

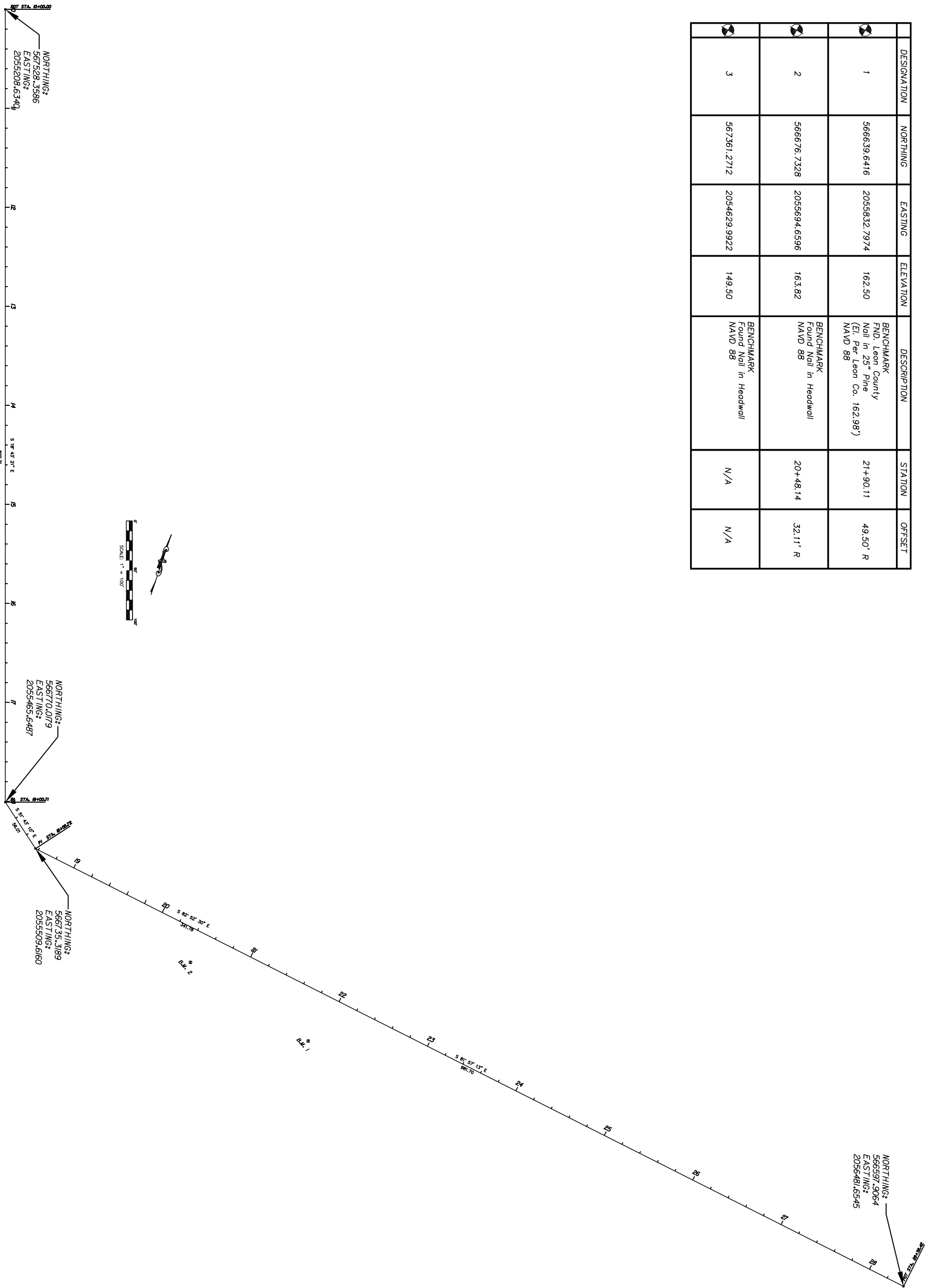



ITEM NUMBER	SUMMARY OF ROADWAY PAY ITEMS	ITEM	PRIMARY UNIT	PRIMARY QUANTITY	QUANTITY TOTAL
0101 1	MOBILIZATION		LS	1	1
0102 1	MAINTENANCE OF TRAFFIC		LS	1	1
0104 10 3	SEDIMENT BARRIER		LF	4137	4137
0104 12	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC		LF	302	302
0104 15	SOIL TRACKING PREVENTION DEVICE		EA	1	1
0110 1 1	CLEARING & GRUBBING		LS	1	1
0110 3	REMOVAL OF EXISTING STRUCTURE		LS	1	1
0120 2 2	BORROW EXCAVATION, TRUCK MEASURE (CLEAN SAND)		CY	177	177
0120 2 3	BORROW EXCAVATION, TRUCK MEASURE (PLASTIC SOIL)		CY	31	31
0337 7 30	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-9.5, RUBBER		TN	62.0	62.0
0400 4 11	CONC CLASS IV, RETAINING WALLS		CY	36.7	36.7
0415 1 3	REINFORCING STEEL- RETAINING WALL		LB	4862	4862
0400 91	DEWATERING FOR SPREAD FOOTINGS		EA	1	1
0425 5	MANHOLE, ADJUST		EA	1	1
0430175148	PIPE CULVERT, OPT MATERIAL, ROUND, 48" S/CD		LF	64	64
0430830	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE		CY	42	42
0455 133 3	SHEET PILING STEEL, F&I PERMANENT		SF	8592	8592
0550 10220	FENCING, TYPE B, 5.1-6.0, STANDARD		LF	210	210
0550 60224	FENCE GATE, TYPE B, DOUBLE, 18.1-20.0' OPENING		EA	2	2
0570 1 2	PERFORMANCE TURF, SOD		SY	5117	5117
LC 001	AS-BUILT SURVEY		LS	1	1

REVISIONS		ENGINEER OF RECORD:		 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 PROJECT NUMBER: 1004	 LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501	SUMMARY OF PAY ITEMS PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL	SHEET NO. 2
DATE	BY	DESCRIPTION	DRAWN BY: B.A.W. CHECKED BY: C.M.C. DESIGN BY: D.M. CHECKED BY: J.R. DATE: 5/2/02				

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
1	566639.6416	2055832.7974	162.50	BENCHMARK FND. Leon County Nail in 25" Pine (El. Per Leon Co. 162.98') NAVD 88	21+90.11	49.50' R
2	566676.7328	2055694.6596	163.82	BENCHMARK Found Nail in Headwall NAVD 88	20+48.14	32.11' R
3	567361.2712	2054629.9922	149.50	BENCHMARK Found Nail in Headwall NAVD 88	N/A	N/A



DATE	BY	DESCRIPTION	INITIAL	ENGINEER OF RECORD:
				JOHN F. SLIGER II, P.E. P.E. #55550


REGISTE, SLIGER ENGINEERING, INC.
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PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL	SHEET NO. 4
--	------------------------------

DATE	BY	DESCRIPTION

REVISIONS	INITIAL

ENGINEER OF RECORD:

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EXISTING CONDITIONS

PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL

SHEET NO. 5



STRUCTURAL GENERAL NOTES:

1. CONSTRUCTION SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", (2013 EDITION) AND SUPPLEMENTS THERETO.
2. DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (7TH EDITION - 2002) AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
3. GUIDELINES: FLORIDA DEPARTMENT OF TRANSPORTATION "STRUCTURES DESIGN GUIDELINES" CURRENT EDITION, INCLUDING ALL SUBSEQUENT REVISIONS.
4. DESIGN LOADING:

UNIT WEIGHT OF REINFORCED CONCRETE:	150	LB/FT ³
UNIT WEIGHT OF STRUCTURAL STEEL:	490	LB/FT ²
UNIT WEIGHT OF BACKFILL SOIL:	120	LB/FT ³
UNIT WEIGHT OF WATER:	62.4	LB/FT ³
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL WORK UNDER IMPROVEMENT, AT HIS COST, UNTIL SUCH TIME AS THE ENGINEER ISSUES A CERTIFICATE OF COMPLETION.
6. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND LEON COUNTY.
7. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
8. 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 OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.
10. IF ANY CULTURAL OR HISTORIC ARTIFACTS, OR SUSPECTED HUMAN REMAINS ARE DISCOVERED, CONSTRUCTION IN THAT AREA SHALL CEASE IMMEDIATELY AND THE PROJECT MANAGER NOTIFIED.
11. THE STRUCTURE AND IT'S COMPONENTS ARE DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING OR SUPPORT.
12. 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.
13. 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.
14. THE GENERAL 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 STRUCTURAL ENGINEER OF RECORD.
15. 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.
16. 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.
17. CONTRACTOR TO MAINTAIN ENTRANCE ROAD THROUGHOUT CONSTRUCTION. ROAD SHALL BE REHABILITATED TO THE SAME CONDITION AS BEFORE CONSTRUCTION.
18. FDOT STANDARD INDEX REFERENCES SHEETS ARE AVAILABLE IN PDF FORMAT AT [HTTP://WWW.DOT.STATE.FL.US/](http://www.dot.state.fl.us/)

DATE	BY	DESCRIPTION	DRAWN BY	INITIAL	ENGINEER OF RECORD:
			B.A.W.		JOHN F. SLIGER II, P.E. P.E. #55550
			C.M.C.		
			D.M.		
			J.R.		
				5/2/2012	

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 PHONE: (850) 894-4521 - FAX: (850) 224-0505
 PROJECT NUMBER: 1004

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
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STRUCTURAL NOTES	SHEET NO.
PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL	8

SHEET PILE NOTES:

SHOP DRAWING REQUIREMENTS:

ALL STEEL PILING SHALL HAVE SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE SHOP DRAWINGS SHALL HAVE ALL DETAILS AND DIMENSIONS NECESSARY TO CONSTRUCT THE WALLS. THE DETAILS SHOULD INCLUDE, SHAPES, MATERIAL PROPERTIES, MINIMUM PILE EMBEDMENT DEPTHS, AND STRUCTURAL DETAILS AT CONNECTIONS.

GEOTECHNICAL INVESTIGATION:

THE EMBANKMENT SEEPAGE INVESTIGATION WAS PERFORMED BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. SEE REPORT OF CORE BORINGS SHEETS FOR BORING LOCATIONS AND SOIL PROFILES.

ENVIRONMENTAL CLASSIFICATION:

THE ENVIRONMENTAL CLASSIFICATION FOR THE STRUCTURE HAS BEEN DETERMINED AS EXTREMELY AGGRESSIVE.

WATER-SWELLING PRODUCT (ROXAN SYSTEM):

THE APPLICATION OF THE WATER-SWELLING PRODUCT SHALL BE MADE AT THE FACTORY AND MUST BE CARRIED OUT TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. THE FOLLOWING SHALL BE USED AS A GUIDE IN ADDITION TO MANUFACTURER'S REQUIREMENTS.

1. THE INTERLOCK MUST BE DRY BEFORE APPLICATION.
2. LAYOUT PILING IN 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. USE A PROFILARBED PATENTED TEMPLATE TO EXTRUDE AND SPREAD THE PRODUCT PROPERLY IN THE INTERLOCK. SPREADING OF PRODUCT USING THE SPECIAL TEMPLATE IS ESSENTIAL TO ENSURE THE SEALING OF THE INTERLOCK.
5. FILL IN THE INTERLOCK TAKING INTO ACCOUNT THE DIRECTION OF THE DRIVING.
6. THE PILES SHALL BE SUPPLIED AND FITTED TOGETHER IN DOUBLE UNITS. THEREFORE, THE INTERMEDIATE INTERLOCK SHALL BE SHOP WELDED AND ONE FREE INTERLOCK SHALL BE FILLED WITH WATER-SWELLING PRODUCT.

WELDING INTERLOCKS OF SHEET PILE:

1. ALL WELDS SHALL CONFORM TO ANSII/AWS D1.9-96 UTILIZING E70XX ELECTRODES. WELDS SHALL BE A MINIMUM OF 1/4" THICK. PILES SHALL BE SUPPLIED TO THE SITE IN DOUBLE UNITS, CENTER INTERLOCKS (THREADED AT THE FACTORY) SHALL BE PROVIDED WITH SEALING WELDING CARRIER OUT AT THE FACTORY IN A HORIZONTAL POSITION. WELDING SHALL BE PERFORMED PER 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 BY 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.

INSTALLATION OF SHEET PILE:

1. THE LEADING INTERLOCK WITHOUT A SEALING PRODUCT MUST FIRST BE CLEANED BY PRECEDING THE SEALED INTERLOCK OF THE NEXT PILE BY A CLEANING TOOL WHICH FITS THE SHAPE OF THE INTERLOCK PERFECTLY AND TAKES AWAY WITH IT THE IMPURITIES WHICH MIGHT PREVENT THE JOINT FROM WORKING PROPERLY. THIS CLEANING TOOL WHICH IS NOT RECOVERED SHALL BE SUPPLIED BY MANUFACTURER.
2. WHEN DRIVING PILES SEALED WITH WATER-SWELLING PRODUCT, CARE MUST BE TAKEN WITH GUIDING SO AS TO PREVENT THE PILES FROM BEING LONGITUDINALLY OR TRANSVERSELY OUT OF PLUMB. THE USE OF GUIDES IS ESSENTIAL AND INSTALLATION MUST BE CARRIED OUT SO THAT A TOLERANCE OF LESS THAN 1% ON THE VERTICALITY IS ACHIEVED.
3. THE SEALING PRODUCT MUST BE LUBRICATED BEFORE DRIVING USING A COMMERCIAL SOAPY PRODUCT. THIS PRODUCT MUST BE SPREAD IN THE SEALED INTERLOCK USING A PAINTBRUSH.
4. WHEN WATER IS PRESENT, DRIVING OF A PARTIALLY DRIVEN PILE MUST NOT BE SUSPENDED FOR MORE THAN TWO HOURS. EXPANSION OF THE SEALING PRODUCT WOULD CAUSE IT TO BE TORN OFF WHEN DRIVING IS RESUMED.

SHEET PILE DRIVING REQUIREMENTS:

1. SHEET PILE SHALL BE DRIVEN EITHER BY VIBRATORY OR PRESS-IN METHODS.
2. ALL SHEET PILES SHALL BE DRIVEN TO THE MINIMUM DEPTHS SHOWN ON THE PLANS. PILES SHALL BE DRIVEN SO AS NOT TO SUBJECT THE PILES TO DAMAGE AND TO ENSURE PROPER INTERLOCKING THROUGHOUT THEIR LENGTHS. PILE DAMAGE DURING DRIVING OR DRIVEN OUT OF INTERLOCK SHALL BE REMOVED AND REPLACED.
3. THE CONTRACTOR IS MADE AWARE OF THE FACT THAT DEBRIS, BOULDERS, VEGETATION, TRASH, HARDPAN SOILS, AND ORGANIC MUCK ON SITE SHALL BE REMOVED AS NECESSARY AND DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS.
4. TEMPORARY INTERNAL BRACING OF SHEET PILES AND SOIL EMBANKMENT AND/OR DEWATERING OF THE SAME MAY BE REQUIRED AS MEANS AND METHODS TO THE WORK SEQUENCE. ALL EXCAVATION SUPPORT AND DEWATERING DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA WITH A MINIMUM OF 10 YEARS OF EXPERIENCE WITH SIMILAR DESIGN WORK.

PROTECTIVE COATING REQUIREMENTS:

CONTRACTOR SHALL USE A THREE-COAT SHOP APPLIED SYSTEM COMPRISED OF AN INORGANIC ZINC PRIMER AND TWO COATS OF COAL TAR-EPOXY IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 560-9. CHANNEL AND/OR PLATES SECTIONS SHALL RECEIVE COATING. FIELD COATING OPERATIONS SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 560.

STEEL SHEET PILE SECTION:

1. HOT ROLLED STEEL SHEET PILE SHALL BE PROVIDED BY SKYLINE STEEL OR APPROVED EQUAL. SKYLINE STEEL CAN BE CONTACTED AT 1-866-875-9546 OR ONLINE AT WWW.SKYLINESTEEL.COM.
2. STEEL SHEET PILE AND STEEL CAP SHALL BE ASTM A572 GRADE 50 (MINIMUM YIELD STRENGTH 50 KSI)
3. ALL WELDING SHALL BE IN ACCORDANCE WITH ANSII/AWS D1.1 USING E70XX ELECTRODES, UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 58 KSI.

AZ 26-700 HOT ROLLED STEEL SHEET PILE SECTION PROPERTIES:					
DESCRIPTION	UNIT	PROPERTY	DESCRIPTION	UNIT	PROPERTY
WIDTH (w)	In	27.56	SECTION MODULUS	In ³ /ft	48.4
HEIGHT (h)	In	18.11	MOMENT OF INERTIA	In ⁴ /ft	437.3
FLANGE Thickness (tf)	In	0.480	WEB Thickness (tw)	In	0.480

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
AZ26 SHEET PILE (INSTALLED)	SF	8,592

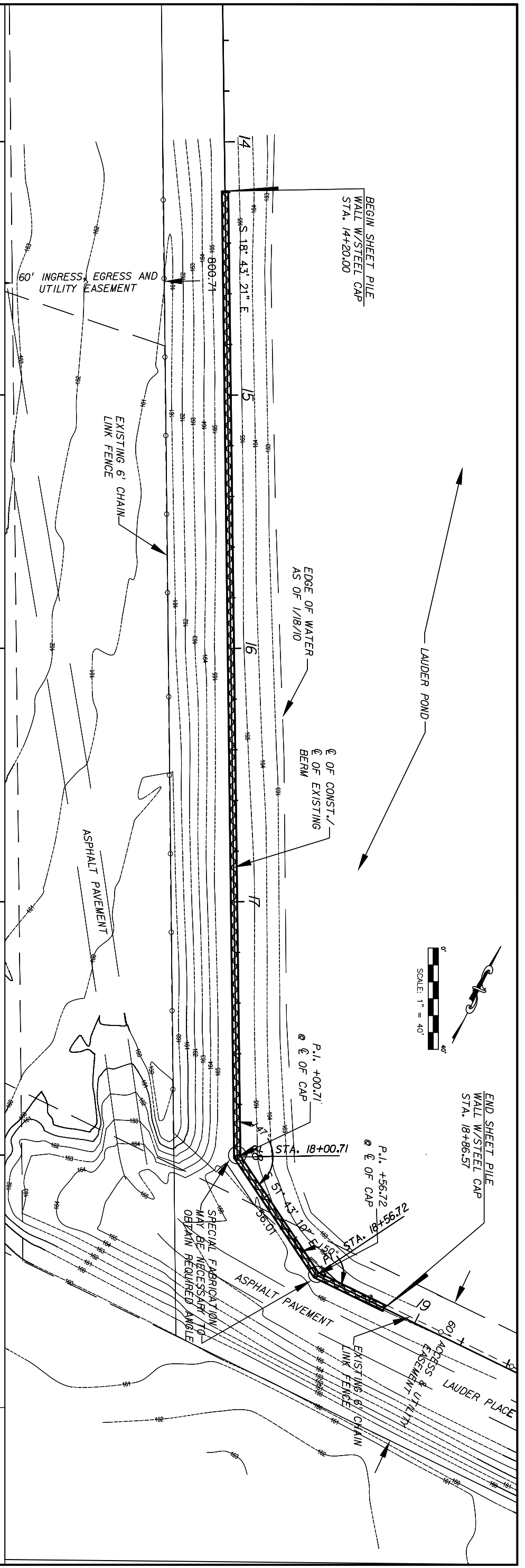
*ESTIMATED QUANTITIES ARE FOR INFORMATION ONLY
CONTRACTOR TO DETERMINE EXACT QUANTITY

REVISIONS		ENGINEER OF RECORD:	
DATE	DESCRIPTION	DRAWN BY	INITIAL
		B.A.W.	
		C.M.C.	
		DESIGN BY	J.L.R.
		CHECKED BY	J.L.R.
		DATE	5/22/2012

REGISTE, SLIGER ENGINEERING, INC.
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PROJECT NUMBER: 1004

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
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PROJECT NAME:	SHEET NO.
LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL	9



175	BEGIN STEEL CAP STA. 14+20.00 ELEV. 165.50	ELEV. 165.50 +50.00	TOP OF EXISTING BERM @ CONST.	ELEV. 165.50 +00.00	STA. 14+00.00
170	BEGIN SHEET PILE WALL W/STEEL CAP STA. 14+20.00 ELEV. 165.50	ELEV. 165.50 +50.00	TOP OF EXISTING BERM @ CONST.	ELEV. 165.50 +00.00	STA. 15+00.00
165	BOTTOM OF STEEL CAP ELEV. 165.17	ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	STA. 16+00.00
150		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	STA. 17+00.00
145		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	STA. 18+00.00
140		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	STA. 19+00.00
135		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
130		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
125		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
120		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
115		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
110		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
105		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
100		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
95		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
90		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
85		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
80		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
75		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
70		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
65		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
60		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
55		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
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45		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
40		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
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20		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
15		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
10		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
5		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	
0		ELEV. 165.50 +50.00	TOP OF STEEL CAP	ELEV. 165.50 +50.00	

DATE	BR	REVISIONS	DESCRIPTION	DRAWN BY	B.A.W.	INITIAL	ENGINEER OF RECORD:
				CHECKED BY	C.M.C.		JOHN F. SLIGER II, P.E.
				DESIGN BY	J.R.		#55550
				CHECKED BY	J.R.		
				DATE	5/2/02		

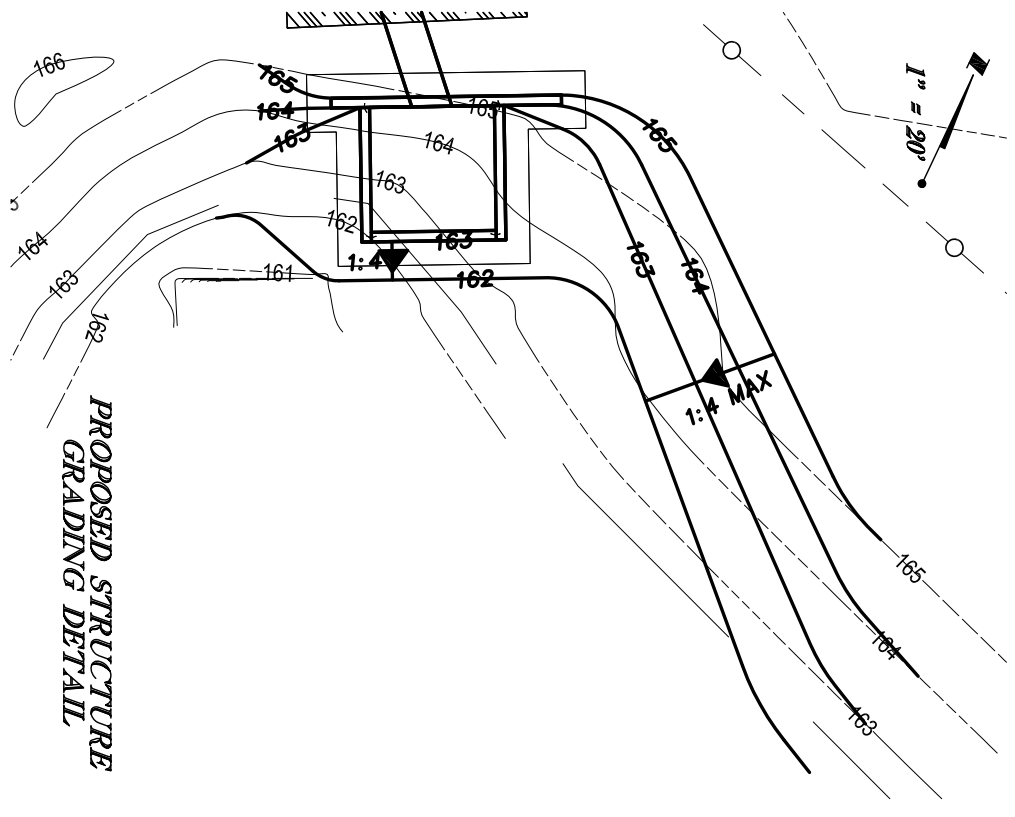
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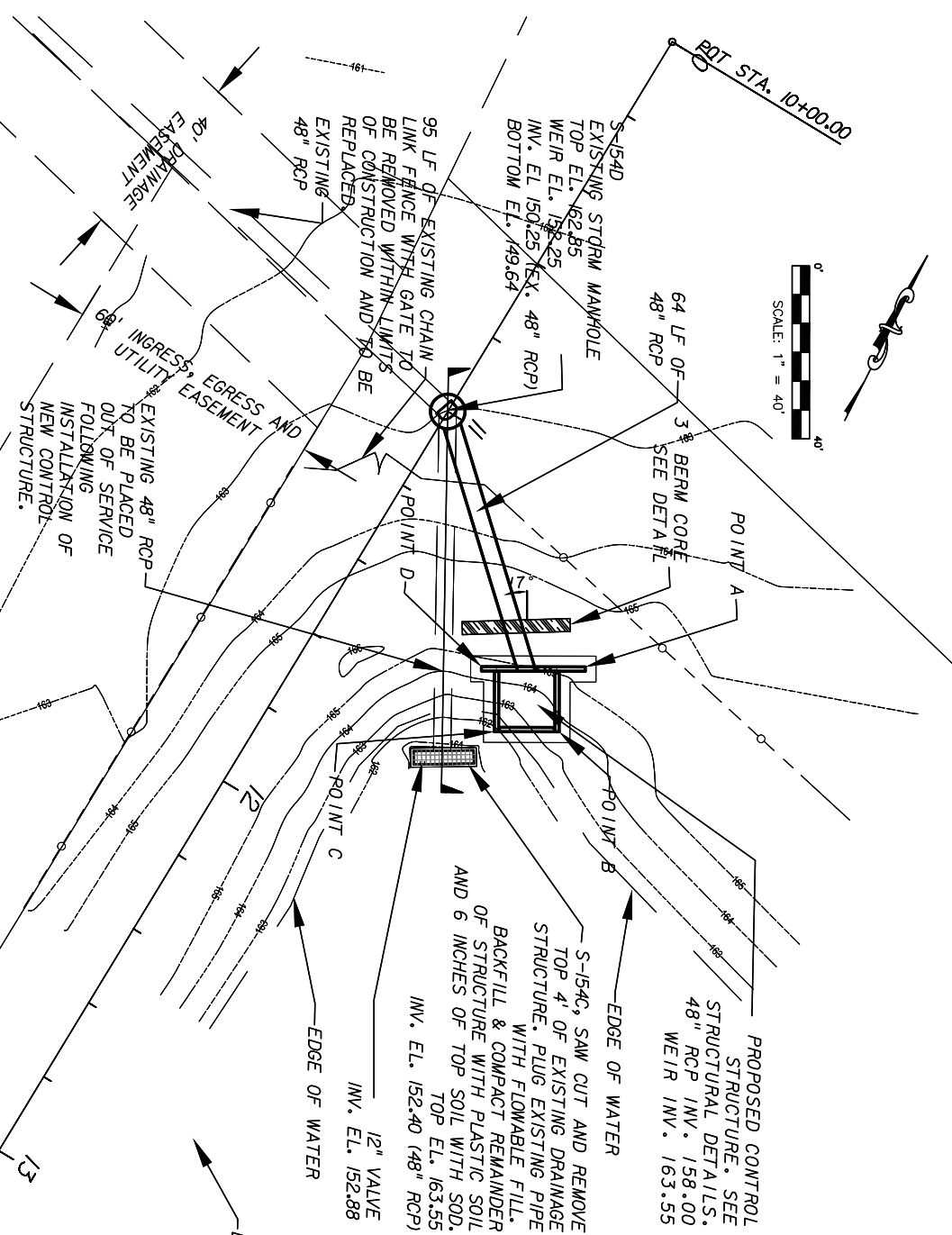
**SHEET PILE WALL
 PLAN & PROFILE**

PROJECT NAME:
**LAUDER POND OUTFALL STRUCTURE
 IMPROVEMENTS AND SHEET PILE WALL**

SHEET NO. **10**



PROPOSED STRUCTURE GRADING DETAIL

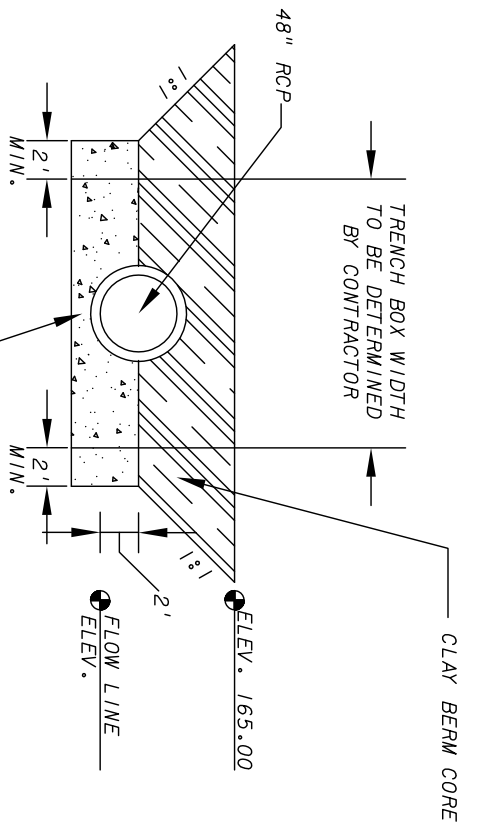


PROPOSED STRUCTURE LAYOUT		
POINT	STATION	OFFSET
A	11+33.99	57.85 LT
B	11+49.93	60.47 LT
C	11+57.69	47.63 LT
D	11+46.40	37.31 LT

NOTES:

- PRESSURE WASH AND REMOVE DEBRIS FROM EXISTING STRUCTURE PRIOR TO GROUTING.
- FLOWABLE FILL SHALL BE NON-EXCAVATABLE. NON-EXCAVATABLE FILL SHALL CONTAIN A MINIMUM 350 LB/CY OF CEMENTITIOUS MATERIAL AND MEETS REQUIREMENTS OF SECTION 121 OF FDOT STANDARD SPECIFICATIONS.
- PLASTIC SOIL SHALL BE AASHTO A-2-5, A-2-6, A-4, A-5, A-6 OR A-7 (ALL WITH LL50), COMPACTED IN ONE FOOT LIFTS.

- CLAY BERM CORE NOTES:**
- CLAY CORE MATERIAL SHALL BE PLASTIC SOIL AND COMPACTED TO 95% MODIFIED PROCTOR IN 6" LIFTS.
 - CONTRACTOR SHALL PROVIDE TWO COMPACTION TESTS FOR THE CLAY CORE.



BERM CORE DETAIL

175.00	CONTRACTOR TO VERIFY SIZE OF MANHOLE AND TOP SLAB ELEVATION PRIOR TO CONSTRUCTION	170.00
165.00	CONTRACTOR TO VERIFY S-154D EXISTING CONE AND TOP SLAB AND ADJUST 8" DIA MANHOLE WITH RISERS PROPOSED TOP EL. 163.00 EXISTING BOTTOM EL. 149.64 48" RCP INV. 157.00	160.00
155.00	CONTRACTOR TO VERIFY EXISTING TOP SLAB EL. 157.55	155.00
150.00	CONTRACTOR TO VERIFY EXISTING TOP SLAB EL. 150.25	150.00
145.00	CONTRACTOR TO VERIFY EXISTING TOP SLAB EL. 152.25	145.00
140.00	CONTRACTOR TO VERIFY EXISTING TOP SLAB EL. 152.25	140.00

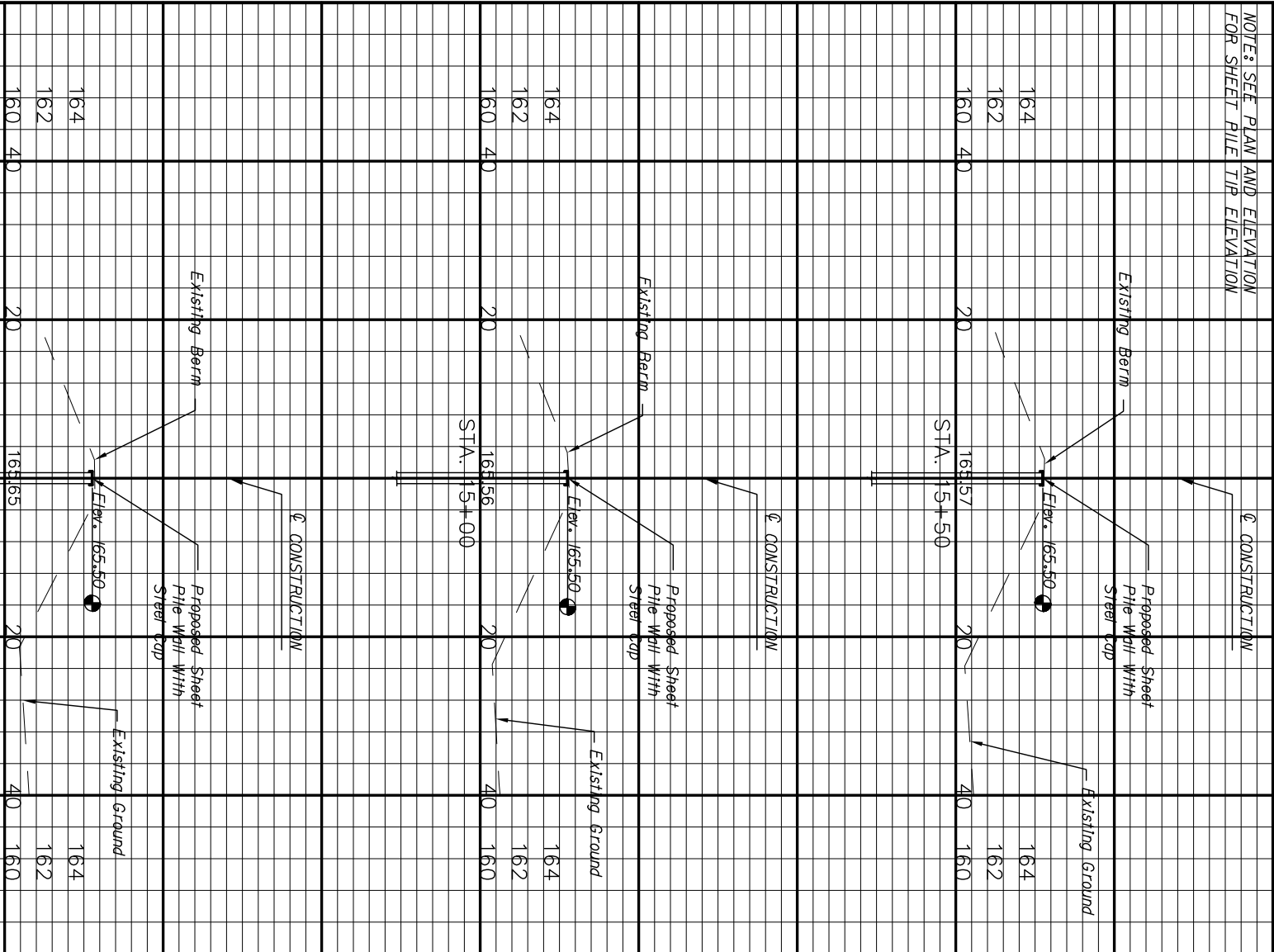
DATE	BY	DESCRIPTION	INITIAL	ENGINEER OF RECORD:
				JOHN F. SLIGER II, P.E. P.E. #55550

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 PHONE: (850) 894-4521 - FAX: (850) 224-0505
 PROJECT NUMBER: 1004

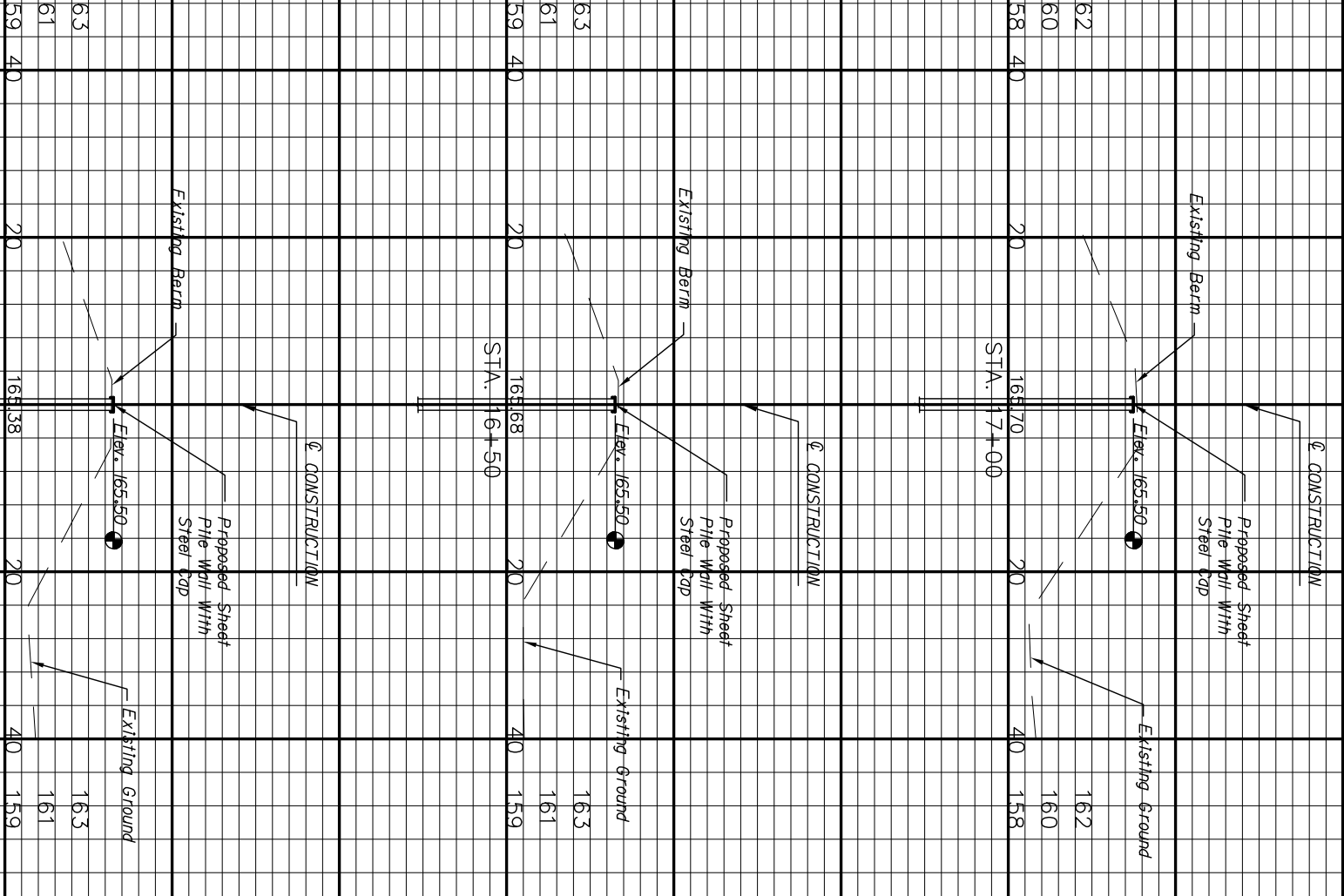
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DRAINAGE STRUCTURES PLAN & PROFILE		SHEET NO.
PROJECT NAME: LAUNDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL		11

NOTE: SEE PLAN AND ELEVATION FOR SHEET PILE TIE ELEVATION



164	20	165.57	20	40	160
162					
160	40	STA. 15+50			



162	20	166.70	20	40	158
160					
158	40	STA. 17+00			

REVISIONS

DATE	BY	DESCRIPTION

ENGINEER OF RECORD:

JOHN F. SUGER II, P.E.
P.E. #55550

REGISTE, SUGER ENGINEERING, INC.
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PROJECT NUMBER: 1004

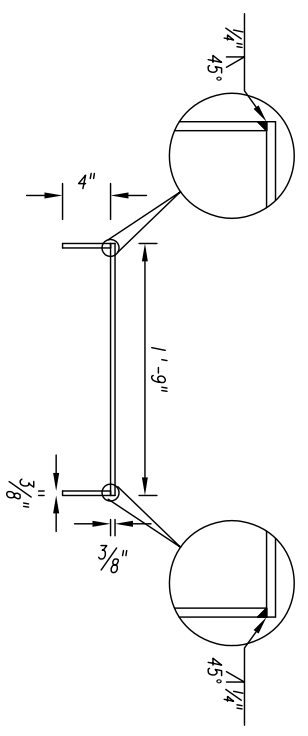
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PHONE (850) 606-1500 * FAX (850) 606-1501

SHEET PILE WALL CROSS SECTIONS

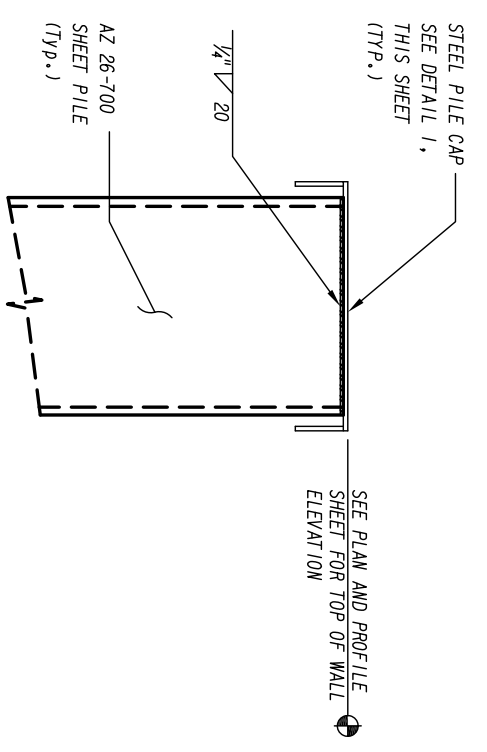
PROJECT NAME:
LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL

SHEET NO. **12**

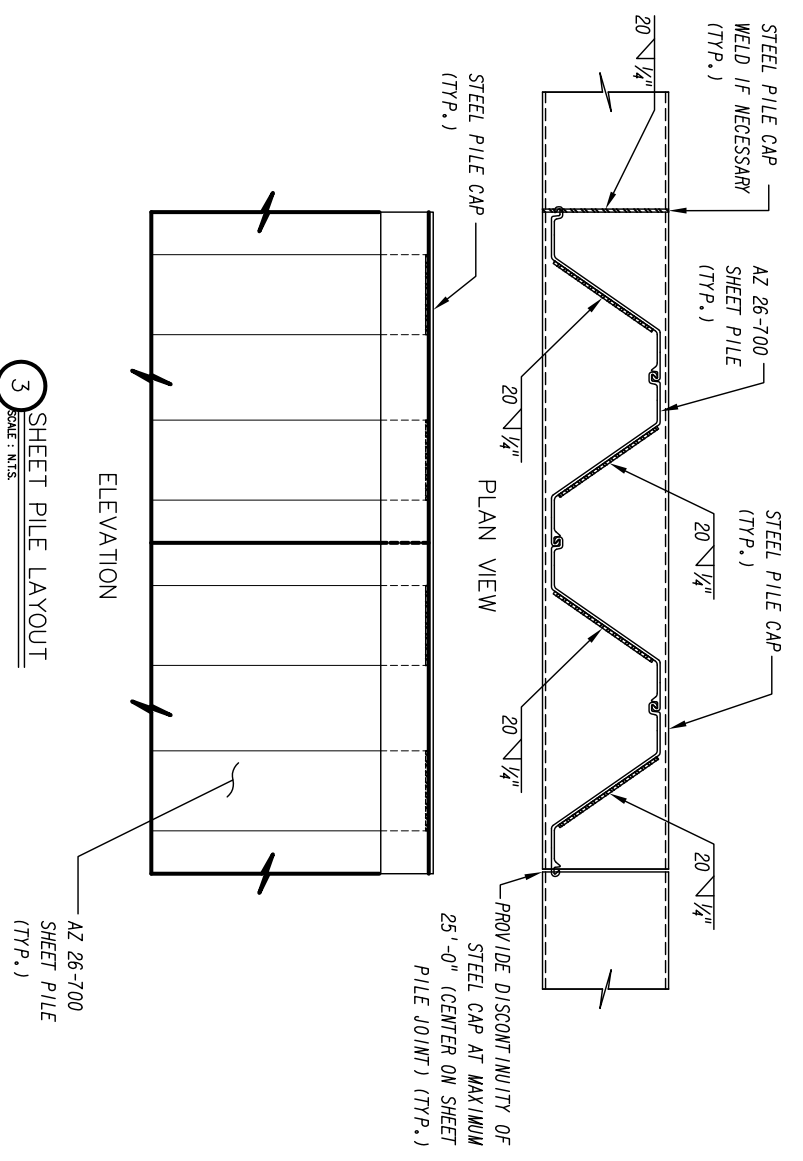
Scale: 1" = 20' Horizontal, 1/4" = 10' Vertical



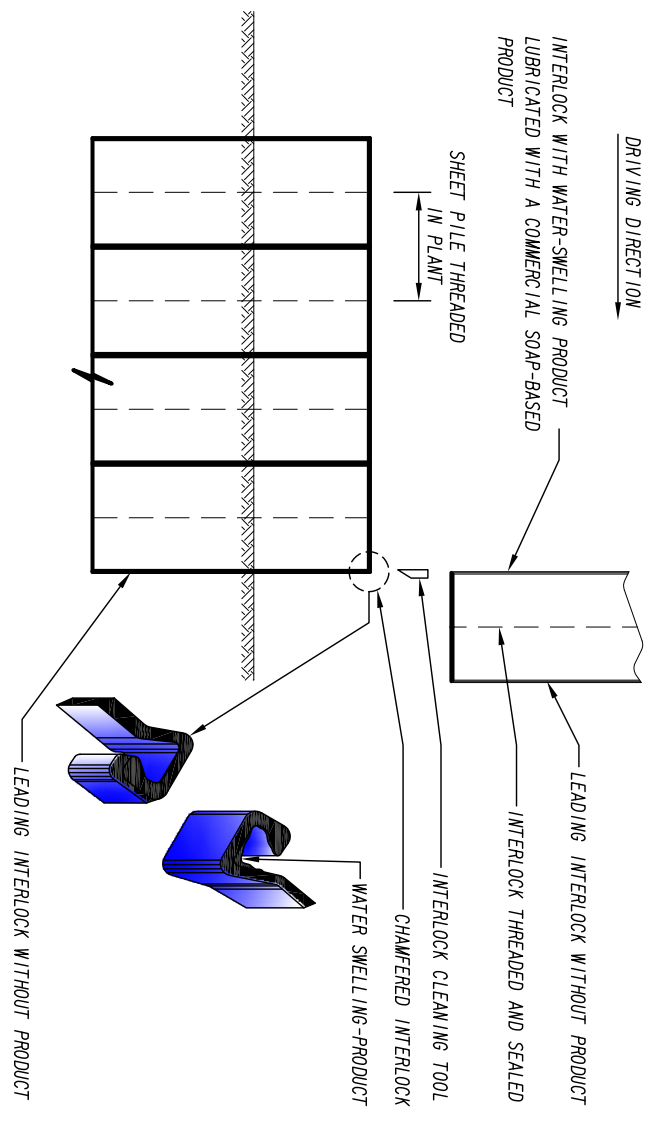
1 STEEL PILE CAP
SCALE: N.T.S.



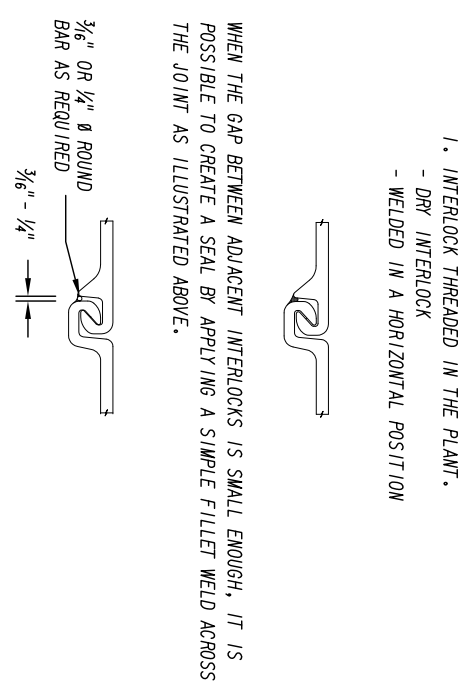
2 SHEET PILE-SECTION
SCALE: N.T.S.



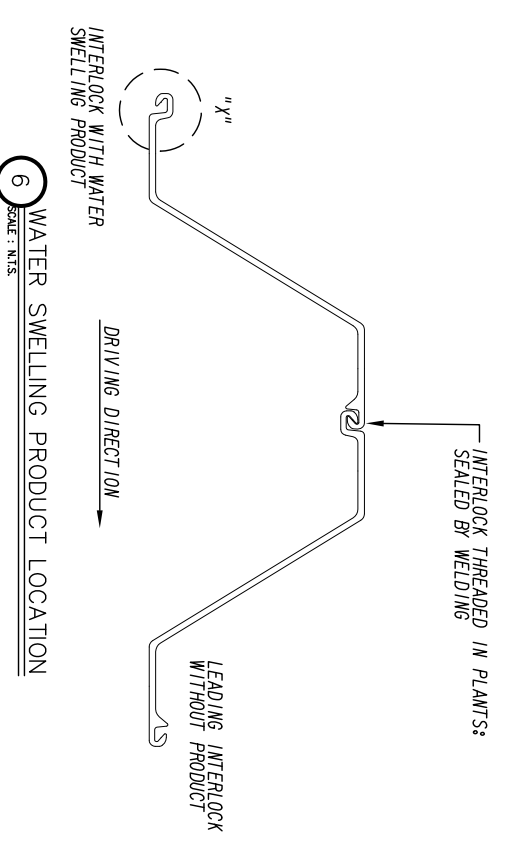
3 SHEET PILE LAYOUT
SCALE: N.T.S.



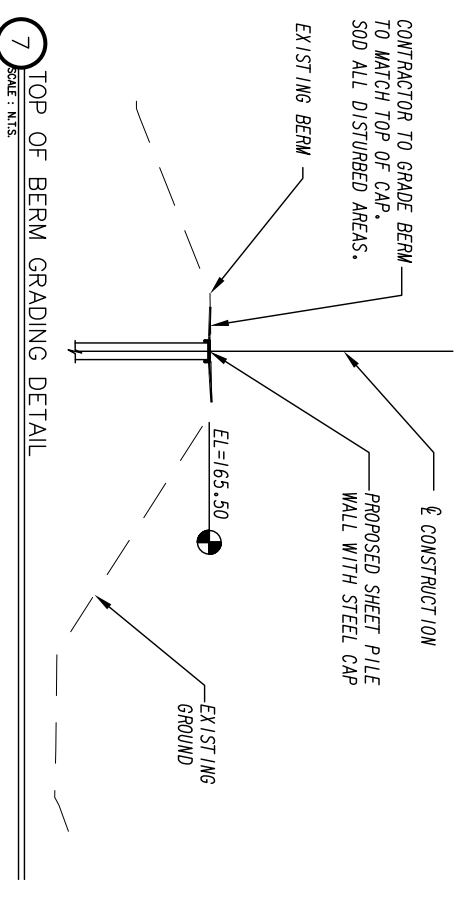
4 THREADED DOUBLE SHEEPILE WITH WATER-SWELLING PRODUCT
SCALE: N.T.S.



5 INTERLOCK THREADED IN PLANT
SCALE: N.T.S.



6 WATER SWELLING PRODUCT LOCATION
SCALE: N.T.S.



7 TOP OF BERM GRADING DETAIL
SCALE: N.T.S.

DATE	BR	DESCRIPTION	INITIAL	ENGINEER OF RECORDS
			B.A.W.	JOHN F. SLIGER II, P.E.
			C.M.C.	P.E. #55550
			D.M.	
			J.L.R.	

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SHEET PILE WALL DETAILS
PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL
SHEET NO. 14

WALL DATA TABLE

WALL DIMENSIONS									
Wall No.	Begin ft.	End ft.	Length ft.	W	Slope Bkwall	Wall Cover	Slab Cover		
Wall 1	8	0	8	0	24	0	12	0	3
Wall 2	6	6.5	6	6.5	14	0	12	0	3
Wall 3	6	6.5	6	6.5	14	0	12	0	3
Wall 4	6	6.5	6	6.5	13	0	12	0	3

ESTIMATED QUANTITIES		
Wall No.	Concrete	Reinf. Steel
Wall 1	7.1	1,093
Wall 2	3.4	624
Wall 3	3.4	624
Wall 4	3.2	635
Slab	19.6	1,886
TOTAL	36.7	4,862

BILL OF REINFORCEMENT SLAB TO WALL									
Wall No.	Size	Bars J		Bars B		Bars M			
		Begin ft.	End ft.	Begin ft.	End ft.	Begin ft.	End ft.	Total Length	
Wall 1	5	23	12	3	0	2	11	5	11
Wall 2	5	9	12	3	0	2	11	5	11
Wall 3	5	9	12	3	0	2	11	5	11
Wall 4	5	14	12	3	0	2	11	5	11

BILL OF REINFORCEMENT WALL									
Wall No.	Size	Bars F		Bars A		Bars G2			
		Begin ft.	End ft.	Begin ft.	End ft.	Begin ft.	End ft.	Total Length	
Wall 1	5	25	12	7	9	5	16	23	23
Wall 2	5	15	12	6	3.5	5	14	14	0
Wall 3	5	15	12	6	3.5	5	14	14	0
Wall 4	5	14	12	6	3.5	5	14	14	0

BILL OF REINFORCEMENT SLAB									
Location	Size	Bars H1		Bars G1		Bars H2		Bars G3	
		Spacing in.	Length in.	Spacing in.	No. of Splices	Spacing in.	Length in.	Spacing in.	No. of Splices
Top	5	21	12	19	6	5	21	12	0
Bot.	5	20	12	19	6	5	21	12	0

NOTES: SEE SHEET 16 FOR BAR BENDING DETAILS

MARK SIZE	LENGTH FT	NO. BARS	TYPE	B	C	D	E	F	H	J	K	N	Ø
FRONT WALL 1													
5 A	7-9	25	1										
5 F	7-9	25	1					23-6					
5 G2	28-6	16	1					2-11					
5 U	5-11	23	10					3-0					
5 M	5-11	23	10					2-11					
BACK WALL 4													
5 A	6-4	14	1										
5 F	6-4	14	1										
5 G2	17-6	14	11					14-0					
5 U	3-11	14	10					3-0					
5 M	5-11	14	10					2-11					
SIDE WALLS 2 & 3													
5 A	6-4	15	1										
5 F	6-4	15	1										
5 G2	18-6	14	11					14-0					
5 U	5-11	9	10					3-0					
5 M	5-11	15	10					2-11					
NO. REQUIRED = 2													
SLAB													
5 H1	19-4	41	1										
5 G1	19-4	30	1										
5 H2	5-4	18	1										
5 G3	28-4	12	1										
NO. REQUIRED = 1													

END OF LIST

DATE	BR	REVISIONS	INITIAL	ENGINEER OF RECORDS
		DESCRIPTION	B.A.W.	
		DRAWN BY	C.M.C.	
		CHECKED BY	J.R.	
		DESIGN BY	J.R.	
		CHECKED BY	J.R.	
		DATE	5/22/12	

JOHN F. SLIGER II, P.E.
P.E. #55550

REGISTE, SLIGER ENGINEERING, INC.
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PROJECT NUMBER: 1004

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
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CONTROL STRUCTURE NOTES & DATA TABLES
LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL

SHEET NO. 15

Concrete (C/P):

- Concrete shall be in accordance with Section 346 of the FDOT Standard Specifications.
Class of Concrete: Min. 28 day Comp. Strength
IV
5500 PSI
- Concrete covers: unless otherwise noted, concrete cover shall conform to the following:
C/P -- Walls: 3" min.
C/P -- Slabs: 4" min.

- Concrete covers shown in the plans do not include placement and fabrication tolerance unless shown as "minimum cover". See FDOT Standard Specifications for allowable reinforcement tolerances.
- Provide 3/4" chamfers on all exposed edges unless otherwise noted. Construction joints will be permitted only at locations shown on the plans. Additional construction joints, or alternate locations to those shown, require written approval from the engineer.

- All reinforcement steel shall be in accordance with ASTM A 615, grade 60 deformed bars unless otherwise noted.
- Placing of concrete - vibrate concrete to prevent honeycombs and voids. Do not use admixtures containing chloride salts in the concrete.
- All concrete surfaces shall receive a general surface finish.
- Surface Finish: A class 5 applied coating shall be applied to the top of the wall and the exposed face above ground line.

- Backfill:
- Backfill for walls shall be a clean sand (A-3) compacted in layers not exceeding 12" thick, loose measure, to 95% maximum density, modified proctor in accordance with ASTM D-1557. The backfill within 5 feet of the wall should be placed in thin lifts and be compacted with hand-held or light-weight compactors. Over-compaction of the backfill should be avoided since it could cause excessively large earth pressures to develop against the walls. Heavy equipment should be kept at least 5 feet away from the wall.

- Soil Preparation:
- Prepare the soil below the slab in accordance with the requirement for spread footing in FDOT Standard Specification Section 455.
 - Over excavate 2'-0" from bottom of proposed slab, grade site and compact existing soils to a firm condition.
 - Fill beneath slab shall be a clean sand compacted in layers not exceeding 12" thick, loose measure, to a minimum of 95% maximum density, modified proctor in accordance with ASTM D-1557.

Water stops:

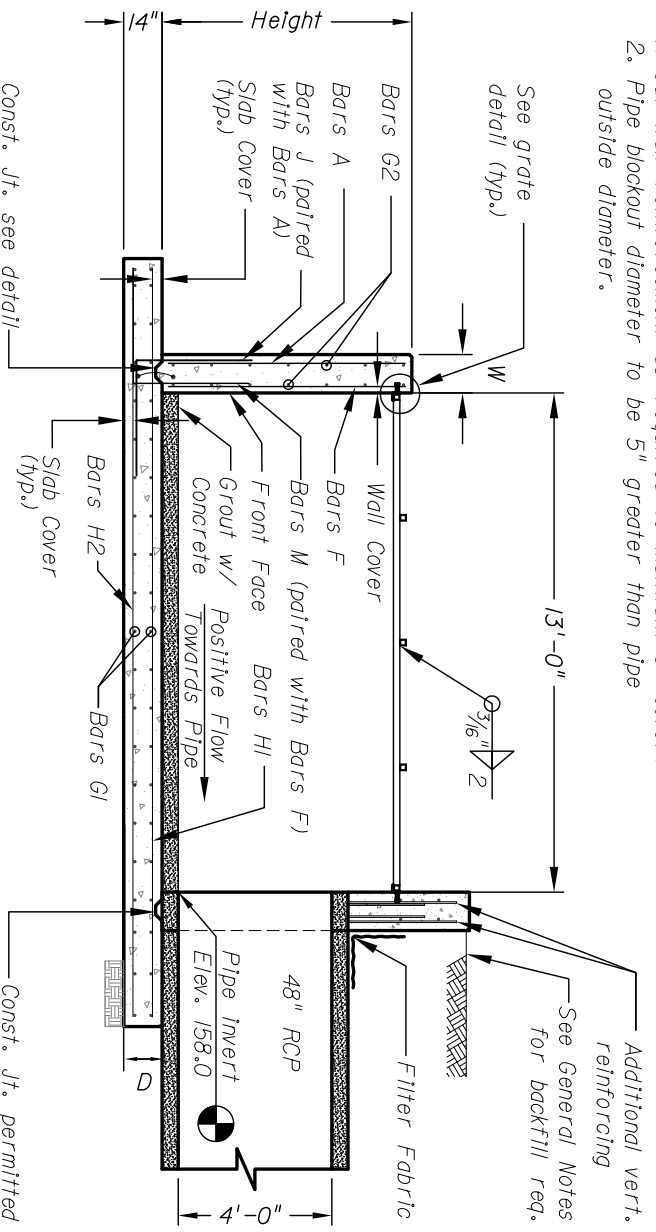
- All rubber water stops shall be Williams everlasting neoprene or approved equal. Install according to manufacturers specification.
- Use continuous 6" Dumbbell profile water stops at all expansion joints.
- Fitting sleeves shall be used to provide positive splicing and alignment. Tee sections shall be used in all locations where water stops intersect.
- Submit shop drawings and product data sheet for approval of all water stop materials, installation procedures and detailed location.

Product Information:
Williams products can be contacted at: Phone 800-521-9594 or 248-643-6400 or Wilpro@williamsproducts.net

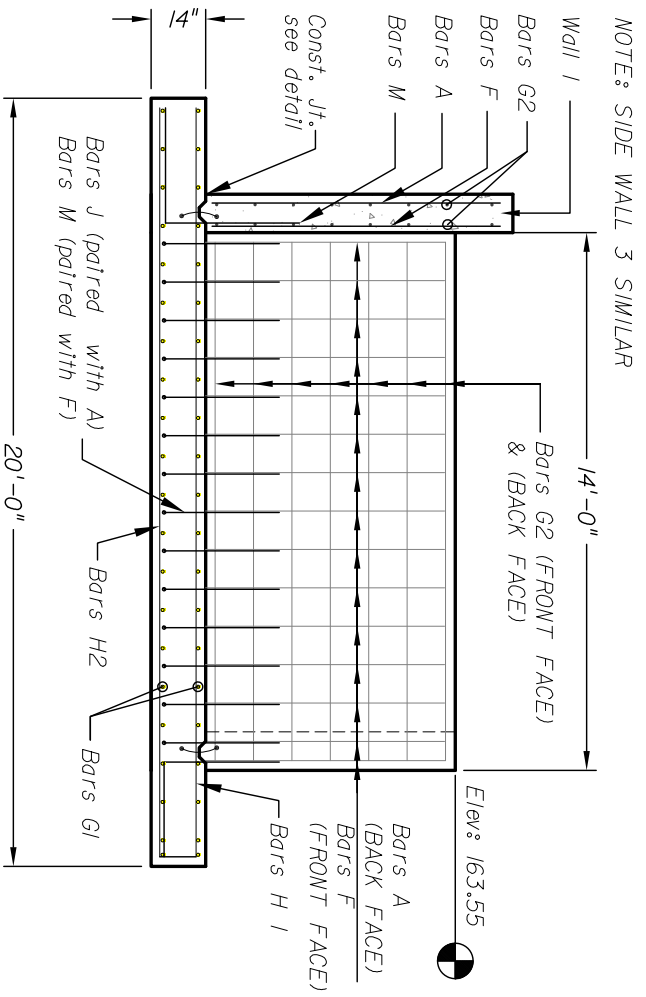
Structural steel notes:

- All structural steel shall conform to the Steel Construction Manual (Fourteenth Edition).
- Unless otherwise noted, all materials shall be in accordance with the following ASTM specifications:
Member: ASTM A500
Structural Steel Tubing: Min strength 46 ksi
- All welding shall be in accordance with AWS D1.1 using E70xx electrodes, unless otherwise noted, provide conf. min. sized fillet welds per AISC requirements. All filler material shall have a minimum yield strength of 58 ksi.
- All structural tubing shall receive a three-coat shop applied system, comprised of an inorganic zinc primer and two coats of cool tar-epoxy in accordance with FDOT standard specification section 560.

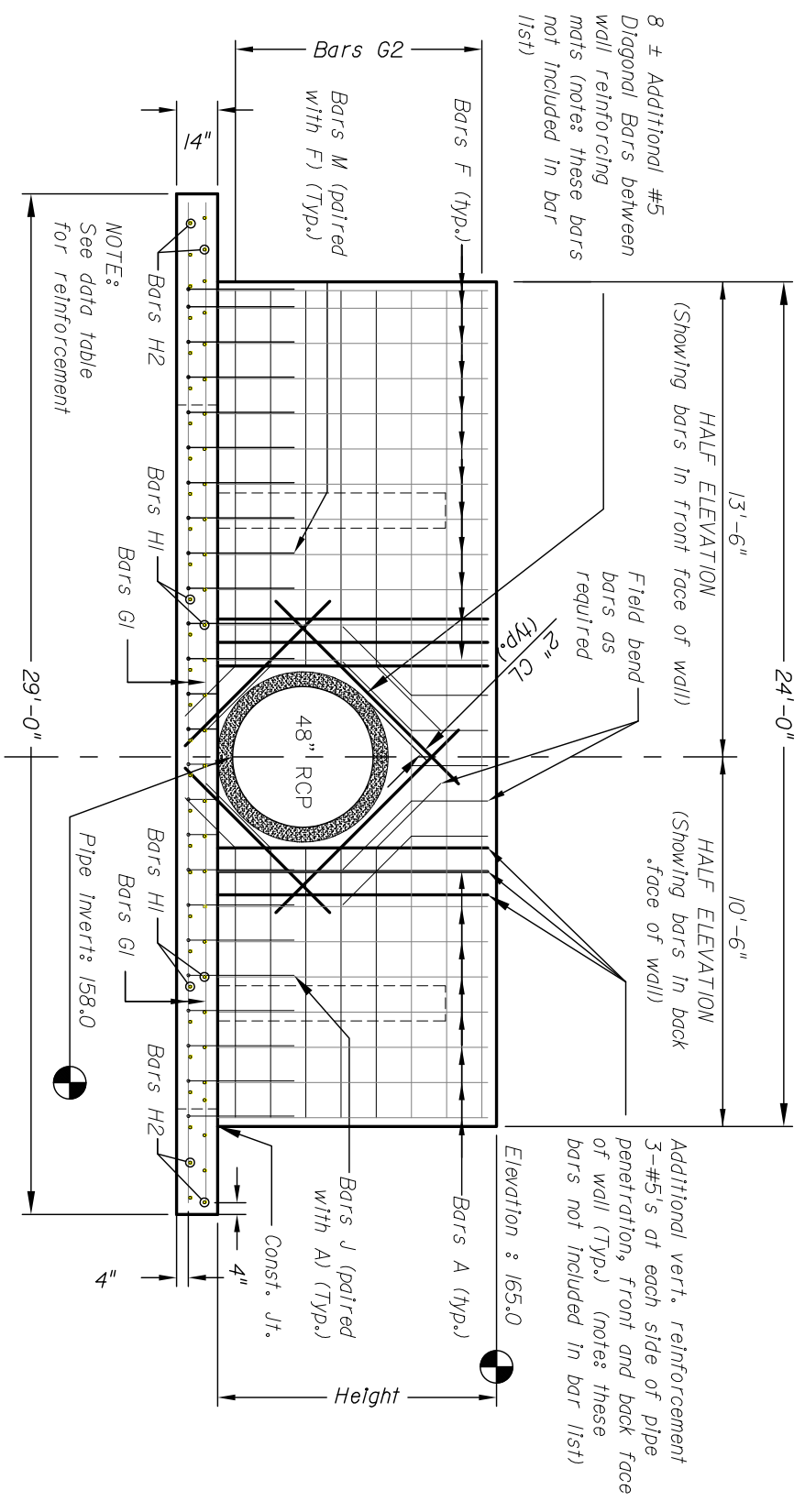
- PIPE PENETRATION NOTES:
1. Cut wall reinforcement as required to maintain 3" cover.
 2. Pipe breakout diameter to be 5" greater than pipe outside diameter.



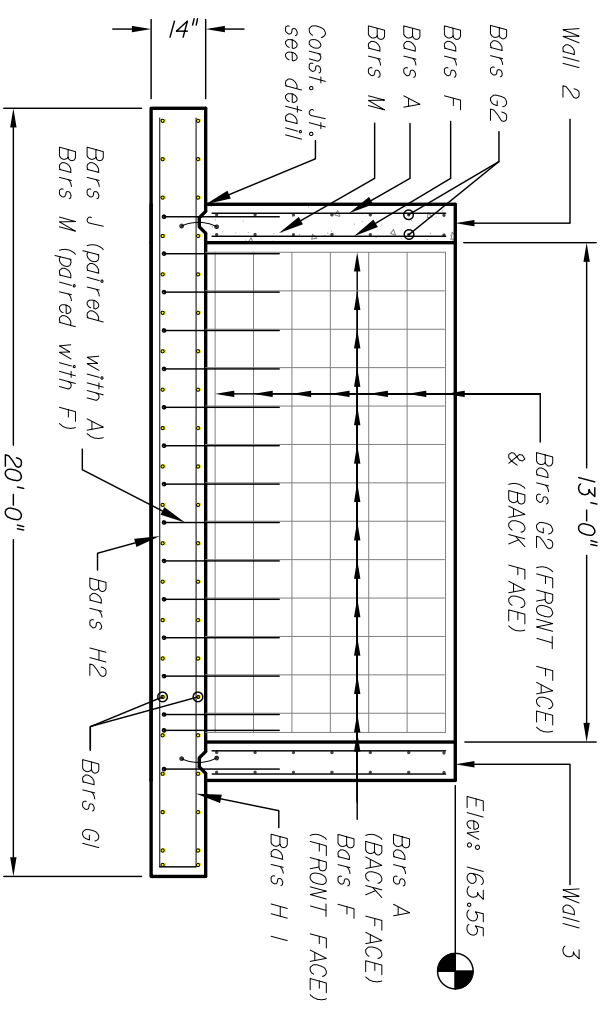
SECTION A-A
SCALE : N.T.S.



SIDE WALL 2 SECTION C-C
SCALE : N.T.S.



FRONT WALL 1 SECTION B-B
SCALE : N.T.S.



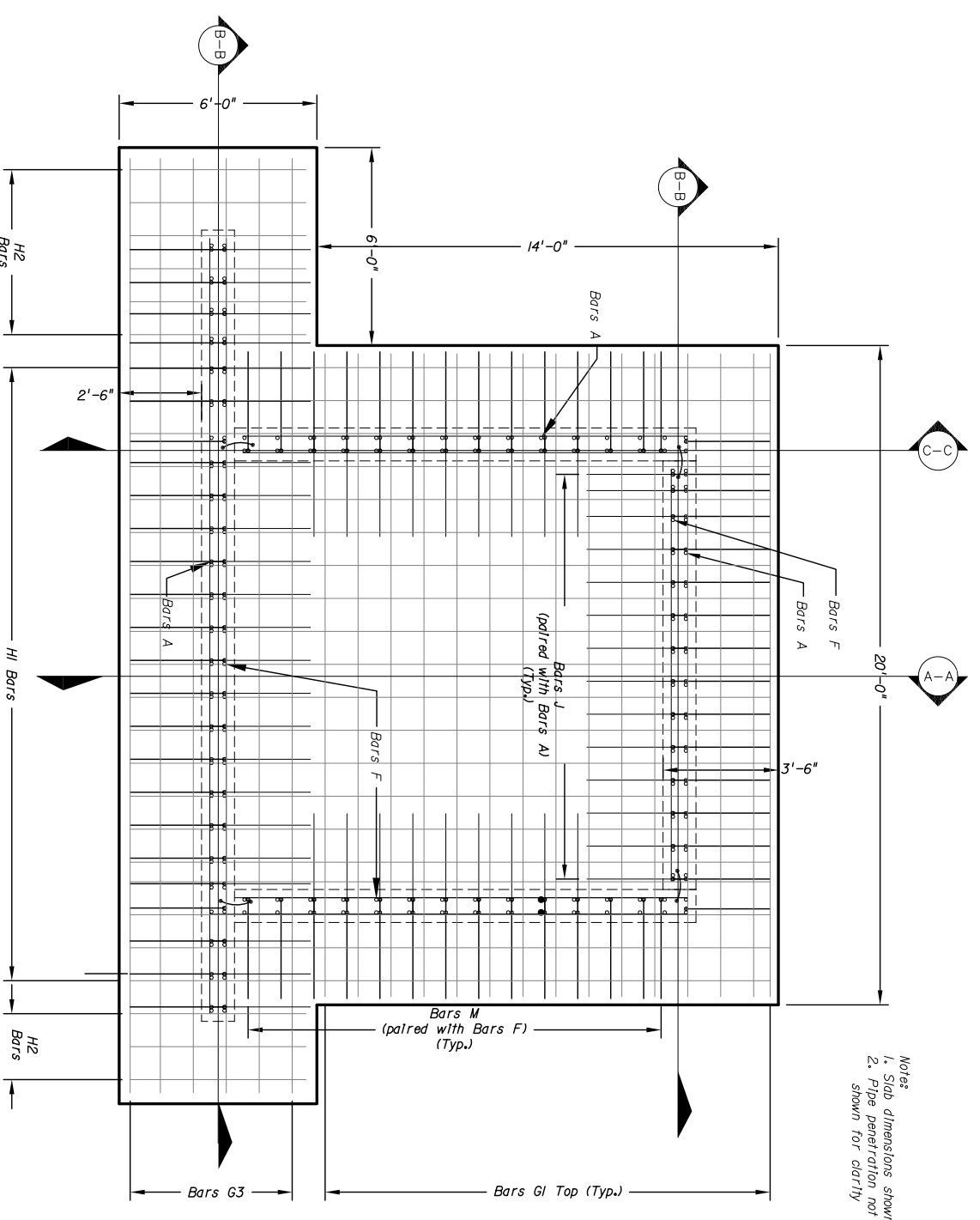
WALL 4 SECTION D-D
SCALE : N.T.S.

DATE	BR	DESCRIPTION	INITIAL	ENGINEER OF RECORD:
			B.A.W.	JOHN F. SLIGER II, P.E. P.E. #55550
			C.M.C.	
			J.R.	
			J.L.R.	
			5/2/2012	

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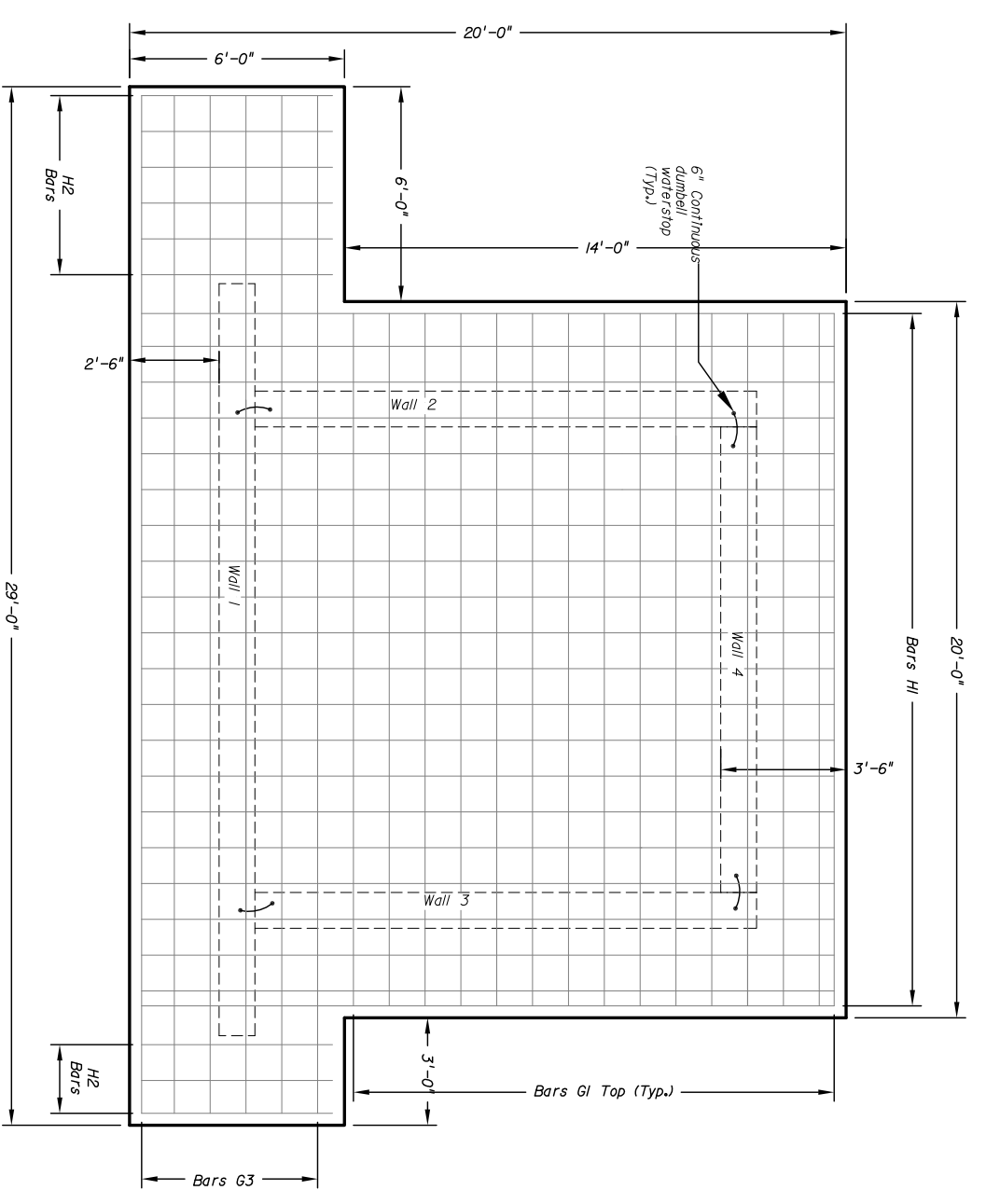
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CONTROL STRUCTURE DETAILS
PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL
SHEET NO. 17



Notes
 1. Slab dimensions shown
 2. Pipe penetration not shown for clarity

1 SLAB BOTTOM REINFORCEMENT
 SCALE : N.T.S.



2 SLAB TOP REINFORCEMENT
 SCALE : N.T.S.

REVISIONS		DATE	BY	DESCRIPTION

ENGINEER OF RECORD:	INITIAL
	B.A.W.
	C.M.C.
	D.M.
	J.R.
	5/2/2012

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PROJECT NAME:	SHEET NO.
LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL	18

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE FDOT DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS. THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT ENTAILS DRAINAGE IMPROVEMENTS TO LAUDER POND. DRAINAGE IMPROVEMENTS INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING STORMWATER OUTFALL IN LAUDER POND. THERE IS NO ADDITIONAL IMPERVIOUS AREA ADDED DUE TO THESE IMPROVEMENTS AND ALL EXISTING DRAINAGE PATTERNS ARE BEING MAINTAINED.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE PROJECT ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL AREAS ARE STABILIZED.

1.C. SOILS DATA

IN ITS SOIL SURVEY OF LEON COUNTY, FLORIDA, THE USDA CLASSIFIES THE SOILS PRESENT WITHIN THE PROJECT AREA AS PREDOMINATELY ORANGEBURG FINE SANDY LOAM (S3) WITH SOME LUCY FINE SAND (Z5). SOILS ARE WEARLY LEVEL TO STRONGLY SLOPING, WELL DRAINED SOILS; SOME ARE LOAMY THROUGHOUT; SOME ARE SANDY TO A DEPTH LESS THAN 20 INCHES AND LOAMY BELOW; SOME ARE SANDY FROM 20 TO 40 INCHES AND LOAMY BELOW.

BOTH SOILS ARE CLASSIFIED AS HYDROLOGIC SOIL GROUP B AND HAVE A MODERATE INFILTRATION RATE WHEN THOROUGHLY WET. THESE CONSIST CHIEFLY OF MODERATELY DEEP OR DEEP, MODERATELY WELL DRAINED OR WELL DRAINED SOILS THAT HAVE MODERATELY FINE TEXTURE TO MODERATELY COARSE TEXTURE. THESE SOILS HAVE A MODERATE RATE OF WATER TRANSMISSION.

STORMWATER DRAINAGE INFORMATION:

THE OUTFALL OF LAUDER POND IS TO LAKE MCBRIDE. NO ADDITIONAL IMPERVIOUS AREA WILL BE ADDED DUE TO THESE IMPROVEMENTS. ALL EXISTING DRAINAGE PATTERNS ARE BEING MAINTAINED.

1.D. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN, PROFILE, AND THE CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED OR MADE IMPROVEMENTS TO ABOVE OR BELOW GROUND WILL BE DISTURBED.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN IN THE PLAN SHEETS AND IN THE EROSION CONTROL PLAN.

* LOCATIONS OF PERMANENT CONTROLS: SOD (SHOWN ON THE SUMMARY OF QUANTITIES)

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE PLAN SHEETS. PERMANENT STABILIZATION IS SHOWN ON THE SUMMARY OF QUANTITIES.

1.E. RECEIVING WATERS:

LAKE MCBRIDE

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE INITIATION OF STABILIZATION MEASURES SHALL BEGIN NO LATER THAT SEVEN (7) DAYS FOLLOWING THE TEMPORARY OR PERMANENT CESSATION OF CONSTRUCTION ACTIVITIES IN A PARTICULAR AREA. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* SILT FENCE IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* ALL PERMANENT EROSION CONTROL FEATURES WILL BE RETURNED TO THE EXISTING CONDITION AT THE CONCLUSION OF THE PROJECT.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROL SHALL BE IN PLACE BEFORE THE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* SEDIMENT AND TURBIDITY BARRIERS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* SOD

2.B OTHER CONTROLS:

2.B.1 WASTE DISPOSAL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

* DISPOSING OF SOLID MATERIALS AND DEBRIS, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, VEGETATION DEBRIS, EXCAVATED SOIL NOT USED ELSEWHERE ON THE PROJECT AS FILL, REMOVED LIMESTONE, ASPHALT, OR CONCRETE, OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, WETLANDS, OR UNLICENSED FACILITIES.

* THE CONTRACTOR IS ADVISED THAT DISPOSAL OF CONSTRUCTION MATERIALS, WASTE MATERIALS, POLLUTANTS, AND DEBRIS WITHIN OR ADJACENT TO THE PROJECT SITE IS STRICTLY PROHIBITED. ALL SUCH ITEMS SHALL BE DISPOSSED OF IN A DULY LICENSED DISPOSAL FACILITY. THE CONTRACTOR SHALL DESIGNATE THE CONTRACTOR'S PROPOSED DISPOSAL FACILITY(S) THAT WILL BE UTILIZED FOR THIS PROJECT AT THE TIME OF THE PRE-CONSTRUCTION MEETING AND SHALL ADDRESS THIS IN THE SECTION 104 EROSION CONTROL PLAN.

2.B.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* COVERING LOADED HAUL TRUCKS WITH TARPULINS.

* REMOVING EXCESS DIRT FROM ROADS DAILY.

2.B.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.B.4 FERTILIZERS AND PESTICIDES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSTITUTIONS OF EITHER SECTION 570 OR 575 OF THE SPECIFICATIONS.

2.B.5 TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.B.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

* LEON COUNTY

* WFWMD

3.0 MAINTENANCE:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING.

* SILT FENCE: MAINTAIN PER SECTION 104. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-QUARTER OF THE HEIGHT OF THE BARRIER.

* BALED HAY OR STRAW: REMOVE SEDIMENT WHEN IT REACHES 1/2 HEIGHT OF BALES OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING STRAW BALES ON 3-MONTH INTERVALS.

* AREAS OF SEED AND MULCH OR SOD: BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDD SHALL BE RE-SEEDDED AND MULCHED AS REQUIRED TO ESTABLISH AND MAINTAIN APPROPRIATE GROUND COVER. MULCH AND/OR SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY TWO WEEKS UNTIL THE NOTICE OF TERMINATION IS FILED. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

* POINTS OF DISCHARGE

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

* STRUCTURAL CONTROLS.

* STORMWATER MANAGEMENT SYSTEMS AND FACILITIES.

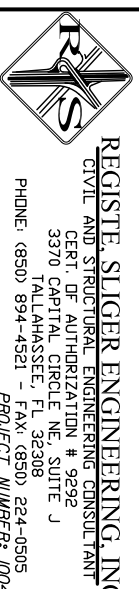

* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION ARISING FROM THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE PROJECT MANAGER AND THE PROJECT ENGINEER IMMEDIATELY.

REVISIONS		INITIAL		ENGINEER OF RECORD:	
DATE	BY	DESCRIPTION	DRAWN BY	CHECKED BY	DATE
			B.A.W.	C.M.C.	
			J.R.	J.R.	5/2/2012

				<p>STORMWATER POLLUTION PREVENTION PLAN</p> <p>PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL</p>	
				SHEET NO.	19

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 THE ENGINEER.

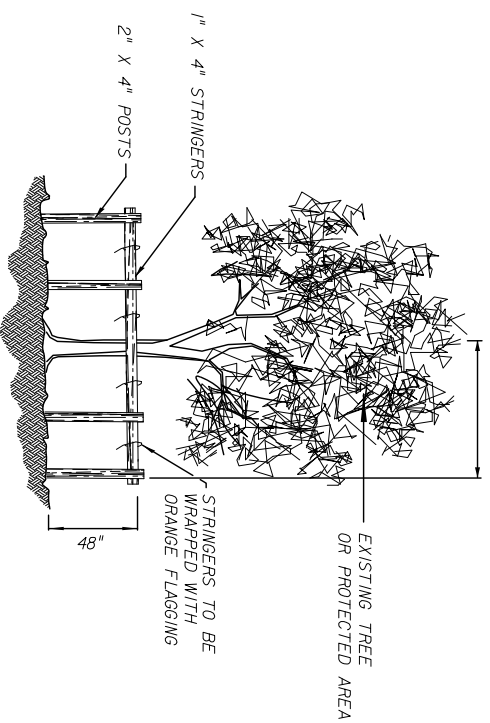
- CONSTRUCTION OF POND OUTFALL STRUCTURE AND MANHOLE IMPROVEMENTS.
 - PRE-CONSTRUCTION CONFERENCE WITH COUNTY ENVIRONMENTAL INSPECTOR.
 - INSTALL TREE PROTECTION BARRICADES. SEE DETAIL THIS SHEET. CONTRACTOR SHALL USE EXTREME CARE TO NOT DAMAGE THE ROOT SYSTEM OF NEARBY TREES, NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN.
 - INSTALL EROSION CONTROL DEVICES (TURBIDITY BARRIER, ETC.) IN ACCORDANCE WITH THE PLANS AND STANDARD SPECIFICATIONS.
 - ESTABLISH LIMITS OF CLEARING.
 - DRAINAGE IMPROVEMENTS SHALL BE PERFORMED IN DRY CONDITIONS, IF POSSIBLE.
 - EXCAVATE FOR NEW LAUDER POND OUTFALL STRUCTURE AND 48" DIAMETER PIPE.
 - INSTALL 2' LAYER OF BEDDING STONE BELOW NEW PIPE.
 - CONSTRUCT NEW LAUDER POND OUTFALL STRUCTURE.
 - ADJUST EXISTING MANHOLE PER THE PLANS.
 - INSTALL NEW 48" DIAMETER POND OUTFALL PIPE.
 - REMOVE TOP PORTION OF EXISTING LAUDER POND OUTFALL STRUCTURE AND EXISTING 48" DIAMETER PIPE WITH FLOWABLE FILL.
 - FILL THE REMAINING PART OF EXISTING POND OUTFALL STRUCTURE AND EXISTING 48" DIAMETER PIPE WITH FLOWABLE FILL.
 - FILL, GRADING AND SOD AS SHOWN IN THE PLANS.
 - REMOVE ALL EROSION CONTROL DEVICES AT THE END OF CONSTRUCTION, WITH APPROVAL FROM THE COUNTY ENVIRONMENTAL INSPECTOR.
- CONTRACTOR SHALL TEMPORARILY PILE DOWNSTREAM 48" RCP AT MANHOLE (S-194D) LOCATION DURING CONSTRUCTION IN THAT AREA, TO PREVENT TURBIDITY FROM ENTERING LAKE MCBRIDE. CONTRACTOR SHALL SUBMIT DETAILS TO LEON COUNTY PUBLIC WORKS FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PUMP ANY TURBID WATER CAUGHT IN THE MANHOLE BACK INTO LAUDER POND.
- CONTRACTOR SHALL NOT STOCKPILE MATERIAL AROUND THE MANHOLE (S-194D) DURING CONSTRUCTION ACTIVITIES.
- SHEET PILE WALL CONSTRUCTION.
 - PRE-CONSTRUCTION CONFERENCE WITH COUNTY ENVIRONMENTAL INSPECTOR.
 - INSTALL EROSION CONTROL DEVICES (TYPE III SILT FENCE) ALONG EACH SIDE OF THE IMPROVED SECTION OF BERM (SEE MINIMUM EROSION CONTROL SHEET).
 - ESTABLISH LIMITS OF CLEARING.
 - CLEAR AND GRUB AREA WITHIN LIMITS OF CONSTRUCTION.
 - DRIVE STEEL SHEET PILE.

NOTE: AS-BUILT PLANS WITH SPECIFIC TOPOGRAPHIC INFORMATION, SIGNED/SEALED BY A FLORIDA LICENSED LAND SURVEYOR AND A COMPLIANCE CERTIFICATE SIGNED/SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED AND SHOULD BE SUBMITTED TO THE DIRECTOR AT LEAST 20 DAYS PRIOR TO THE PERMITTEE/APPLICANT'S REQUEST FOR FINAL INSPECTION.

CONTRACTOR PROVIDED DEMATERING DESIGN REQUIREMENTS, SCHEDULE AND MAINTENANCE

- THE CONTRACTOR SHALL PROVIDE ALL DEMATERING NECESSARY TO KEEP THE CONSTRUCTION AND WORK AREAS DRY. THE CONTRACTOR SHALL DESIGN, INSTALL, OPERATE, AND MAINTAIN AN ADEQUATE SYSTEM. THE SYSTEM SHALL BE OF SUFFICIENT SIZE AND CAPACITY TO MAINTAIN A DRY CONDITION WITHOUT DELAYS TO CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL SUBMIT A PROPOSED DEMATERING PLAN FOR APPROVAL BY LEON COUNTY PUBLIC WORKS PRIOR TO THE PRE-CONSTRUCTION MEETING OF ANY CONSTRUCTION OR EXCAVATION OPERATIONS. THE PLAN SHALL SHOW ALL PROPOSED BEST MANAGEMENT PRACTICE (I.E. FILTER BAGS, SEDIMENT SUMPS, ETC.) FOR COMPLYING WITH ALL LOCAL, STATE, AND NATIONAL WATER QUALITY REGULATIONS. DISCHARGE POINTS SHALL BE CLEARLY INDICATED.
- THE CONTRACTOR SHALL MONITOR AND PROVIDE TESTING AT THE DISCHARGE POINTS DURING DEMATERING OPERATIONS. CONTRACTOR SHALL ENSURE THE DISCHARGE TURBIDITY IS WITHIN THE LIMITS SET FORTH IN CHAPTER 62-302 F.A.C. (LESS THAN 29 NTU + NATURAL BACKGROUND). TESTING RECORDS SHALL BE MAINTAINED ONSITE BY THE CONTRACTOR AND PROVIDED TO THE COUNTY UPON REQUEST. IF DEMATERING OPERATIONS EXCEED THE TURBIDITY REQUIREMENTS, THE CONTRACTOR SHALL STOP WORK UNTIL THE BEST MANAGEMENT PRACTICES ARE IN PLACE TO ENSURE WATER QUALITY CRITERIA IS REACHED.
- THE CONTRACTOR SHALL MAINTAIN A REGULARLY SCHEDULED MAINTENANCE PROGRAM WHICH SHALL CONFORM TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND INCLUDE ALL OTHER WORK NECESSARY TO MAINTAIN ALL COMPONENTS FULLY OPERATIONAL.
- SEDIMENT DEPOSITS FORMED BY CONSTRUCTION OPERATIONS IN THE WETLANDS SHALL BE REMOVED BY THE CONTRACTOR. SEDIMENT DEPOSITS SHALL BE REMOVED BY HAND LABORS.
- ALL COSTS ASSOCIATED WITH DEMATERING, SHALL BE FULL COMPENSATION FOR ALL WORK RELATED TO THE SUCCESSFUL DEMATERING OF THE FOOTING, INCLUDING INSTALLATION, MAINTAINING, AND MONITORING PIEZOMETER WELLS. PAYMENT SHALL BE MADE UNDER UNIT PRICE FOR DEMATERING FOR SPREAD FOOTINGS PAYITEM 400-91.

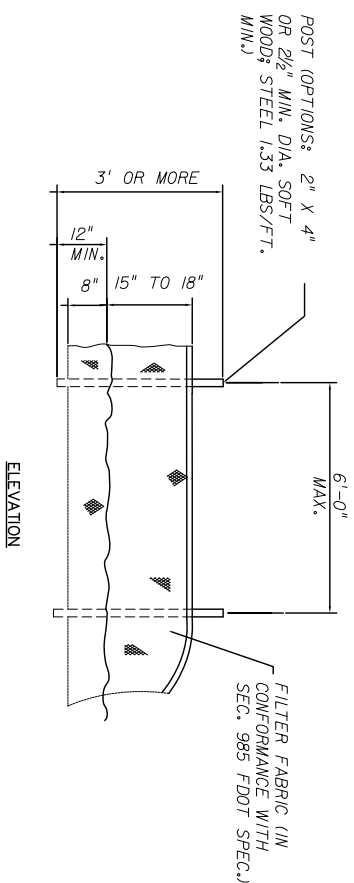
ONE FOOT PER EACH INCH OF CALIPER (DBH) OR PER PLAN LOCATION



TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE OR AS SITE CONDITIONS ALLOW.

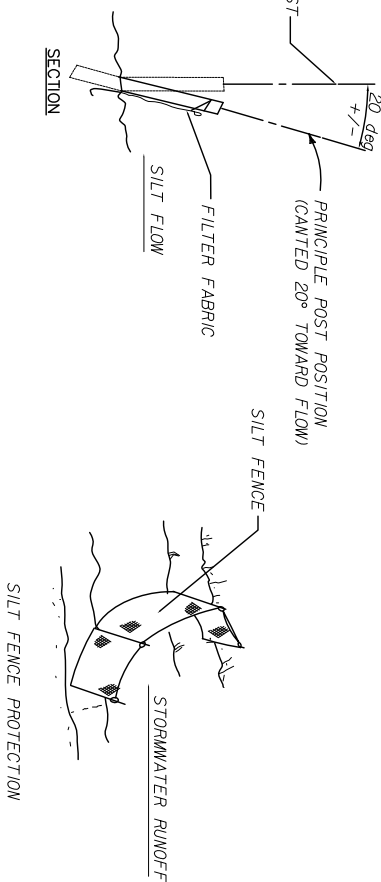
NOTE: CONTRACTOR MAY SUBSTITUTE BARRICADES WITH BLAZE ORANGE "SAFETY" FENCE IF APPROVED BY THE COUNTY ENVIRONMENTAL INSPECTOR.

1 TREE PROTECTION DETAIL
N.T.S.



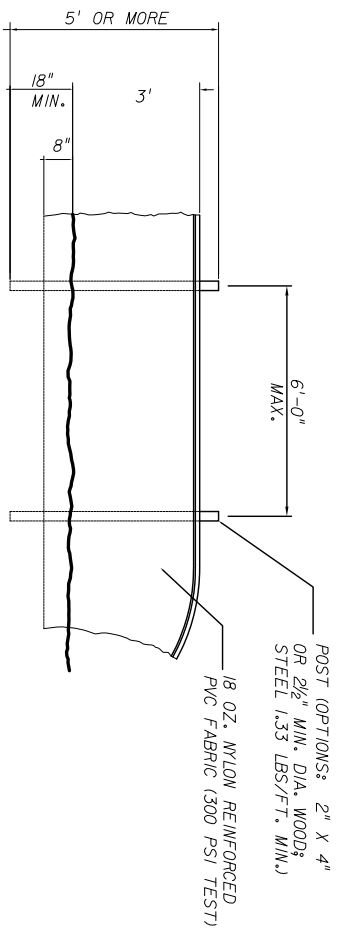
NOTE: MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADWAY.

3 TYPE III SILT FENCE
N.T.S.

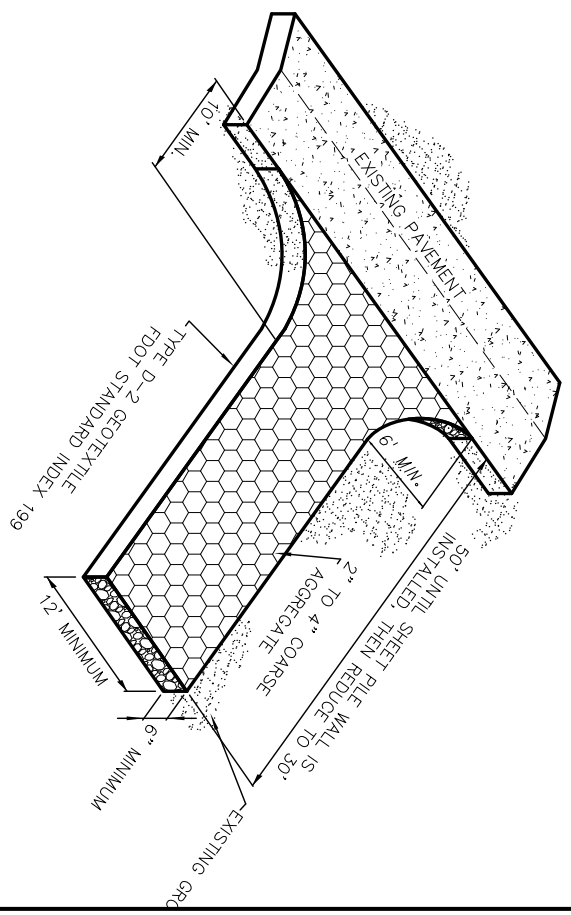


4 SOIL TRACKING PREVENTION DEVICE
N.T.S.

- NOTES:
- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
 - POST IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY ENGINEER.



2 STAKED TURBIDITY BARRIER
N.T.S.



NOTE: MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADWAY.

EROSION CONTROL DETAILS
N.T.S.

REVISIONS		INITIAL	ENGINEER OF RECORD:
DATE	BY	DESCRIPTION	
		DRAWN BY: E.A.W.	JOHN F. SLIGER II, P.E. P.E. #55550
		CHECKED BY: C.M.C.	
		DESIGNED BY: D.M.	
		CHECKED BY: J.R.	
		DATE: 5/2/2012	

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
PROJECT NUMBER: 1004

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

PROJECT NAME:
LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL

SHEET NO. **20**

NOTES

1. Numbers left of borings indicate standard penetration test (SPT) N-values for 12 in. penetration in accordance with ASTM Standard D 6066
2. Water elevations shown represent the water elevations encountered, fluctuations in the elevations of the water should be expected.
3. 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.

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 or Compact	8 - 24	Firm	3 - 6
Dense	24 - 40	Stiff	6 - 12
Very Dense	Greater than 40	Very Stiff	12 - 24
		Hard	Greater than 24

SPLIT-SPOON:

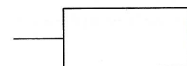
INSIDE DIAMETER: 1.4 in.
 OUTSIDE DIAMETER: 2.0 in.
 AVG. HAMMER DROP: 30.0 in.
 HAMMER WEIGHT: 14.0 lbs.
 HAMMER TYPE: AUTO HAMMER

LEGEND

LEVEL OF WATER AT
24 HOURS

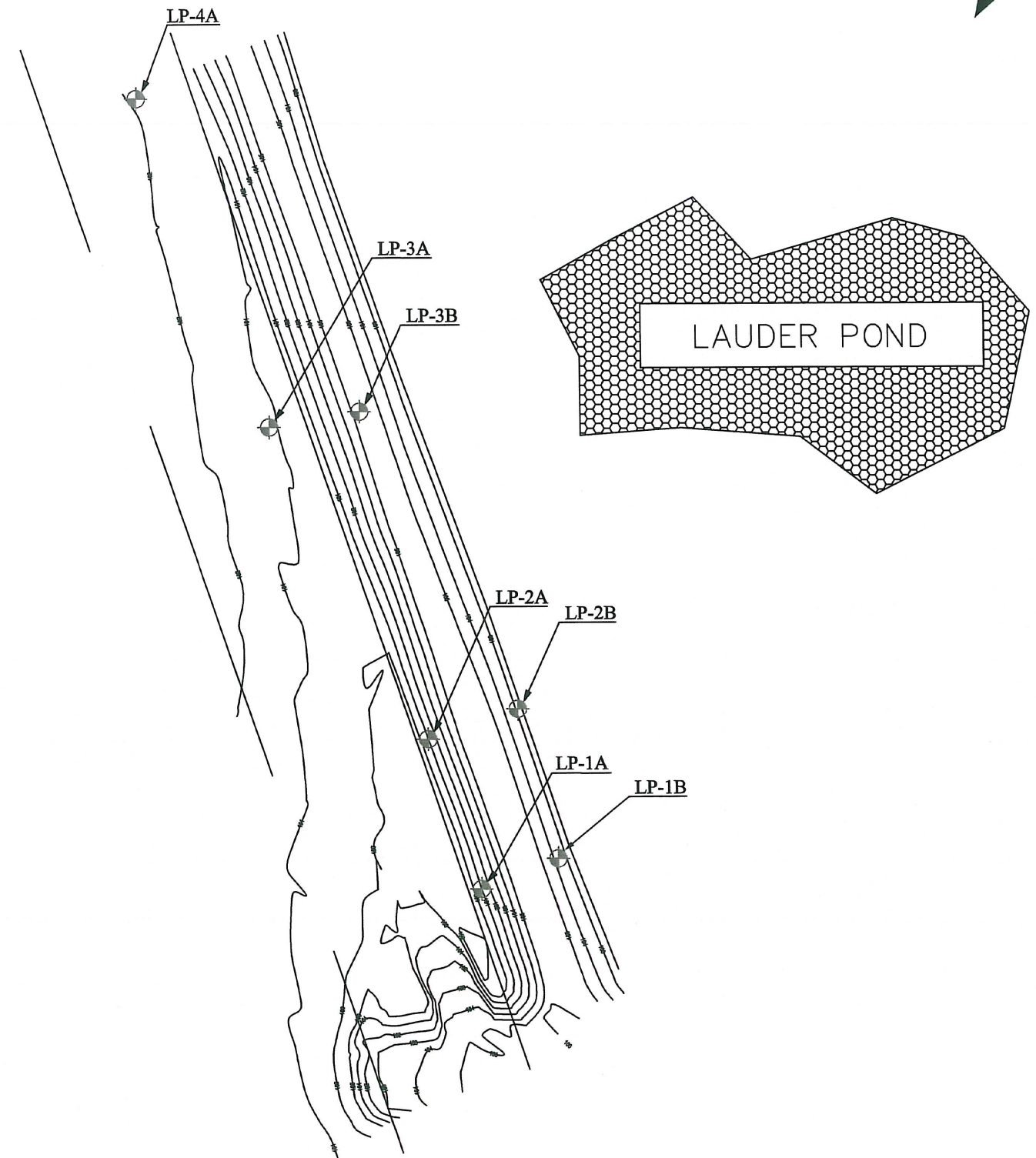
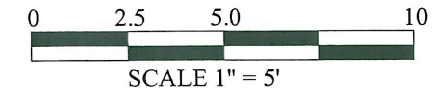


LABORATORY RESULTS

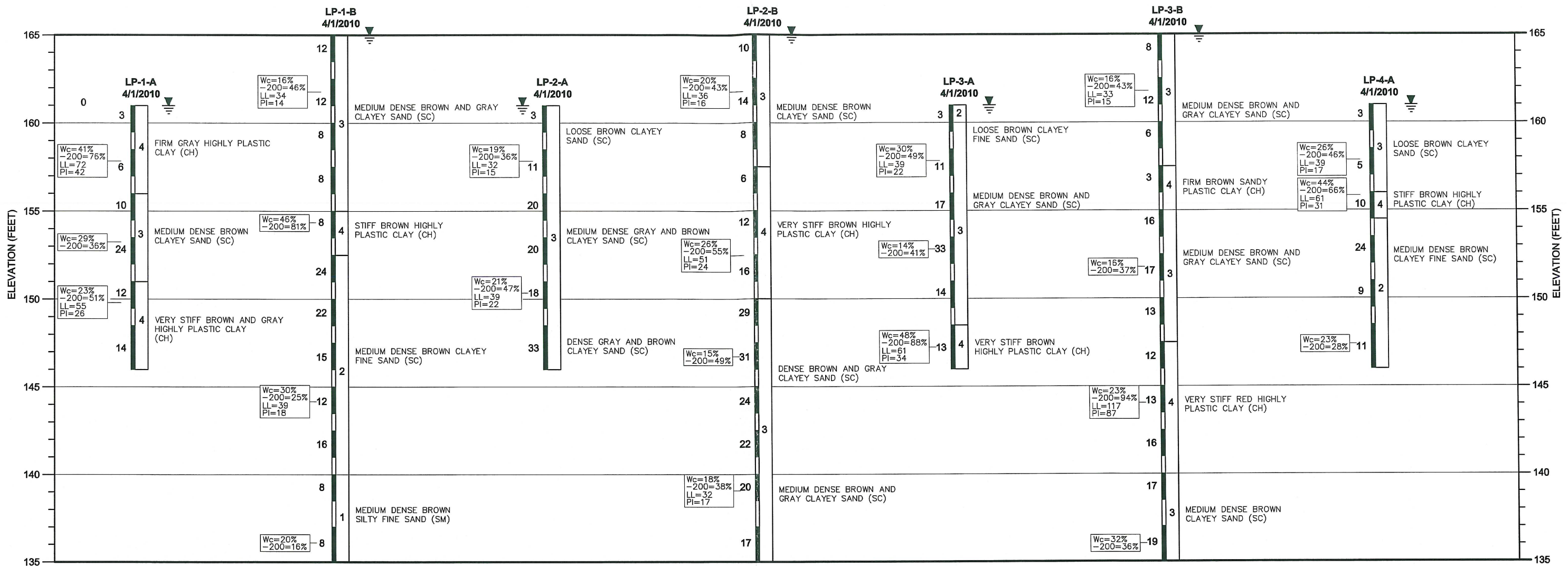


WATER CONTENT
 -200 MESH
 LIQUID LIMIT
 PLASTICITY INDEX
 STRATUM NUMBER

Wc=
 -200=
 LL=
 PI=
 |A|



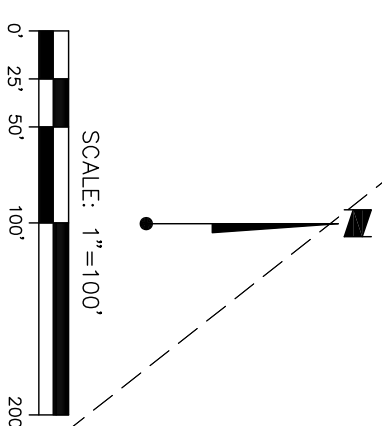
REVISIONS						SEAL:	Environmental & Geotechnical Specialists, Inc. EGS 3154 ELIZA ROAD TALLAHASSEE, FLORIDA 32308 OFFICE: (850) 386-1253 FAX: (850) 385-8050 Cert. of Auth.: 6222	LEON COUNTY		GEOTECHNICAL NOTE SHEET	SHEET NO. 21
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			PROJECT TITLE			
						MYRON L. HAYDEN, P.E. P.E. NO.: 34067	LAUDER POND EMBANKMENT SEEPAGE				



REPORT OF TESTS

STRATUM NO.	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASSING							PLASTICITY			CLASSIFICATION		DESCRIPTION	
	NO. OF TESTS	% ORGANIC	MOISTURE CONTENT (%)	NO. OF TESTS	4 MESH	10 MESH	20 MESH	40 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	UNIFIED GROUP	AASHTO GROUP	COLOR	MATERIAL
1	--	--	--	1	100	100	99	86	27	16	--	--	--	SM	A-2-4	BROWN	SILTY FINE SAND
2	--	--	--	3	100	100	88-99	55-91	25-31	23-28	1	39	18	SC	A-2-6	BROWN	CLAYEY FINE SAND
3	--	--	--	13	100	100	99-100	81-99	38-81	36-49	9	32-39	14-26	SC	A-6	BROWN GRAY	CLAYEY SAND
4	--	--	--	7	100	100	97-100	82-100	50-97	51-94	6	51-117	24-87	CH	A-7-6	BROWN GRAY	HIGHLY PLASTIC CLAY

REVISIONS					SEAL:		Environmental & Geotechnical Specialists, Inc.			LEON COUNTY		REPORT OF CORE BORINGS		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	MYRON L. HAYDEN, P.E.	EGS	3154 ELIZA ROAD TALLAHASSEE, FLORIDA 32308		PROJECT TITLE				22
								P.E. NO.: 34067	OFFICE: (850) 386-1253 FAX: (850) 385-8050		LAUDER POND EMBANKMENT SEEPAGE			

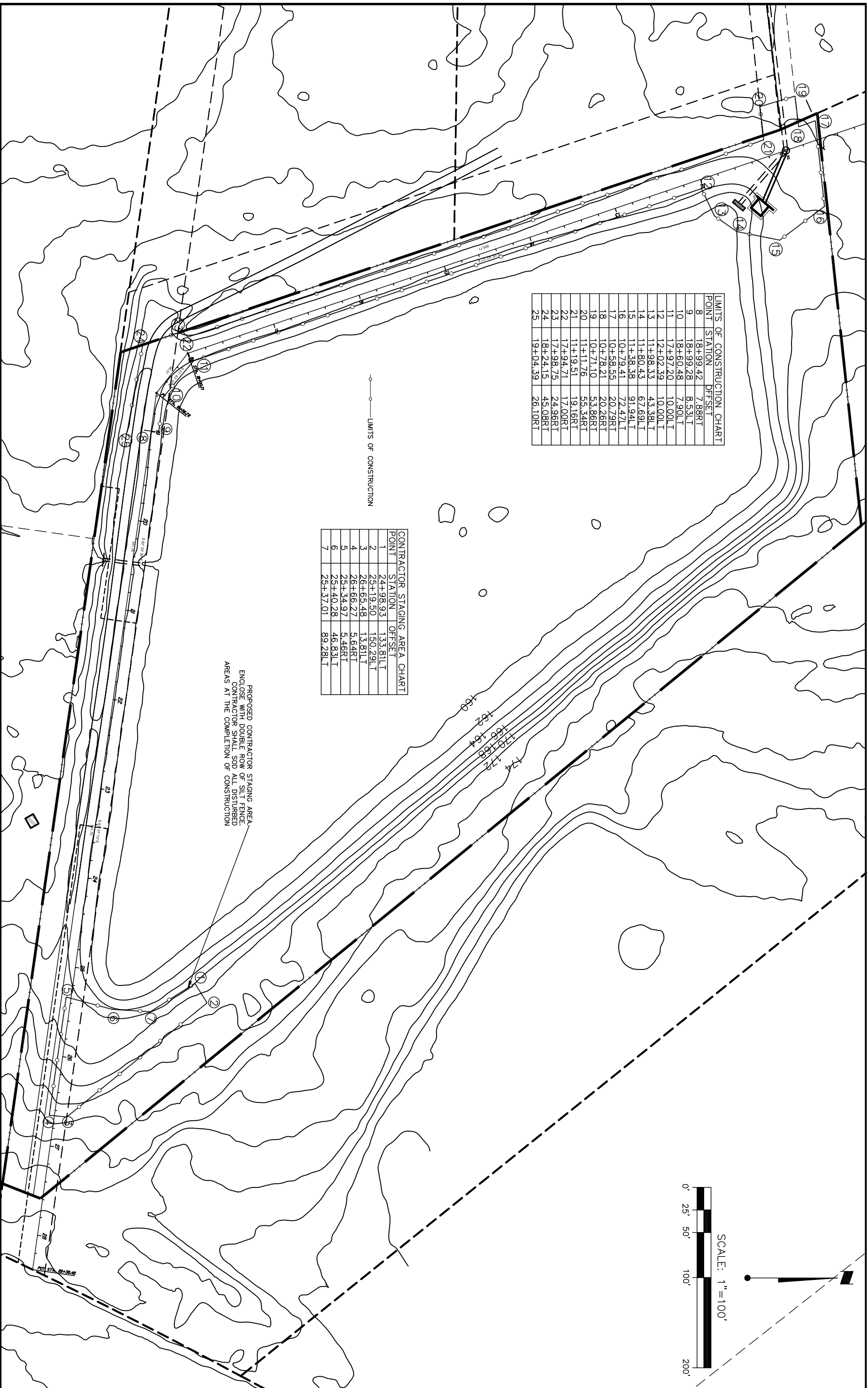


POINT	STATION	OFFSET
8	18+99.42	7.88RT
9	18+99.28	8.53LT
10	18+60.48	7.90LT
11	17+97.20	10.00LT
12	12+02.39	10.00LT
13	11+98.33	43.38LT
14	11+80.43	67.69LT
15	11+38.38	91.94LT
16	10+79.41	72.47LT
17	10+58.55	20.79RT
18	10+78.21	20.26RT
19	10+71.10	53.86RT
20	11+11.76	53.34RT
21	11+19.51	19.16RT
22	17+94.71	17.00RT
23	17+98.75	24.96RT
24	18+24.15	45.08RT
25	19+04.39	26.10RT

POINT	STATION	OFFSET
1	24+98.93	133.81LT
2	25+19.50	150.29LT
3	26+65.48	133.81LT
4	26+66.27	5.64RT
5	25+34.97	5.46RT
6	25+40.28	46.83LT
7	25+37.01	89.28LT

PROPOSED CONTRACTOR STAGING AREA
 ENCLOSE WITH DOUBLE ROW OF SILT FENCE.
 CONTRACTOR SHALL SOD ALL DISTURBED
 AREAS AT THE COMPLETION OF CONSTRUCTION

--- LIMITS OF CONSTRUCTION



DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
 JOHN F. SLIGER II, P.E.
 P.E. #55550

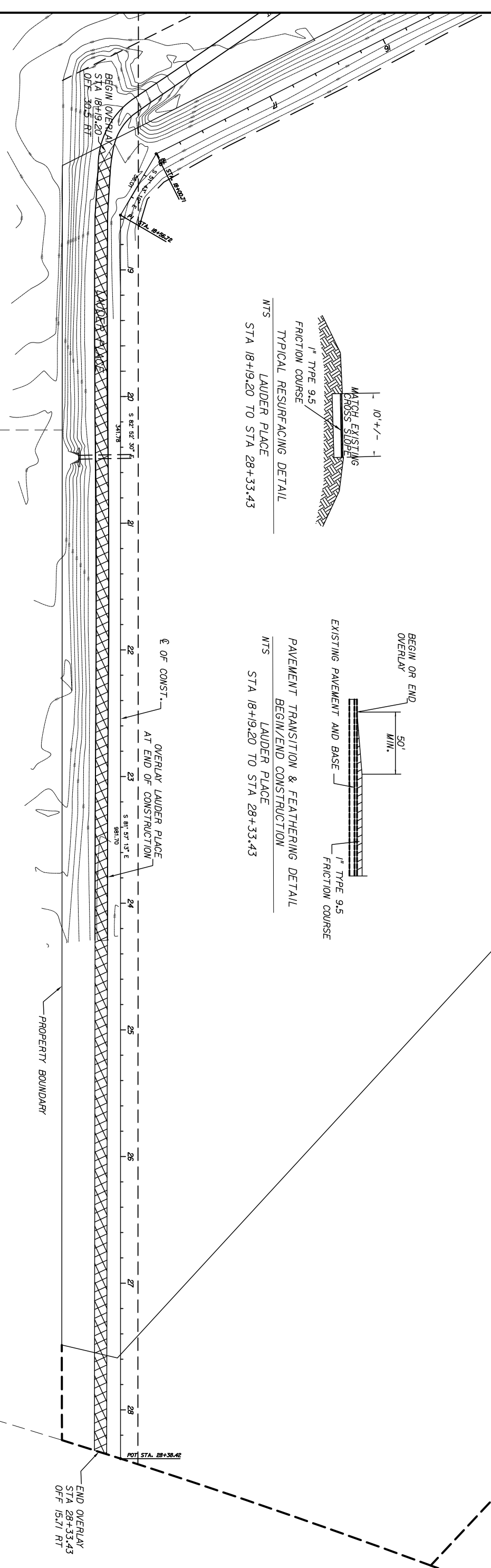
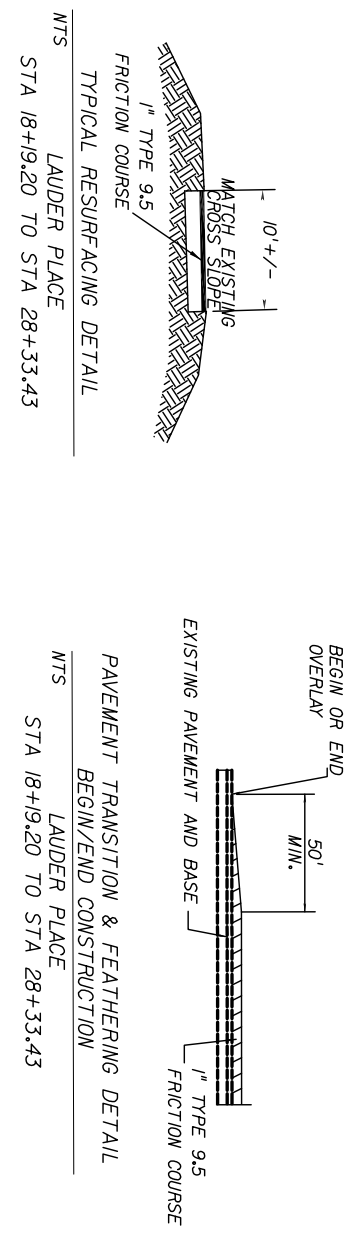
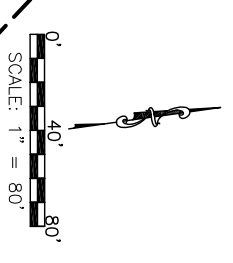


REGISTE, SLIGER ENGINEERING, INC.
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 CERT. OF AUTHORIZATION # 9292
 3370 CAPITAL CIRCLE NE, SUITE J
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 PHONE: (850) 894-4521 - FAX: (850) 224-0505
 PROJECT NUMBER: 1004



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

CONTRACTOR STAGING AREA &
 LIMITS OF CONSTRUCTION
 PROJECT NAME:
 LAUDER POND OUTFALL STRUCTURE
 IMPROVEMENTS AND SHEET PILE WALL
 SHEET NO.
 23



REVISIONS		DATE	BY	DESCRIPTION

DATE	CHECKED BY	DESIGN BY	DRAWN BY	INITIAL	ENGINEER OF RECORD:

<p>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 PROJECT NUMBER: 1004</p>	<p>LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308 PHONE (850) 606-1500 * FAX (850) 606-1501</p>
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<p>OVERLAY PLAN & DETAILS PROJECT NAME: LAUDER POND OUTFALL STRUCTURE IMPROVEMENTS AND SHEET PILE WALL</p>	<p>SHEET NO. 24</p>
--	---------------------------------

JOHN F. SLIGER II, P.E.
P.E. #55550