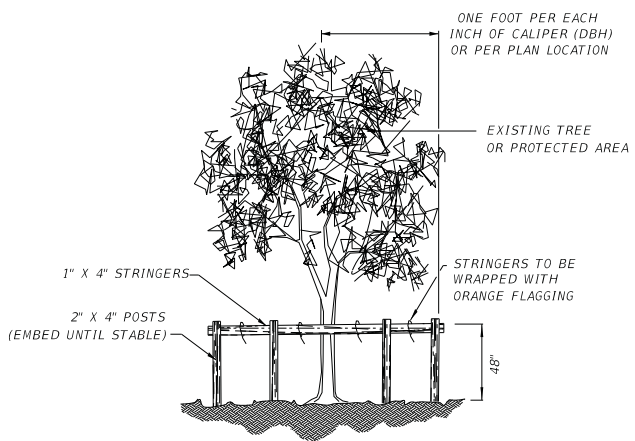
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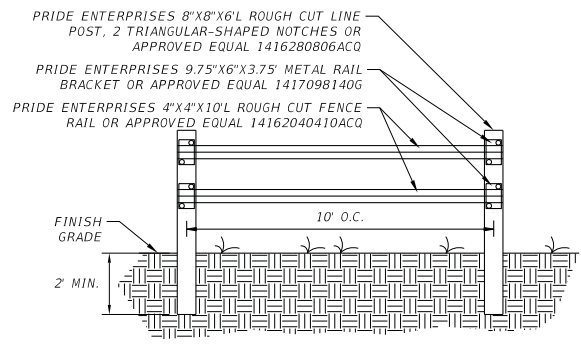
1 FLOATING TURBIDITY BARRIER
 N.T.S.



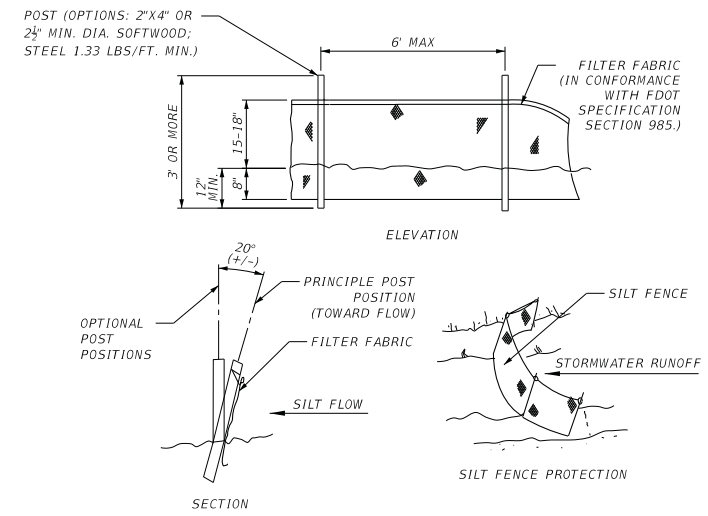
2 SOIL TRACKING PREVENTION DEVICE
 N.T.S.



3 TREE PROTECTION BARRICADE DETAIL
 N.T.S.
 NOTE: TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT THE CRITICAL PROTECTION ZONE (CPZ).



4 WOOD RAIL "PINELLAS STYLE" FENCE DETAIL
 N.T.S.
 NOTE: FENCE DETAIL IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO LEON COUNTY FOR REVIEW AND APPROVAL.



5 TYPE III SILT FENCE
 N.T.S.

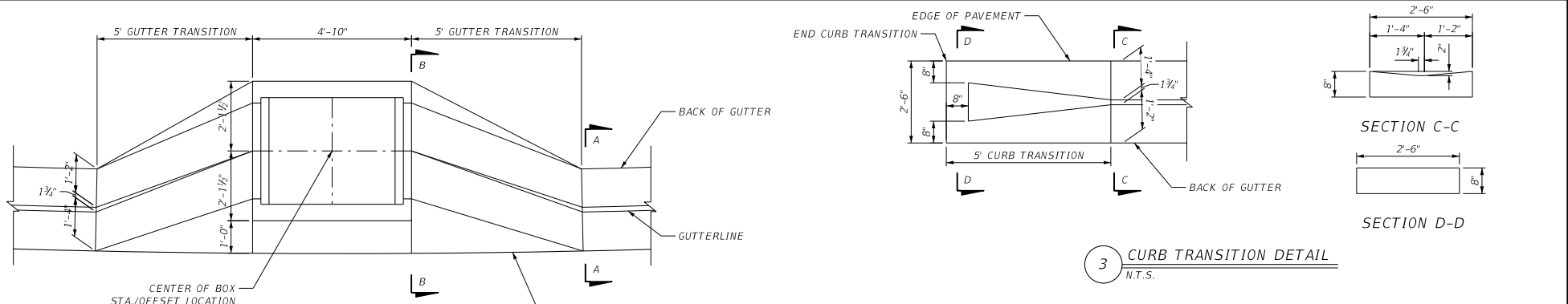
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.
 P.E. LICENSE NUMBER 55550
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 3370 CAPITAL CIRCLE NE, SUITE J
 TALLAHASSEE, FL 32308
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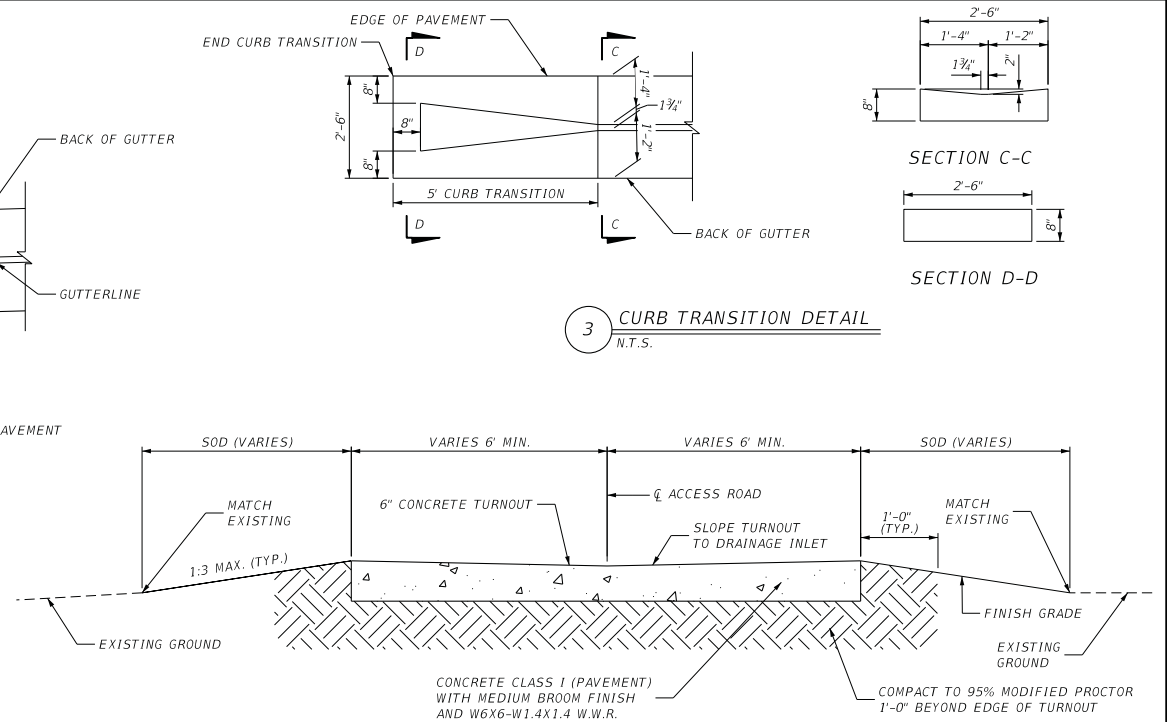
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

CONSTRUCTION DETAILS
 PROJECT NAME:
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT
 SHEET NO. 26

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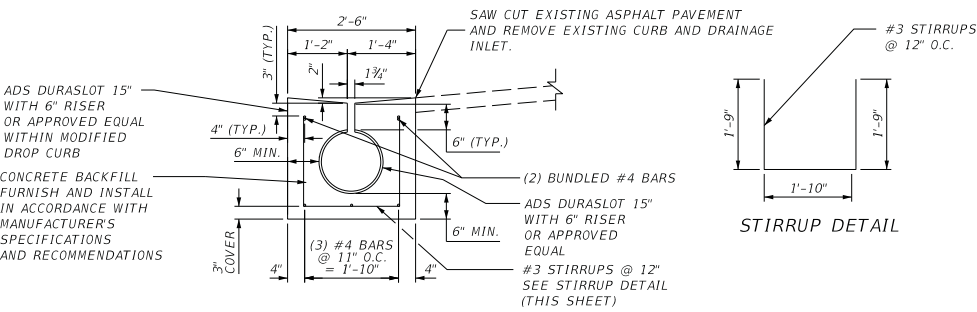


1 GUTTER TRANSITION DETAIL
N.T.S.



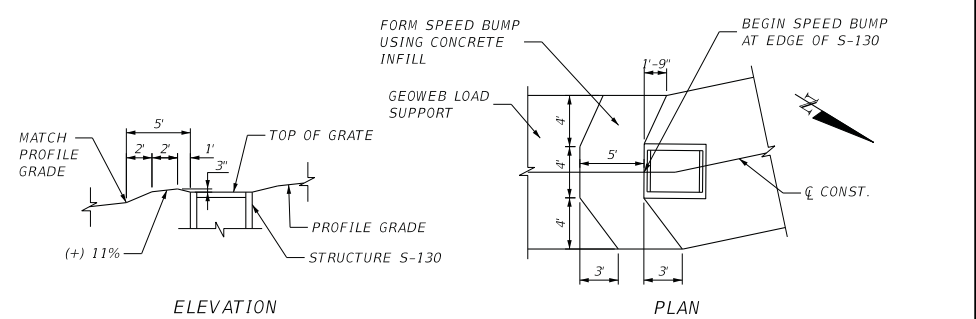
3 CURB TRANSITION DETAIL
N.T.S.

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



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

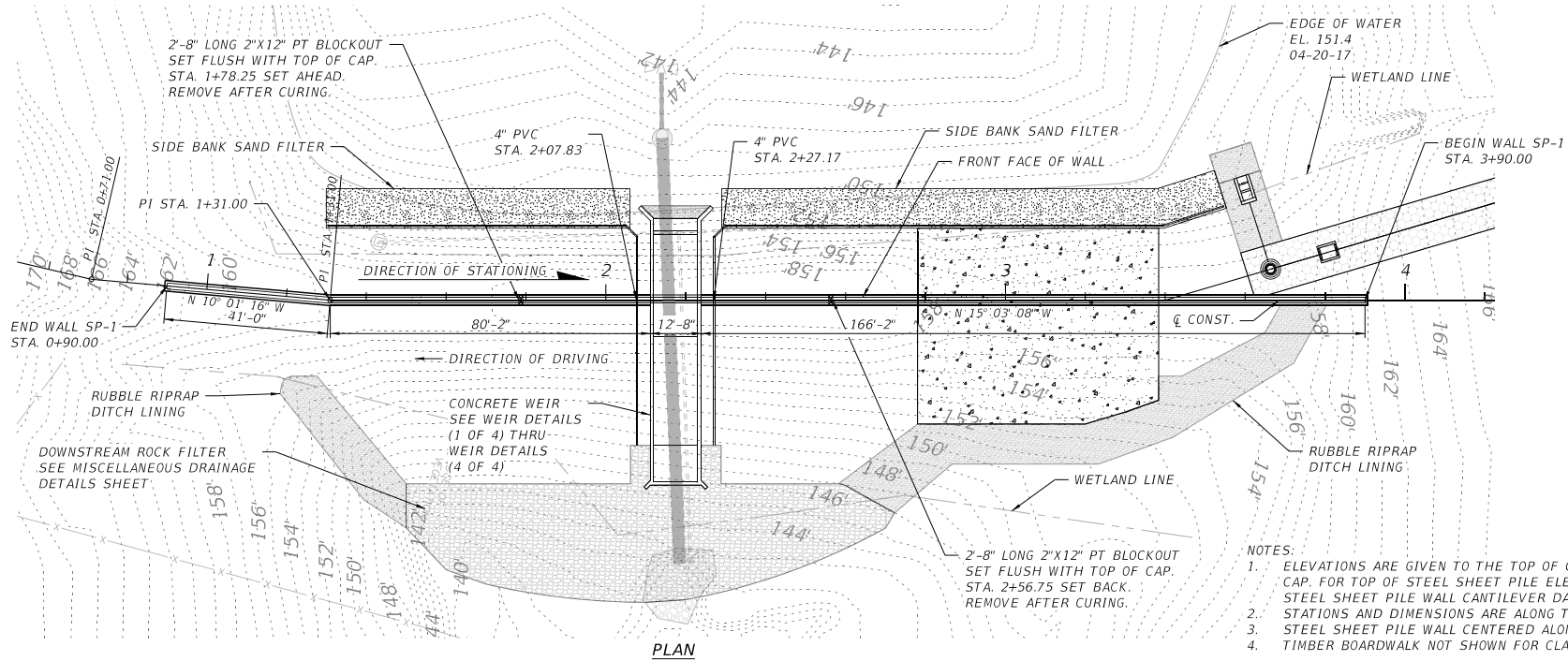
STIRRUP DETAIL



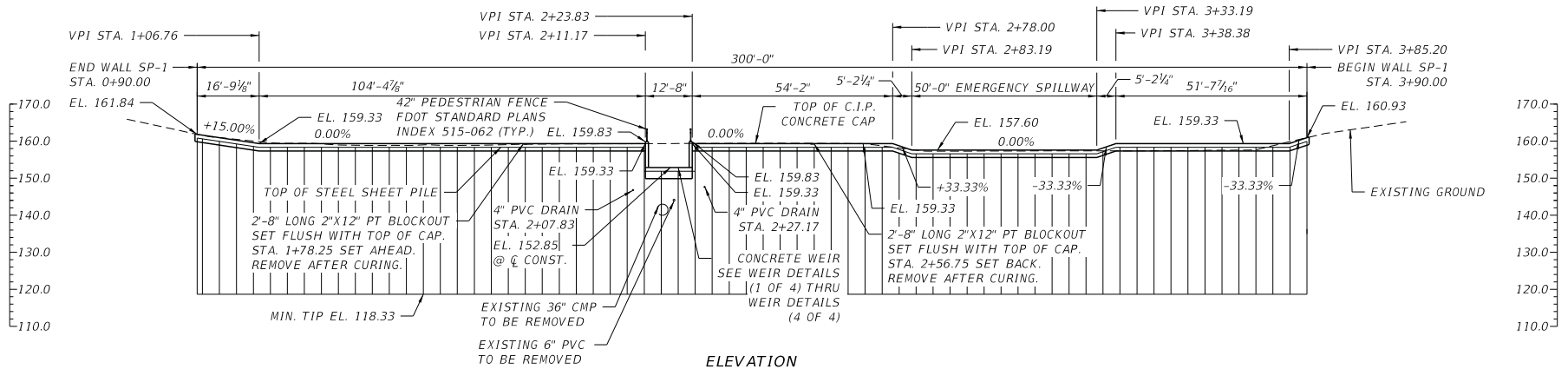
5 SPEED BUMP DETAIL
N.T.S.

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	CONSTRUCTION DETAILS PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION				

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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 WALL CANTILEVER DATA TABLE.
 2. STATIONS AND DIMENSIONS ARE ALONG THE C.C. CONST.
 3. STEEL SHEET PILE WALL CENTERED ALONG C.C. CONST.
 4. TIMBER BOARDWALK NOT SHOWN FOR CLARITY.



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 MCCOSKUE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	WALL CONTROL SP-1		SHEET NO. 28
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.

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 (SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA) 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 (SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA) 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 CAPABLE OF INSTALLING SHEET PILE
- 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 ² /ft)	MINIMUM REQUIRED MOMENT OF INERTIA (in ⁴ /ft)	SECTION HEIGHT (in)	WIDTH (in)	THICKNESS	
					FLANGE (in)	WALL (in)
f _y =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+85.20	118.33	159.93-158.33
3+85.20 TO 3+38.38	118.33	158.33
3+38.38 TO 3+33.19	118.33	158.33-156.60
3+33.19 TO 2+83.19	118.33	156.60
2+83.19 TO 2+78.00	118.33	156.60-158.33
2+78.00 TO 2+24.64	118.33	158.33
2+24.64 TO 2+10.86	118.33	150.85
2+10.86 TO 1+06.76	118.33	158.33
1+06.76 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.

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		REVISIONS		DATE	DESCRIPTION	DATE	DESCRIPTION					 <p>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</p>	 <p>LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MCCOSKUEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501</p>	<p>STEEL SHEET PILE NOTES <i>(1 OF 2)</i></p>	SHEET NO.
REVISIONS		REVISIONS															
DATE	DESCRIPTION	DATE	DESCRIPTION														
<p>PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT</p>		29															

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.

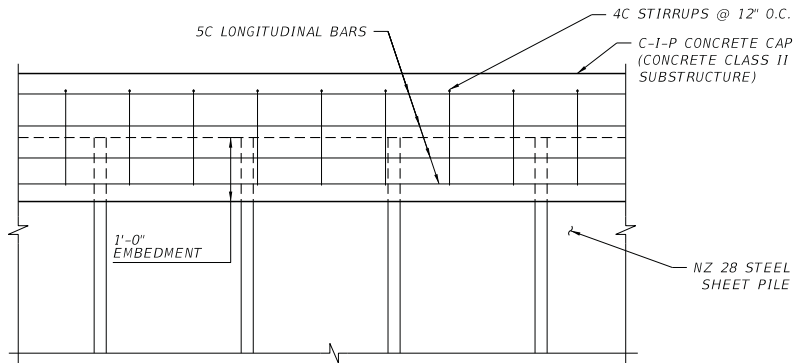
SHEET PILE SPLICING:

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 AT NO ADDITIONAL COST TO LEON COUNTY.

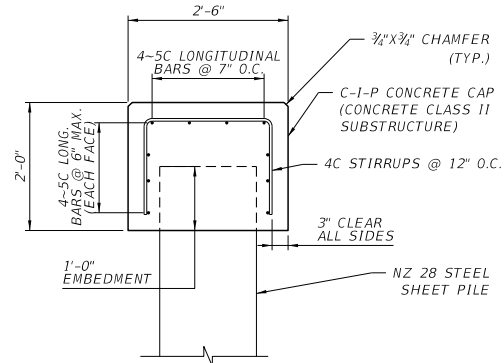
C-I-P CONCRETE CAP:

1. CONCRETE SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 346.
2. CONCRETE FOR C-I-P SHEET PILE CAP SHALL BE CLASS II (SUBSTRUCTURE) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,400 PSI.
3. THE CONTRACTOR SHALL COORDINATE C-I-P CONCRETE CAP CONSTRUCTION WITH BOARDWALK RAMP CONSTRUCTION.

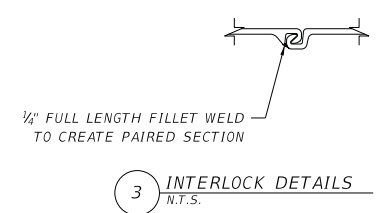
REVISIONS		REVISIONS		 REGISTE, SLIGER ENGINEERING, INC. ENGINEER OF RECORD: JOHN F. SLIGER II, P.E. P.E. LICENSE NUMBER 55550 CERTIFICATE OF AUTHORIZATION: 9292 3370 CAPITAL CIRCLE NE, SUITE J TALLAHASSEE, FL 32308 PHONE: (850) 894-4521 - FAX: (850) 224-0505	 LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	STEEL SHEET PILE NOTES (2 OF 2)	SHEET NO. 30
DATE	DESCRIPTION	DATE	DESCRIPTION				
						PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	



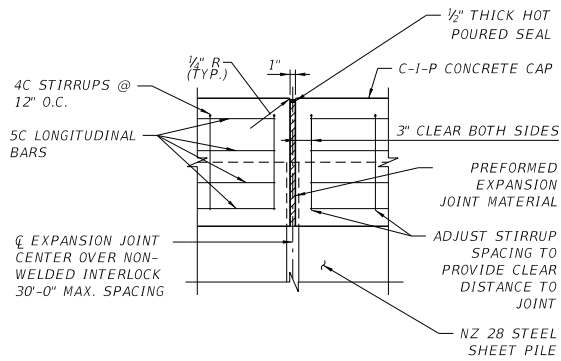
1 SHEET PILE PARTIAL ELEVATION
N.T.S.



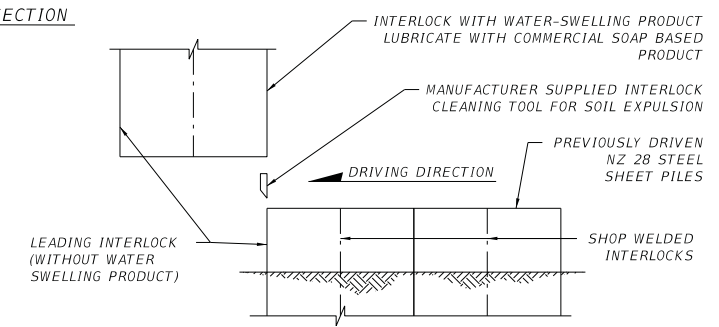
2 SHEET PILE SECTION
N.T.S.



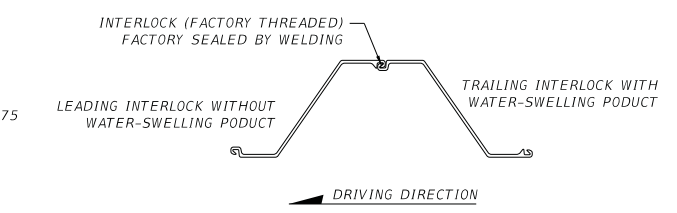
3 INTERLOCK DETAILS
N.T.S.



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



5 BLOCKOUT DETAILS
N.T.S.



6 DRIVING DETAILS
N.T.S.

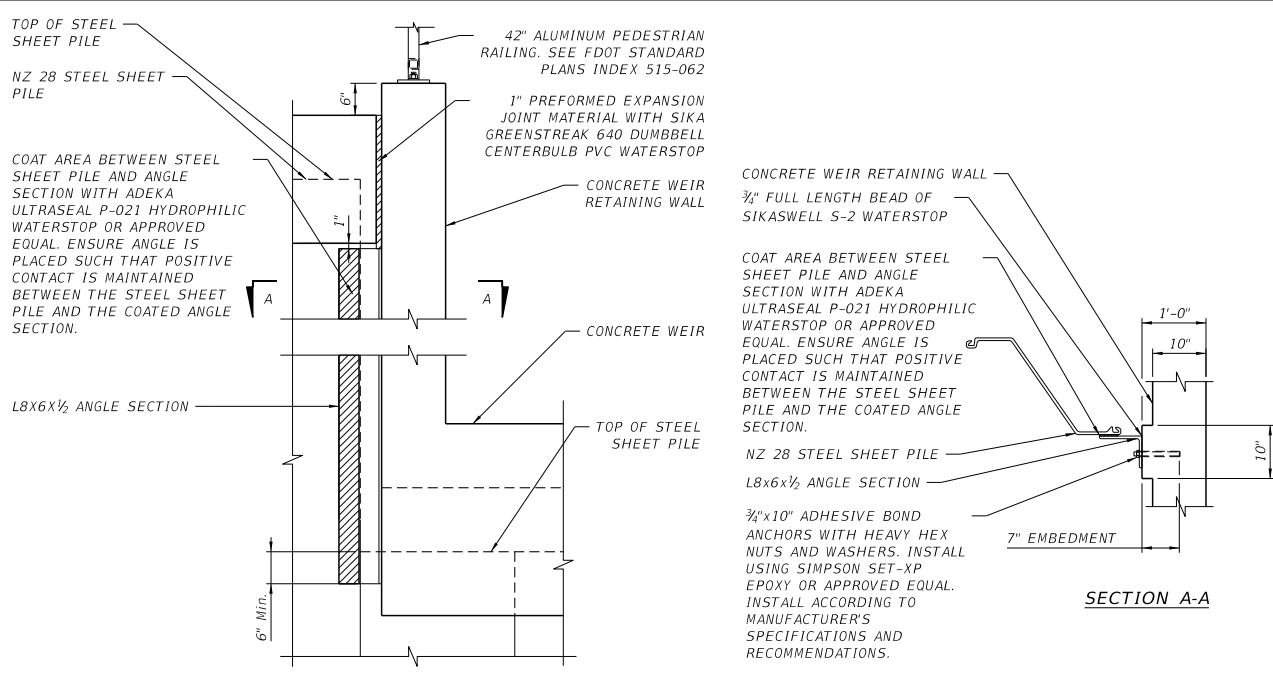
REVISIONS		REVISIONS	
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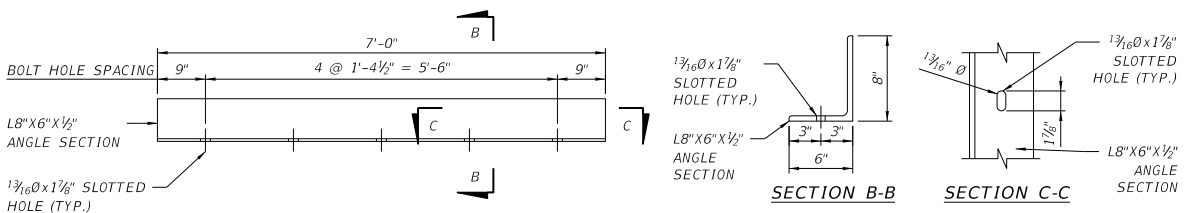
**STEEL SHEET PILE
 DETAILS (1 OF 3)**
 PROJECT NAME:
**CENTERVILLE TRACE POND
 STRUCTURE REPLACEMENT**
 SHEET NO. 31

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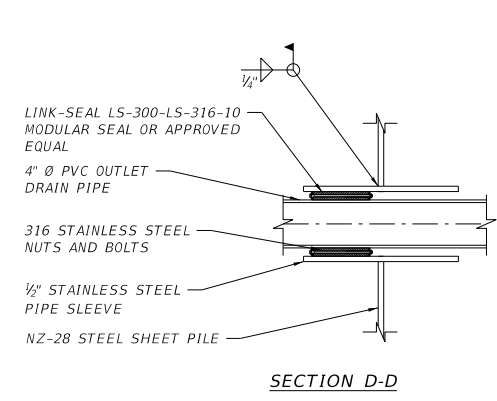
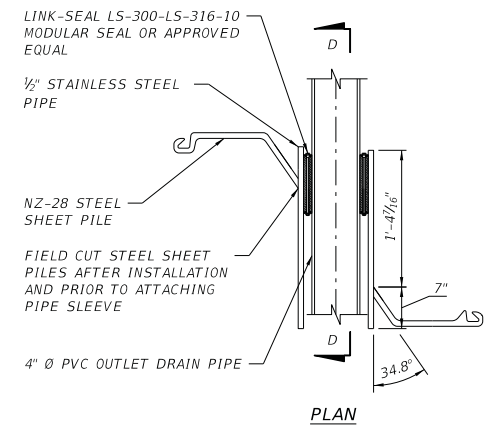


1 WALL JOINT DETAIL
N.T.S. (TYPICAL FOR BOTH SIDES OF WEIR)

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

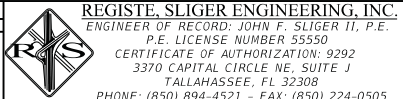



2 ANGLE SECTION DETAIL
N.T.S.

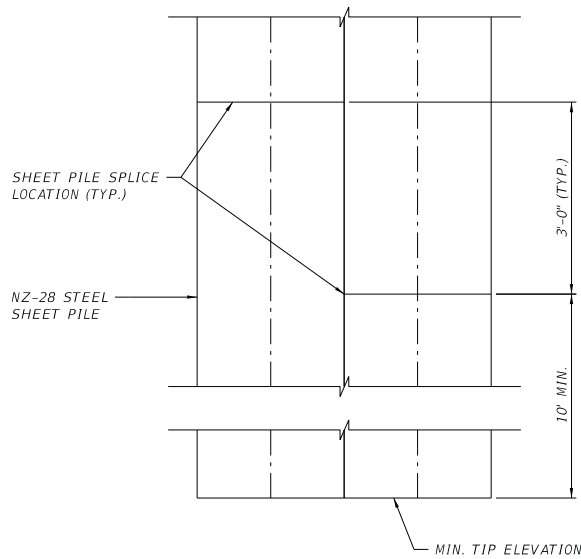


3 DRAIN PIPE PENETRATION DETAIL
N.T.S.

- PIPE PENETRATION NOTES:**
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO LEON COUNTY FOR APPROVAL PRIOR TO CONSTRUCTION SHOWING PIPE PENETRATION DETAILS.
 2. 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.
 3. 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.
 4. MODULAR PIPE SEALS SHALL BE FABRICATED OF A EPDM ELASTOMER FOR GENERAL SERVICE. MANUFACTURER SHALL BE GTP INDUSTRIES OR APPROVED EQUAL.
 5. PIPE SHALL BE 304 STAINLESS STEEL IN ACCORDANCE WITH ASTM A312.

REVISIONS		REVISIONS				STEEL SHEET PILE DETAILS (2 OF 3)		SHEET NO. 32
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

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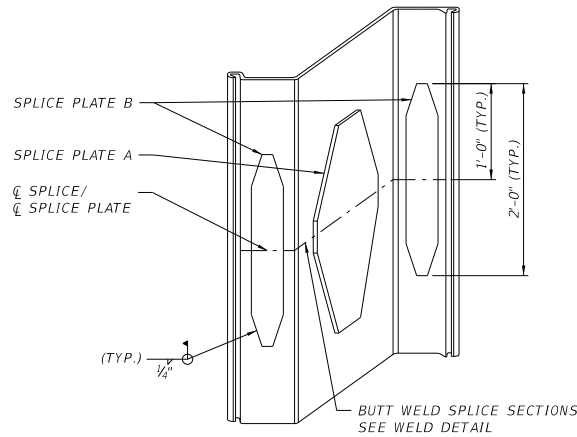
1 SHEET PILE SPLICE LOCATION
N.T.S.

NOTES

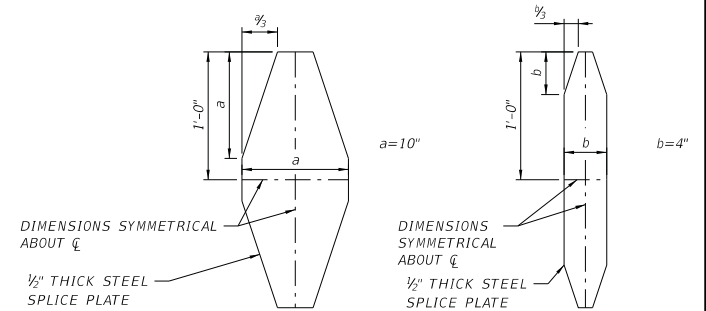
1. ALTERNATE SPLICE LOCATIONS EVERY OTHER SHEET SECTION.
2. SHEET PILE SPLICE TO BE LOCATED 3'-0" ABOVE OR BELOW PREVIOUS SECTION SPLICE LOCATION.

NOTES:

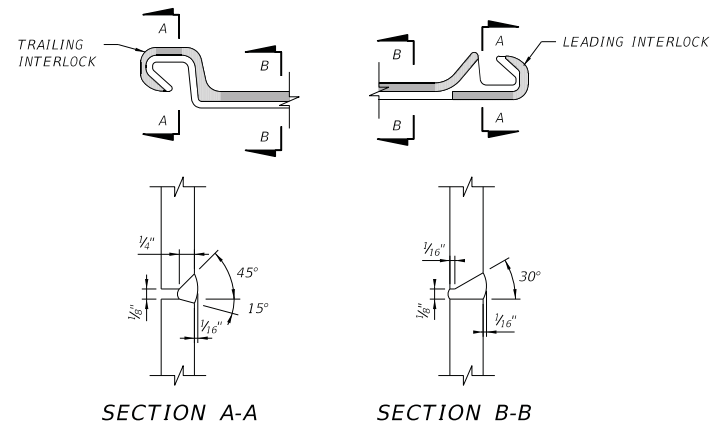
1. ALL WELDING SHALL CONFORM TO AWS (D1.1).
2. SPLICE PLATES SHALL MATCH THE GRADE REQUIREMENTS OF THE STEEL SHEET PILES.
3. INTERLOCKS SHALL BE FREE OF WELD MATERIAL. CONTRACTOR SHALL GRIND THE INTERLOCKS OF SPLICED SHEET SECTIONS IN THE EVENT THAT WELD MATERIAL ENTERS THE INTERLOCK TO THE SATISFACTION 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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LEON COUNTY DEPARTMENT OF PUBLIC WORKS
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STEEL SHEET PILE DETAILS (3 OF 3)	SHEET NO.
PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	33

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.

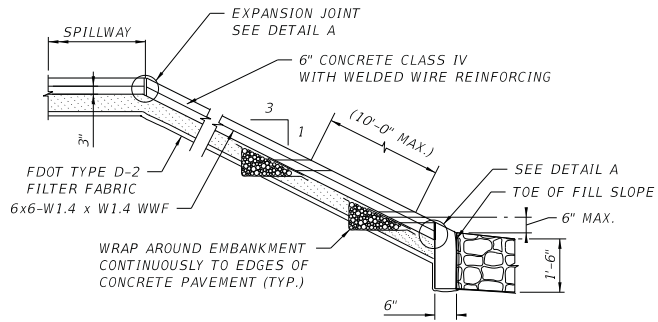
CONCRETE

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.

LOCATION	CONCRETE CLASS	MIN. 28 DAY COMPRESSIVE STRENGTH	MAXIMUM WATER/CEMENT RATIO
EMERGENCY SPILLWAY	IV SUBSTRUCTURE	5,500 PSI	0.41
C-I-P WEIR	IV RETAINING WALLS	5,500 PSI	0.41

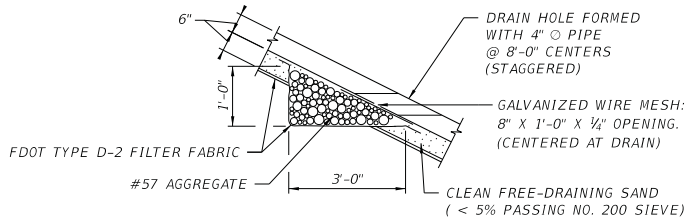
2. CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO THE CENTERLINE OF THE BAR EXCEPT 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 415 & 931.

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	WEIR AND EMERGENCY SPILLWAY NOTES PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	SHEET NO. 34
DATE	DESCRIPTION	DATE	DESCRIPTION				

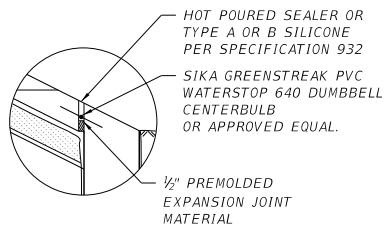


SECTION A-A

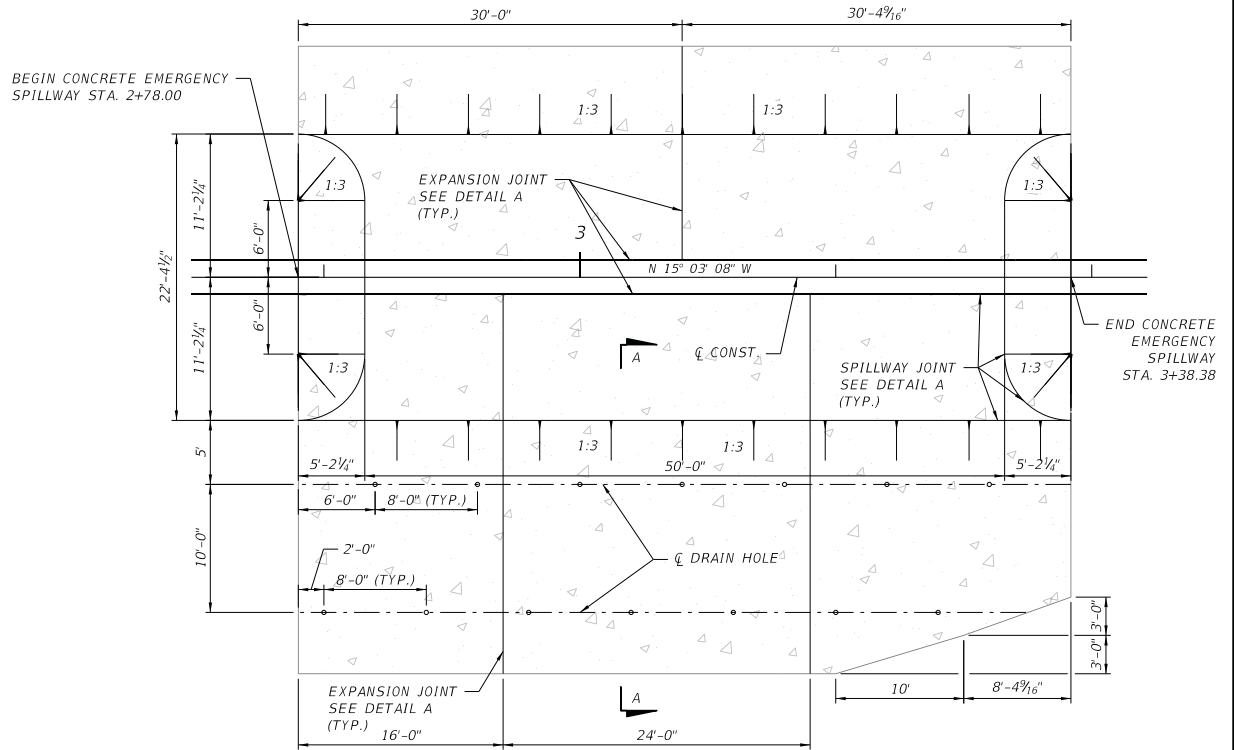
NOTE: VERTICAL JOINTS SHALL BE SEALED.



DRAIN HOLE DETAIL



DETAIL A



PLAN

1 CONCRETE LINED EMERGENCY SPILLWAY DETAIL

NOTE:
 COMPACT FOUNDATION SOILS MINIMUM OF 2'-3" FEET BELOW THE CONCRETE LINED EMERGENCY SPILLWAY TO 95% OF THE SOIL'S MODIFIED PROCTOR DRY DENSITY. LIFTS SHALL NOT EXCEED 9" IN HEIGHT.

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

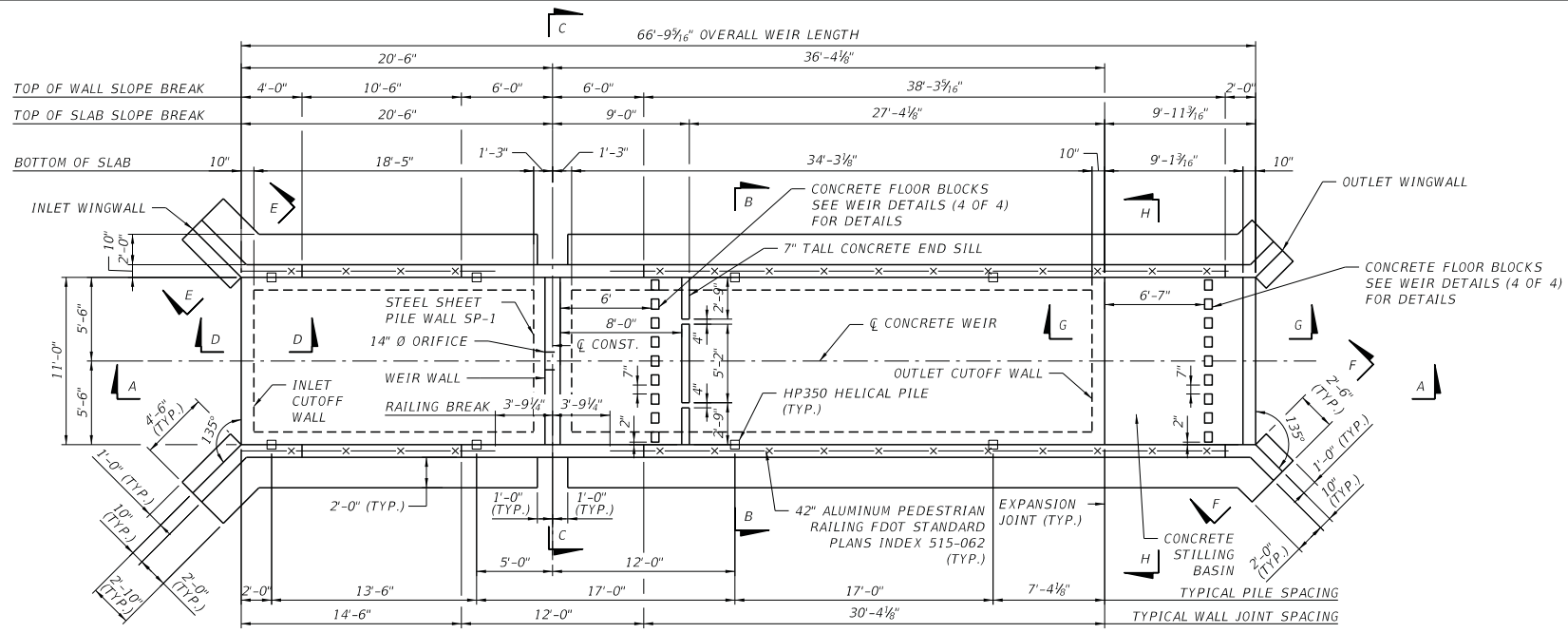
**EMERGENCY SPILLWAY
 DETAILS**

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

SHEET
 NO.

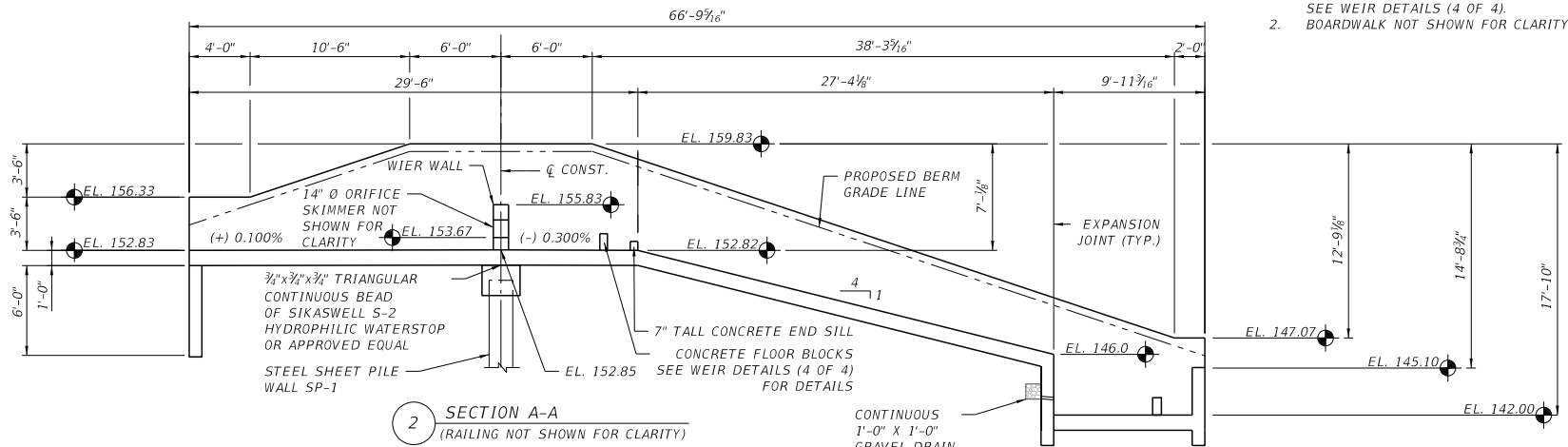
35

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1 PLAN

- NOTES:
- FOR SECTIONS B-B 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



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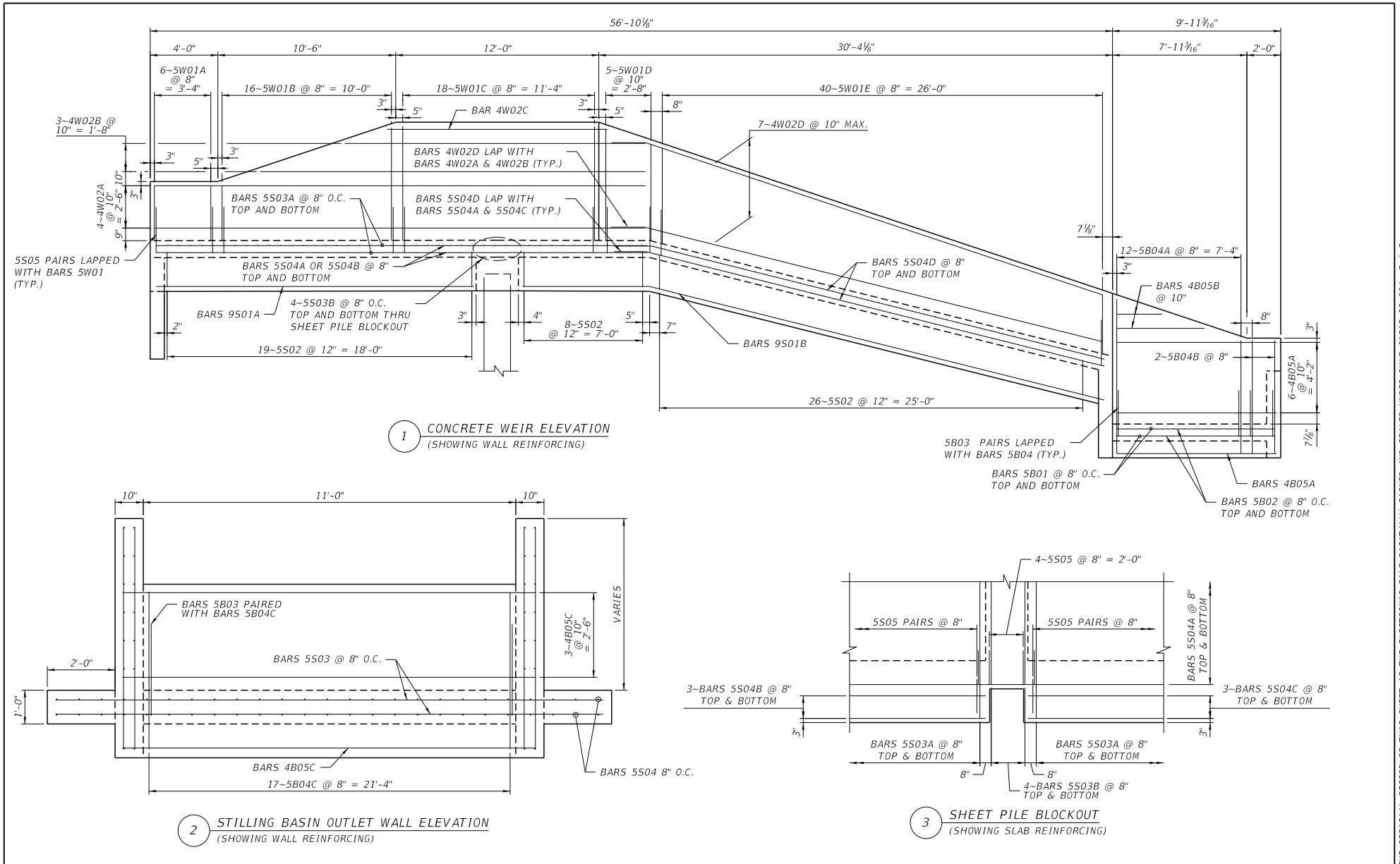


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 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

WEIR DETAILS (1 OF 4)
 PROJECT NAME:
CENTERVILLE TRACE POND STRUCTURE REPLACEMENT

SHEET NO.
36

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REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

REGISTE, SLIGER ENGINEERING, INC.
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 3370 CAPITAL CIRCLE NE, SUITE J
 TALLAHASSEE, FL 32308
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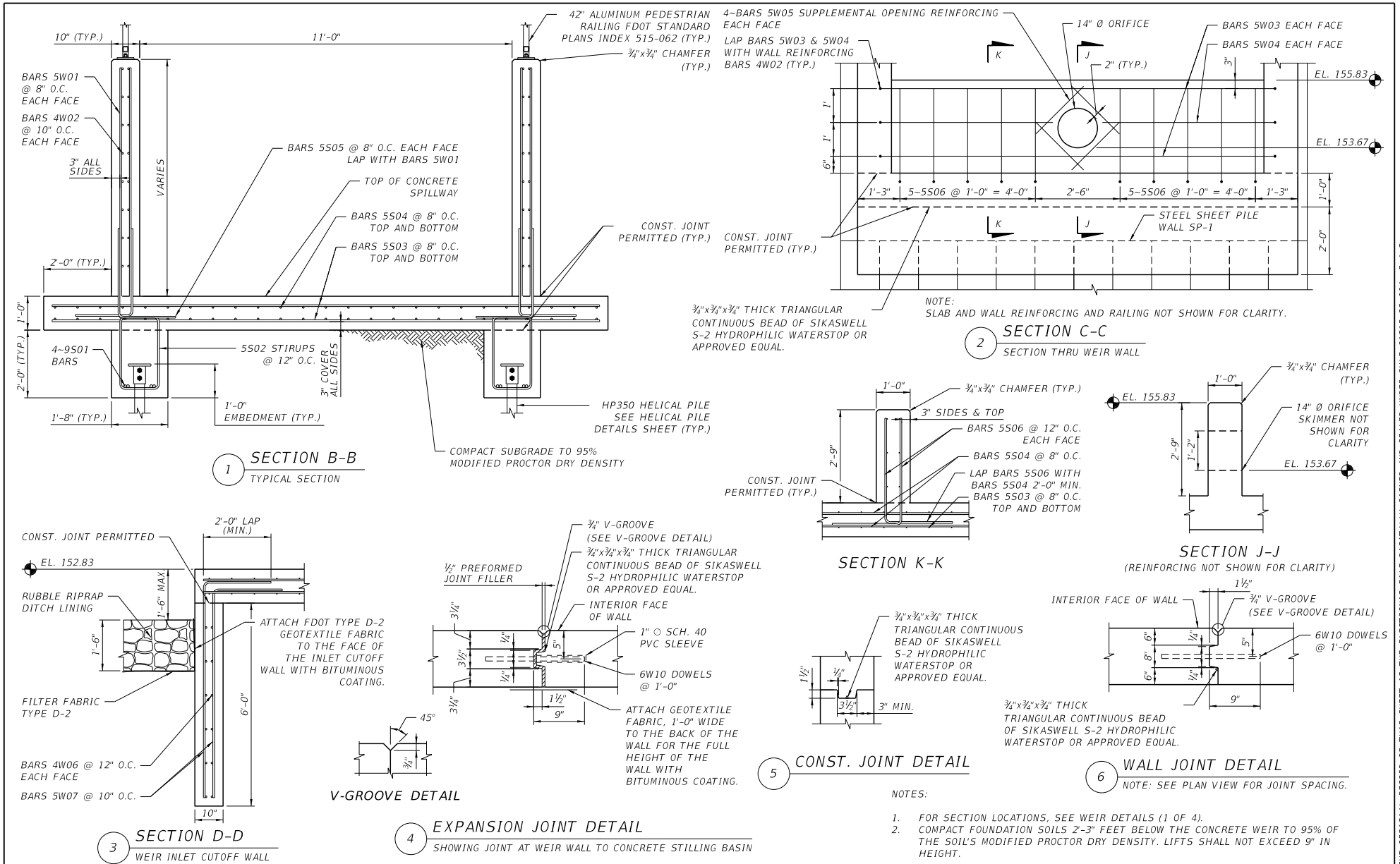
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
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WEIR DETAILS (2 OF 4)

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

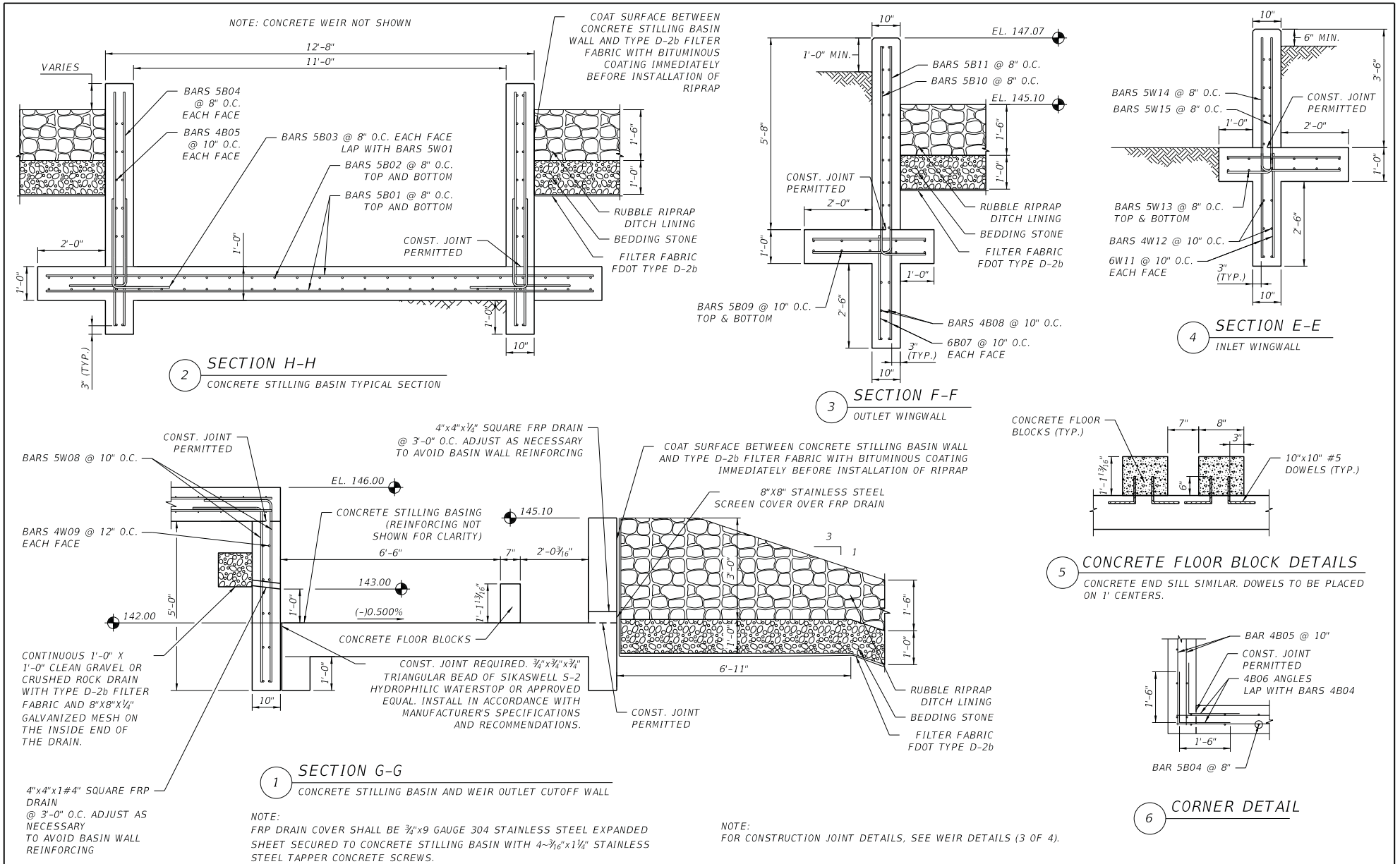
SHEET NO. **37**

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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	WEIR DETAILS (3 OF 4)		SHEET NO. 38
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

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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
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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

WEIR DETAILS (4 OF 4)

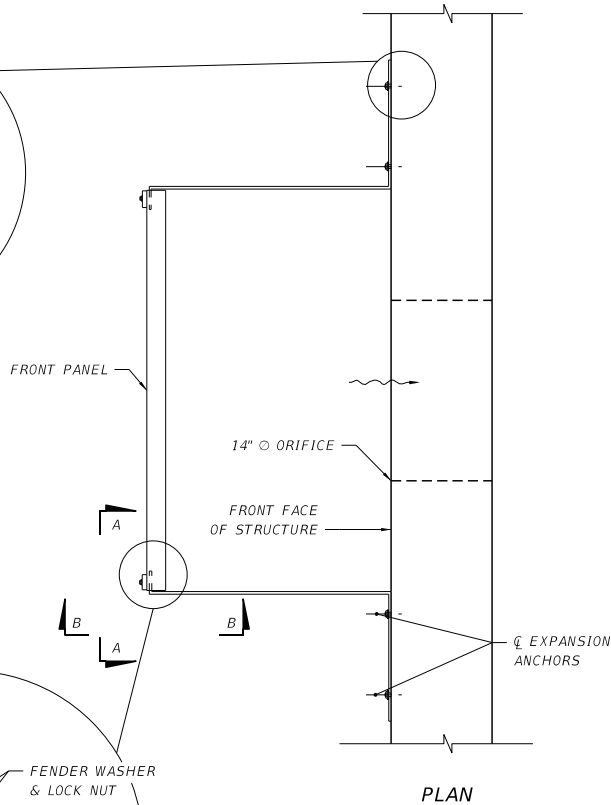
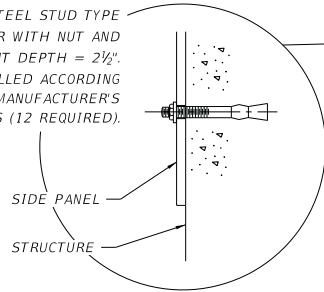
PROJECT NAME:
**CENTERVILLE TRACE POND
STRUCTURE REPLACEMENT**

SHEET
NO.

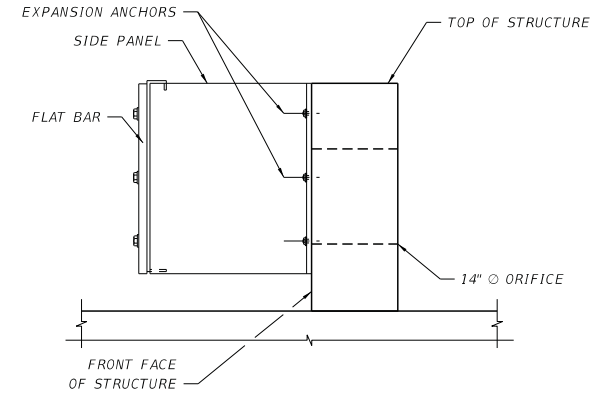
39

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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).

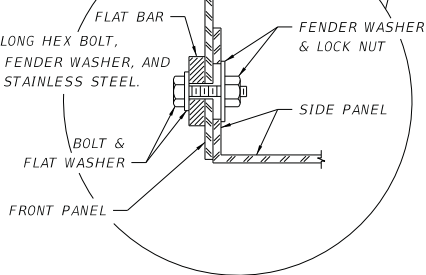


PLAN



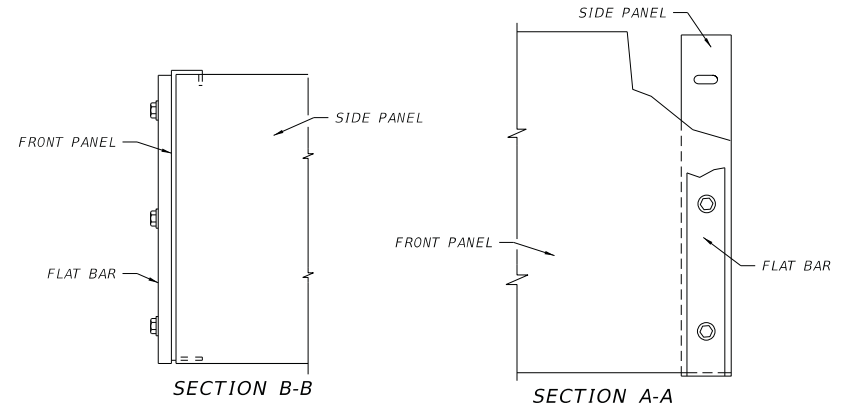
ELEVATION VIEW

3/8" DIA. X 1 1/2" LONG HEX BOLT, FLAT WASHER, FENDER WASHER, AND LOCK NUT, ALL STAINLESS STEEL. (6 REQUIRED)



NOTES:

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.



SECTION B-B

SECTION A-A

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION



REGISTE, SLIGER ENGINEERING, INC.
 ENGINEER OF RECORD: JOHN F. SLIGER II, P.E.
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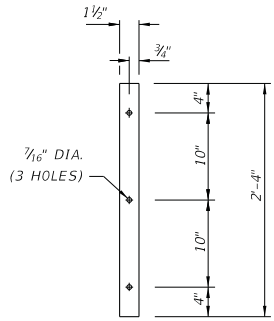
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

SKIMMER DETAILS (1 OF 2)

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

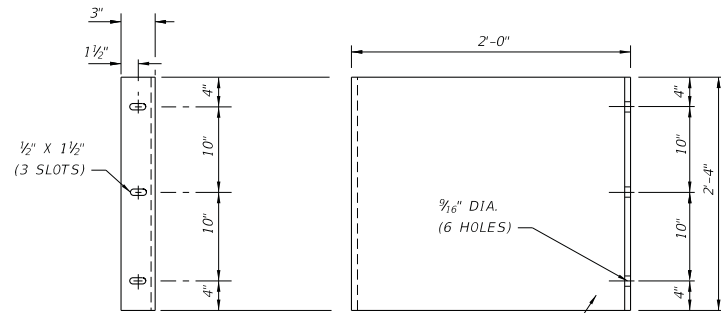
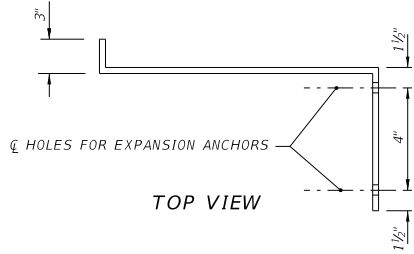
SHEET NO.

40



1/2" THICK X 1 1/2" WIDE

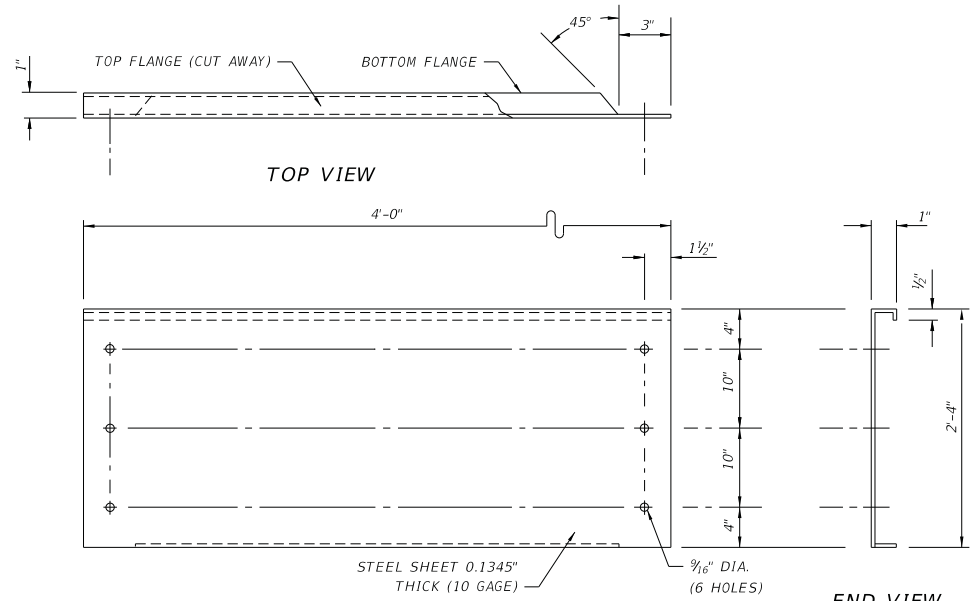
FLAT BAR



END VIEW (FRONT)

SIDE VIEW

SIDE PANEL



FRONT VIEW

END VIEW

FRONT PANEL

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION



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SKIMMER DETAILS (2 OF 2)

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

SHEET NO.

41

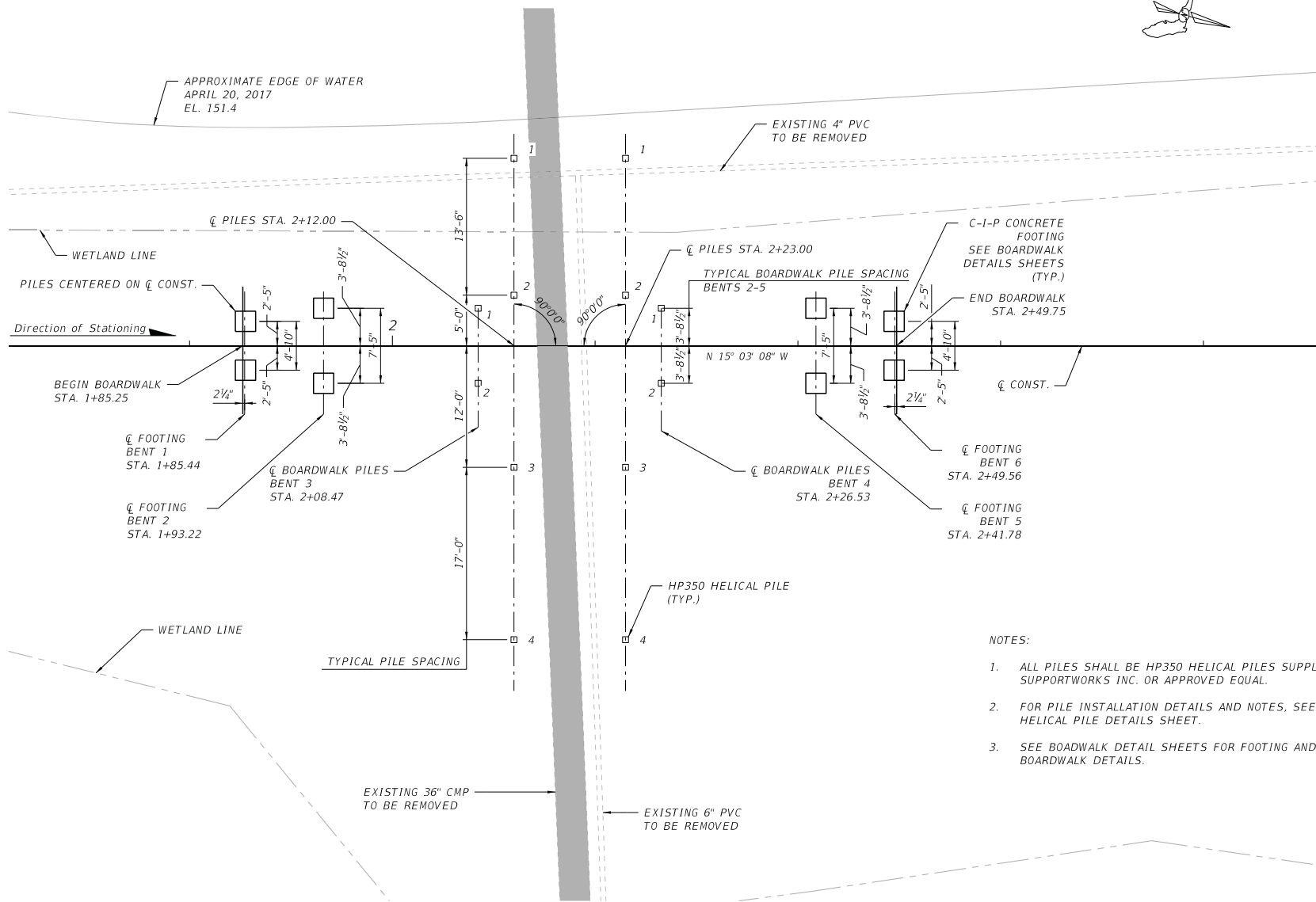
MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	O						
SIZE	DES	FT	IN	BARS	BAR	ANG	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION CAP																				
4	4C	5-0		301	11		2-0			1-6										
5	5C	291-2		10	1		291-1 1/2													
LOCATION WEIR																				
5	B01	9-5		50	1		9-5													
5	B02	16-2		30	1		16-2													
5	B03	4-9		73	10				2-9											
5	B04A	VARY		48	1		9-1													
		7-11		0	1		6-8													
5	B04B	6-8		8	1		6-8													
5	B04C	4-7		34	1		4-7													
4	B05A	9-5		28	1		9-5													
4	B05B	VARY		8	1		5-2													
		3-11		0	1		2-8													
4	B05C	12-2		8	1		12-2													
4	B06	4-0		28	10		2-0		2-0											
6	B07	3-0		16	1		3-0													
4	B08	2-0		48	1		2-0													
5	B09	2-0		20	1		2-0													
5	B010	7-6		8	10		1-4		6-2											
5	B011	8-6		8	10		2-4		6-2											
9	S01A	18-9		8	1		18-9													
9	S01B	35-2		8	12		27-8		7-6											14
5	S02	7-7		106	4	4	2-1 1/4		1-2											
5	S03A	16-2		162	1		16-2													
5	S03B	12-2		8	1		12-2													
5	S04A	29-0		38	1		29-0													
5	S04B	19-0		12	1		19-0													
5	S04C	7-3		12	1		7-3													
5	S04D	29-9		50	12		27-9		2-0											14
5	S05	4-9		332	10		2-0		2-9											
5	S06	5-2		20	10		3-2		2-0											
5	W01A	3-3		24	1		3-3													
5	W01B	VARY		64	1		3-3													
		5-0		0	1		6-8													
5	W01C	6-9		72	1		6-9													
5	W01D	VARY		20	1		6-7													
		6-2		0	1		5-8													
5	W01E	VARY		160	1		5-8													
		4-7		0	1		3-6													
4	W02A	29-0		16	1		29-0													
4	W02B	VARY		12	1		22-9													
		20-3		0	1		17-9													
4	W02C	13-0		4	1		13-0													
4	W02D	VARY		28	12		28-6		2-0											19
		30-3		0	12		27-11		2-0											14
5	W03	15-7		4	11		11-7		2-0		2-0									
5	W04	7-1		4	10		5-1		2-0											
5	W05	2-0		8	1		2-0													
4	W06	12-2		12	1		12-2													
5	W07	8-0		32	10		6-0		2-0											
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6	W10	1-6		80	1		1-6													
6	W11	3-0		24	1		3-0													
4	W12	4-0		28	1		4-0													
5	W13	4-0		20	1		4-0													
5	W14	6-4		14	10		2-4		4-0											
5	W15	5-4		14	10		1-4		4-0											
LOCATION BOARDWALK FOUNDATIONS																				
4	P1	6-9		4	4	4	1-6		1-6											
5	P2	1-6		8	1		1-6		1-6											

END OF LIST

NOTE:
WORK THIS SHEET WITH FDOT STANDARD
PLANS INDEX 415-001.

REVISIONS DATE DESCRIPTION		REVISIONS 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	REINFORCING BAR LIST PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT	SHEET NO. 42

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



- NOTES:
1. ALL PILES SHALL BE HP350 HELICAL PILES SUPPLIED BY 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 BOADWALK DETAILS.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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 P.E. LICENSE NUMBER 55550
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 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
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FOUNDATION LAYOUT

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

SHEET NO. 43

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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 ($\frac{ft}{in}$)	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	*	143.0	12	3,457	17.0	6	2.0	7.0	17,500
2+26.53	1-2	HP350	*	143.0	12	3,457	17.0	6	2.0	7.0	17,500

*SEE BOARDWALK PILES, NOTE 1 ON BOARDWALK STRUCTURAL NOTES SHEET.

PILE INSTALLATION NOTES:

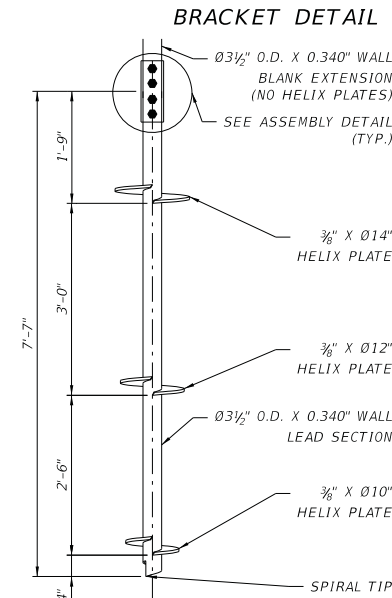
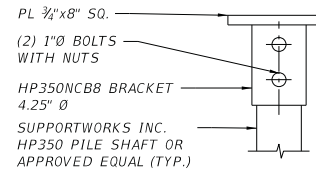
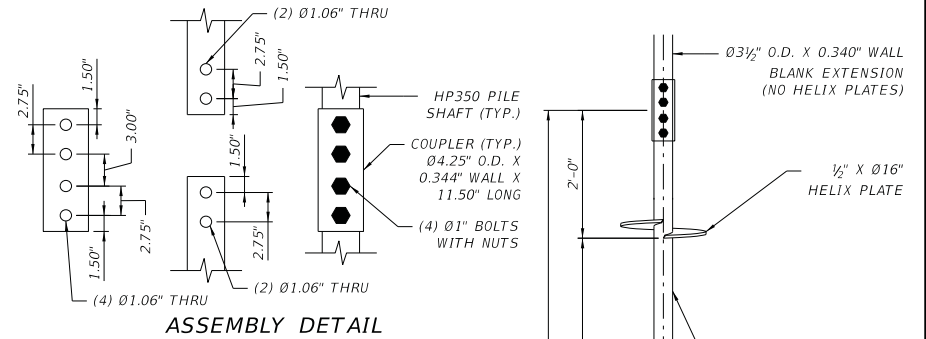
- HELICAL PILES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- THE REQUIRED ULTIMATE TORQUE-CORRELATED CAPACITY SHALL BE VERIFIED AT EACH PILE LOCATION, MONITORING AND RECORDING THE FINAL INSTALLATION TORQUE AND APPLYING DEFAULT TORQUE CORRELATIONS PER ICC-EC AC308.
- THE HELICAL 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 MAXIMUM INSTALLATION 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
 INSTALLED HELICAL PILE MODEL AND CONFIGURATION
 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:

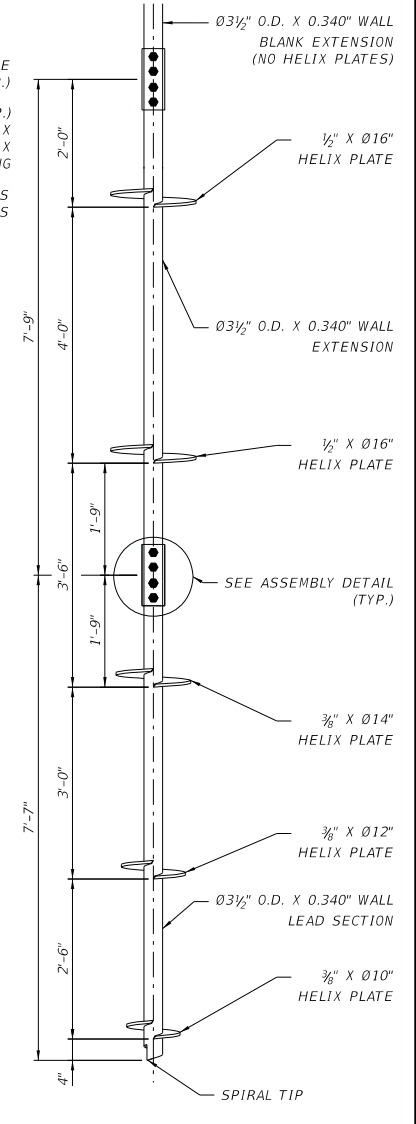
- HELICAL PILES SHALL BE OBTAINED FROM SUPPORTWORKS, INC. OR APPROVED EQUAL.
- MINIMUM MATERIAL REQUIREMENTS:
 SHAFTS-FY = 65 KSI, FU = 75 KSI
 COUPLERS-FY = 70 KSI, FU = 80 KSI
 HELIX PLATES-ASTM A572 GR. 50
 SHAFT COUPLING HARDWARE - (4) - \emptyset 1" GRADE 5 BOLTS WITH NUTS
 BRACKET WELDMENT - ASTM A36
 EXTERNAL SLEEVE - FY = 50 KSI, FU = 62 KSI
 CAP PLATE - ASTM A572 GRADE 50
 BRACKET HARDWARE - (2) - 1" \emptyset SAE J429 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.

MANUFACTURER INFORMATION:

SUPPORTWORKS, INC.
 11850 VALLEY RIDGE DRIVE
 PAPPILLION, NE 68046
 (800) 281-8545



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.
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LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MCCOSKUEE ROAD, TALLAHASSEE, FLORIDA 32308
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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.

STRUCTURAL NOTES

- 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^{ULT} = 107 MPH
NOMINAL DESIGN WIND SPEED -----V^{ASD} = 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 ON THIS SHEET.
- 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 NAPHTHAMATE 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 LUMBER 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, BUT NOT FOR CARRIAGE BOLTS.

BOARDWALK PILES:

- HELICAL PILE BEAM BRACKETS (4 REQUIRED) MAY REQUIRE SPECIAL FABRICATION. SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA SHALL BE SUBMITTED TO LEON COUNTY PRIOR TO FABRICATION OR INSTALLATION. ALL COSTS FOR PILE BRACKETS SHALL BE INCLUDED IN THE UNIT COST OF THE HELICAL PILES. NO ADDITIONAL CONTRACT TIME SHALL BE GRANTED TO OBTAIN THE REQUIRED BRACKETS.

BOARDWALK FOOTERS:

- CONSTRUCT REINFORCED CONCRETE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 346.
- CONCRETE SHALL BE CLASS II, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,400 PSI,
- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS, UNLESS OTHERWISE NOTED.
- PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING STEEL SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE WITH APPROPRIATE BAR SUPPORTS AND SPACERS. FOR BAR BENDING DETAILS, SEE REINFORCING BAR LIST, SHEET 42.
PROVIDE COVER OVER REINFORCING AS FOLLOWS:

ELEMENT:	BOTTOM	TOP	SIDES
BOARDWALK FOOTERS	3"	3"	3"


SOILS AND COMPACTION

- SOILS BELOW BOARDWALK FOOTERS SHALL BE COMPACTED TO A DEPTH OF 27" AT OPTIMUM MOISTURE CONTENT TO 95% MODIFIED PROCTOR, PER ASTM D-1557 (9 INCH MAX LIFTS).
- AT LEAST 1 IN-PLACE DENSITY TEST SHALL BE PERFORMED FOR EVERY FOOTER PRIOR TO PLACING ANY STEEL IN THE EXCAVATIONS. AFTER THE FOOTER HAS BEEN PLACED, ADEQUATELY CURED, AND FORMS ARE REMOVED, BACKFILL SHOULD BE PLACED AROUND THE FOOTERS IN LOOSE LIFTS NOT EXCEEDING 9 INCHES AND COMPACTED TO MEET THE TESTING CRITERIA AS DESCRIBED ABOVE.

SCHEDULE OF REQUIRED STRESS VALUES VISUALLY GRADED, NO. 1 MATERIAL (@100% STRESS RATING)						
WOOD FRAMING SIZE	REQUIRED VALUES, IN PSI					
	Fb	Ft	Fv	Fc ₁	Fc ₂	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 TRUS JOIST PARALLAM PLUS PSL WOLVMANIZED (@100% STRESS RATING)						
WOOD FRAMING SIZE	REQUIRED VALUES, IN PSI					
	Fb	Ft	Fv	Fc ₁	Fc ₂	E
SERVICE LEVEL 2						
5 1/2" x 11 1/2"	1827	1397	197	338	1508	1,460,000

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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
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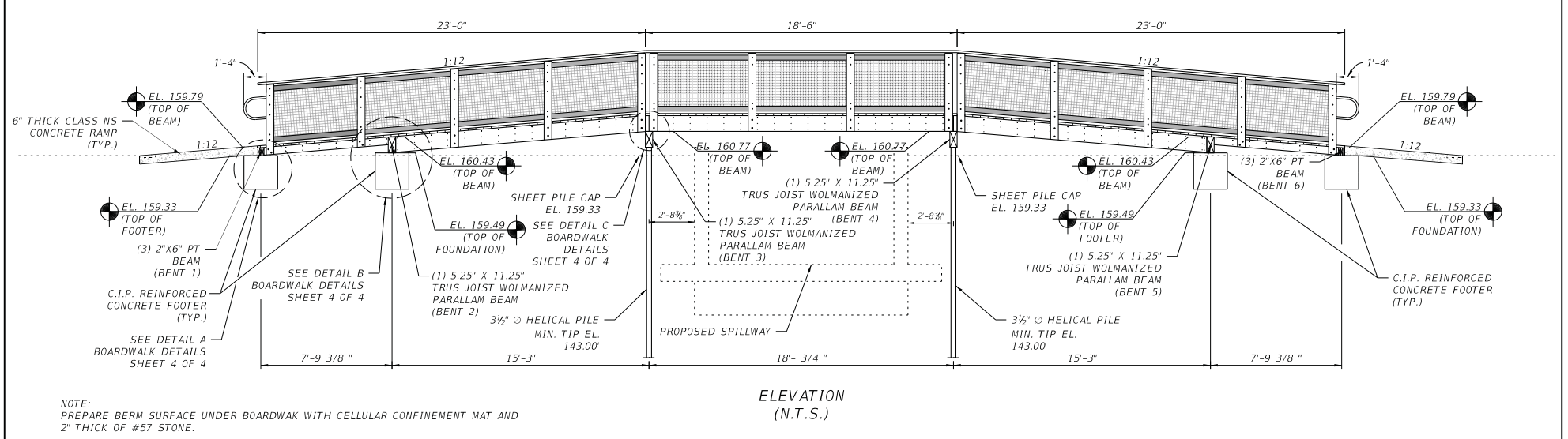
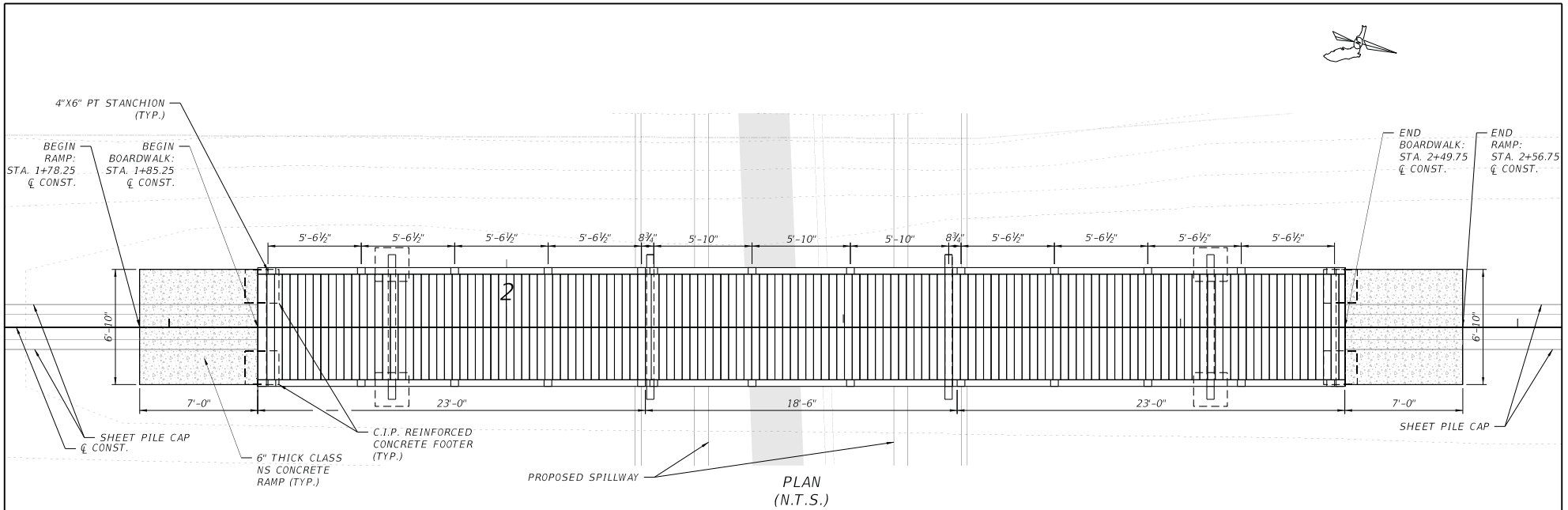
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**BOARDWALK
STRUCTURAL NOTES**

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

SHEET NO.	45
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NOTE:
 PREPARE BERM SURFACE UNDER BOARDWALK WITH CELLULAR CONFINEMENT MAT AND 2" THICK OF #57 STONE.

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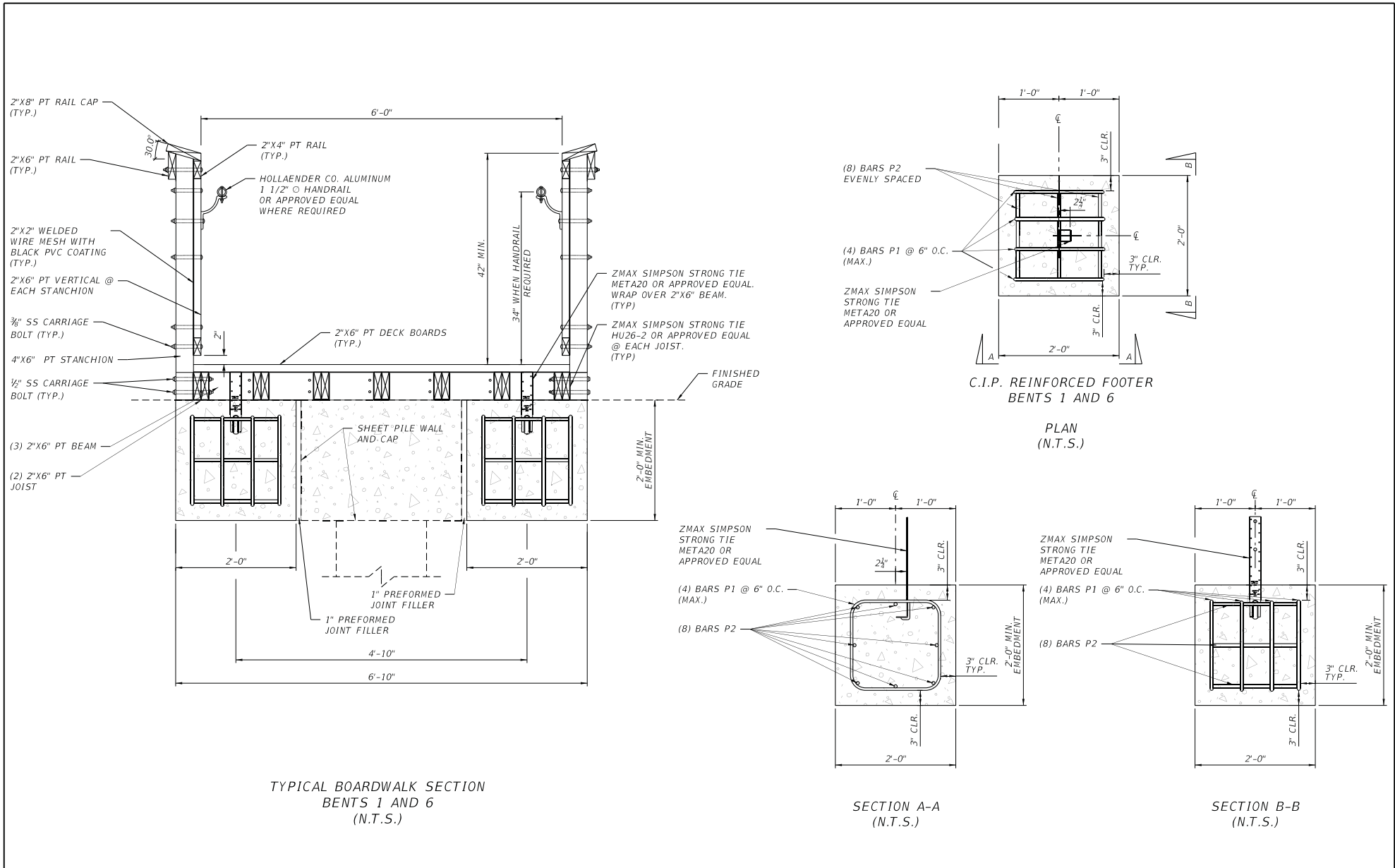
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**BOARDWALK
 PLAN AND ELEVATION**

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

SHEET NO. 46

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

C.I.P. REINFORCED FOOTER
BENTS 1 AND 6

PLAN
(N.T.S.)

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

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

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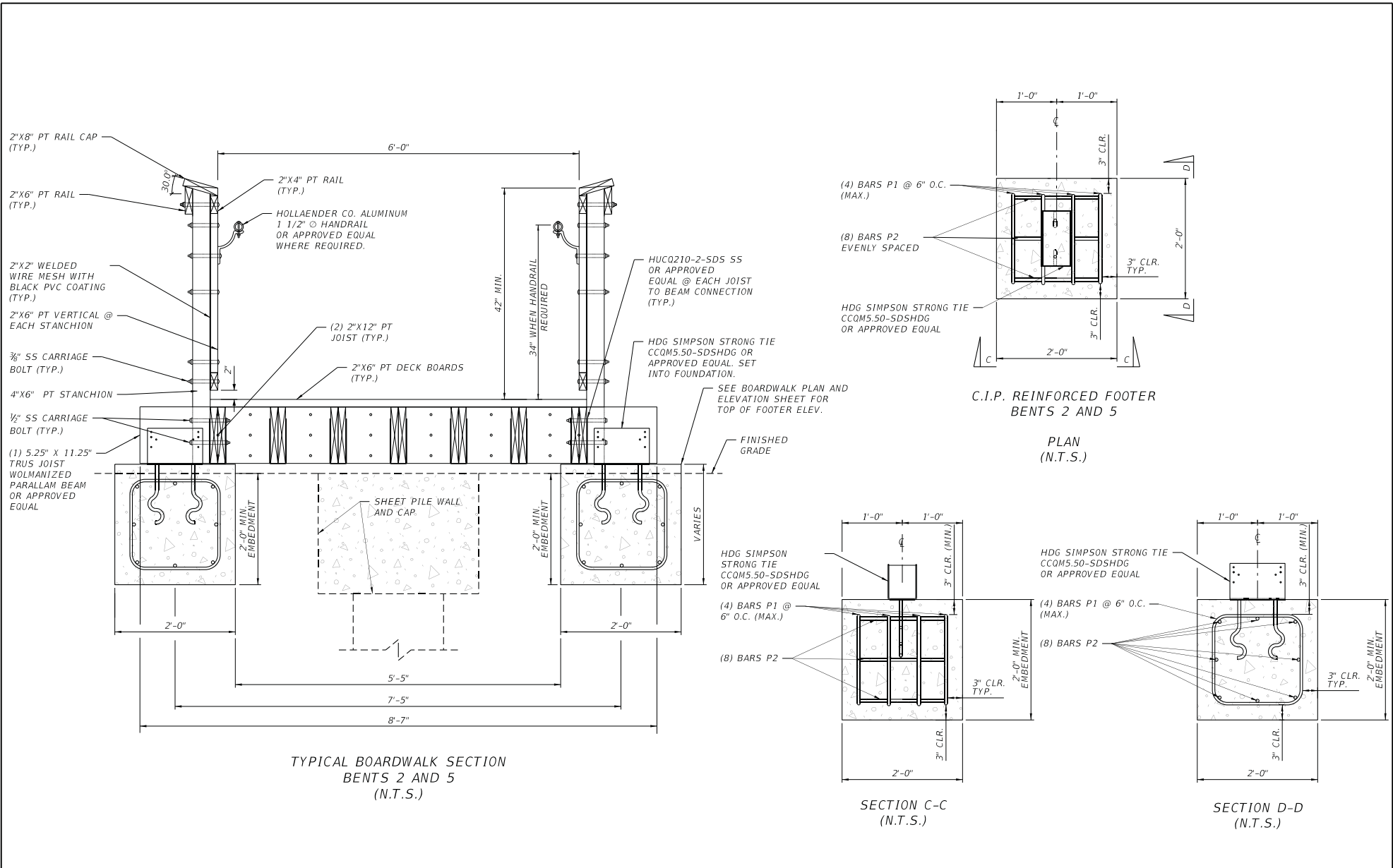
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**BOARDWALK
DETAILS (1 OF 4)**

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

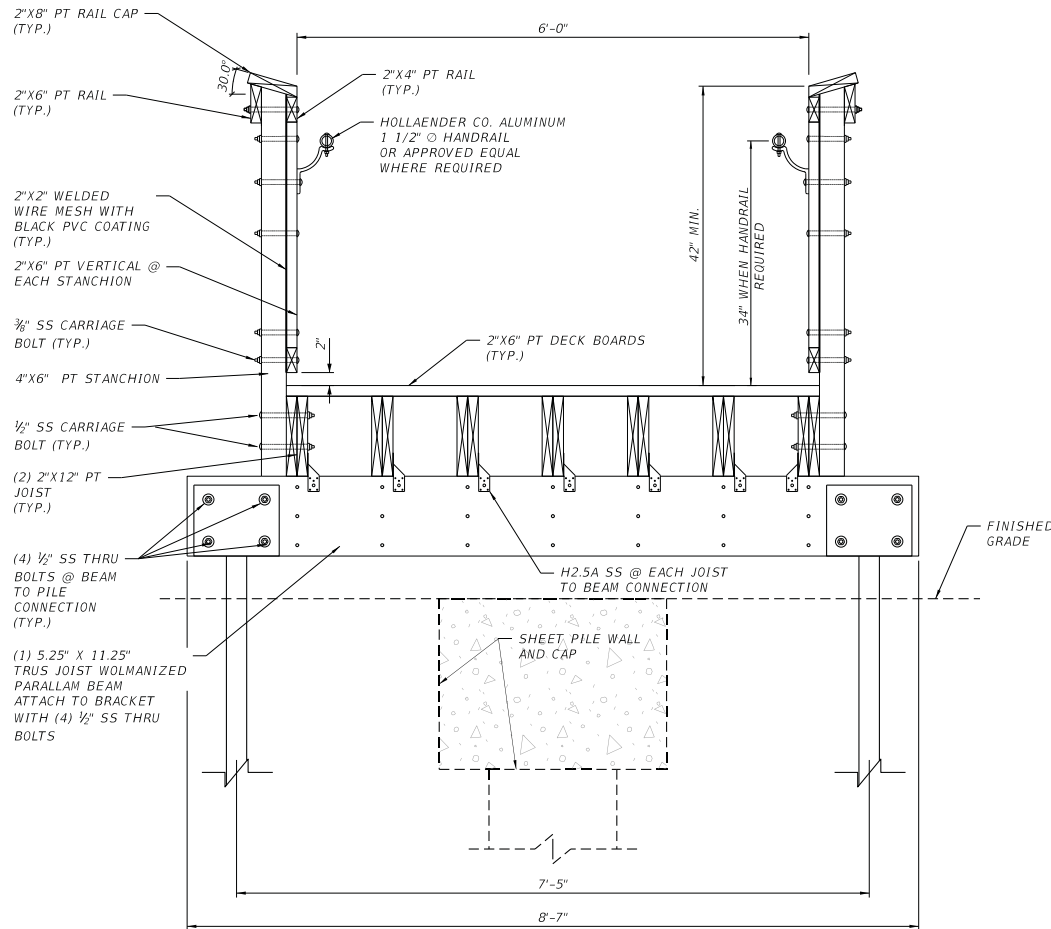
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47

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DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		

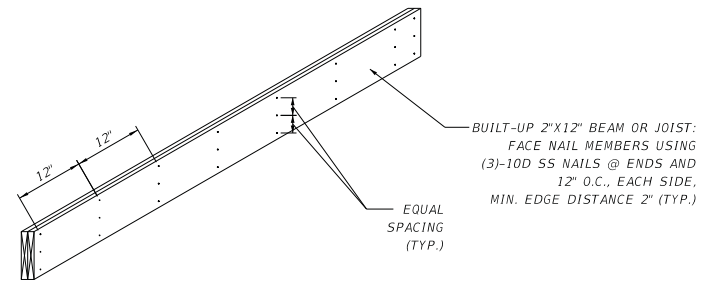
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TYPICAL BOARDWALK SECTION
BENTS 3 AND 4
(N.T.S.)

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.

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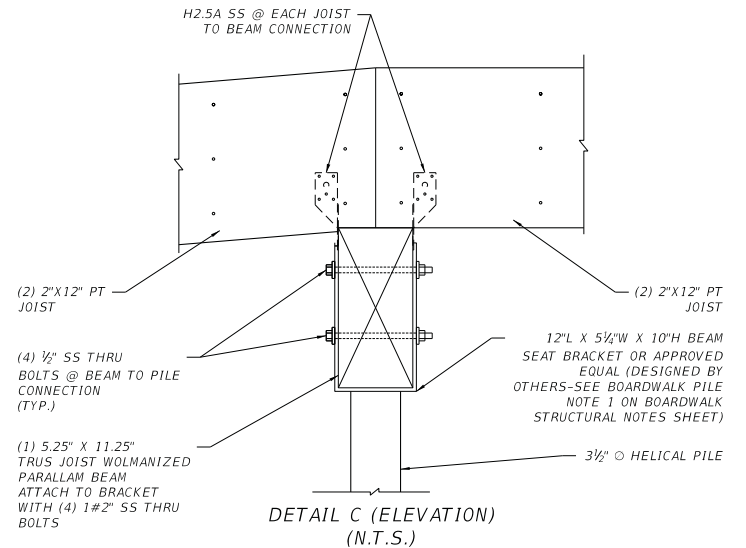
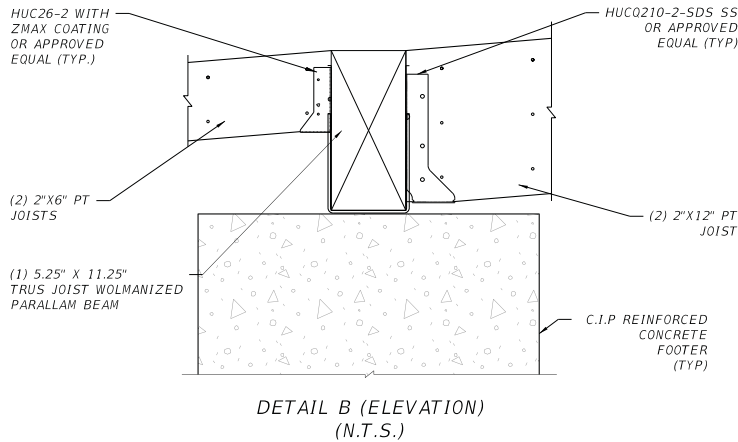
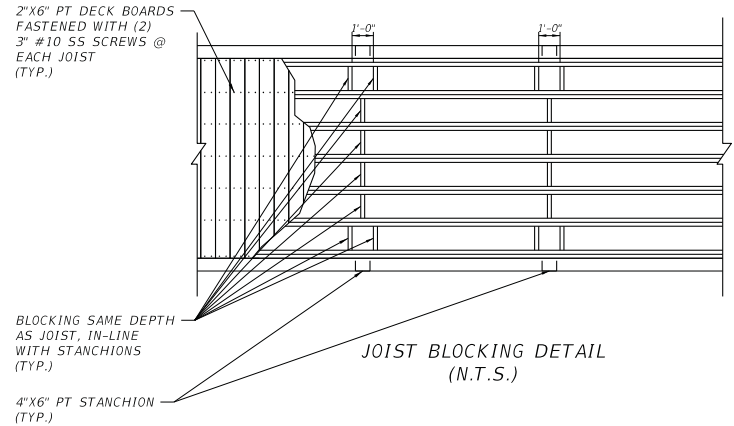
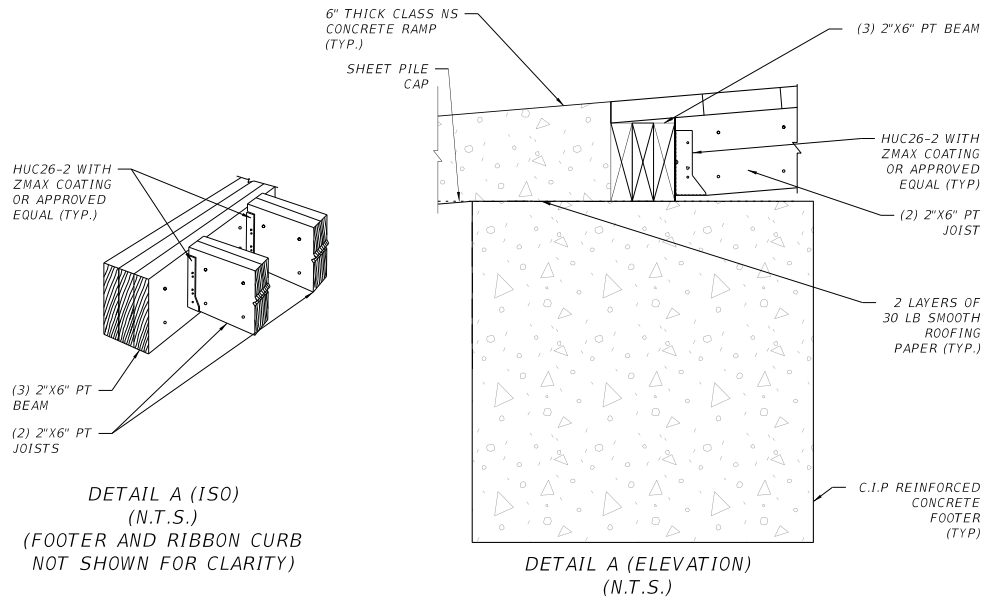
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BOARDWALK DETAILS (3 OF 4)		SHEET NO.
PROJECT NAME: CENTERVILLE TRACE POND STRUCTURE REPLACEMENT		49

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**BOARDWALK
 DETAILS (4 OF 4)**
 PROJECT NAME:
**CENTERVILLE TRACE POND
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SHEET NO.	50
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