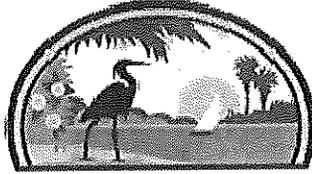


Lake County, Florida
Public Works Department



LAKE COUNTY
FLORIDA

LAKE COUNTY AMERICAN RECOVERY AND REINVESTMENT
ACT OF 2009 (ARRA) PROJECT

PICCIOLA BRIDGE #114004
FPN # 428082-1-58-01

Addendum #2
Pre-Bid Meeting Minutes

This addendum is being issued to make the following changes, corrections, clarifications and additions to the bidding document. The information in this addendum modifies and changes the original bidding documents and takes precedence over the original documents. **Receipt of this addendum shall be acknowledged by the bidder by signing and dating the appropriate line within Division W of the bid proposal.** Failure to acknowledge this addendum may preclude consideration of the bid proposal for award.

Date:

February 18, 2010

Time:

9:00 AM to 9:27 AM

Location:

Lake County Public Works Department
437 Ardice Avenue, Eustis, FL 32726

GENERAL COMMENTS

1. Attendance at this Pre-Bid Meeting is **MANDATORY**. A list of attendees to this meeting shall be recorded and published by addendum to all document holders. (A-2)
2. Sealed bids for this project shall be received by the Office of Procurement Services, Fourth Floor, Administration Building, Room 416, 315 West Main Street, Tavares, Florida, until 10:00 a.m. on March 11, 2010. A bid will not be considered for award if received in the Procurement Services Office after the official opening date and time regardless of when or how it was received by the Lake County Clerk of the Circuit Court Mail Receiving Center. (A-1)
3. The County will point out specific job conditions which are difficult to describe or show on the Drawings. All questions received prior to or during this meeting that require additional clarification will be covered by an addendum which will be issued following the mandatory pre-bid conference.
4. The contractor will submit proposed project completion date and construction duration (days). Maximum time for completion is 420 calendar days.
5. **ADDENDA:** Addenda will be to all plan holders who received a complete set of Bidding Documents from Lake County. All Addenda issued during the time of bidding shall form a part of the Contract Documents, shall be covered in the Bid, and shall become a part of the Contract. Receipt of each Addendum shall be acknowledged on the Bid Form W-1; failure to do so may subject the Bidder to disqualification. It shall be the Bidder's responsibility to ensure that they have received all Addenda prior to bid. The County shall not be responsible for non-receipt or untimely receipt of Addenda due to acts of the delivering agency or any other cause. (W-1)
6. **EXAMINATION OF DOCUMENTS AND INSPECTION OF SITE:** Before submitting a Bid, Bidders shall carefully examine the Bidding Documents and inspect the project site to fully inform themselves of all existing conditions and limitations. Each Bidder, by submitting his Bid, represents that he has so examined the Bidding Documents and inspected the site, that he understands the provisions of the Bidding Documents and that he has familiarized himself with the local

conditions under which the work is to be performed. Bidders will not be given extra payment or contract time for conditions which could have been determined by such examinations. (B-15)

7. This is an **AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (ARRA)** project and is to be fully funded by the Federal Highway Administration (FHWA) through the Florida Department of Transportation. This contract is being constructed under the FDOT's over-site as Local Agency Program (LAP) project. As an ARRA project all Federal / FDOT Contract Compliance Requirements (EEO, Wage, DBE, On-the-job Training and ARRA Job Creation Reporting) are part of the contract. **DIVISION I, FEDERAL REQUIREMENTS**, addresses these contract requirements.

8. **THIS IS A LUMP SUM CONTRACT.** Quantities, if shown, are estimated for bidding purposes only and shall be verified by the Contractor. Payment for work performed under this contract shall be based on the individual lump sum bids. Bidders shall determine quantities. Regardless of uncertainties of material supply and production at the time of bidding, Contractors shall base their bids in strict accordance with items, materials and methods as set forth in the Contract Documents. Additional space has been provided in the Bid Form for the Bidder to list additional items of Work indicated by the Contract Documents but not currently shown. Such listing of additional items is at the option of the Bidder. It is understood that if additional Work items reflected by the Contract Documents are not listed by the Bidder on the Bid Form then such required Work shall be considered as part of the overall Work to be performed and shall be considered as part of the Bidder's Total Lump Sum Bid Amount for the project.

9. **NO PRICE INDEX ADJUSTMENTS OF ANY TYPE OR KIND SHALL BE ALLOWED AS PART OF THIS CONTRACT.**

ADDITIONAL CLARIFICATION

The project is to start within ten (10) days after NTP is issued.

Anticipate award of the project at the April 6, 2010 BCC meeting. The project Anticipated NTP date is April 30, 2010.

Correction: At this meeting the following was stated; Millings are to remain the property of the County and are to be hauled to the following location at the Carlton pit. By Addendum this statement is revised as follows; Millings are to become the property of the Bidder/Contractor.

QUESTIONS RECEIVED PRIOR TO MEETING

- Q1. S20 is shown as a J6 inlet on plan sheet 18 and structure sheet 33 it is also an inlet on drainage detail sheet 41, but it is marked under the "J6 MH" column on summary sheet 12 Bid item calls for a M Please clarify.
- A1. Storm structure S20 shall be as shown on plan sheet 18, Structure Sheet 33, and Drainage Sheet 41. See General Comments, Item No. 8 above concerning the lists of items on the Bid Form.
- Q2. Summary sheet 13 doesn't have S38 marked under any column; however, it is a P8 MH and should be included in the totals.
- A2. See General Comments, Item No. 8 above.
- Q3. Summary sheet 12 duplicated the 131' run of French drain for S23 & S32 subtotal for sheet 12 should be 131' and grand total should be 328'.
- A3. See General Comments, Item No. 8 above.
- Q4. There are 9- P5 inlets on plans and summary sheets, but there is no bid item given for them.
- A4. See General Comments, Item No. 8 above.

MEETING COMMENTS and QUESTIONS

- C1. Bidder/Contractor shall perform QC testing and provide a QC plan as required per FDOT Standard Specifications for Road and Bridge Construction, 2007 Edition.
- C2. Normal work hours shall be 7:00 AM to 5:00 PM Monday through Friday. Saturday Work is allowed with prior notice.
- C3. Bridge Work spans a navigable waterway. This waterway must remain open passable to waterway traffic.

- C4. Possible plan change with respect to French Drain being considered. Any change will be addressed by Addendum. Change would be needed to protect existing Grand Father Oak Tree. *To address this issue, Sheet No's. 1, 3, 12, 13, 17, 18, 21, 22, 31, 32, 33, 34, 35, 36, 37, 38, and 41 have been revised and are attached to this addendum.*
- C5. Possible change of plan with respect to keeping tree buffer at park as existing. Any change will be addressed by Addendum.
- C6. PSI, Inc. shall perform CEI services for Lake County for this project. PSI shall be responsible for project QA/Acceptance Testing.
- C7. Questions shall be received by **March 5, 2010**. Submit in writing to Sherry McDermott as smcdermott@lakecountyfl.gov. *Note additional time is provided for interpretations prior to bid opening.*
- C8. Leesburg Electric to relocate existing overhead power system. Current power planned to be placed underground near east right-of-way line. Schedule for relocation pending. County will require successful Bidder/Contractor to assist with schedule/coordination of power system relocation.
- C9. Bidder/Contractor setting of Contract Duration does not affect Bidder Selection. Contract time not to exceed 420 days. Any change to current method of setting of Contract Time would be addressed by Addendum.
- C10. Existing roadway must be demolished prior to placement of surcharge material.
- Q1. Only a small milling area is addressed by plan. Are there any other areas to be milled by contract?
- A1. Milling shall be as referenced by the Contract Documents.

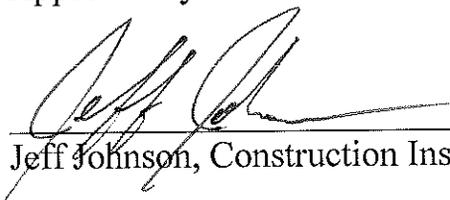
QUESTIONS of FEBRUARY 19, 2010

- Q1. Will the required testing and inspections be in the scope/responsibility of Lake County or of the Contractor selected?
- A1. Lake County's CEI consultant, PSI, Inc., shall perform QA/Acceptance Testing. The Bidder/Contractor shall perform QC Testing. See C1 and C6 above for additional information.
- Q2. Can I be provided with a copy of the sign-in sheet from yesterday's mandatory pre-bid meeting?
- A2. A copy of the sign-in sheet for the mandatory pre-bid meeting will be issued as an attachment to this Addendum.

QUESTIONS of MARCH 1, 2010

- Q1. Does the Picciola Bridge construction project require steel piling (e.g., h-pile, sheet pile, pipe pile)?
- A1. Plans, specifications and bid forms may be obtained from the Department of Public Works, 437 Ardice Avenue, Eustis, Florida. Mail requests should be addressed to the Department of Public Works, Map Sales Office, 437 Ardice Avenue, Eustis, Florida 32726. A charge of \$50.00 will be made for each set. Please note that postage will be charged for all plans and specifications sent by mail.
- Q2. What is the amount (in "lineal feet" for h-pile or pipe pile and "square feet" for sheet piling) of the steel piling required?
- A2. See General Comments, Item No. 8 above concerning the lists of items on the Bid Form.

Approved by:



Jeff Johnson, Construction Inspection Manager

3/1/10
Date

**Pre-Bid for Picciola Bridge
February 18, 2010 at 9:00 a.m., LAKE COUNTY PUBLIC WORKS CONFERENCE ROOM**

Name (Please Print)	Representing	Street Address	City/State/Zip	Phone Number	Fax Number	Email Address
JEFF BEHOVICH	PST	1746 32 nd ST	ORLANDO	407-304-5520	407-304-5541	Jeffrey.Behovich@PSUSA.com
HERB HAEWK	GIBBS & REGISTER	232 S. NICCOARDS ST-	WINTER GARDEN	407-654-6133	407-905-2941	ESTIMATING @ GIBBSANDREGISTER.COM
Sophia Dalien	SHOP DBEC	801 N. Magnolia Ave	Orlando FL 32761	407-721-2292 721-7292		M+Thompson@DBEC.com
ANDY CLARK	LEWARE CONST.	925 THOMAS AVE	LEESBURG, FL 34748	352-787-1616	352-787-3161	ACLARK@LEWARECC.COM
SHAWN WIX	SHORELINE FOUNDATION	2781 SW 56 th AVE	Pembroke Park FL 33023	954-985-0460	954-985-0460	JKLION@SHORELINEFOUNDATION.COM
Billy Smallwood	Russell Engineering INC	10704 Pental Crossing	Bradenton FL 34211	941-757-0080	941-757-0085	Tom B@RussellEng
JENNINGS GRIFFIN	SSMC	228 E MAIN ST	TAVARES, FL	352-343-4880	352-343-4914	JGRIFFIN@SOUTHEASTERSURVEYING.COM
Jim Libby	Hewitt Contracting	POB 490697	Leesburg, FL	352-787-5651	352-787-5199	jplibby@earthlink.net
Kerth Waugh	Leware Const	925 Thomas Ave 11810 NW 115 th	Leesburg	352-787-1616	352-787-3161	Kwaugh@lewarecc.com
Karen Cox for Jay Bl.	Commercial Indust Corp.	4208 CR 124A	Reddick, FL 32686	352-840-0161	352-867-1859	Jay@ci.fl.com
Scott O'Neal	C.W. Roberts Contracting	Walden, FL 34785	Wildwood, FL 34785	352-330-2540	352-330-2609	Soneal@cwcontracting.com
LITO DE TORRES	PDS	10 W. LAKEVIEW AVE.	EUSTIS, FL 32725	352-589-7000	352-589-7008	LITOT13@COMCAST.NET
ROHAN ROSS	HUBBARD CONST.	1936 LEG RD	WINTER PARK FL	407-623-3844	407-623-3865	ROHAN.ROSS@HUBBARD.COM
Russell Henderson	RWH Const.	331 W. Alfred St	TAVARES	352-267-6224	352-267-6224	RussellH@RWHmasonry.com
Clint Lutchman	Tony's Construction	20 E. Bay St.	WINTER GARDEN, FL	407-656-7121	407-656-7138	clint@tonysconstructioninc.com
DAVID AAGAARD	AAGAARD-McNARY CONST.	204 CORN RD Casselberry FL 32706	←	407-331-6885	407-331-6101	DAVE AAGAARD@EMBALOMBSL.COM
Bill Kalvantis	GLF Const.	858 N. Palletto AVE	FT. MEADE FL 33841	305-371-5338	305-371-9201	Wkalvantis@GLFUSA.COM

**Pre-Bid for Picciola Bridge
February 18, 2010 at 9:00 a.m., LAKE COUNTY PUBLIC WORKS CONFERENCE ROOM**

Name (Please Print)	Representing	Street Address	City/State/Zip	Phone Number	Fax Number	Email Address
Jamie R. Booth	ZEP Construction	7807 Jean Blvd Parkway, FL 33967	Fort Myers, FL 33967	238-262-8778	238-262-7907	zepcon@aol.com
Robert P. Rudd	PSI, Inc.	1748 33rd Street	Orlando, FL	407-461-1564	407-304-5561	robert.rudd@psi-usa.com
Warren Forsythe	Emerald Utilities, Inc.	1601 Park Center Dr	Orlando, FL	407-522-4840	407-522-4839	Abellon@Emeraldusd.com
DANTE SEVI	SIBONEY CONTR	1724 S. Busby	Orlando	407-291-3891	407-291-7748	dante@siboneycc.com
Sophia Dalen	DBEC	801 N. Magnolia Ave Suite 406	Orlando FL 32803	407-721-8292		MTHOMPSON@DBEC.COM
Dana Boyte	Allen & Co Survey	213 Dillard St # 210 Winter Garden, 34787	Winter Garden 34787	407-654-5355	407-654-5356	dana@Allen-Company.com
Fred Schneider	LCPW					
Alan Kirkland	LCPW					
Lori Conway	LCPW					
Jeff Johnson	LCPW					
Heath McArdle	LCPW					
Sherry McDermott	LCPW			(352) 483-9020		smcdermott@lakecountyfl.gov

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
STRUCTURE PLANS

LAKE COUNTY OF FLORIDA
DEPARTMENT OF PUBLIC WORKS

CONTRACT PLANS

FINANCIAL PROJECT ID 428082-1-58-01
(FEDERAL FUNDS)
FEDERAL AID NUMBER ARRA-562-B
PICCIOLA BRIDGE IMPROVEMENTS
COUNTY ROAD NO. CR 466A

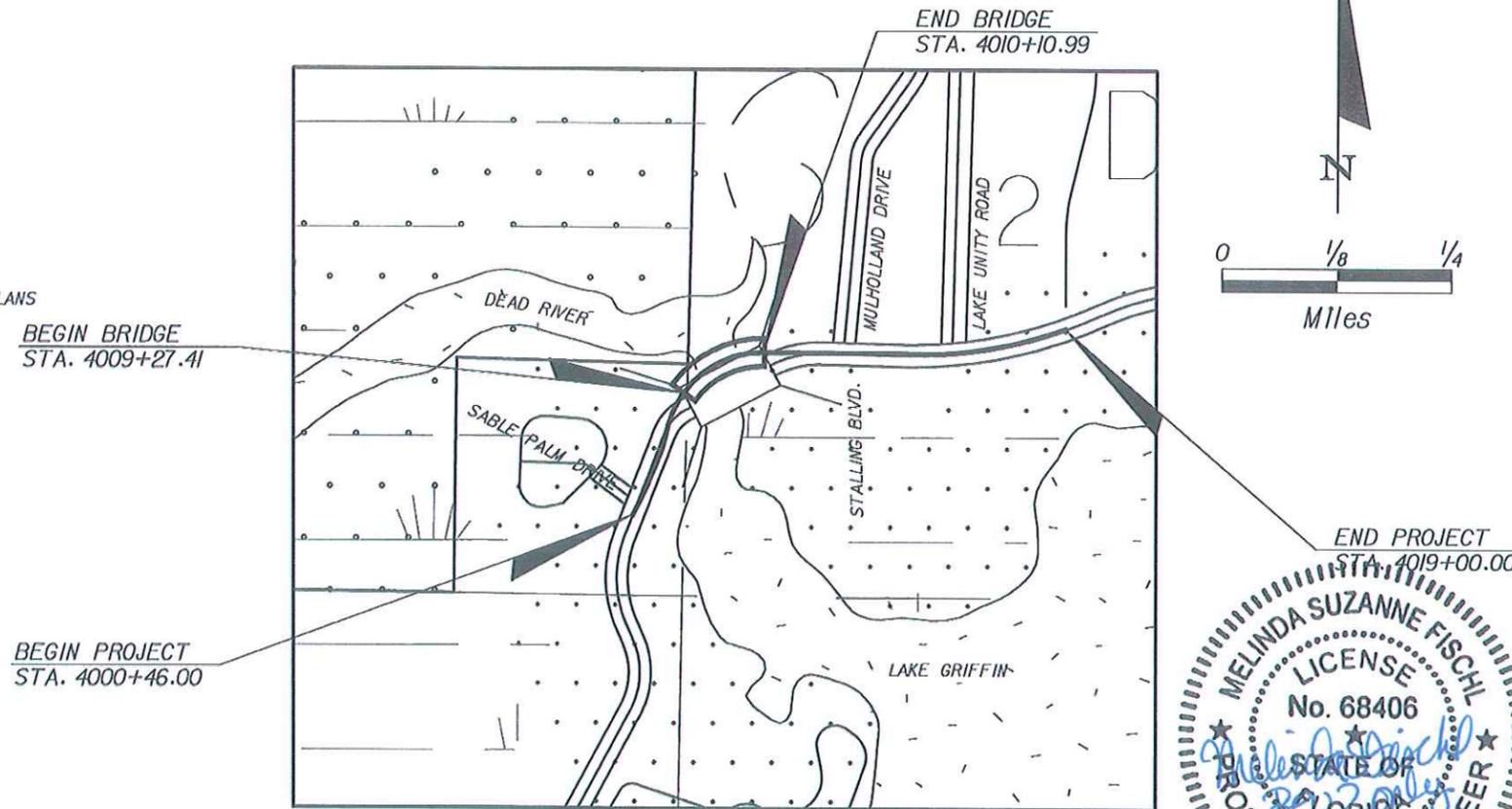
A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	DRAINAGE MAP
4-10	TYPICAL SECTIONS
11	SUMMARY OF QUANTITIES
12-13	SUMMARY OF DRAINAGE STRUCTURES
14	PROJECT LAYOUT / GENERAL NOTES
15	REFERENCE TIES
16-19	ROADWAY PLANS
20-24	ROADWAY PROFILES
25-40	DRAINAGE STRUCTURES
41	DRAINAGE DETAILS
42-43	ROADWAY SOIL SURVEY
44	GEOGRID LIMITS
45-46	SURCHARGE CONTROL
47-75	CROSS SECTIONS
76-77	STORM WATER POLLUTION PREVENTION PLANS
78-105	TRAFFIC CONTROL PLANS
106-109	SIGNING AND PAVEMENT MARKING PLANS



LAKE COUNTY
FLORIDA



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

ROBERT M. DENNEY, P.E.
HNTB CORPORATION
300 PRIMERA BOULEVARD, SUITE 200
LAKE MARY, FLORIDA 32746

PLANS PREPARED BY:

HNTB

HNTB CORPORATION
300 PRIMERA BOULEVARD, SUITE 200
LAKE MARY, FL 32746
PHONE: (407) 805-0355
FAX: 407-805-0227
CERT. OF AUTH. NO. 6500
VENDOR NO. : V98567003

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

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2010,
AS AMENDED BY CONTRACT DOCUMENTS.

Applicable Design Standard Modifications: 01-01-2010
For Design Standards Modifications click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm>

REVISIONS

- 1 05/21/09 REVISED SHEETS: 12, 13, 17, 21, 33, 45, 66, 67, 68, 69, 98, 107
- 2 02/22/10 REVISED SHEETS: 3, 12, 13, 17, 18, 21, 22, 31, 32, 33, 34, 35, 36, 37, 38, 41

PROJECT LENGTH IS BASED ON $\frac{1}{2}$ OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	1772.93	0.336
BRIDGES	83.58	0.016
NET LENGTH OF PROJECT	1856.51	0.352
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	1856.51	0.352

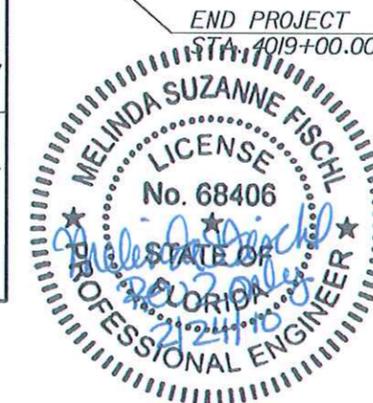
KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.

P.E. NO.: 58593

FISCAL YEAR	SHEET NO.
10	1

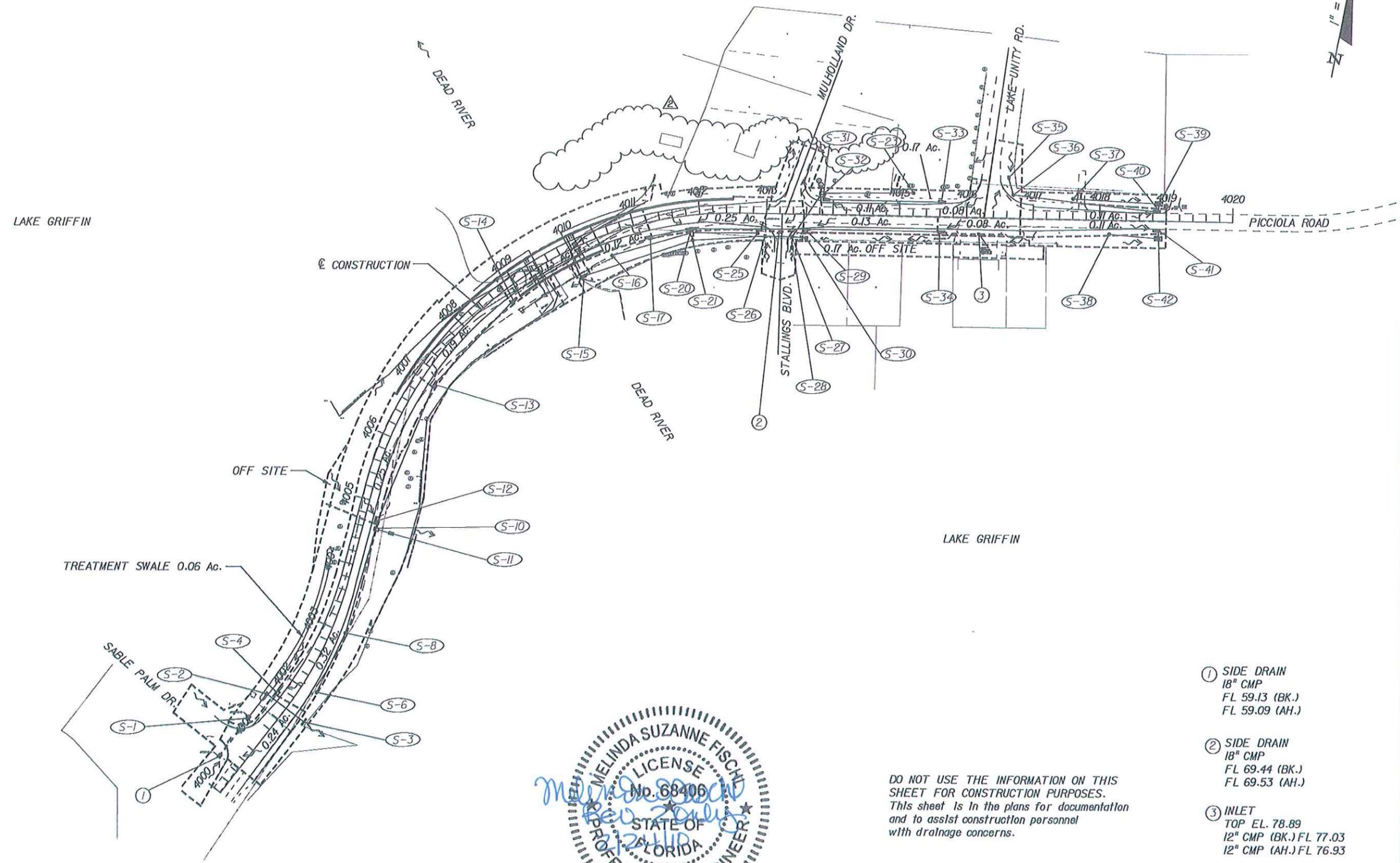
LAKE COUNTY PROJECT MANAGER: Alan Kirkland, P.E.



FINAL

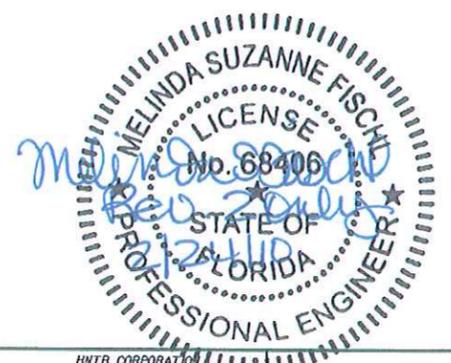
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6905-23.003, F.A.C.

1" = 150'



- ① SIDE DRAIN
18" CMP
FL 59.13 (BK.)
FL 59.09 (AH.)
- ② SIDE DRAIN
18" CMP
FL 69.44 (BK.)
FL 69.53 (AH.)
- ③ INLET
TOP EL. 78.89
12" CMP (BK.) FL 77.03
12" CMP (AH.) FL 76.93

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. This sheet is in the plans for documentation and to assist construction personnel with drainage concerns.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
02/22/10	MSF	REVISED FRENCH DRAIN SYSTEM			

HNTB
 HNTB CORPORATION
 300 PRIMA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: ROBERT H. DENNEY, P.E.
 FL. REGISTRATION NO. 59593

LAKE COUNTY
 FLORIDA

PICCIOLA ROAD
DRAINAGE MAP

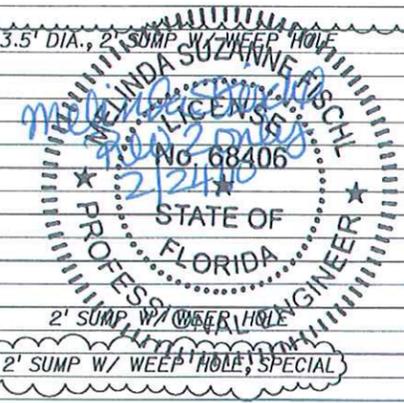
SHEET NO.
3

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

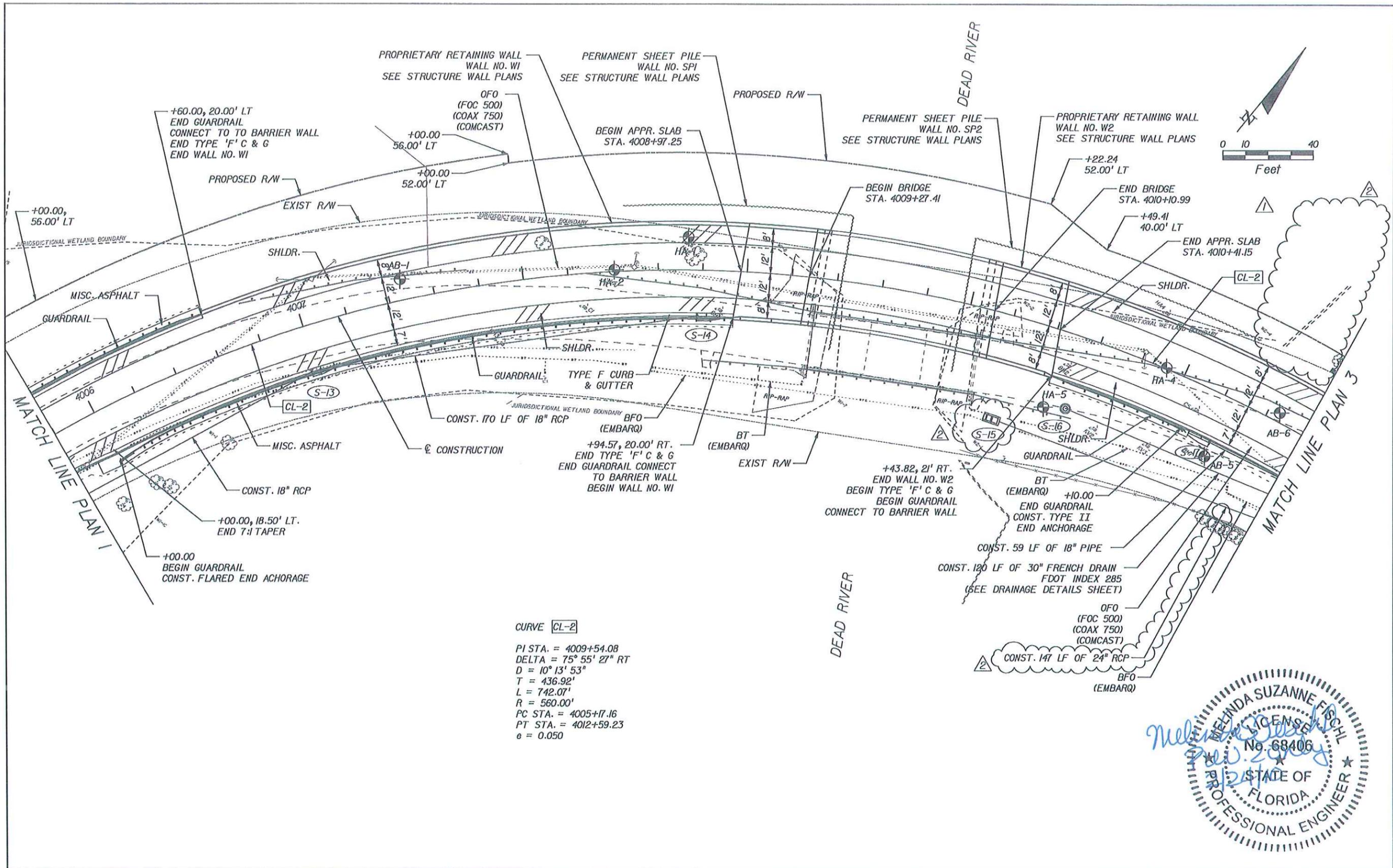
QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN		FRENCH DRAIN OPTIONAL TYPE			CURB INLETS			MANHOLE			DBI		ENDWALL		CLS I CONC.	REMARKS
						ROUND SHAPE		ROUND SHAPE			P-5	J-5	CLOSED	P-8	J-6	J-8 (SPEC.)	C	C SPEC.	TYPE U			
						18"	24"	18"	24"	30"	< 10'	< 10'	FLUME	< 10'	< 10'	< 10'	< 10'	< 10'	24"	30"		
P	S-1	4001+13.00	LT	INLET-PIPE	1	44																
F																						
P	S-2	4001+60.00	LT	INLET-PIPE	1		68															
F																						
P	S-3	4001+60.00	RT	ENDWALL	1																2.82	
F																						
P	S-4	4001+70.00	LT	INLET	1																	TYPE II, D= 4'
F																						
P	S-5	DELETED																				
F																						
P	S-6	4002+05.00	RT	MANHOLE-PIPE	1					96												3.5' DIA., 2' SUMP W/ WEEP HOLE
F																						
P	S-7	DELETED																				
F																						
P	S-8	4003+00.00	RT	MANHOLE-PIPE	1					158												3.5' DIA., 2' SUMP W/ WEEP HOLE
F																						
P	S-9	DELETED																				
F																						
P	S-10	4004+60.00	RT	MANHOLE-PIPE	1		17															2' SUMP W/ WEEP HOLE, SPECIAL
F																						
P	S-11	4004+60.00	RT	ENDWALL	1																	1:2 SLOPE, W/ BAFFLES
F																						
P	S-12	4004+70.00	RT	INLET-PIPE	1	7																
F																						
P	S-13	4007+00.00	RT	INLET-PIPE	1	219																
F																						
P	S-14	4008+80.00	RT	INLET-PIPE	1	170																
F																						
P	S-15	4009+93.90	RT	ENDWALL	1																	1:2 SLOPE, W/ BAFFLES
F																						
P	S-16	4010+54.00	RT	MANHOLE-PIPE	1					120												2' SUMP W/ WEEP HOLE
F																						
P	S-17	4011+21.00	RT	INLET-PIPE	1	59																
F																						
P	S-18	DELETED																				
F																						
P	S-19	DELETED																				
F																						
P	S-20	4011+85.00	RT	INLET-PIPE	1	6																2' SUMP W/ WEEP HOLE, SPECIAL
F																						
P	S-21	4011+85.00	RT	MANHOLE-PIPE	1																	
F																						
P	S-22	DELETED																				
F																						
P	S-23	4015+20.20	LT	MANHOLE-PIPE	1					131												3.5' DIA., 2' SUMP W/ WEEP HOLE
F																						
P	S-24	DELETED																				
F																						
P	S-25	4012+87.00	RT	MANHOLE-PIPE	1					95												3.5' DIA., 2' SUMP W/ WEEP HOLE
F																						
P	S-26	4012+98.00	RT	INLET-PIPE	1	108																
F																						
P	S-27	4013+38.00	RT	MANHOLE-PIPE	1	38																
F																						
P	S-28	4013+38.00	RT	INLET-PIPE	1	13																
F																						
P	S-29	4013+58.00	RT	INLET-PIPE	1	167																
F																						
P	S-30	4013+60.00	RT	INLET-PIPE	1	18																
F																						
P	S-31	4013+86.86	LT	INLET-PIPE	1	7																
F																						
P	S-32	4013+83.94	LT	MANHOLE-PIPE	1	75				131												2' SUMP W/ WEEP HOLE, SPECIAL
F																						
P	S-33	4015+60.00	LT	INLET-PIPE	1	170																
F																						

SHEET TOTALS		PLAN QUANTITY	FINAL QUANTITY	1101	232	262	0	469	6	1	1	7	1	2	5	0	2	0	2.82	
--------------	--	---------------	----------------	------	-----	-----	---	-----	---	---	---	---	---	---	---	---	---	---	------	--

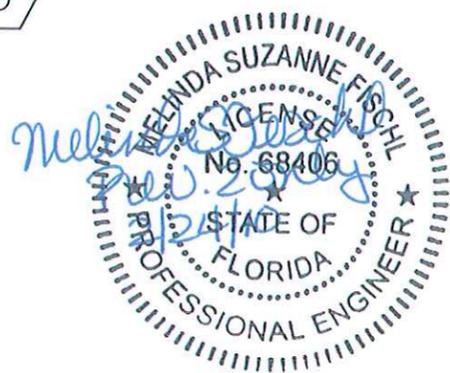
REVISIONS DATE BY DESCRIPTION 05/21/09 RMD REVISED DRAINAGE STRUCTURE 02/22/10 MSF REVISED FRENCH DRAIN SYSTEM		HNTB HNTB CORPORATION 300 PRIMERA BLVD, SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: ROBERT M. DENNEY, P.E. FL. REGISTRATION NO. 58593		 LAKE COUNTY FLORIDA		SUMMARY OF DRAINAGE STRUCTURES		SHEET NO. 12	
---	--	--	--	----------------------------	--	-----------------------------------	--	-----------------	--



QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN		FRENCH DRAIN OPTIONAL TYPE			CURB INLETS			MANHOLE			DBI		ENDWALL		CLS / CONC.	REMARKS
						ROUND SHAPE		ROUND SHAPE			P-5	J-5	CLOSED	P-8	J-6	J-8 (SPEC.)	C	C SPEC.	TYPE U			
						18"	24"	18"	24"	30"	< 10'	< 10'	FLUME	< 10'	< 10'	< 10'	< 10'	< 10'	24"	30"		
P	S-34	4015+60.00	RT	INLET-PIPE	1	199																
F																						
P	S-35	4016+62.00	LT	INLET-PIPE	1	24																
F																						
P	S-36	4016+69.29	LT	MANHOLE-PIPE	1	216																3.5' DIA.
F																						
P	S-37	4017+60.00	LT	MANHOLE-PIPE	1			126														3.5' DIA., 2' SUMP W/ WEEP HOLE
F																						
P	S-38	4018+15.00	RT	MANHOLE-PIPE	1			71														3.5' DIA., 2' SUMP W/ WEEP HOLE
F																						
P	S-39	4018+86.50	LT	INLET																		2' SUMP W/ WEEP HOLE, DBL. TRAV. SLOTS
F																						
P	S-40	4018+86.50	LT	INLET-PIPE	1	10																
F																						
P	S-41	4018+86.50	RT	INLET-PIPE	1	10																
F																						
P	S-42	4018+86.50	RT	INLET																		2' SUMP W/ WEEP HOLE, DBL. TRAV. SLOTS
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						
F																						
P																						



CURVE **CL-2**
 PI STA. = 4009+54.08
 DELTA = 75° 55' 27" RT
 D = 10° 13' 53"
 T = 436.92'
 L = 742.07'
 R = 560.00'
 PC STA. = 4005+17.16
 PT STA. = 4012+59.23
 e = 0.050



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
05/21/09	RMD	REVISD R/W LINE AND DRAINAGE STRUCTURE			
02/22/10	MSF	REVISD FRENCH DRAIN SYSTEM			

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

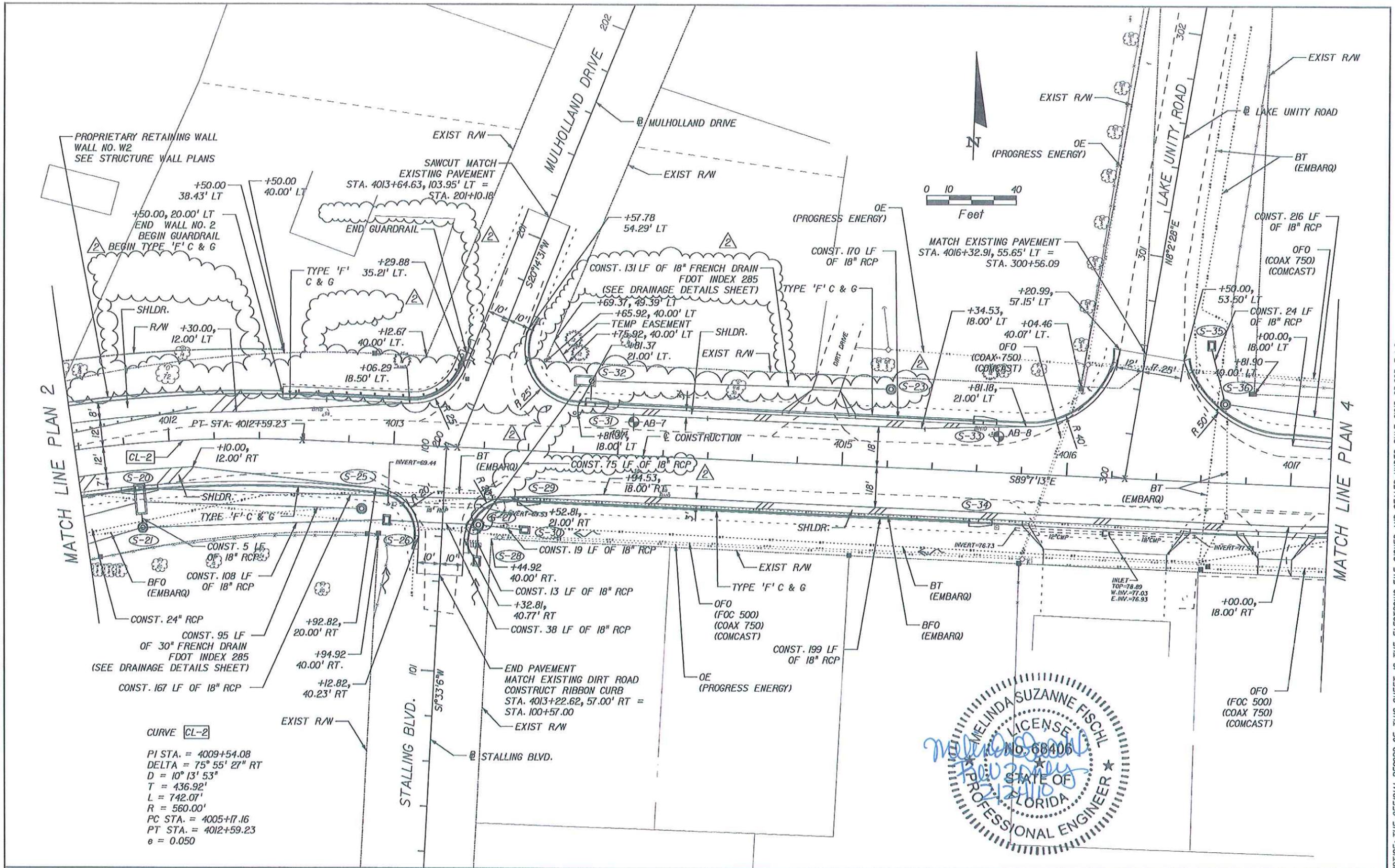
ENGINEER OF RECORD: ROBERT H. DENNEY, P.E.
 FL. REGISTRATION NO. 58593



**PICCIOLA ROAD
 PLAN SHEET 2**

SHEET NO.
 17

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.



CURVE CL-2
 PI STA. = 4009+54.08
 DELTA = 75° 55' 27" RT
 D = 10° 13' 53"
 T = 436.92'
 L = 742.07'
 R = 560.00'
 PC STA. = 4005+17.16
 PT STA. = 4012+59.23
 e = 0.050



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
02/22/10	MSF	REVISD FRENCH DRAIN SYSTEM			

HNTB
 HNTB CORPORATION
 300 PRIMA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

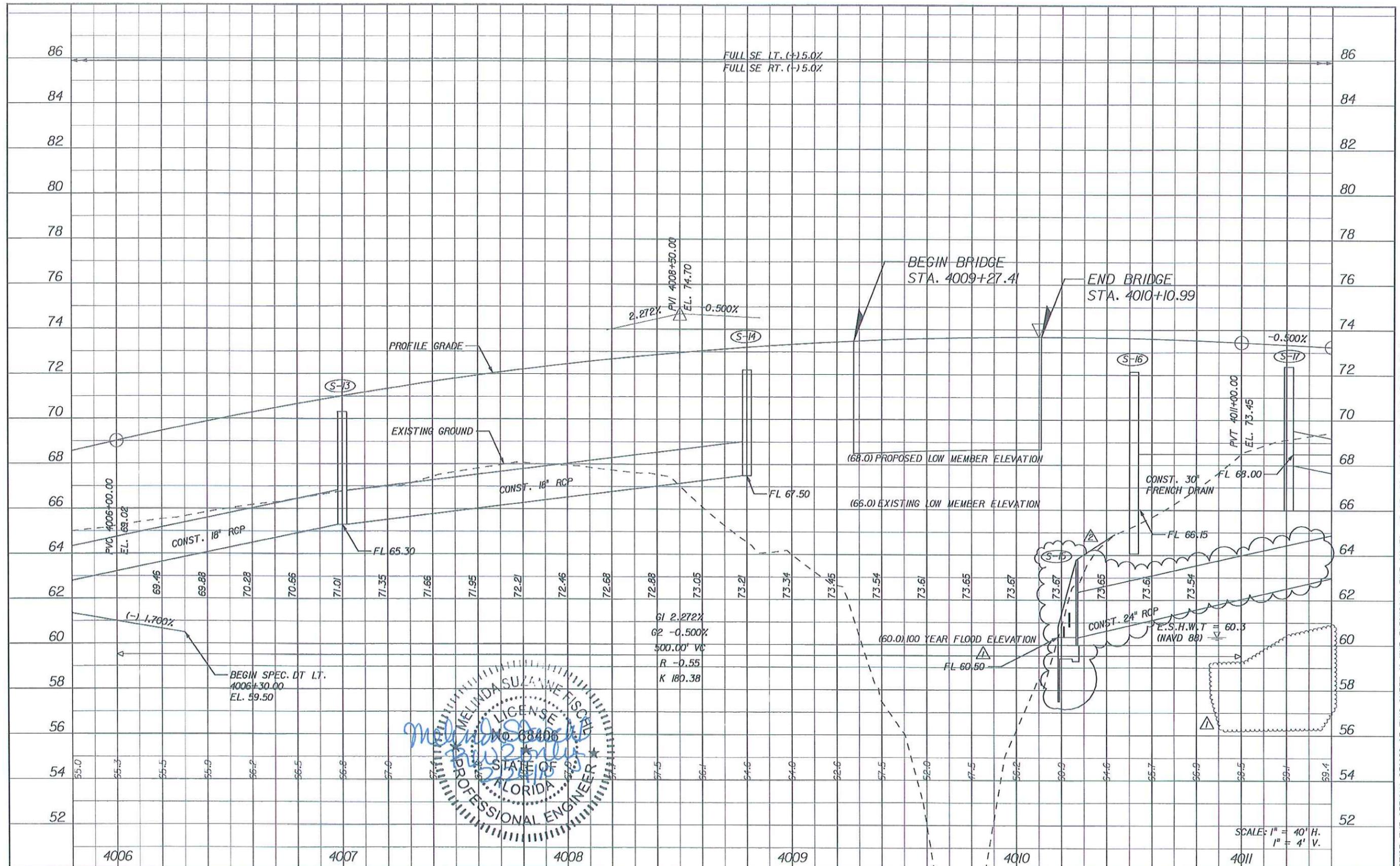
ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

LAKE COUNTY
 FLORIDA

PICCIOLA ROAD
PLAN SHEET 3

SHEET NO. 18

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
05/21/09	RMD	△ REVISED DRAINAGE STRUCTURE			
02/22/10	MSF	△ REVISED FRENCH DRAIN SYSTEM			

HNTB
 HNTB CORPORATION
 300 PRINERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

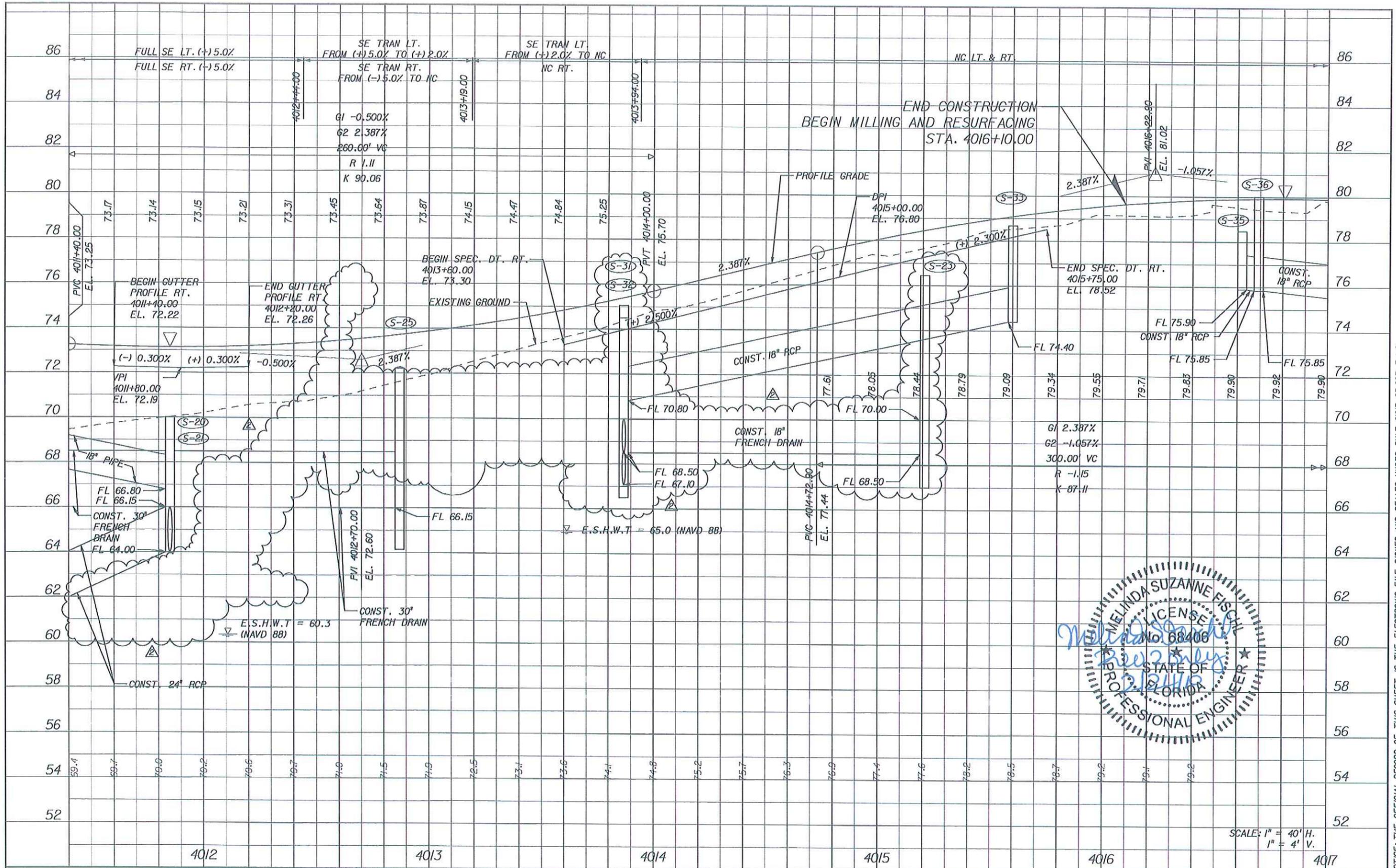
ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

LAKE COUNTY
 FLORIDA

PICCIOLA ROAD
PROFILE SHEET 2

SHEET NO. 21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



SCALE: 1" = 40' H.
1" = 4' V.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS			
DATE	BY	DESCRIPTION	
02/22/10	MSF	REVISED FRENCH DRAIN SYSTEM	

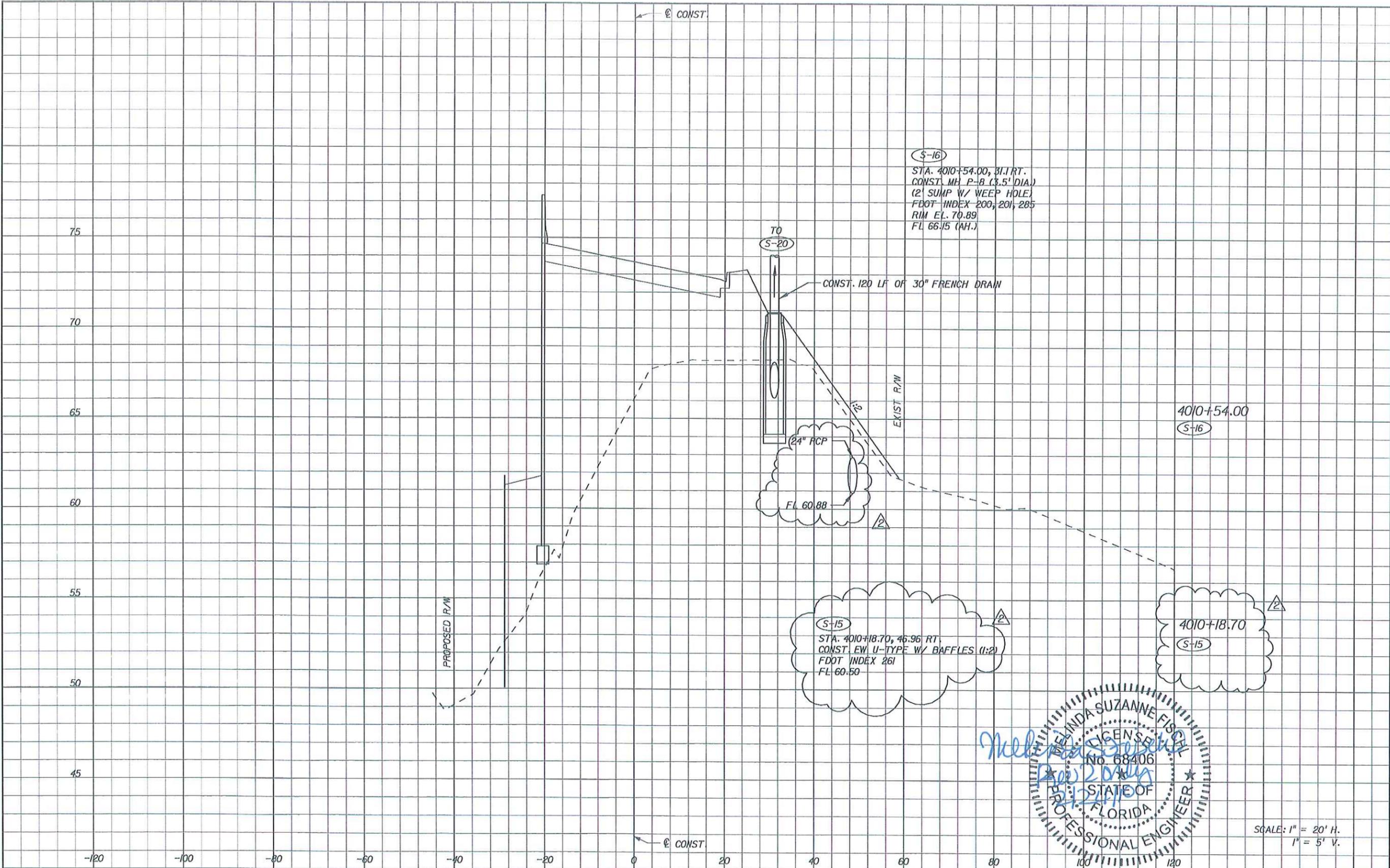
HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

LAKE COUNTY
 FLORIDA

PICCIOLA ROAD
PROFILE SHEET 3

SHEET NO. 22



Melinda Suzanne Fitch
 License No. 68406
 State of Florida
 Professional Engineer

SCALE: 1" = 20' H.
 1" = 5' V.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
02/22/10	MSF	△ REVISED FRENCH DRAIN SYSTEM			

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

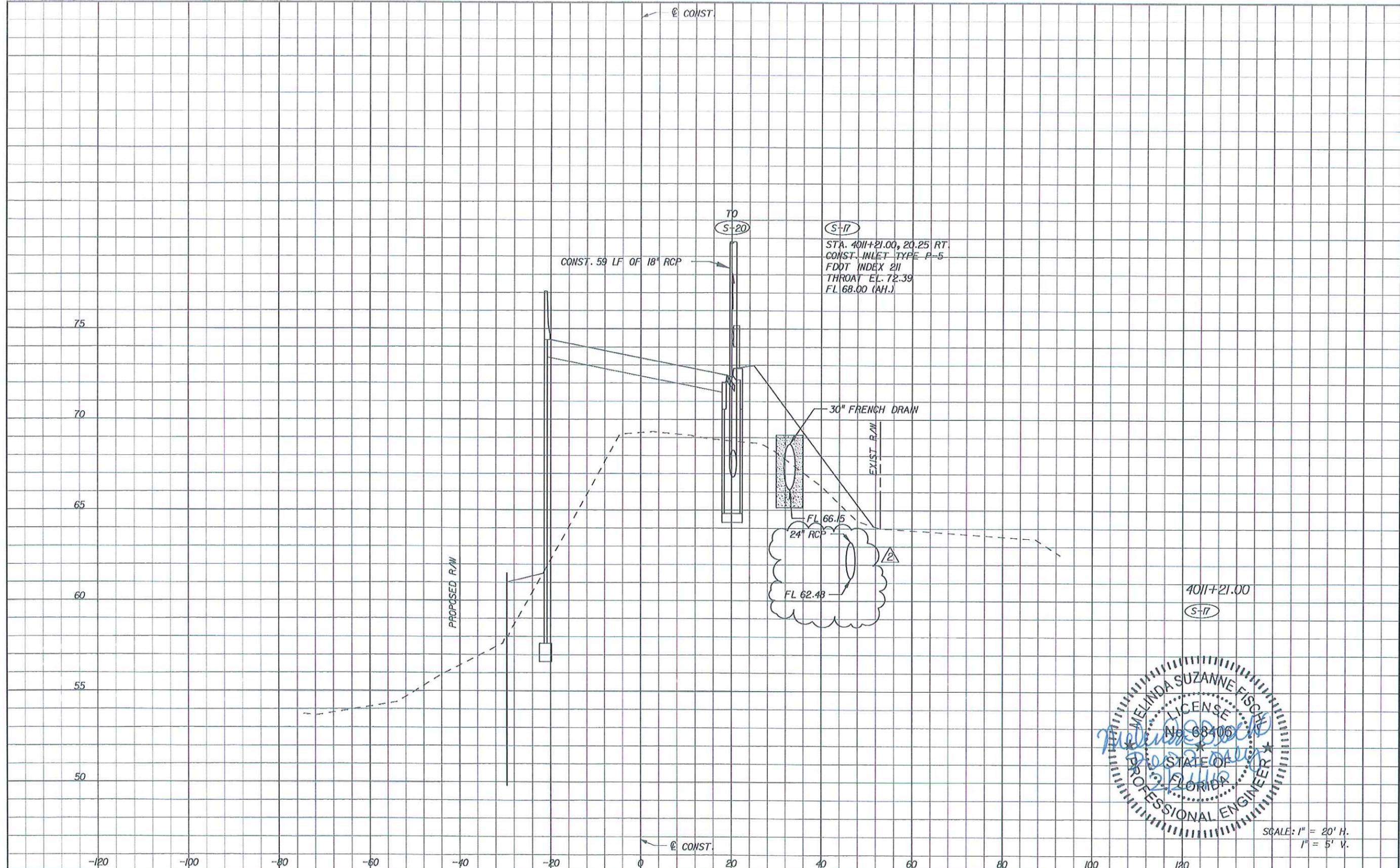
ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593



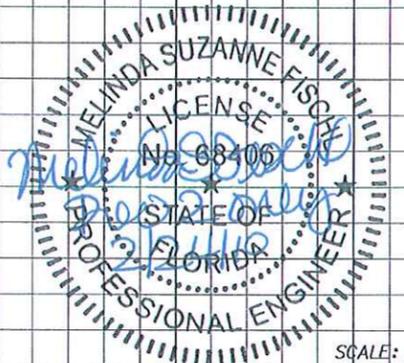
**PICCIOLA ROAD
 DRAINAGE STRUCTURES**

SHEET NO.
 31

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



(S-17)
 STA. 4011+21.00, 20.25 RT.
 CONST. INLET TYPE P-5
 FDOT INDEX 211
 THROAT EL. 72.39
 FL 68.00 (AH.)



SCALE: 1" = 20' H.
 1" = 5' V.

DATE		BY		DESCRIPTION	
02/22/10	MSF	MSF		REVISED FRENCH DRAIN SYSTEM	

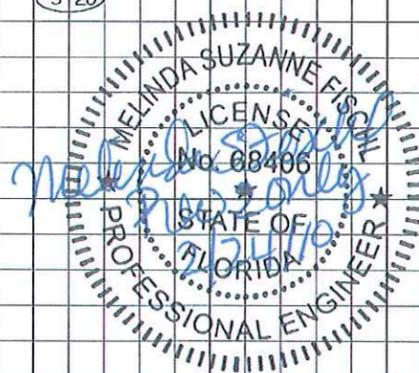
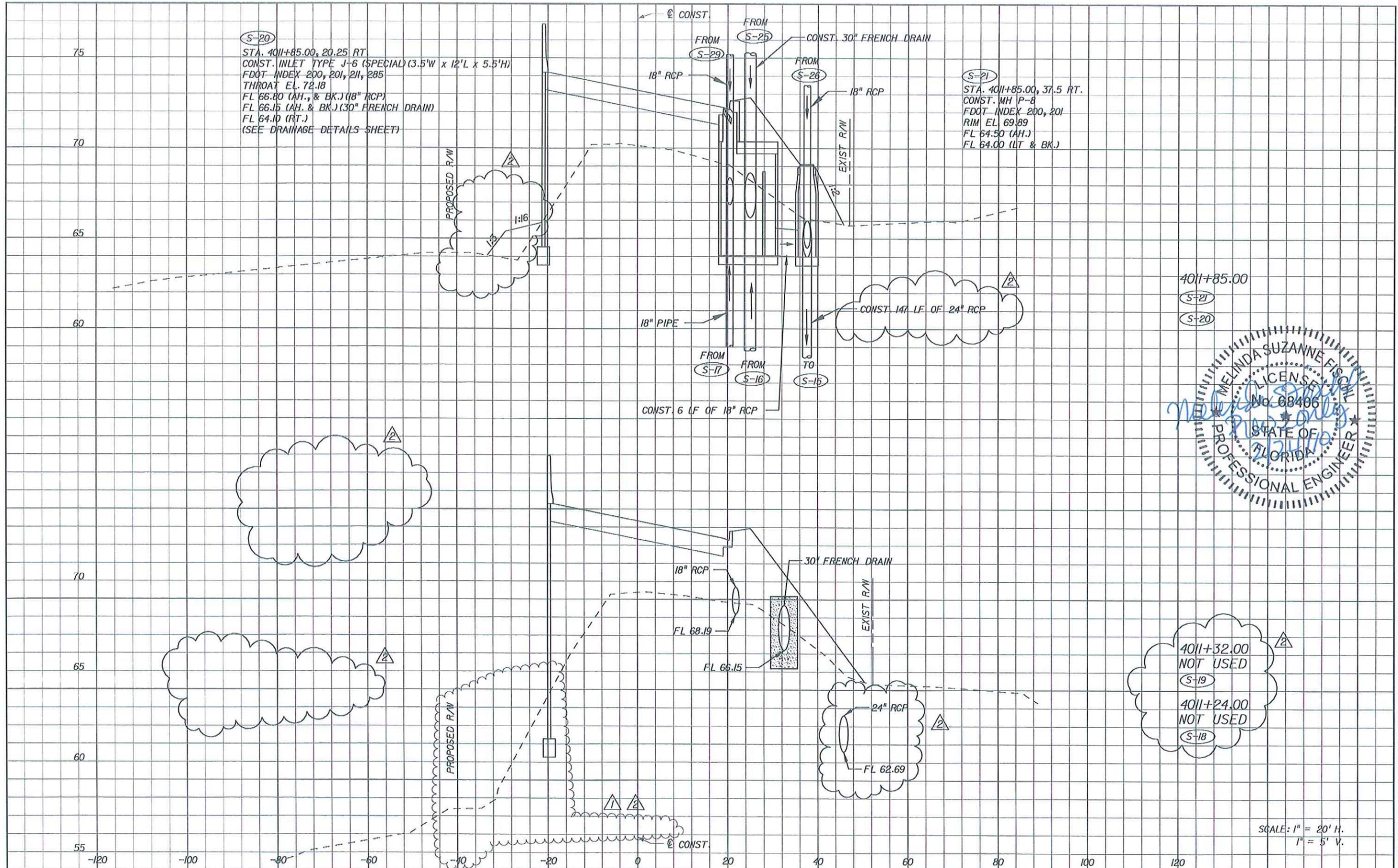
HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593



**PICCIOLA ROAD
 DRAINAGE STRUCTURES**

SHEET NO.
 32

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



4011+32.00 NOT USED
S-19

4011+24.00 NOT USED
S-18

SCALE: 1" = 20' H.
1" = 5' V.

REVISIONS		DATE	BY	DESCRIPTION
1	REVISED R/W AND DRAINAGE STRUCTURE	05/21/09	RMD	
2	REVISED FRENCH DRAIN SYSTEM	02/22/10	MSF	

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

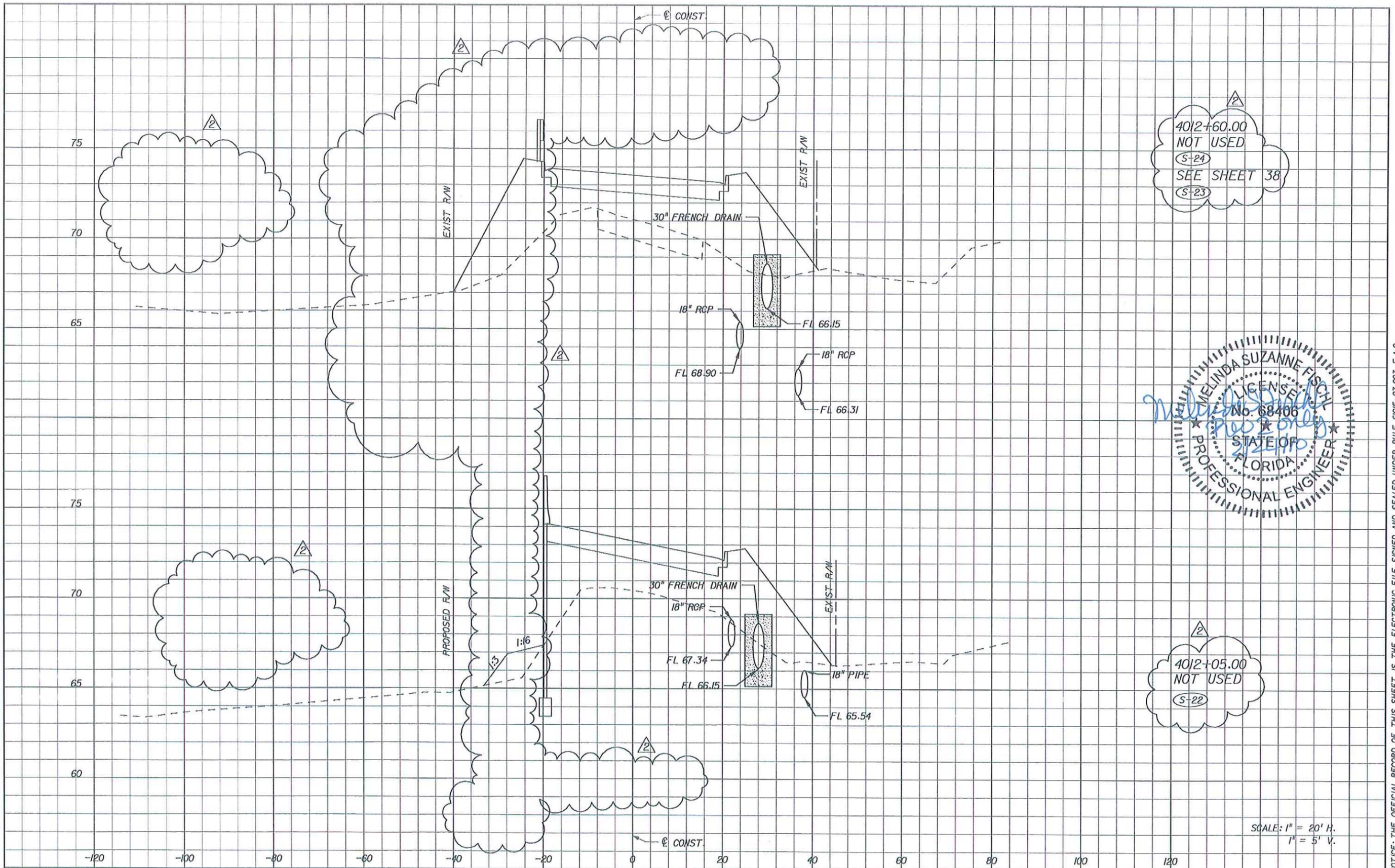
LAKE COUNTY
 FLORIDA

PICCIOLA ROAD
DRAINAGE STRUCTURES

SHEET NO.
33

SHEET NO. 9

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.



SCALE: 1" = 20' H.
1" = 5' V.

DATE		BY		DESCRIPTION	
02/22/10	MSF	△		REVISED FRENCH DRAIN SYSTEM	

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

LAKE COUNTY
 FLORIDA

PICCIOLA ROAD
DRAINAGE STRUCTURES

SHEET NO.
34

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SHEET NO. 10

← @ CONST.

(S-25)

STA. 4012+87.00, 29.3 RT.
CONST. MH P-8 (3'-5" DIA.)
(2' SUMP W/ WEEP HOLE)
FDOT INDEX 200, 201, 285
RIM EL. 73.00
FL 66.15 (BK.)

75

70

65

EXIST. R/W

EXIST. R/W

4012+87.00

(S-25)

CONST. 95 LF OF 30" FRENCH DRAIN

(S-20)



SCALE: 1" = 20' H.
1" = 5' V.

-120

-100

-80

-60

-40

-20

0

20

40

60

80

100

120

← @ CONST.

SHEET NO. II

DATE		BY	DESCRIPTION	REVISIONS		DATE	BY	DESCRIPTION
02/22/10	MSF	MSF	REVISED FRENCH DRAIN SYSTEM					

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500

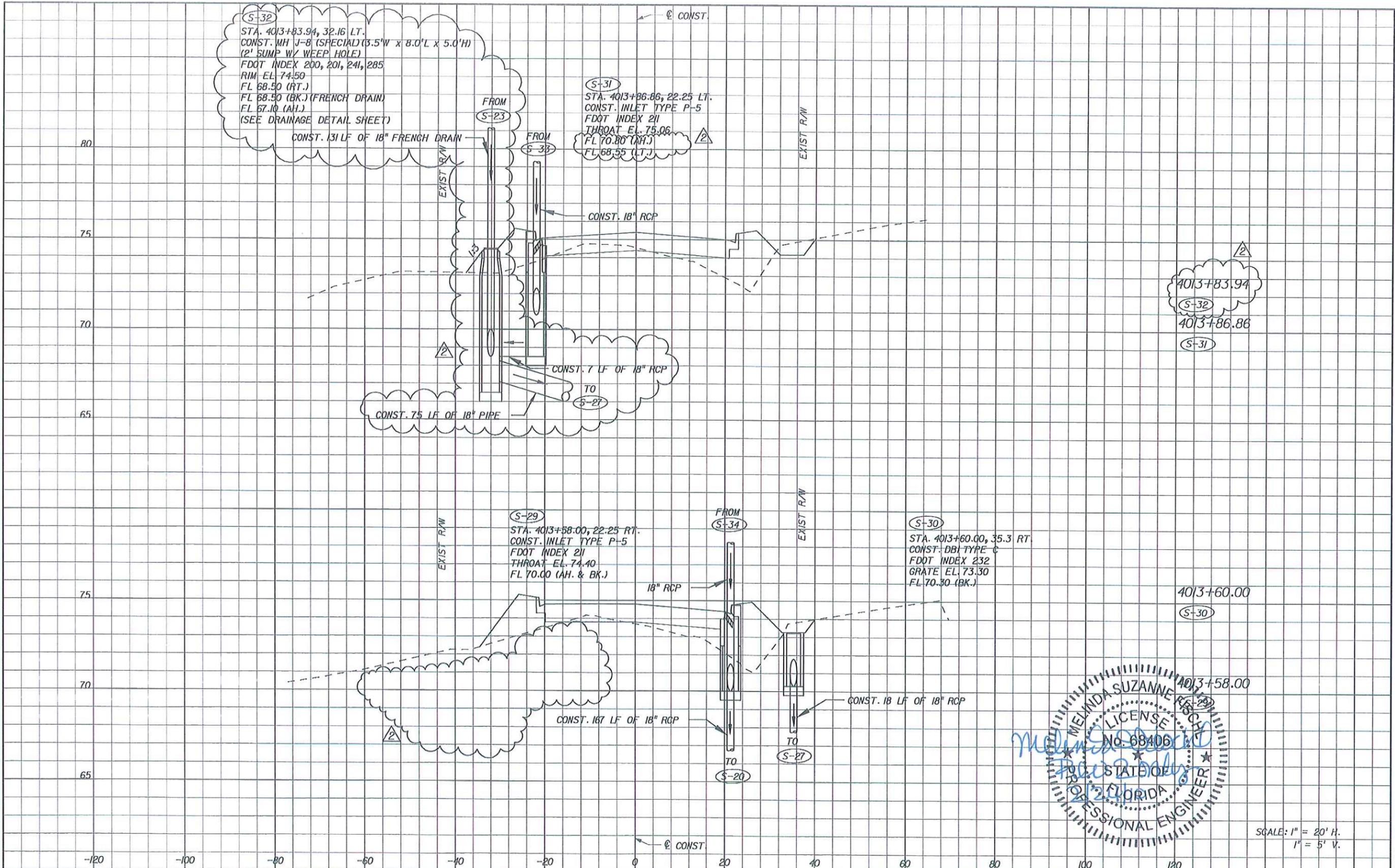
ENGINEER OF RECORD: ROBERT W. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

LAKE COUNTY
 FLORIDA

**PICCIOLA ROAD
DRAINAGE STRUCTURES**

SHEET NO.
35

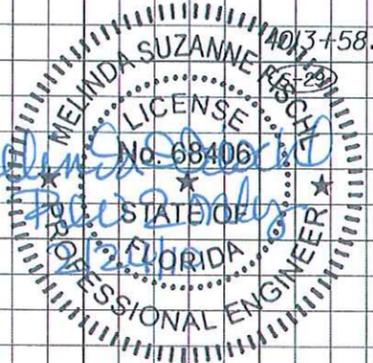
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



4013+83.94
 (S-32)
 4013+86.86
 (S-31)

4013+60.00
 (S-30)

4013+58.00
 (S-29)



SCALE: 1" = 20' H.
 1" = 5' V.

REVISIONS			
DATE	BY	DESCRIPTION	
02/22/10	MSF	REVISED FRENCH DRAIN SYSTEM	

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: ROBERT H. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

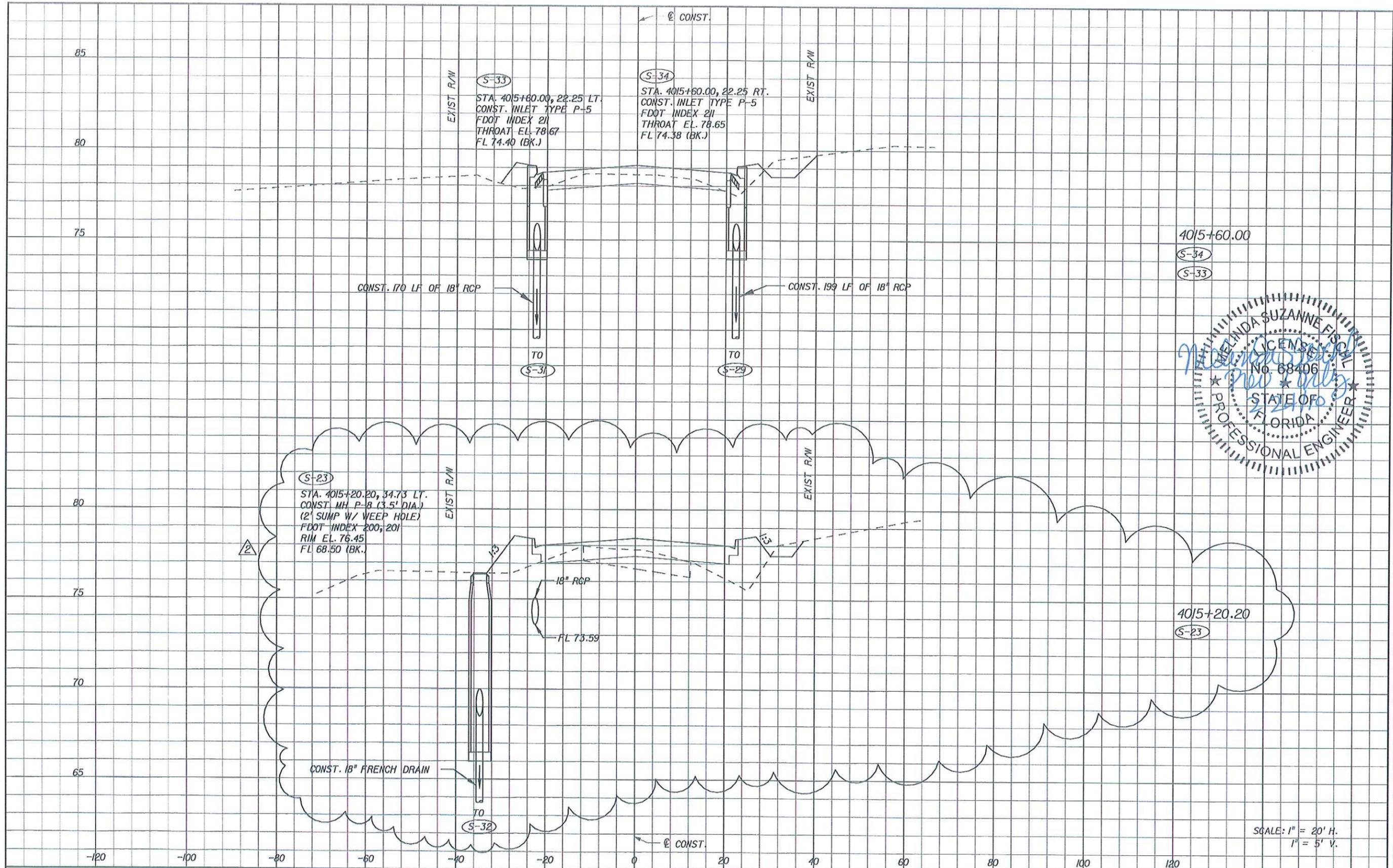


**PICCIOLA ROAD
 DRAINAGE STRUCTURES**

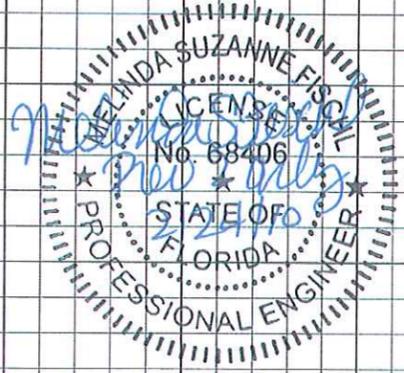
SHEET NO.
 37

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SHEET NO. 13



4015+60.00
 S-34
 S-33



4015+20.20
 S-23

SCALE: 1" = 20' H.
 1" = 5' V.

DATE		BY		DESCRIPTION	
02/22/10	MSF	△		REVISED FRENCH DRAIN SYSTEM	

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: ROBERT M. DENNEY, P.E.
 FL. REGISTRATION NO. 58593

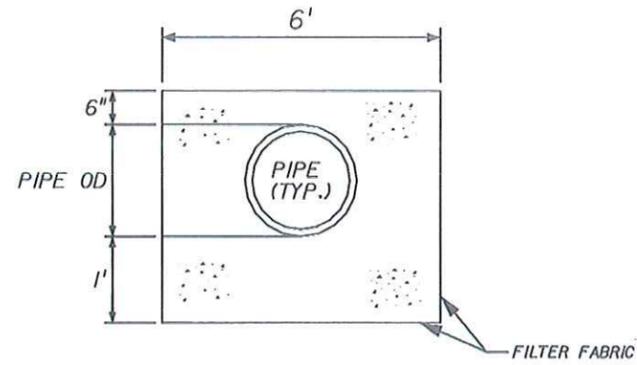


**PICCIOLA ROAD
 DRAINAGE STRUCTURES**

SHEET NO.
 38

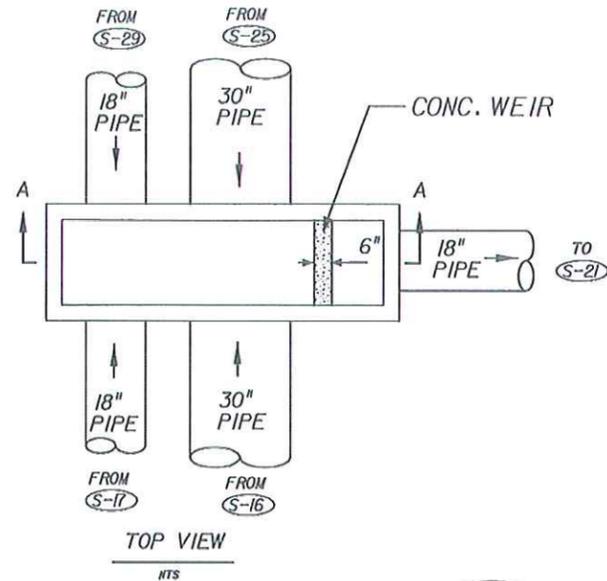
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.

SHEET NO. 11

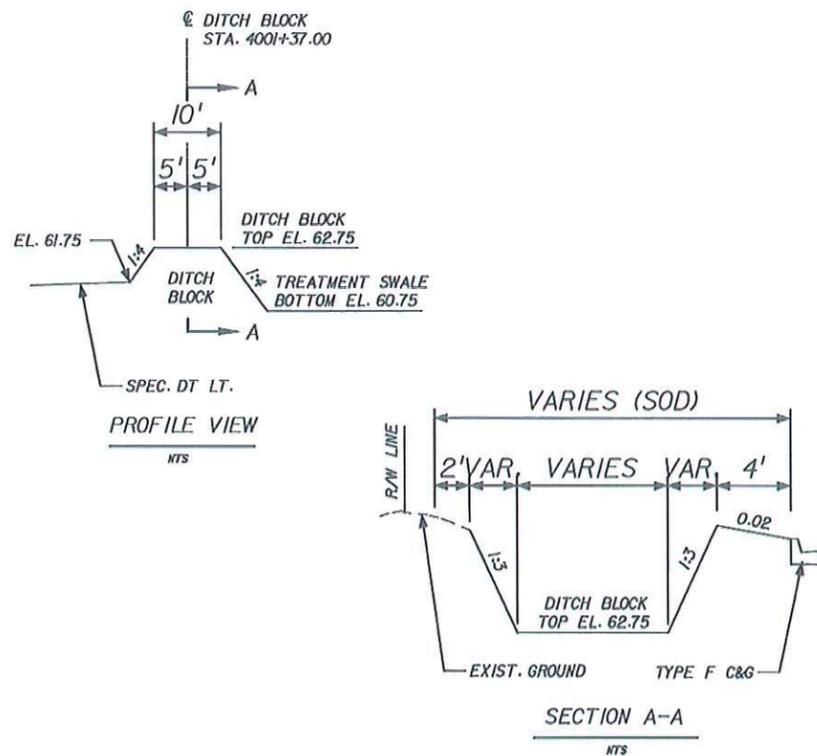
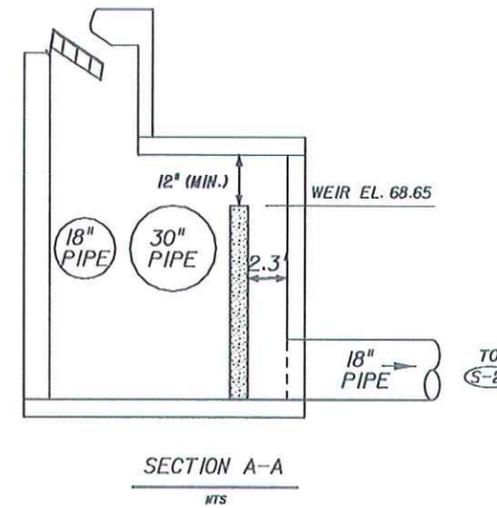


FRENCH DRAIN CROSS SECTION DETAIL
FDOT INDEX 285
NTS

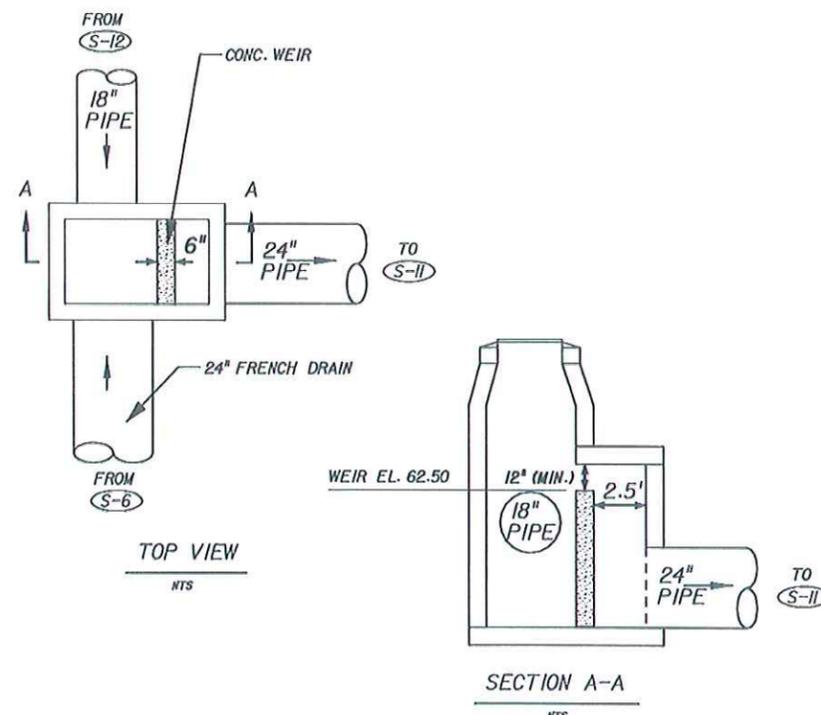
NOTE: COST OF FILTER FABRIC INCLUDED IN THE COST OF FRENCH DRAIN.



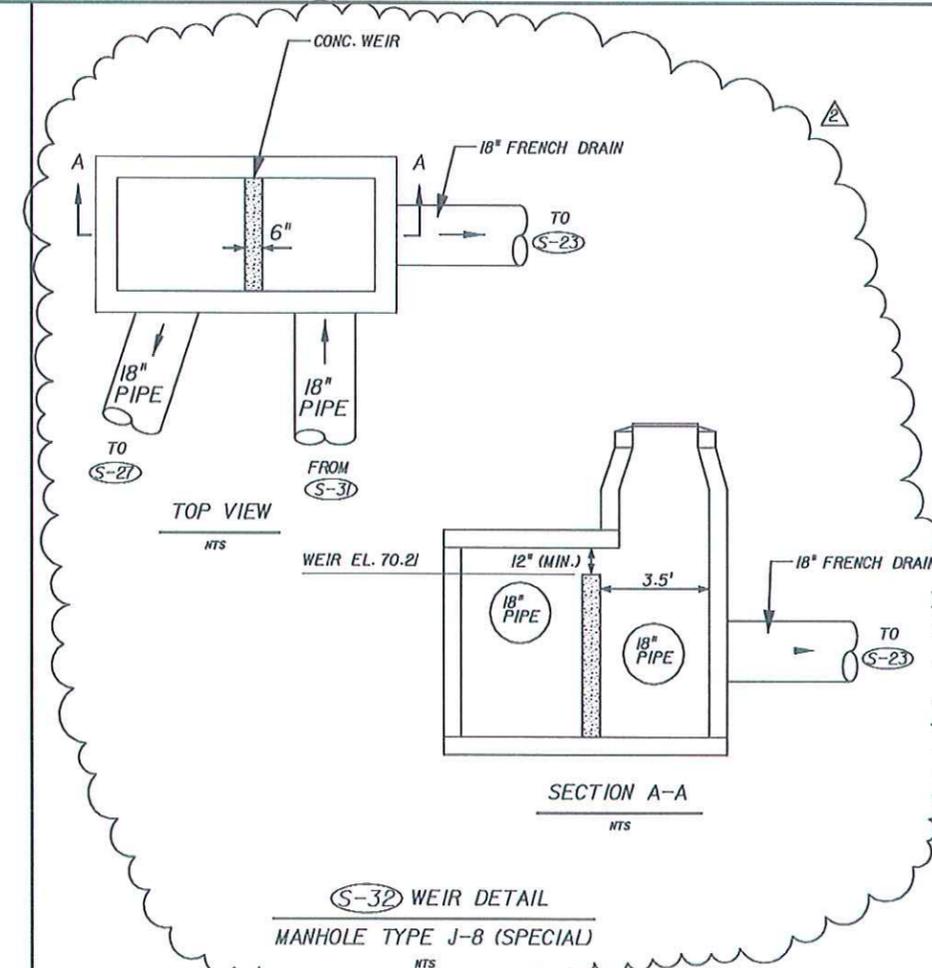
S-20 WEIR DETAIL
J-6 (SPECIAL)
NTS



DITCH BLOCK DETAIL
NTS



S-10 WEIR DETAIL
MANHOLE TYPE J-8 (SPECIAL)
NTS



S-32 WEIR DETAIL
MANHOLE TYPE J-8 (SPECIAL)
NTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
02/22/10	MSF	REVISED FRENCH DRAIN SYSTEM			

HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: ROBERT M. DEWNEY, P.E.
FL. REGISTRATION NO. 58593

LAKE COUNTY
FLORIDA

DRAINAGE DETAILS

SHEET NO.	41
-----------	----

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.