

**BOARD OF COUNTY COMMISSIONERS
LEON COUNTY**

DEPARTMENT OF DEVELOPMENT SUPPORT
AND ENVIRONMENTAL MANAGEMENT

SHARER ROAD OUTFALL IMPROVEMENTS

**ENVIRONMENTAL MANAGEMENT PERMIT
LEM 11-00066**

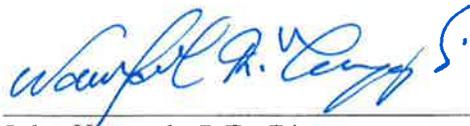
**-A Pre-Construction Conference with the County Environmental Inspector is Required-
(Contact Brian Lawrence @ 606-1356 or 544-0826)**

This environmental management permit authorizes construction of stormwater infrastructure within Leon County right-of-way (ROW) and Leon County acquired easements consistent with the following attachments and exhibits:

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

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

Approved By:



John Kraynak, P.E., Director
Environmental Compliance
CMS

10-10-11

Date

APPLICANT'S COPY

ATTACHMENT "A"
PERMIT CONDITIONS:
SHARER ROAD OUTFALL IMPROVEMENTS

GENERAL CONDITIONS:

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

10. *Continued responsibility under expired permit.* An expired permit shall not relieve the permittee from the responsibility of continued compliance with this permit and the Code. Where development has commenced and no final inspection completed before expiration of a permit, the permittee may be required to submit, and obtain the Director's approval of a new environmental management permit application or an application for amendment of the expired permit. As an option, the permittee may be required to complete and maintain the landscaping, trees, or stormwater management systems and facilities which were required by the expired permits, as necessary to prevent significant adverse environmental impacts as a result of development activity which has occurred on the site. **Reference Section 10-4.214(3).**
11. *Notice of transfer of permit.* No later than ten (10) days after the sale or legal transfer of property upon which a stormwater management facility has been, or is approved to be, constructed pursuant to a permit issued by the County, a notice of transfer of permit shall be submitted to the Director. The notice shall be made using a form provided by the Director. **Reference Section 10-4.214(5)(a).**
12. *Transfer liability.* Until a proper notice of permit transfer is provided to the Director, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions required as a result of any violations occurring prior to transfer. For facilities that have received final inspection approval prior to the time of legal transfer, the original permittee shall remain liable for performance of warranty obligations as set forth in **Section 4.208(d)** {f.k.a. 10-363(d)}, absent an express assumption of liability as to such warranty obligations by the subsequent holder of the property. **Reference Section 10-4.214(5)(b).**
13. *Amendments.* Any minor change or deviation from the approved plans shall require an amendment to this permit. Substantial changes, including significant increases in impervious area, changes in intended land use, modification of stormwater management system, new phases of development, or other additions, shall not be treated as amendments, but shall require a new permit application. **Reference Section 10-4.215.**
14. *During development.* All environmental management controls and facilities shall be maintained in a manner which will ensure proper functioning and protection from unnecessary environmental degradation, throughout the development process. **Reference Section 10-4.210(a).**
15. *Post-development.* Upon completion of development activities and construction, the permittee shall ensure that each site is properly stabilized, and that swales and other stormwater management features shown in the permit are in place in a manner consistent with the permit, approved plans and specifications. **Reference Section 10-4.210(b).**
16. *Post-construction inspection.* Prior to requesting a final inspection by the Director, the permittee shall have a qualified professional to personally inspect the site and facilities and certify as provided for in **Section 10-4.208(b).**

SPECIFIC CONDITIONS:

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

8. *System Evaluation & Redesign.* At any time, should the County determine that the stormwater management system, stormwater pollution prevention plan, landscape plan, or any maintenance program is not functioning as designed, the County may request a system evaluation to determine compliance. The Permittee shall have thirty (30) days to evaluate the discrepancy and respond. Should the Permittee verify that a discrepancy exists, then the Permittee shall have sixty (60) days to redesign and implement the appropriate redesign necessary to correct the discrepancy. This process does not apply to any event of noncompliance with the permit and approved plans, in which case the enforcement provisions of the Environmental Management Act shall apply.
9. *Intergovernmental Transfer.* If at any time, the City of Tallahassee (the "City") annexes the permitted development into its corporate boundary, then this permit shall be transferred to the City with all provisions fully enforceable by the City. The City shall assume the role of the County in each provision of this permit.
10. *Termination of Permit.* The requirements, responsibilities and obligations of the Permittee in the General Conditions, Specific Conditions, and Special Conditions shall never expire with this permit. The Permittee may terminate such requirements, responsibilities and obligations either by an appropriate transfer as prescribed in Paragraph 12 of the General Conditions or by closing the development in a manner guaranteeing the preservation of natural areas, conservation easement areas, and/or other protected areas. Such closure shall require the submittal and approval of a short form environmental management permit which states appropriate plans to close the project in manner that will ensure compliance with the Environmental Management Act upon and after termination of responsibility. **Reference Section 10-4.214(1)(c).**
11. *Other Permits.* This permit is issued with the condition that the applicant procure and comply with all other necessary federal, state, and local agency permits, including but not limited to the Florida Department of Environmental Protection (FDEP) permit, Florida Department of Transportation (FDOT) drainage and/or access connection permits, NPDES permit and Leon County driveway connection permit. These permits must be provided prior to the start of construction. **Reference Section 10-4.201(f).**
12. *Construction Sequence.* All stormwater facilities shall be constructed and functioning prior to any clearing (with the exception of clearing for the stormwater ponds), and prior to the start of the building construction, roadway construction or any other development activity as defined in the Environmental Management Act. Phased stormwater facility construction may be allowed with prior written consent by the Director provided that each phase is fully sustainable, meets the applicable stormwater standards and provides no adverse downstream impacts. This condition supersedes any other permit conditions and plans related to this topic. In the event of a conflict between this condition and any other condition in the permit or plans, this condition will overrule.

SPECIAL CONDITIONS:

As shown in Exhibit "A" (the permit plan set), this permit covers environmental review for construction of stormwater infrastructure within Leon County right-of-way (ROW) and Leon County acquired easements.

1. As used herein, the term "permittee" shall refer to the Leon County Public Works Department. The permittee shall ensure that all contractors and other agents authorized by the permittee to conduct the permitted development activities abide by the terms and conditions of this permit.
2. The permittee or permittee's authorized agent shall contact the County Environmental Inspector to arrange a pre-construction conference. The County Environmental Inspector for this project will be Mr. Brian Lawrence who may be contacted at (850) 606-1356 (cell phone 544-0826).
3. **As specified in General Note 1 of Sheet 3 of the permit plan set, project staging activity in areas outside of the county right-of way and defined project area may require a separate environmental management permit from Leon County Development Support and Environmental Management (LCDSEM). LCDSEM should be contacted regarding any proposed staging activity outside of the project area prior to construction commencement.**
4. **Consistent with Construction Sequence Note 9 of Sheet 3 of the permit plan set, the contractor shall demonstrate to the County Environmental Inspector during the pre-construction conference that Leon County Public Works has approved the traffic control plan for the project.**
5. **A certified tree arborist shall oversee/implement necessary tree mitigation measures within the critical root protection zone of the 45" oaks before starting construction.**
6. Additional silt fences or other sediment/erosion control devices and measures may be required during project construction, as specified by the County Environmental Inspector.
7. During the pre-construction conference, and prior to commencement of construction, copies of permits from other agencies as required (example FDOT, NFWMD, etc.) shall be submitted to the environmental inspector.
8. Sediment control measures shall be sufficient to prevent the tracking or direct flow of mud and sediments onto the public streets or drainage ditches. Any sediments or mud spilled, dropped, washed, or tracked from any vehicles onto the public streets or into the public drainage system shall be recovered and cleaned-up immediately.
9. **Payment into the Leon County Tree Bank to mitigate the removal of protected trees associated with the project shall be completed no later than the time of as-built submittal.**
10. Notwithstanding the general and specific conditions contained in this permit, this project will require submittal of as-built plans (record drawings) and an engineering compliance statement (from professional engineer) for the stormwater improvements. These should be submitted to the Director at least 20 days prior to the permittee/applicant's request for final inspection. All landscaping/stabilization shall be completed prior to final inspection.

SHARER ROAD OUTFALL STABILIZATION PROJECT

COMMISSIONERS

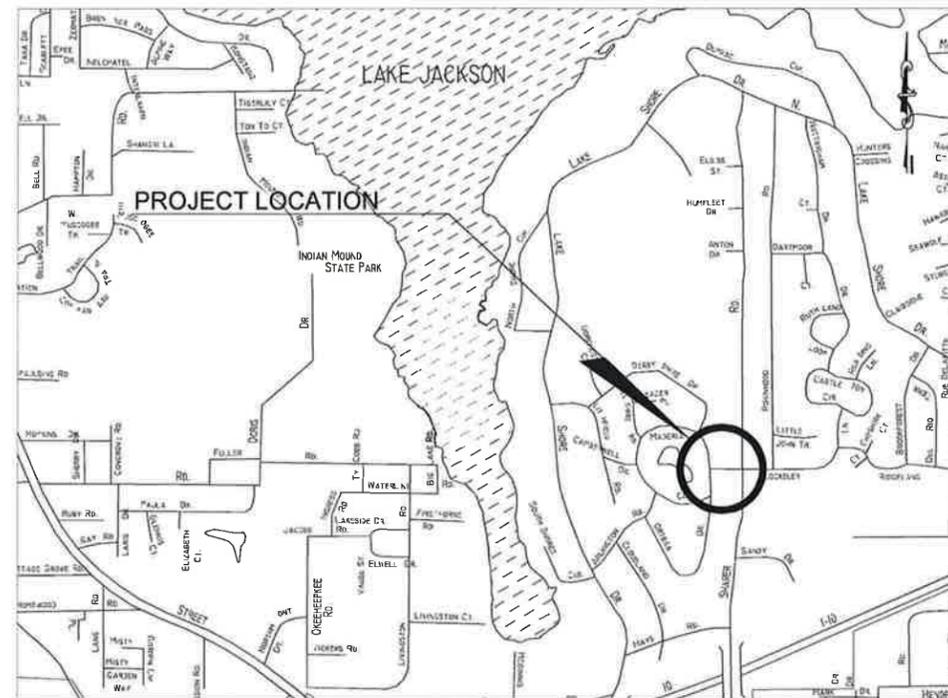
- BILL PROCTOR DISTRICT 1
- JANE G. SAULS DISTRICT 2
- JOHN E. DAILEY DISTRICT 3
- BRYAN DESLOGE DISTRICT 4
- KRISTIN DOZIER DISTRICT 5
- NICK MADDOX AT-LARGE
- AKIN AKINYEMI AT-LARGE



VINCENT S. LONG
COUNTY ADMINISTRATOR
HERBERT W. A. THIELE
COUNTY ATTORNEY
KATHERINE G. BURKE, P.E.
DIRECTOR OF ENGINEERING SERVICES

PLANS INDEX

SHEET #	SHEET DESCRIPTION
1	COVER SHEET
2	BASIN MAP
3	GENERAL NOTES AND EROSION CONTROL
4	OVERALL EXISTING CONDITIONS
5	EXISTING CONDITIONS
6	NATURAL FEATURES MAP
7	TREE PROTECTION AND EROSION CONTROL PLAN
8	DEMOLITION PLAN
9	PLAN & PROFILE - STA 0+00 TO 5+00
10	PLAN & PROFILE - STA 5+00 TO 9+00
11	DRAINAGE PLAN AND DETAILS
12	GRADING PLAN
13	DETAILS
14	CROSS SECTIONS - STA: 1+00 TO 4+80
15	CROSS SECTIONS - STA: 5+00 TO 8+60



LOCATION MAP

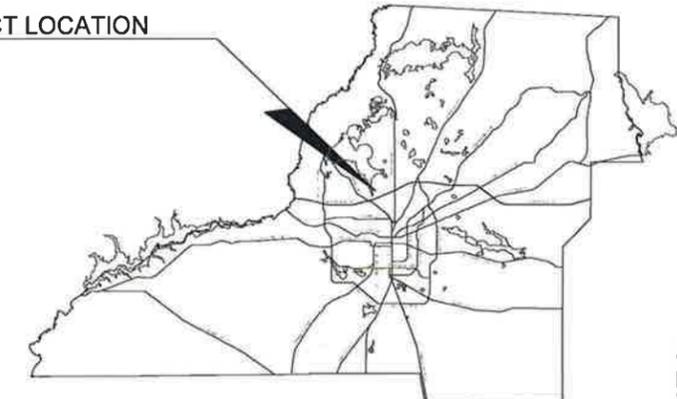
LEON COUNTY
 Department of Public Works
 Division of Engineering Services
 Public Works Center
 2280 Miccosukee Road, Tallahassee, FL 32308-5310
 Ph: (850)606-1500 Fax: (850)606-1501
 Web: <http://www.leoncountyfl.gov>

PLANS PREPARED BY:



1625 Summit Lake Drive, Suite 200
 Tallahassee, Florida 32317
 Phone: (850) 574-3197
 Certificate of Authorization # 000002

PROJECT LOCATION



VICINITY MAP

EXHIBIT A

APPLICANT'S COPY

GENERAL LEGEND	
---	EXISTING BURIED TELEPHONE WIRE
---	EXISTING OVERHEAD WIRE
---	EXISTING FENCE
---	EXISTING WATER LINE
---	PROPOSED CONTOUR
---	EXISTING CONTOUR
---	EXISTING GAS MAIN
---	EXISTING SANITARY SEWER
---	PROPERTY LINE
---	RIGHT-OF-WAY
---	EASEMENT
---	DRAINAGE BASIN
---	LIMITS OF WETLAND
---	SILT FENCE
---	EXISTING TREES
---	RFB = REBAR FOUND
---	OPF = OPEN PIPE FOUND
---	FCM = FOUND CONCRETE MONUMENT
---	BM = BENCHMARK AS NOTED
---	WV = WATER VALVE
---	GV = GAS VALVE
---	EXISTING POWER POLE
---	LP = LIGHT POLE
---	WATER METER
---	WETLAND MARKER
---	FCM = FOUND CONCRETE MONUMENT
---	FIP = FOUND IRON PIPE
---	R.O.W. = RIGHT OF WAY
---	L = ARC LENGTH
---	CH = CHORD
---	(P) = PER PLAT PROVIDED BY CLIENT
---	(D) = PER DEED PROVIDED BY CLIENT
---	(M) = AS MEASURED
---	FFE = FINISHED FLOOR ELEVATION
---	INV = INVERT ELEVATION
---	RCP = REINFORCED CONCRETE PIPE
---	EL = ELEVATION
---	EXIST = EXISTING
---	CMP = CORRUGATED METAL PIPE
---	UE = UNDERGROUND ELECTRIC
---	OH = OVERHEAD ELECTRIC
---	CONC = CONCRETE
---	C.O.T. = CITY OF TALLAHASSEE (TYP) = TYPICAL
---	CMP = CORRUGATED METAL PIPE
---	WP = WATER MAIN
---	PE = POLYETHYLENE PIPE
---	OR = OFFICIAL RECORD
---	PG = PAGE
---	ROW (R/W) = RIGHT OF WAY
---	(S-1) STRUCTURE NO.
---	PROPOSED CONCRETE
---	PROPOSED ASPHALT
---	PROPOSED BERM

GOVERNING STANDARDS AND SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS
 DATED JANUARY 2010, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
 CONSTRUCTION DATED 2010, AS AMENDED BY CONTRACT DOCUMENTS.

VERTICAL DATUM: NAVD88

REVISIONS			
NO	DESCRIPTION	BY	DATE

APPROVED *Wayne G. Long* JPK

PERMIT # LEM11-00066

DATE 10-10-2011

Special Conditions Exist For This Permit. Refer to Exhibit's:
SEE ATTACHMENT A

CMS

FOR CONSTRUCTION

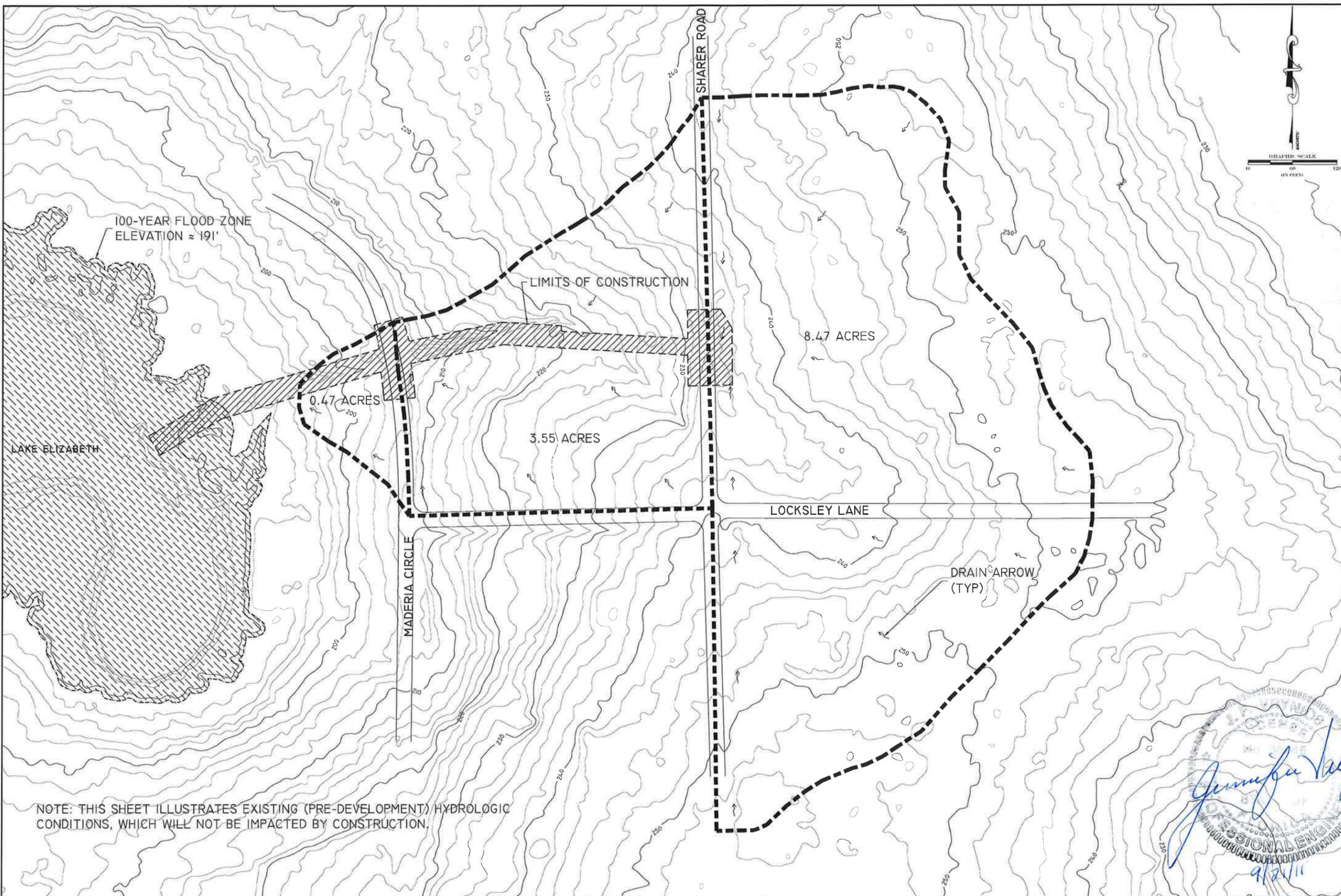
ENGINEER OF RECORD:

Jennifer F. Vrynios
 JENNIFER F. VRYNIOS, P.E.
 Florida P.E. Registration No. 66045

Date: 09/12/11

SHARER ROAD OUTFALL STABILIZATION PROJECT

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100-YEAR FLOOD ZONE
ELEVATION ≈ 191'

LIMITS OF CONSTRUCTION

0.47 ACRES

3.55 ACRES

8.47 ACRES

LAKE ELIZABETH

MADERIA CIRCLE

SHARER ROAD

LOCKSLEY LANE

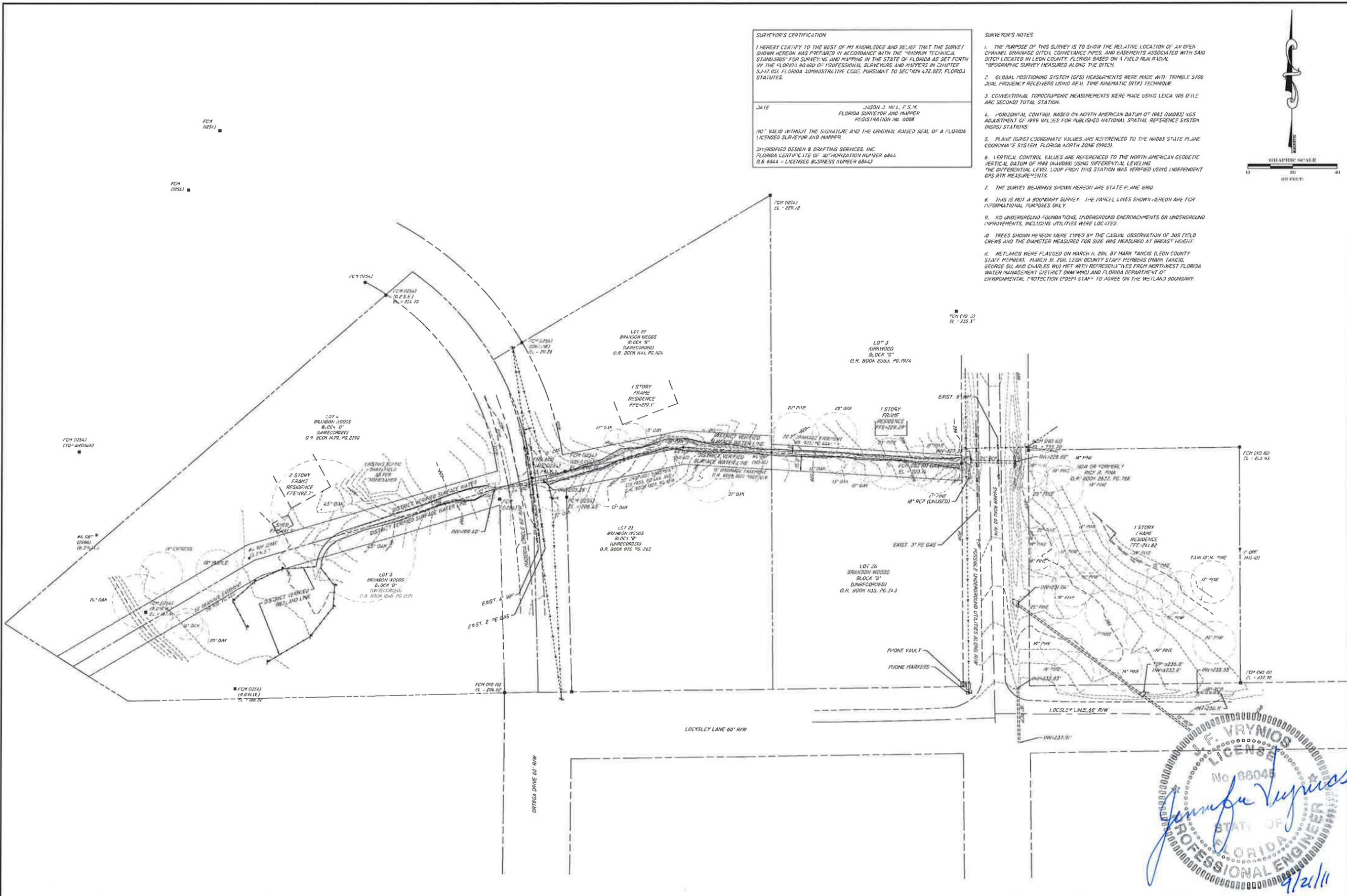
DRAIN ARROW
(TYP)

NOTE: THIS SHEET ILLUSTRATES EXISTING (PRE-DEVELOPMENT) HYDROLOGIC CONDITIONS, WHICH WILL NOT BE IMPACTED BY CONSTRUCTION.



1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 PH: (850) 574-3197 FAX: (850) 402-6490 CERTIFICATE OF AUTHORIZATION # 000002	
PROJECT NAME SHARER ROAD OUTFALL STABILIZATION PROJECT	CLIENT NAME LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS
DATE: 09/12/11	DESIGN: ATC
DRAWN: ATC	CHECKED: GEM
PROJECT #: 12806067	DATE: 9/21/11
E.O.R. JENNIFER F. VRYNIOS FL REG # 66045 SHEET TITLE BASIN MAP SHEET NUMBER 2 OF 15	

L:\CIVIL GROUP\Drawings\Sharer Road\Drawings\Sheets\Existing Conditions DWG - SEP 21, 2011 - II.LB.25AM, ADAM COLLINS



SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE SURVEY SHOWN HEREON WAS PREPARED IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS FOR SURVEYING AND MAPPING IN THE STATE OF FLORIDA AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER S.417, D.S.I. FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE: JASON J. MILL, P.S.M.
FLORIDA SURVEYOR AND MAPPER
REGISTRATION NO. 6008

NO VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DIVERSIFIED DESIGN & DRAFTING SERVICES, INC.
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 0844
(I.B. 6844 = LICENSED BUSINESS NUMBER 6844)

- SURVEYOR'S NOTES:**
- THE PURPOSE OF THIS SURVEY IS TO SHOW THE RELATIVE LOCATION OF AN OPEN CHANNEL, DRAINAGE DITCH, CONVEYANCE PIPES, AND EASEMENTS ASSOCIATED WITH SAID DITCH LOCATED IN LEON COUNTY, FLORIDA BASED ON A FIELD RUN TO-DIAL TOPOGRAPHIC SURVEY MEASURED ALONG THE DITCH.
 - GLOBAL POSITIONING SYSTEM (GPS) MEASUREMENTS WERE MADE WITH TRIMBLE 5700 DUAL FREQUENCY RECEIVERS USING REAL TIME KINEMATIC (RTK) TECHNIQUE.
 - CONVENTIONAL TOPOGRAPHIC MEASUREMENTS WERE MADE USING LEICA IRS (FILE ARC SECOND) TOTAL STATION.
 - HORIZONTAL CONTROL BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83) NGS ADJUSTMENT OF 1999 VALUES FOR PUBLISHED NATIONAL SPATIAL REFERENCE SYSTEM (NRS) STATIONS.
 - PLANE (GRID) COORDINATE VALUES ARE REFERENCED TO THE NAD83 STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE (0903).
 - VERTICAL CONTROL VALUES ARE REFERENCED TO THE NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988 (NAVD88) USING DIFFERENTIAL LEVELING. THE DIFFERENTIAL LEVEL LOOP FROM THIS STATION WAS VERIFIED USING INDEPENDENT GPS RTK MEASUREMENTS.
 - THE SURVEY BEARINGS SHOWN HEREON ARE STATE PLANE GRID.
 - THIS IS NOT A BOUNDARY SURVEY. THE PARCEL LINES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY.
 - NO UNDERGROUND FOUNDATIONS, UNDERGROUND ENCROACHMENTS OR UNDERGROUND IMPROVEMENTS, INCLUDING UTILITIES WERE LOCATED.
 - TREES SHOWN HEREON WERE TYPED BY THE CASUAL OBSERVATION OF JMS FIELD CREWS AND THE DIAMETER MEASURED FOR SIZE WAS MEASURED AT BREAST HEIGHT.
 - WETLANDS WERE FLAGGED ON MARCH 11, 2011, BY MARK TANCIG (LEON COUNTY STAFF MEMBER), MARCH 31, 2011, LEON COUNTY STAFF MEMBERS (MARK TANCIG, GEORGE SU, AND CHARLES WU) MET WITH REPRESENTATIVES FROM NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NFWMD) AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STAFF TO AGREE ON THE WETLAND BOUNDARY.



PROJECT NAME SHARER ROAD OUTFALL STABILIZATION PROJECT		CLIENT NAME LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS	
DATE:	09/12/11	DESIGN:	ATC
DRAWN:	ATC	CHECKED:	GEM
PROJECT #:	12806047	PROJECT:	JFV
E.O.R.	JENNIFER F. VRYNIOS	FL. REG #:	66045
SHEET TITLE:	OVERALL EXISTING CONDITIONS		
SHEET NUMBER:	4 OF 15		



DESCRIPTION OF REVISION

DATE

BY

REV

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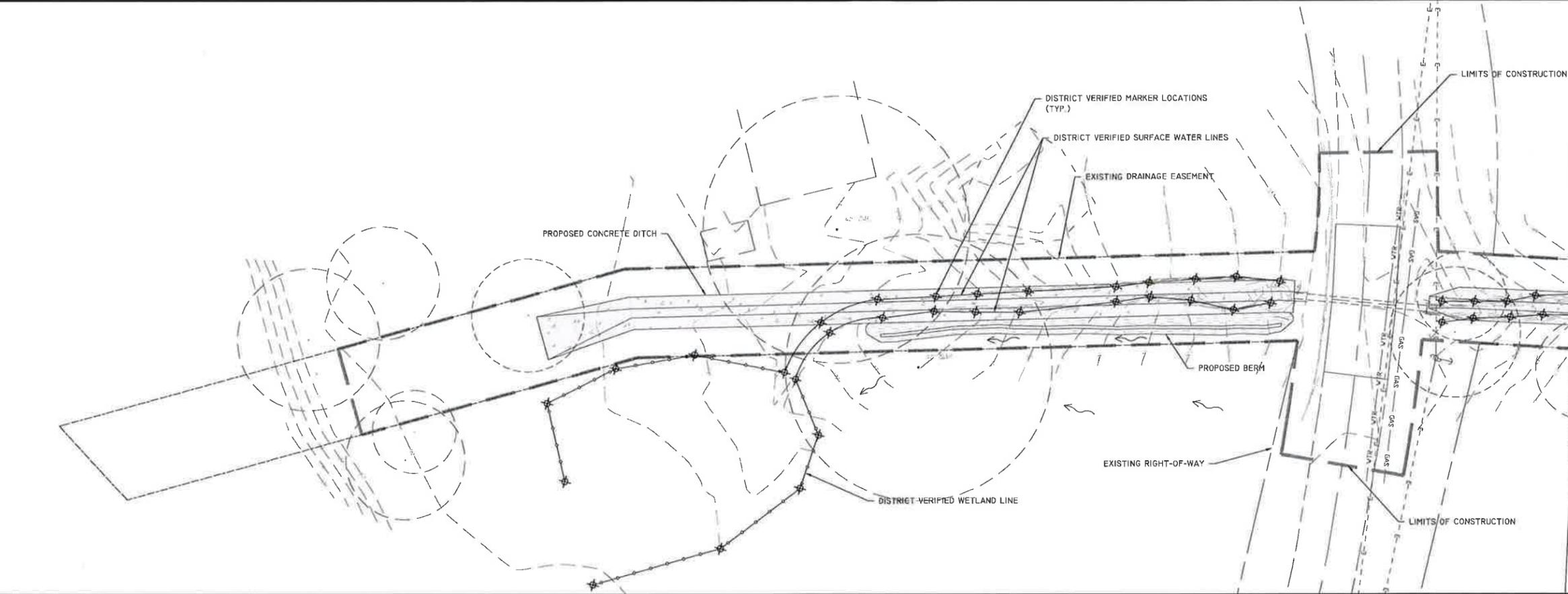
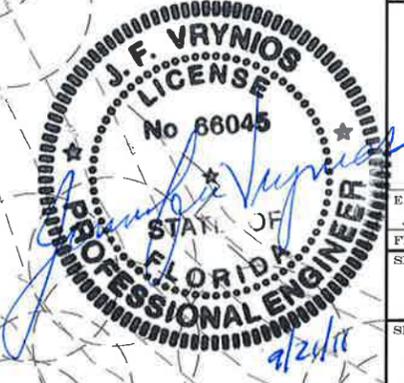
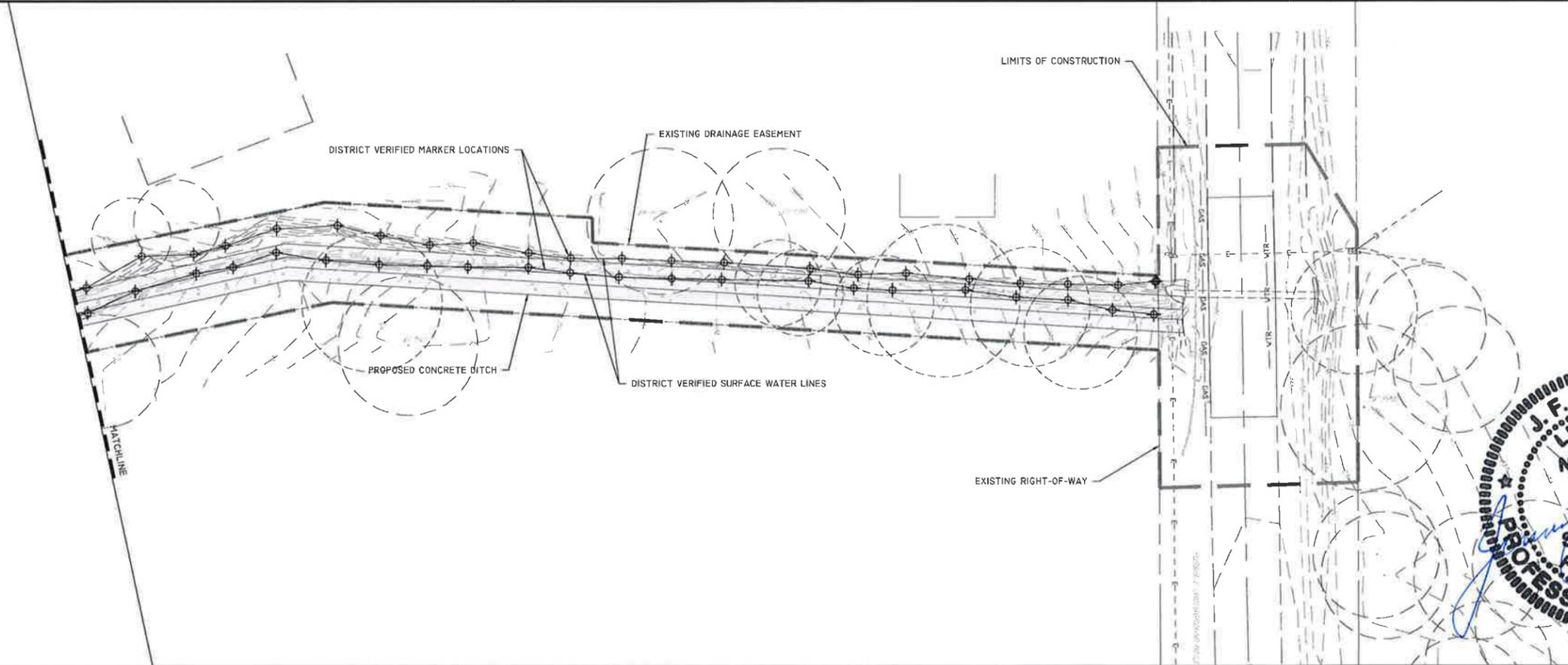
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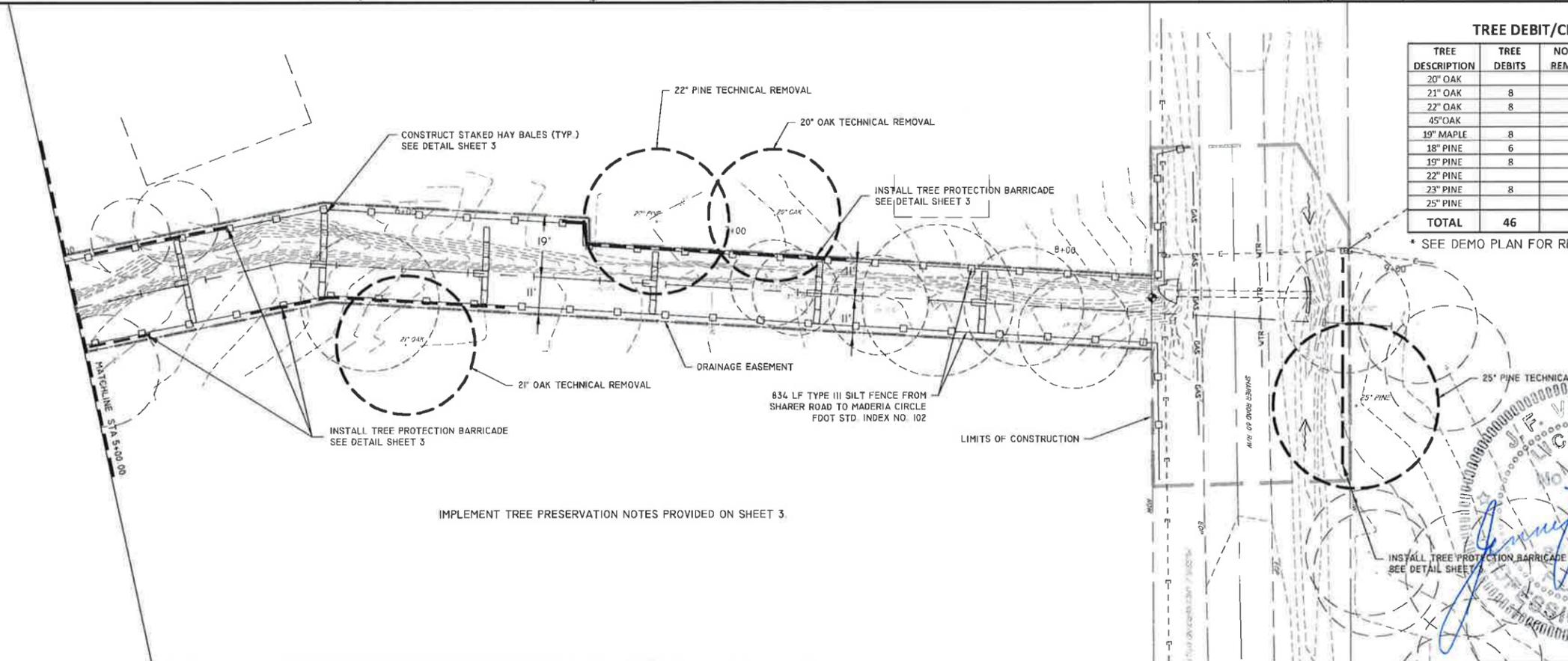
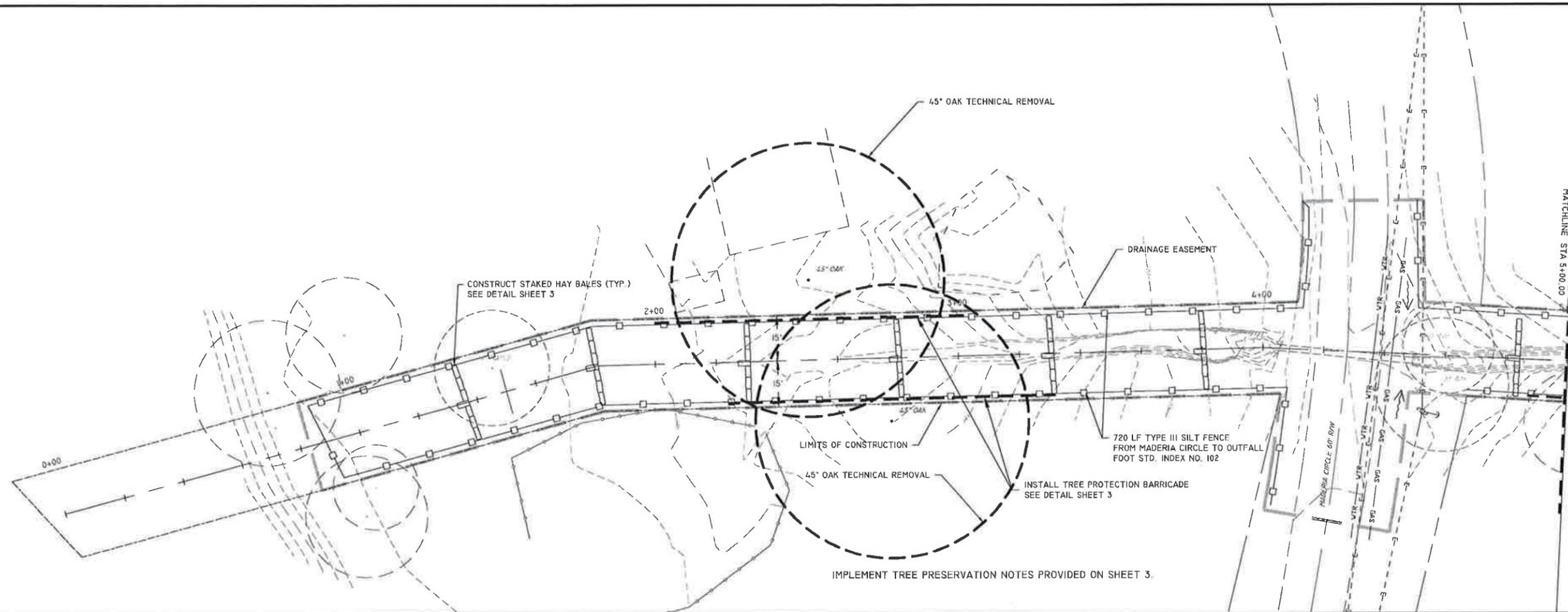
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L:\CIVIL\GROUP\DRAWINGS\SHARER ROAD\DWG\SHEET 05\NATURAL FEATURES MAP.DWG - SEP 21, 2011 - 11:49:42AM, ADAM COLLINS



URS 1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 PH: (850) 574-3197 FAX: (850) 402-6490 CERTIFICATE OF AUTHORIZATION # 000002																					
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E.O.R. JENNIFER F. VRYNIOS FL REG # 66045	SHEET TITLE NATURAL FEATURES MAP																				
SHEET NUMBER 6 OF 15	REVISIONS <table border="1"> <tr><th>NO.</th><th>DATE</th><th>BY</th><th>DESCRIPTION OF REVISION</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	BY	DESCRIPTION OF REVISION																
NO.	DATE	BY	DESCRIPTION OF REVISION																		

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TREE DEBIT/CREDIT TABLE

TREE DESCRIPTION	TREE DEBITS	NO. TECH. REMOVALS	NO. TO REMOVE	TREE CREDITS
20" OAK		1		
21" OAK	8	1	1	
22" OAK	8		1	
45" OAK		2		
19" MAPLE	8		1	
18" PINE	6		1	
19" PINE	8		1	
22" PINE		1		
23" PINE	8		1	
25" PINE		1		
TOTAL	46	6	6	0

* SEE DEMO PLAN FOR REMOVED TREES

Professional Engineer Seal for Jennifer F. Vryniotis, State of Florida, License No. 66045. Includes a signature and date stamp: 9/21/11.

NO.	DATE	BY	REV	DESCRIPTION OF REVISION

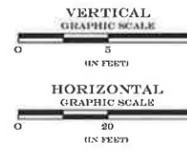
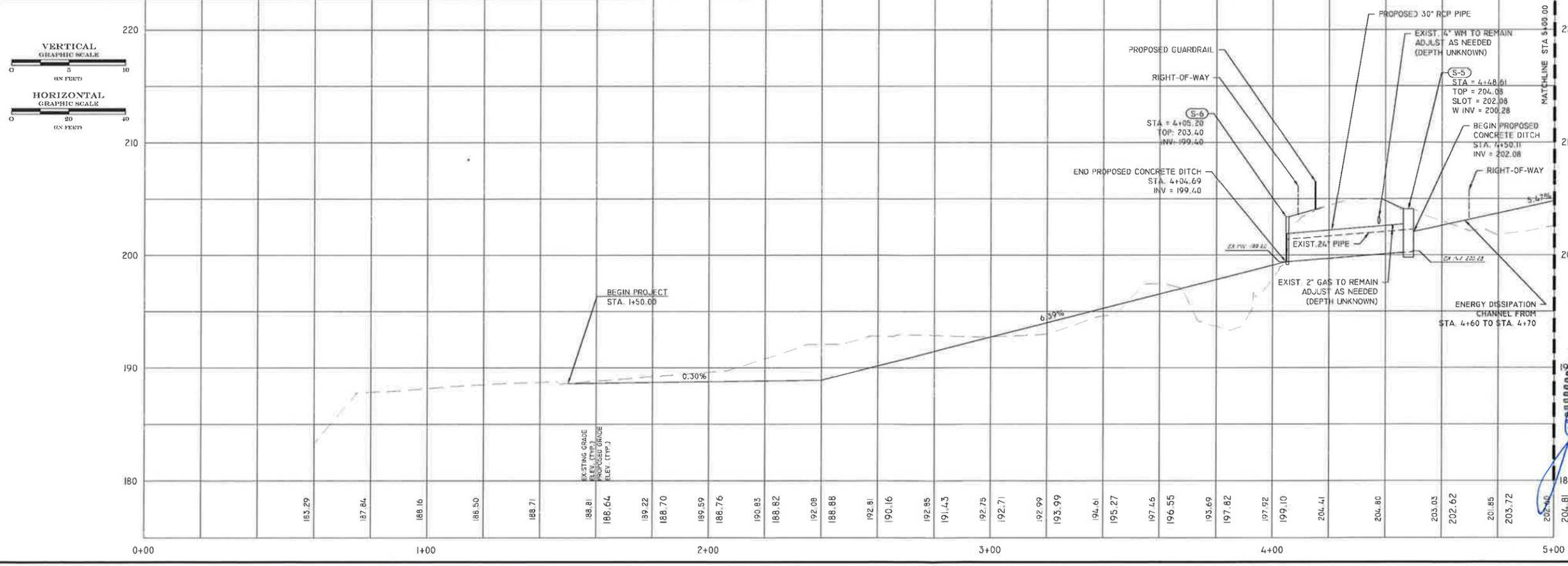
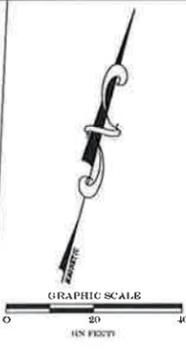
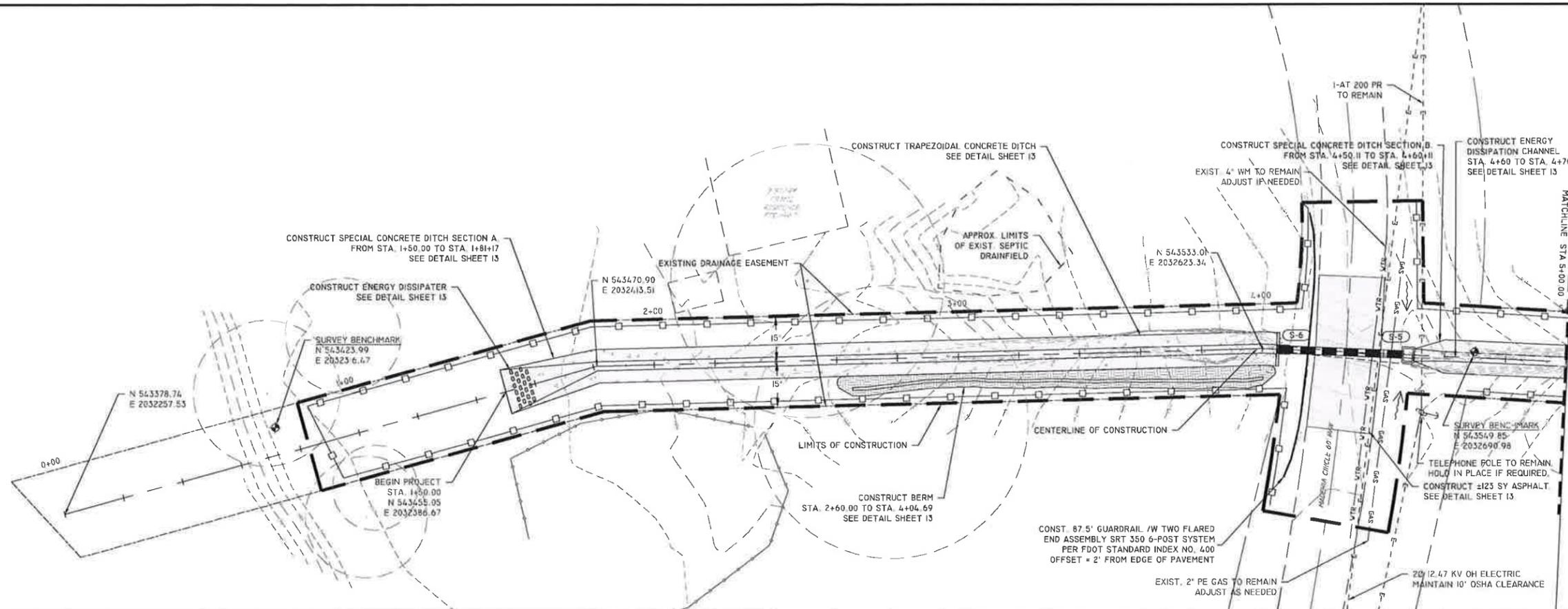
URS
 1625 SUMMIT LAKE DRIVE
 TALLAHASSEE, FL 32317
 PH: (850) 574-3197 FAX: (850) 402-6490
 CERTIFICATE OF AUTHORIZATION # 000002

PROJECT NAME: SHARER ROAD OUTFALL STABILIZATION PROJECT
 CLIENT NAME: LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS

DATE:	09/12/11
DESIGN:	ATC
DRAWN:	ATC
CHECKED:	GEM
PROJECT #:	12806067

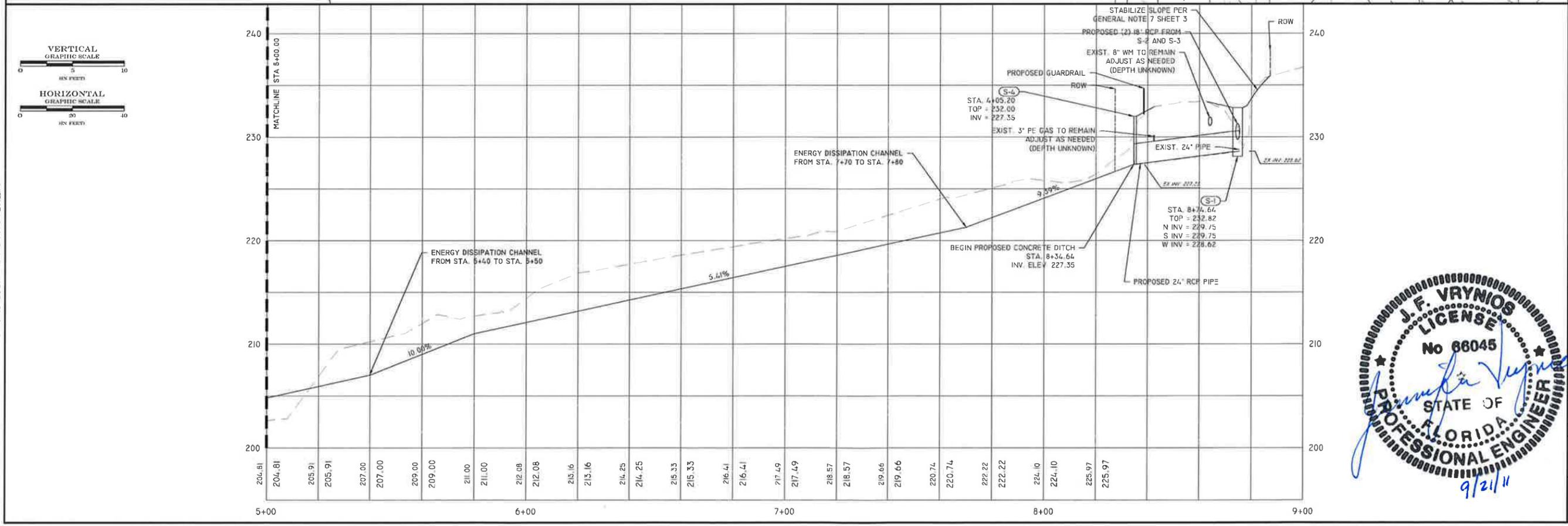
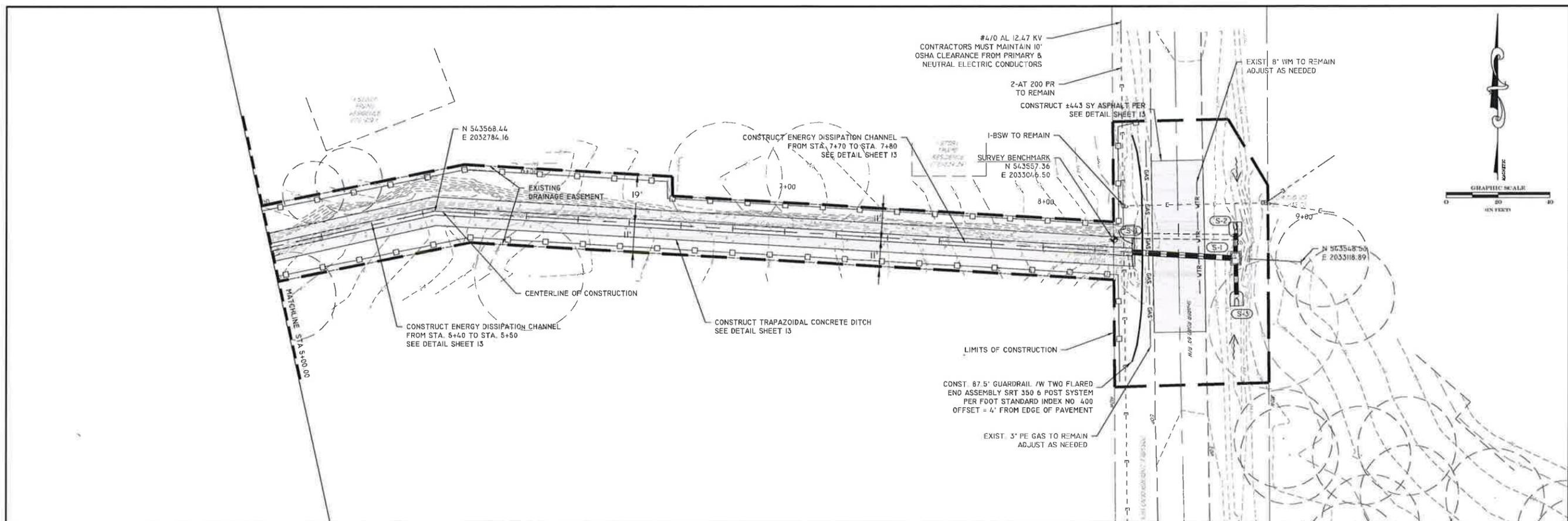
E.O.R.
 JENNIFER F. VRYNIOTIS
 FL REG # 66045
 SHEET TITLE: TREE PROTECTION AND EROSION CONTROL PLAN
 SHEET NUMBER: 7 OF 15

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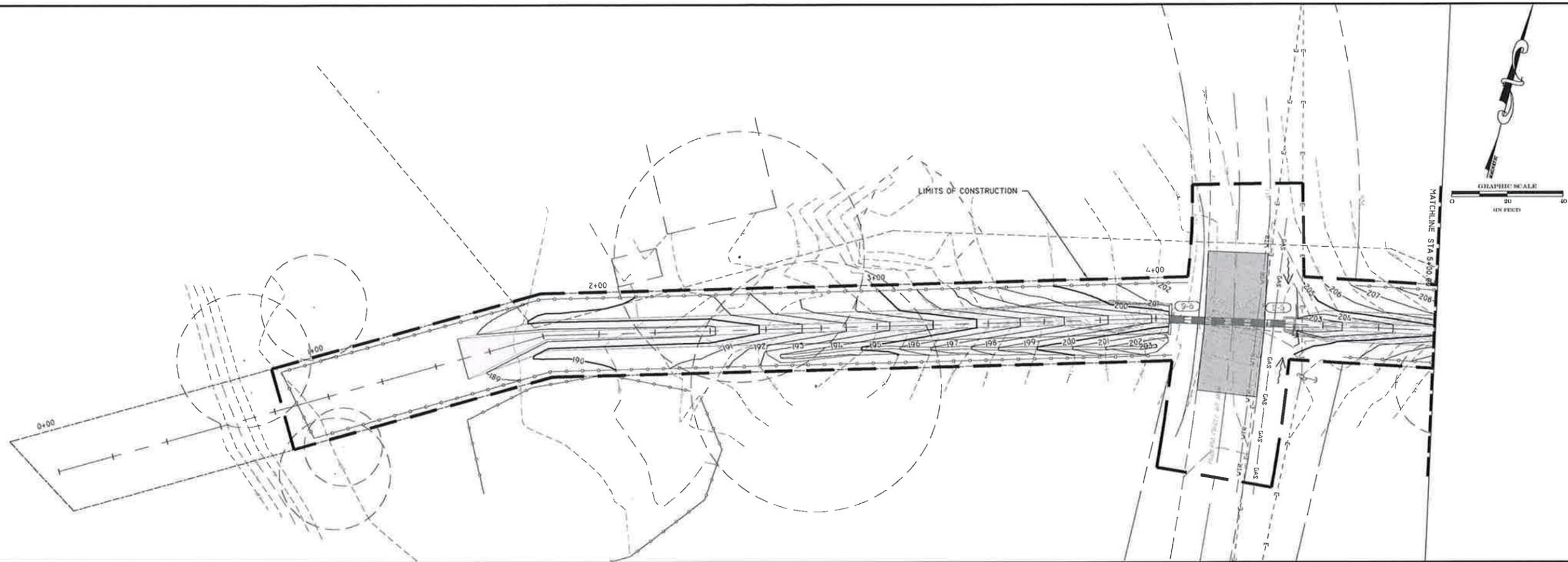
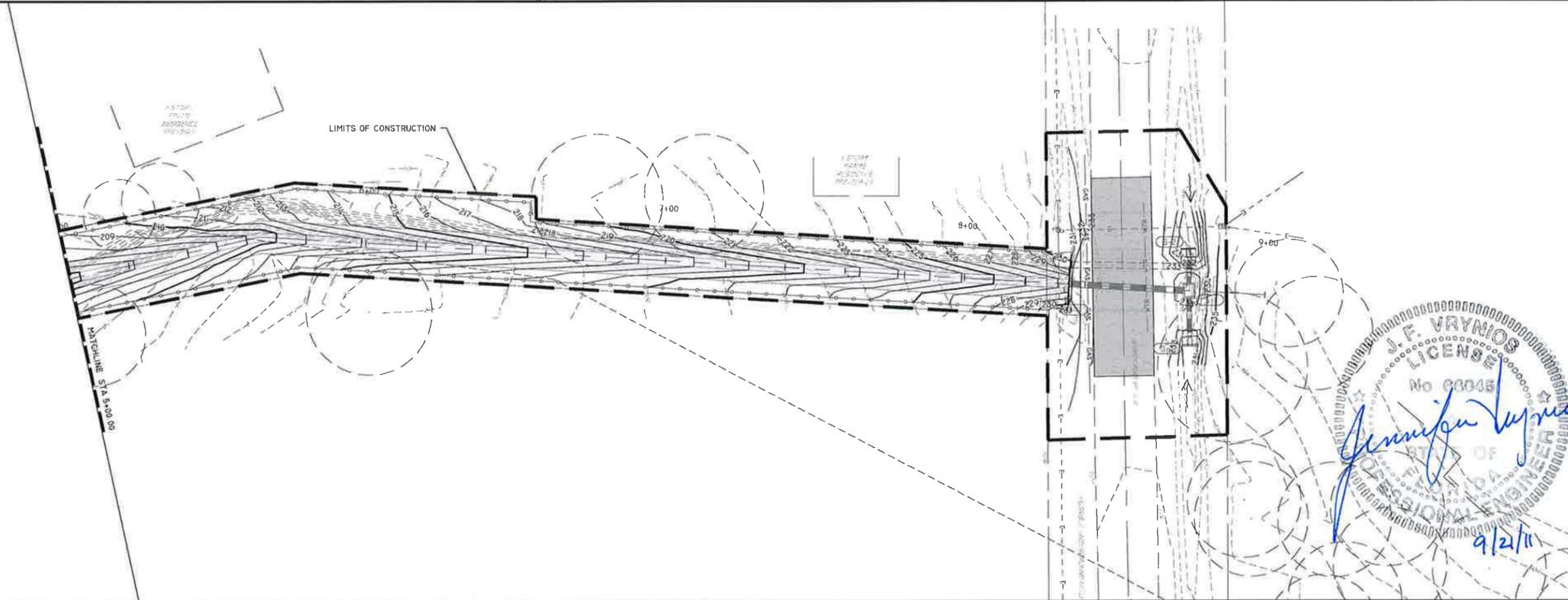
1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 PH: (850) 574-3197 FAX: (850) 402-6490 CERTIFICATE OF AUTHORIZATION # 000002	
PROJECT NAME SHARER ROAD OUTFALL STABILIZATION PROJECT	CLIENT NAME LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS
DATE: 09/12/11	DESIGN: ATC
DRAWN: ATC	CHECKED: GEM
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SHEET NUMBER 9 OF 15	

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E.O.R. JENNIFER F. VRYNIOS FL REG # 66045		SHEET TITLE PLAN & PROFILE - STA. 5+00 TO 9+00	
SHEET NUMBER 10 OF 15		REVISIONS	
REV	BY	DATE	DESCRIPTION OF REVISION

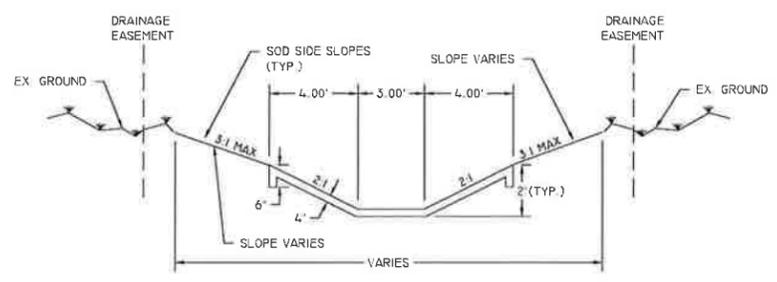
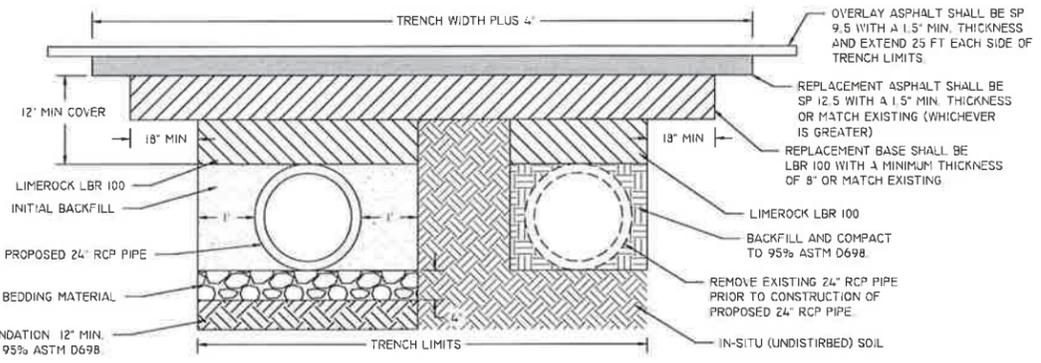
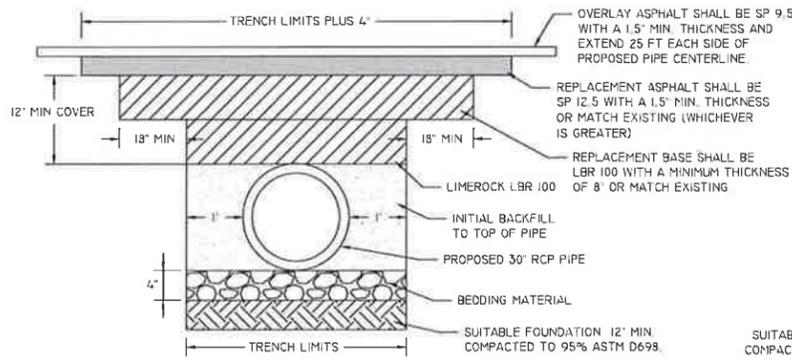
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URS 1625 SUMMIT LAKE DRIVE TALLAHASSEE, FL 32317 PH: (850) 574-3197 FAX: (850) 402-6490 CERTIFICATE OF AUTHORIZATION # 000002	
PROJECT NAME SHARER ROAD OUTFALL STABILIZATION PROJECT	CLIENT NAME LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS
DATE: 09/12/11	DESIGN: ATC
DRAWN: ATC	CHECKED: GEM
PROJECT #: 12806067	PROJECT MANAGER: JFV
E.O.R. JENNIFER F. VRYNIOTIS FL REG # 66045	SHEET TITLE GRADING PLAN
SHEET NUMBER 12 OF 15	SHEET NUMBER 12 OF 15

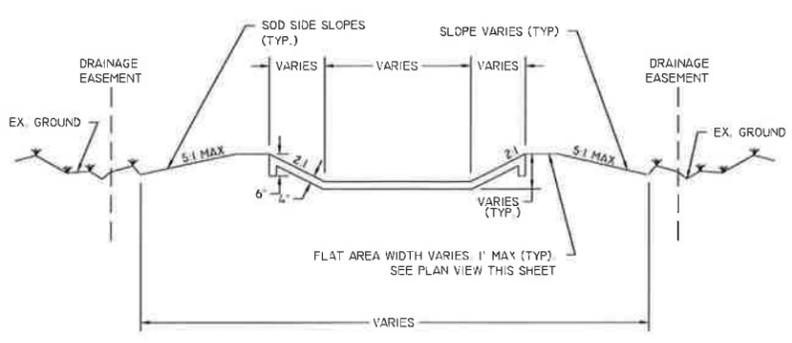
PIPE BEDDING NOTES

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C1479, "STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN AND CULVERT PIPE USING STANDARD INSTALLATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE SIZE NO. 67 COURSE AGGREGATE IN ACCORDANCE WITH FOOT STD, SPECIFICATION 901. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL DEVELOPED ON THE PROJECT THAT IS FREE OF DELETERIOUS MATERIAL AND LARGE STONES (>1" DIAMETER).
6. MINIMUM COVER: MINIMUM COVER, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12", MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. OVERLAY: OVERLAY SHALL BE LAID THE FULL WIDTH OF THE ROAD AND MAINTAIN THE MINIMUM THICKNESS FOR THE ENTIRE LENGTH OF THE OVERLAY AS SPECIFIED. MINIMUM THICKNESS SHALL ALSO BE MAINTAINED THE FULL WIDTH OF THE ROADWAY (NO FEATHERING AT SHOULDERS).

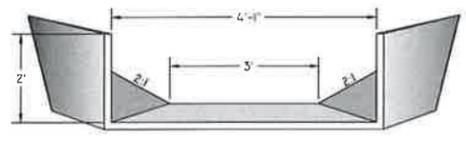
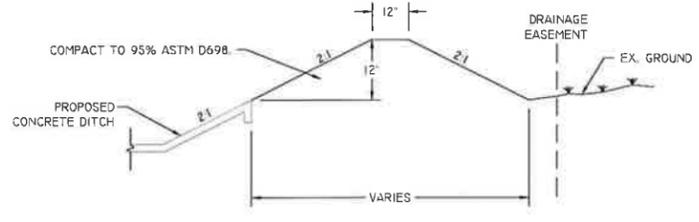


- NOTES**
1. CONCRETE DITCH EXPANSION JOINTS SHALL BE SPACED 8 FEET APART
 2. 3,000 PSI FIBER REINFORCED CONCRETE TO BE USED FOR ALL DITCH SECTIONS.
 3. CONCRETE DITCHES TO BE MODIFIED AT ENDS TO MATCH PIPE INVERTS.

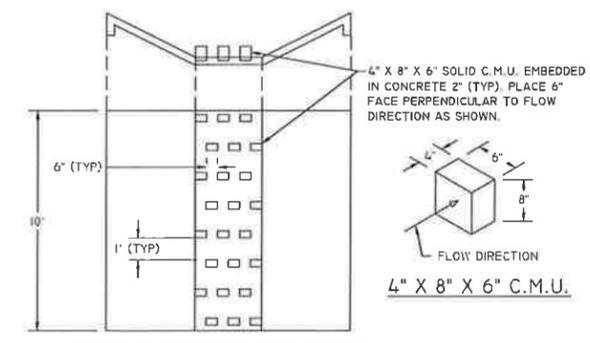
TYPICAL CONCRETE DITCH SECTIONS
NTS



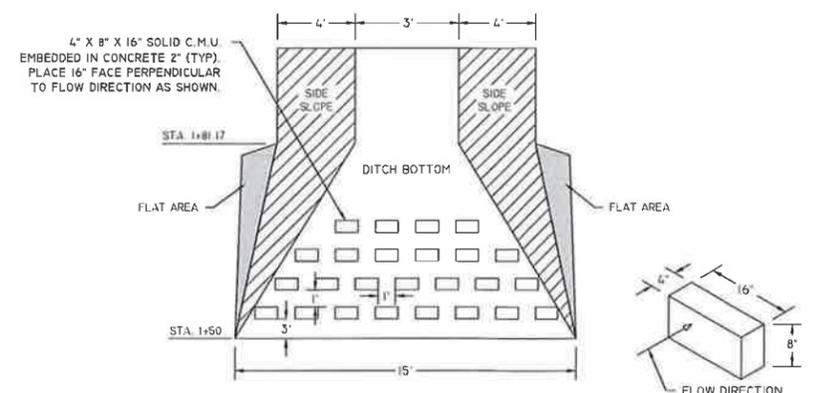
SECTION
SPECIAL CONCRETE DITCH SECTION A
NTS



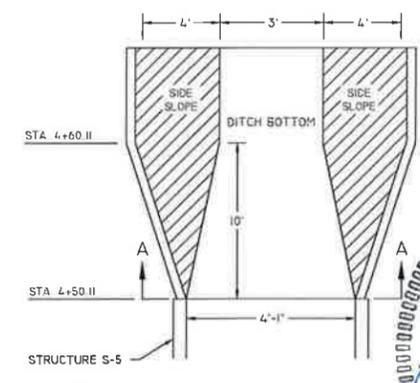
SECTION
SPECIAL CONCRETE DITCH SECTION B
NTS



TYPICAL ENERGY DISSIPATION SECTIONS
NTS



PLAN
SPECIAL CONCRETE DITCH SECTION A AND ENERGY DISSIPATER
NTS



PLAN
SPECIAL CONCRETE DITCH SECTION B AND ENERGY DISSIPATER
NTS



DATE	09/12/11
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CHECKED	GEM
PROJECT #	12806067
PROJECT NAME	SHARER ROAD OUTFALL STABILIZATION PROJECT
CLIENT NAME	LEON COUNTY, FLORIDA DEPARTMENT OF PUBLIC WORKS
SHEET TITLE	DETAILS
SHEET NUMBER	13 OF 15

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