



76466-2

Drawings  
11" Wide  
1757



LAKE COUNTY  
FLORIDA  
**CONTRACT PLANS**

SOUTH HANCOCK ROAD  
FROM US 27 / SR 25 TO HARTWOOD MARSH ROAD

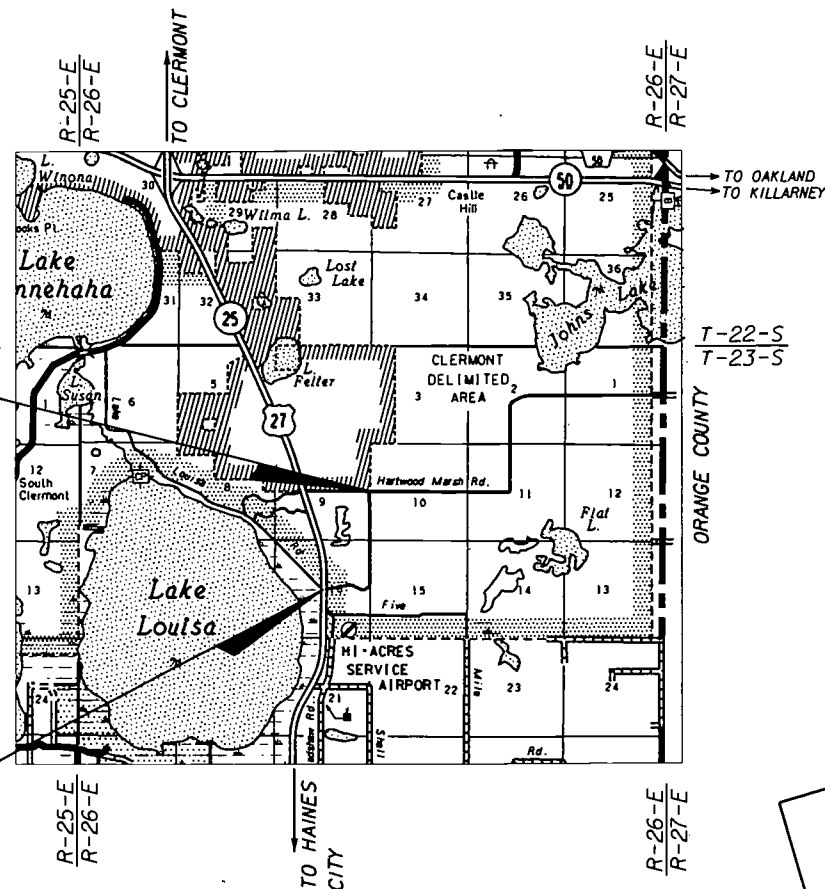
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GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED JANUARY 2008,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-08

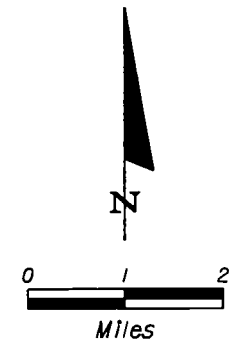
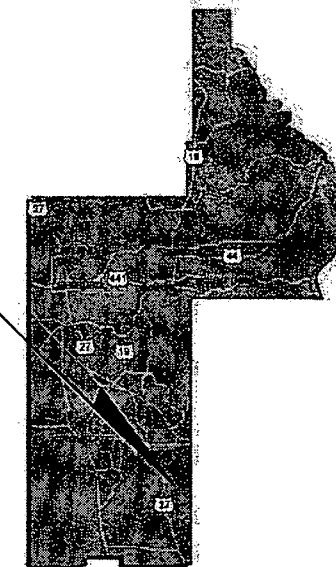
For Design Standards Modifications click on  
"Design Standards" at the following web site:  
<http://www.dot.state.fl.us/rddesign/>



END PROJECT STA 470+85.27

BEGIN PROJECT STA 400+45.98

PROJECT LOCATION



COUNTY MANAGER:  
CINDY HALL

COUNTY COMMISSIONERS:  
LINDA STEWERT  
DEBBIE STIVENDER  
JENNIFER HILL  
ELAINE RENICK  
WELTON CADWELL

ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

KAREN M. VAN DEN AVONT, PE  
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

**RAI SUBMITTAL  
JUNE 2008  
RECEIVED**

JUN 4 2008

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

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	7039.29	1.333
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	7039.29	1.333
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	7039.29	1.333

LAKE COUNTY PROJECT MANAGER: THOMAS MCCANN, P.E.

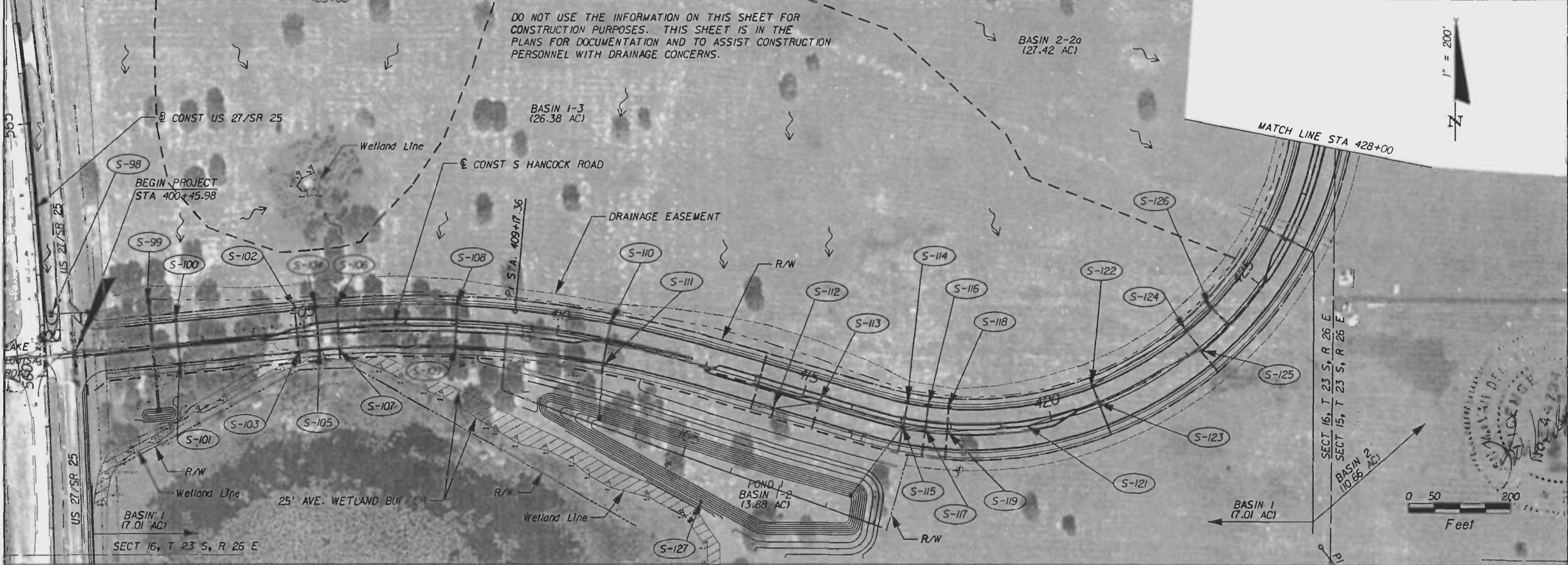
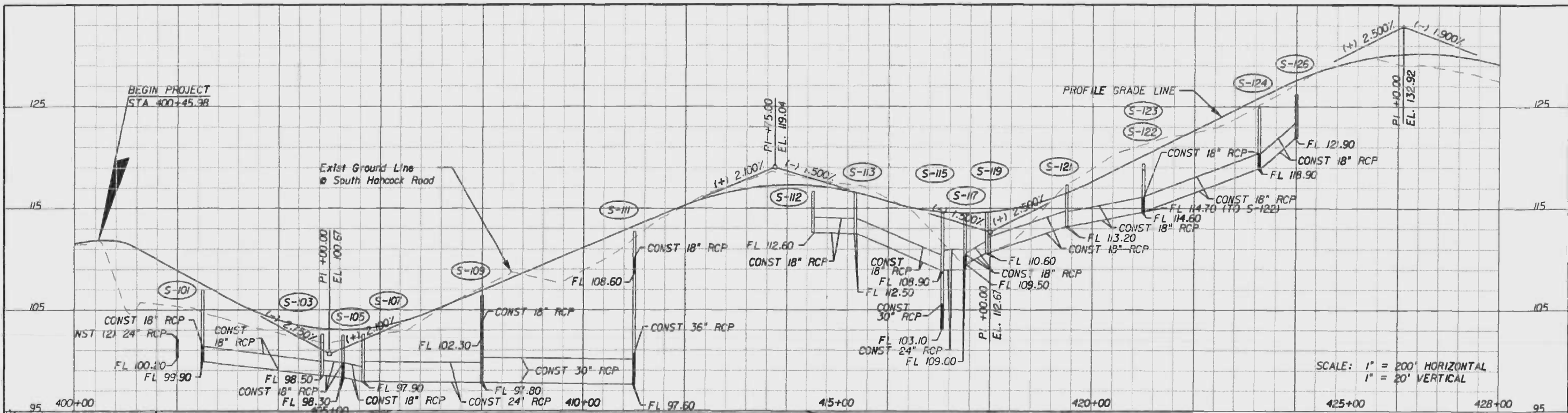
KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION
76466-2X-		

ROADWAY PLANS  
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, PE

P.E. NO.: 44794

SHEET NO.

1



REVISIONS		
DATE	BY	DESCRIPTION

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

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794

**LAKE COUNTY**  
 FLORIDA

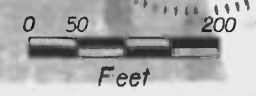
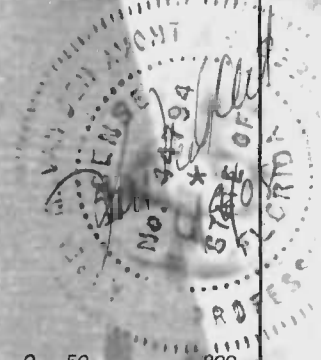
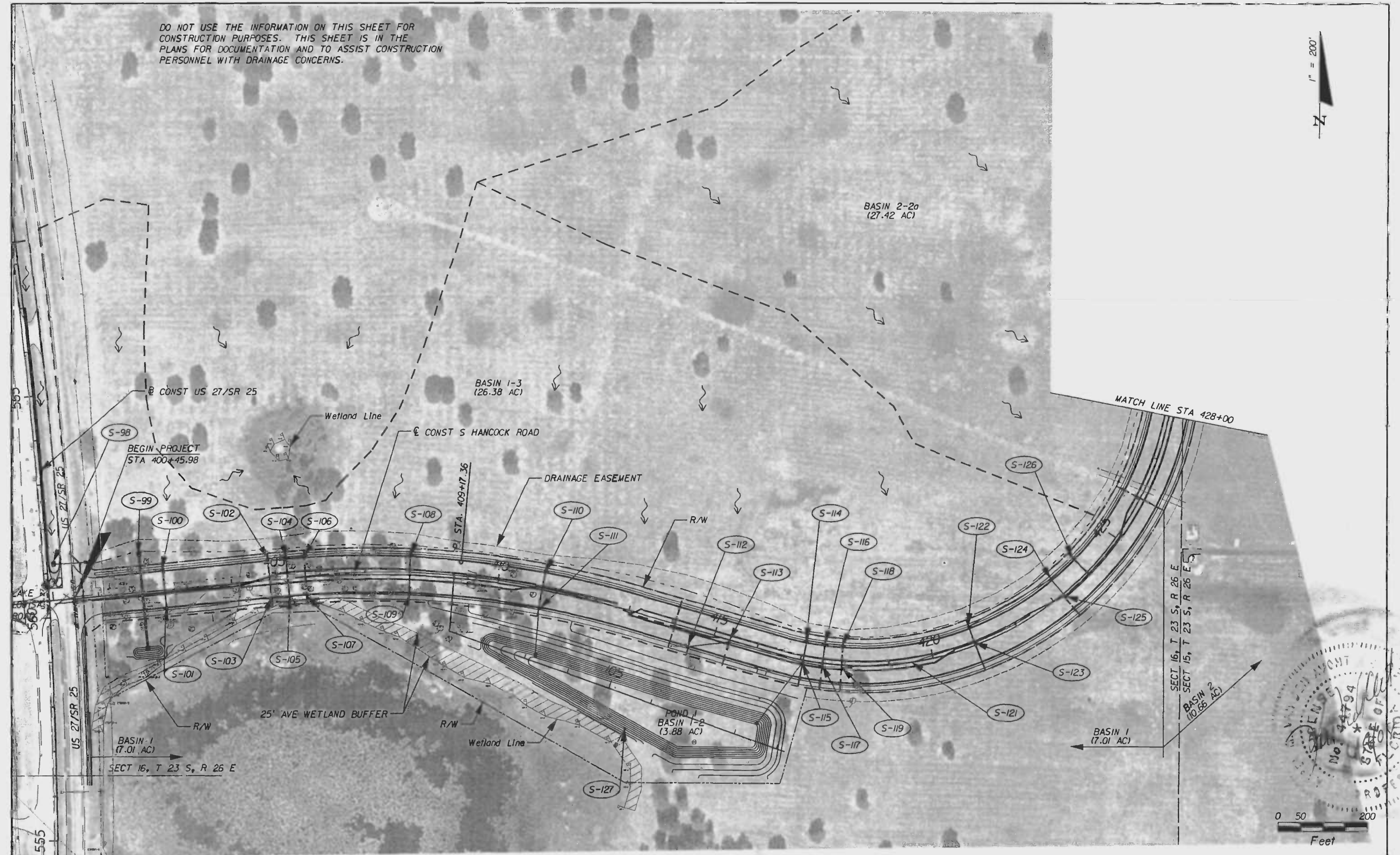
**SOUTH HANCOCK**  
**ROAD**

**DRAINAGE MAP**

SHEET NO.  
 2



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.



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 CERT. OF AUTH. NO. 6500

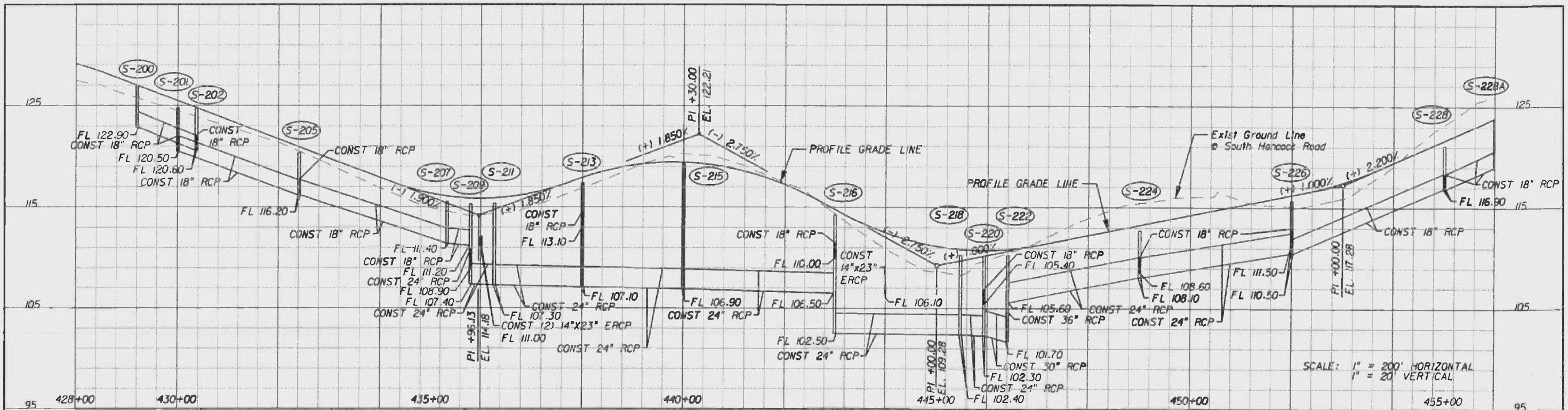
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



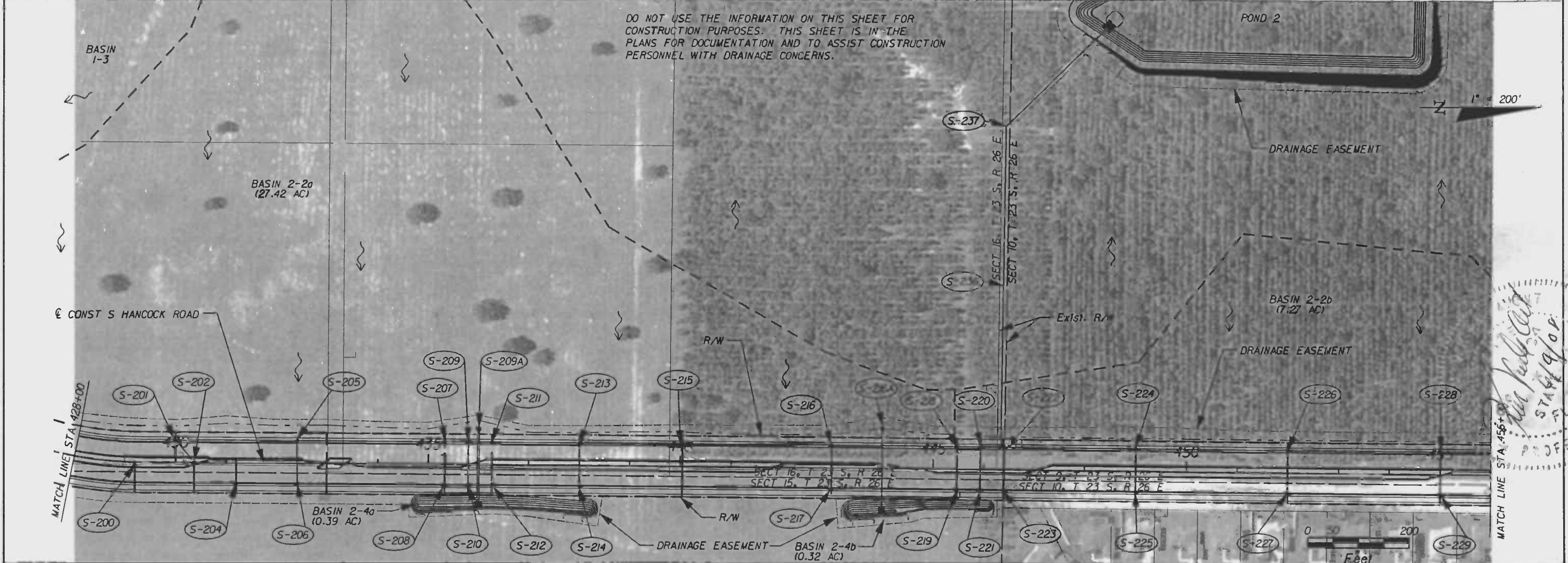
**SOUTH HANCOCK ROAD**

**DRAINAGE MAP**

SHEET NO.  
 3



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 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**DRAINAGE MAP**

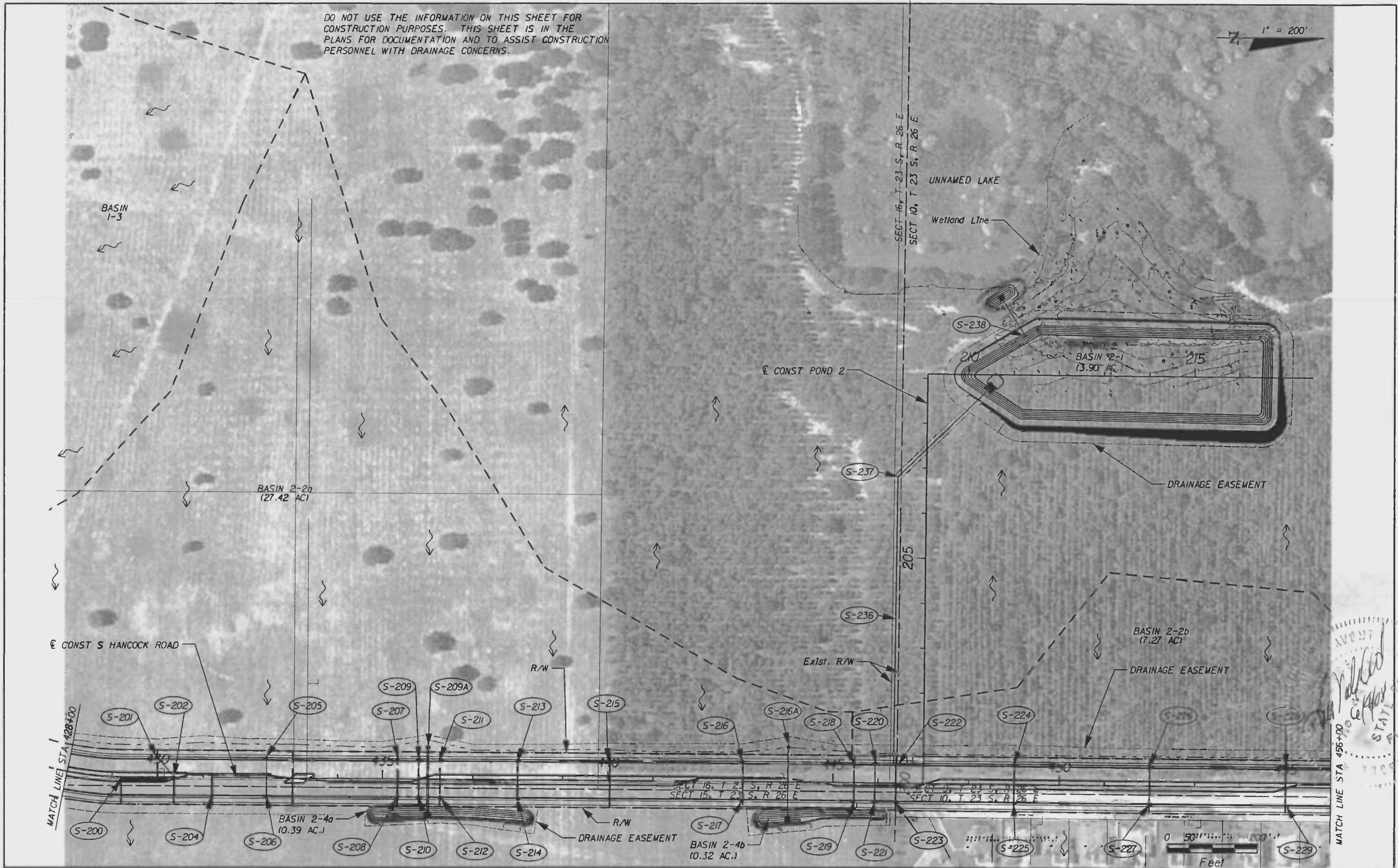
SHEET NO.  
4

*Handwritten signature and date: Karen M. Van Den Avont, 9/10/08*  
 PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 CERT. NO. 6500



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1" = 200'



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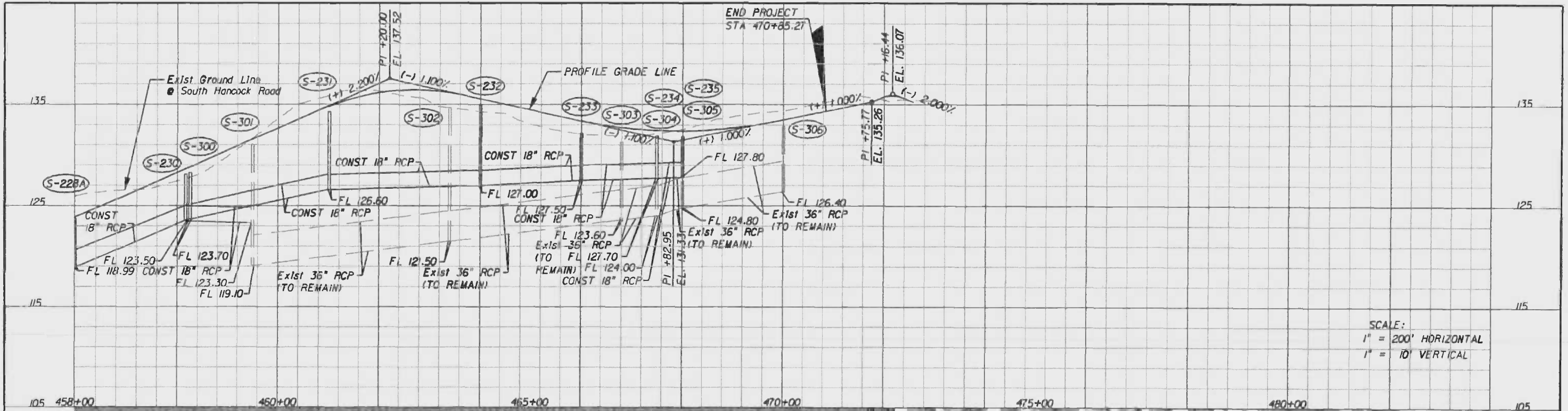
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**DRAINAGE MAP**

SHEET NO.  
5



SCALE:  
 1" = 200' HORIZONTAL  
 1" = 10' VERTICAL



REVISIONS		
DATE	BY	DESCRIPTION

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 CERT. OF AUTH. NO. 6500

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 FL. REGISTRATION NO. 44794

**LAKE COUNTY**  
 FLORIDA

**SOUTH HANCOCK**  
**ROAD**

**DRAINAGE MAP**

SHEET NO.  
 6





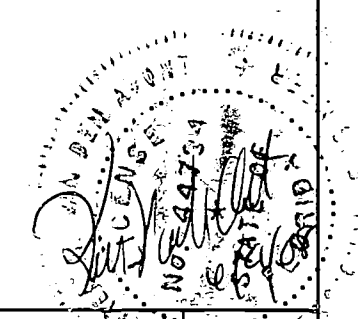




STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		4% PROB.	25 YR.FREQ.	1% PROB.	100 YR.FREQ.	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE	PROB. %	FREQ. YR.
		DISCHARGE	STAGE	DISCHARGE	STAGE								
S-99	402+00	2.79	101.15	9.44	102.07	15.77	103.09	.21	475				
S-209A	436+00	1.91	111.46	2.40	111.52	25.94	115.30	<.1	>500	2.82	111.56	.20	500
S-216A	444+00	0.676	106.50	0.849	106.55	13.26	110.75	<.1	>500	1.00	106.60	.20	500

**NOTE:** THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND AND STAGES ARE IN FEET, NAVD, 1988.

**DEFINITIONS:**

- DESIGN FLOOD: THE FLOOD SELECTED BY F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.
- BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)
- OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.
- GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)




REVISIONS		 HNTB CORPORATION 300 PRIMA BLVD, SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794	 LAKE COUNTY FLORIDA	SOUTH HANCOCK ROAD	FLOOD DATA TABLE	SHEET NO.
DATE	BY					DESCRIPTION

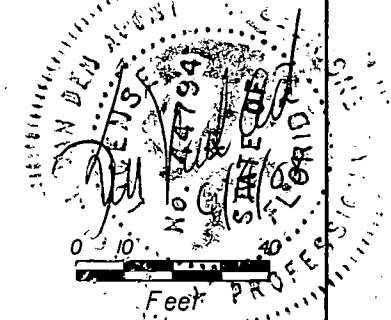
SEE PLAN SHEET LAKE LOUISA ROAD FOR ADDITIONAL INFORMATION

STA 399+90.35  
 @ CONST SOUTH HANCOCK ROAD =  
 STA 560+38.21  
 @ CONST US 27 / SR 25

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION

SEE PLAN SHEET US 27 / SR 25 FOR ADDITIONAL INFORMATION

**LEGEND**  
 WIDENING



REVISIONS		
DATE	BY	DESCRIPTION

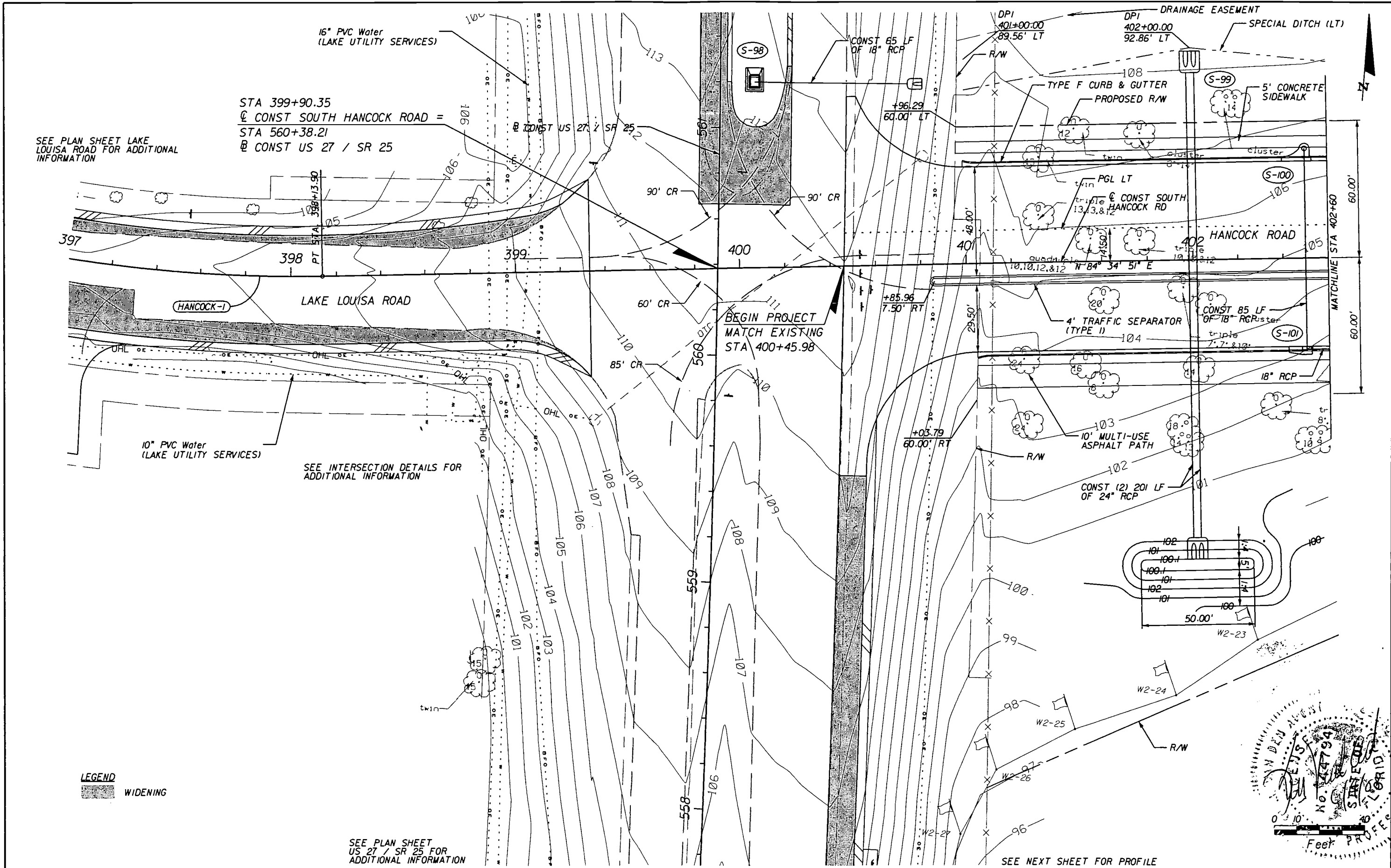
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 CERT. OF AUTH. NO. 6500  
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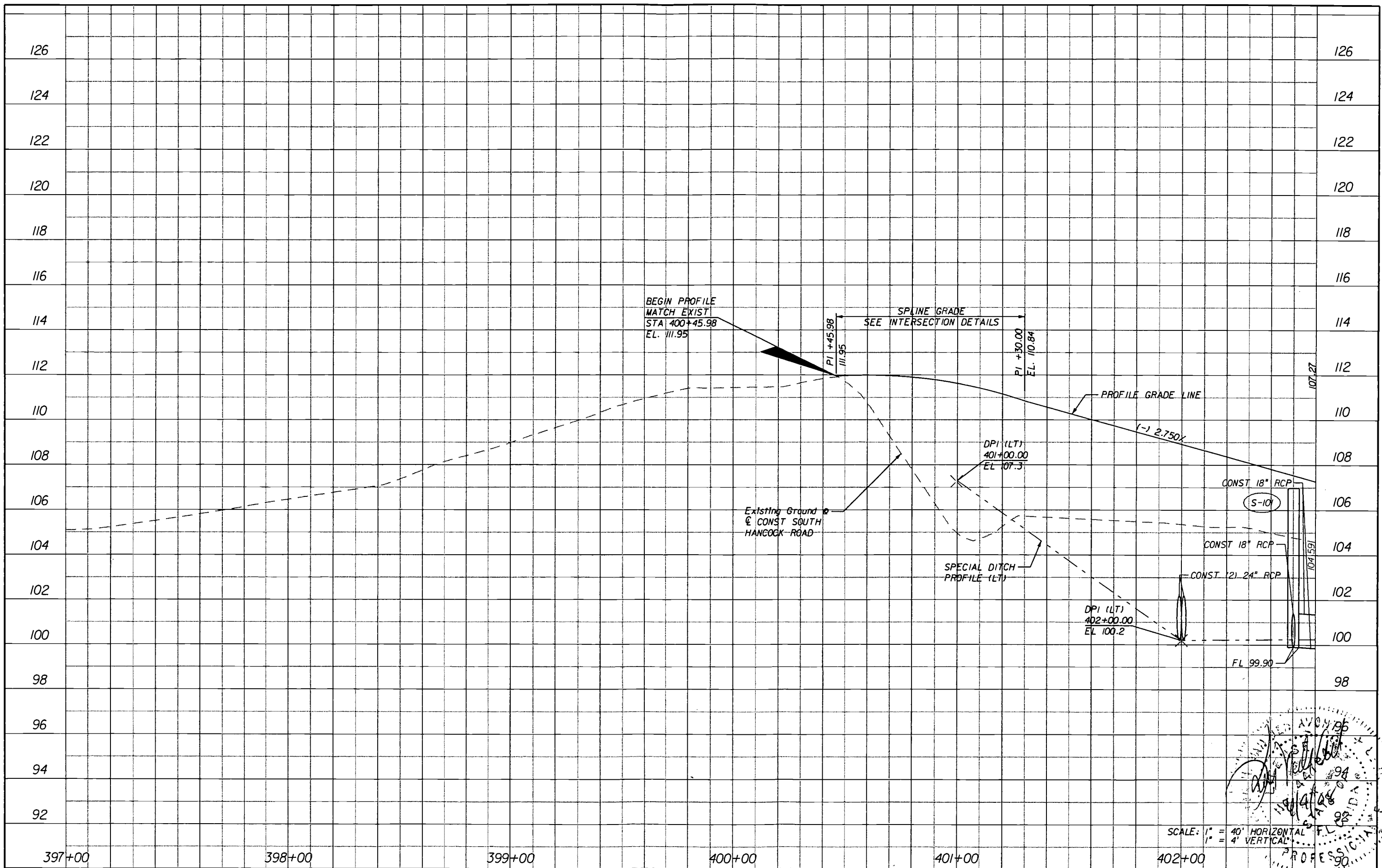
**SOUTH HANCOCK ROAD**

**PLAN SHEET**

SHEET NO.  
19



SEE NEXT SHEET FOR PROFILE



REVISIONS	
DATE	DESCRIPTION

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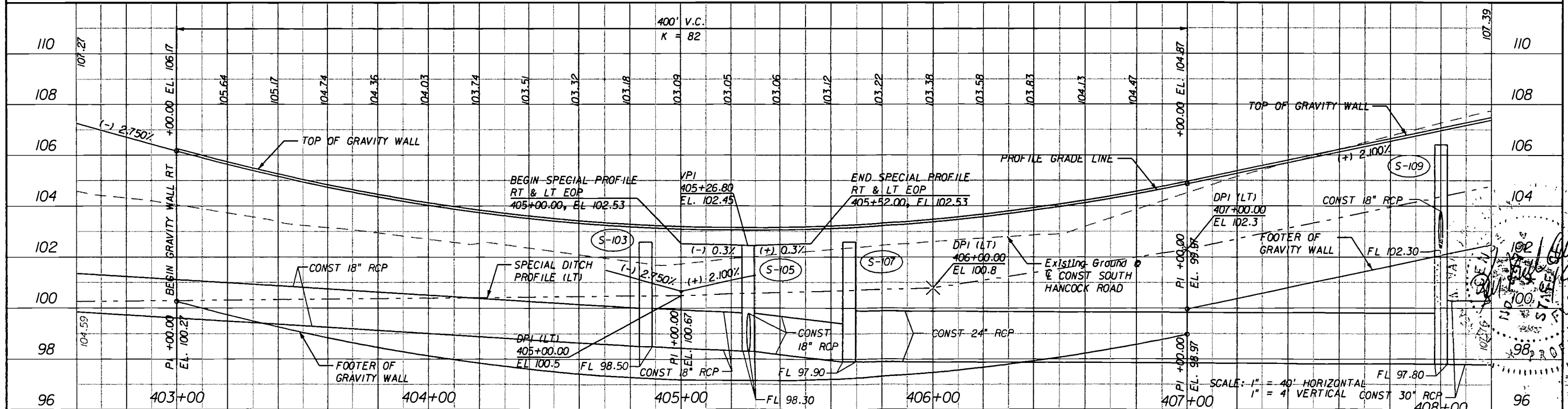
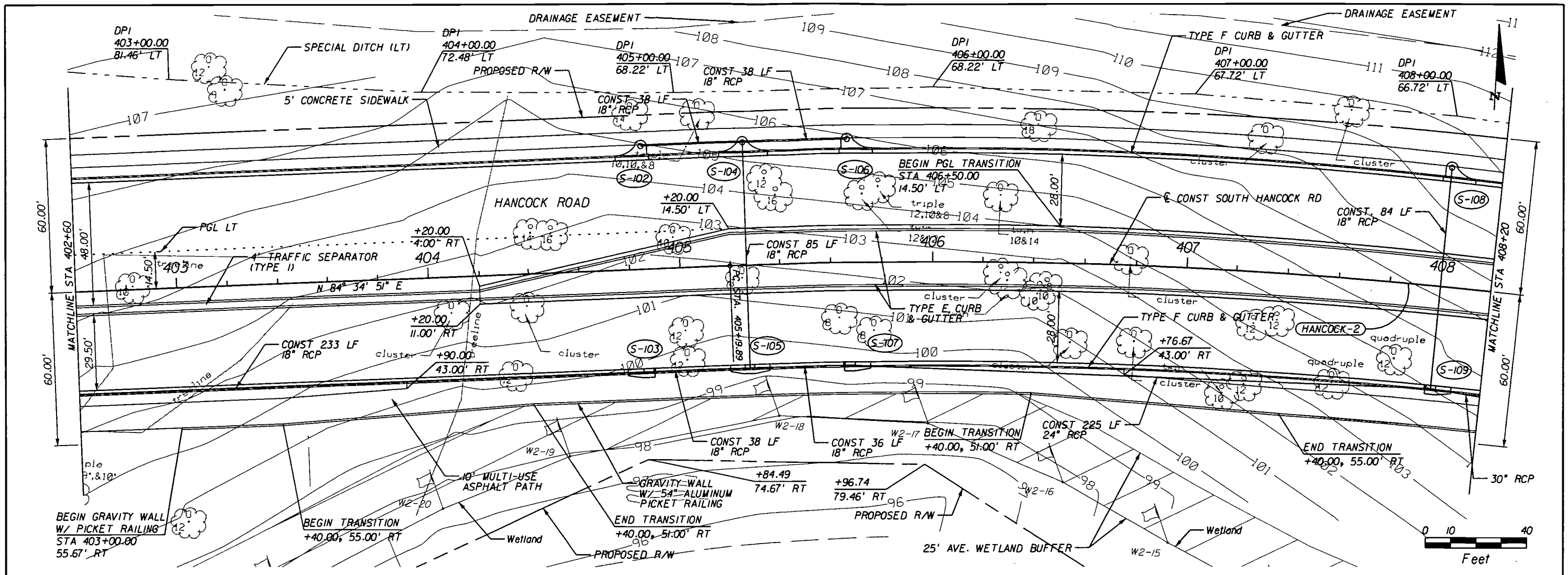


**SOUTH HANCOCK ROAD**

**PLAN AND PROFILE**

SHEET NO.  
19A





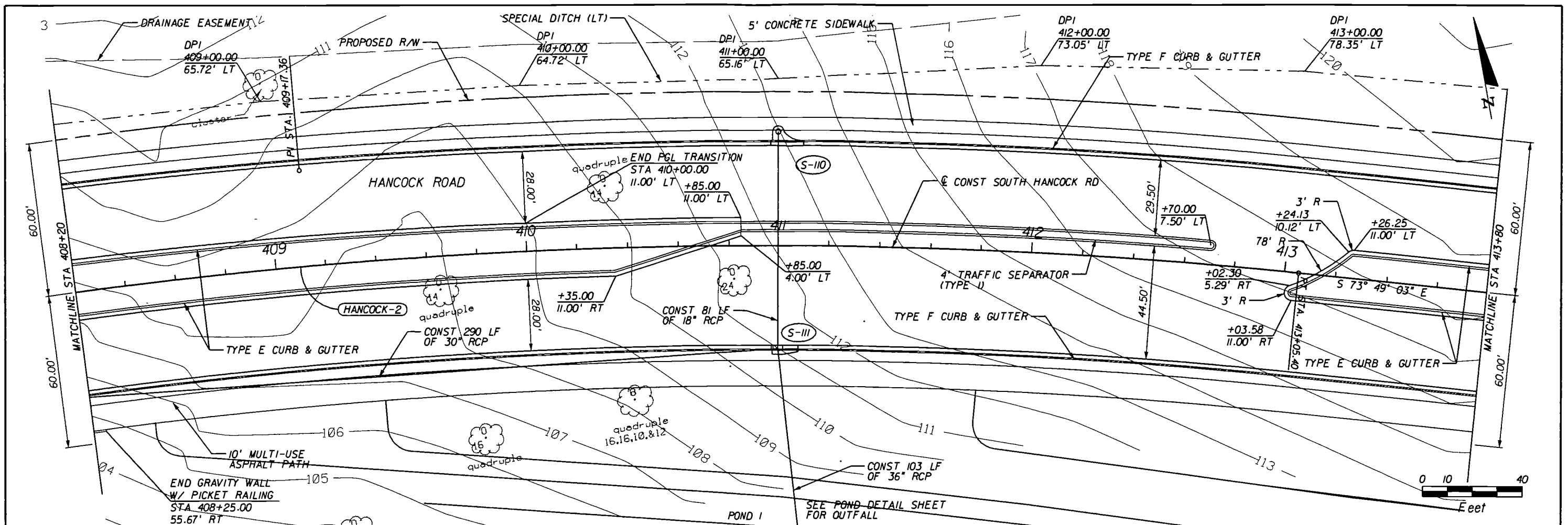
REVISIONS		
DATE	BY	DESCRIPTION

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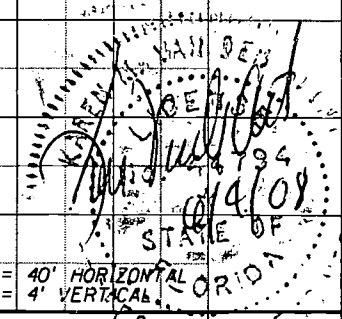


**SOUTH HANCOCK ROAD**

**PLAN AND PROFILE**  
 SHEET NO. 20



SEE NEXT SHEET FOR PROFILE



SCALE: 1" = 40' HORIZONTAL  
1" = 4' VERTICAL

REVISIONS	
DATE	DESCRIPTION

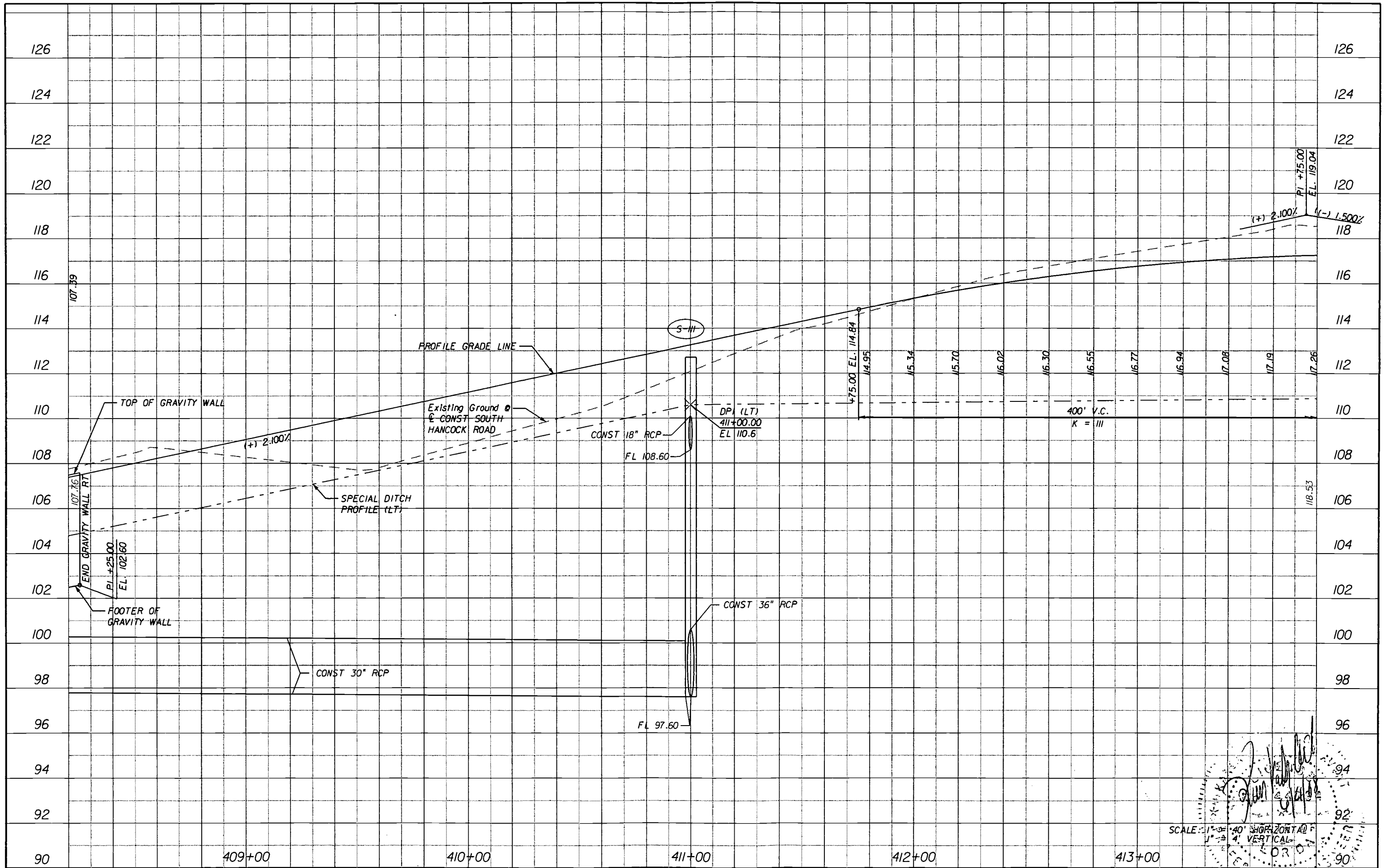
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 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**PLAN AND PROFILE**

SS10 SHEET NO. 21



SCALE: 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL  
 FOR RECORD

REVISIONS	
DATE	DESCRIPTION

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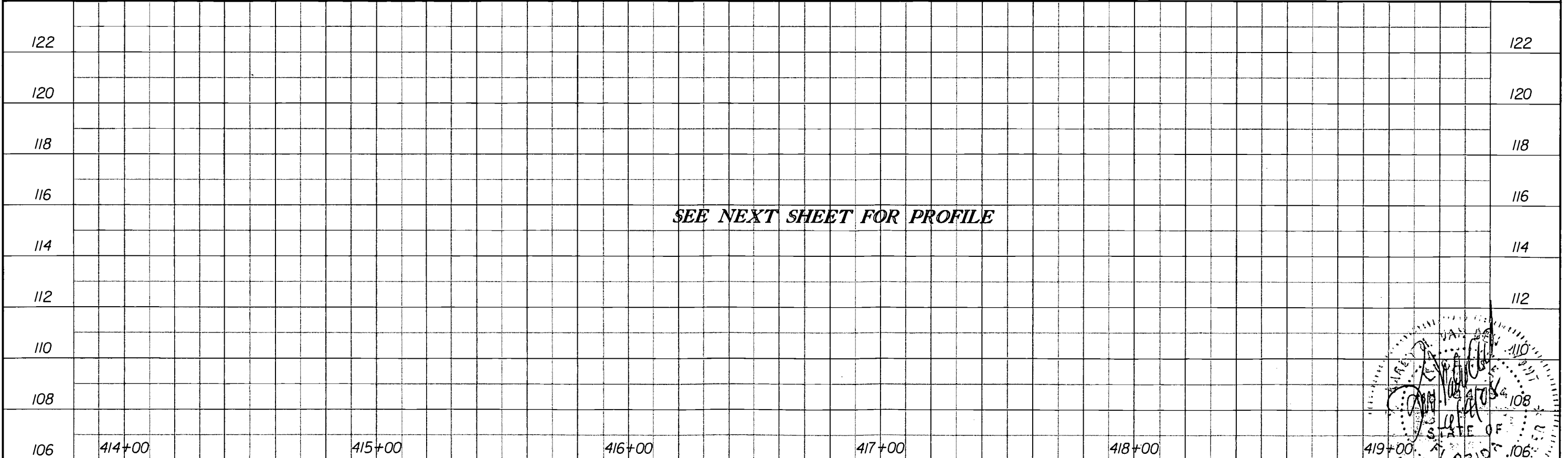
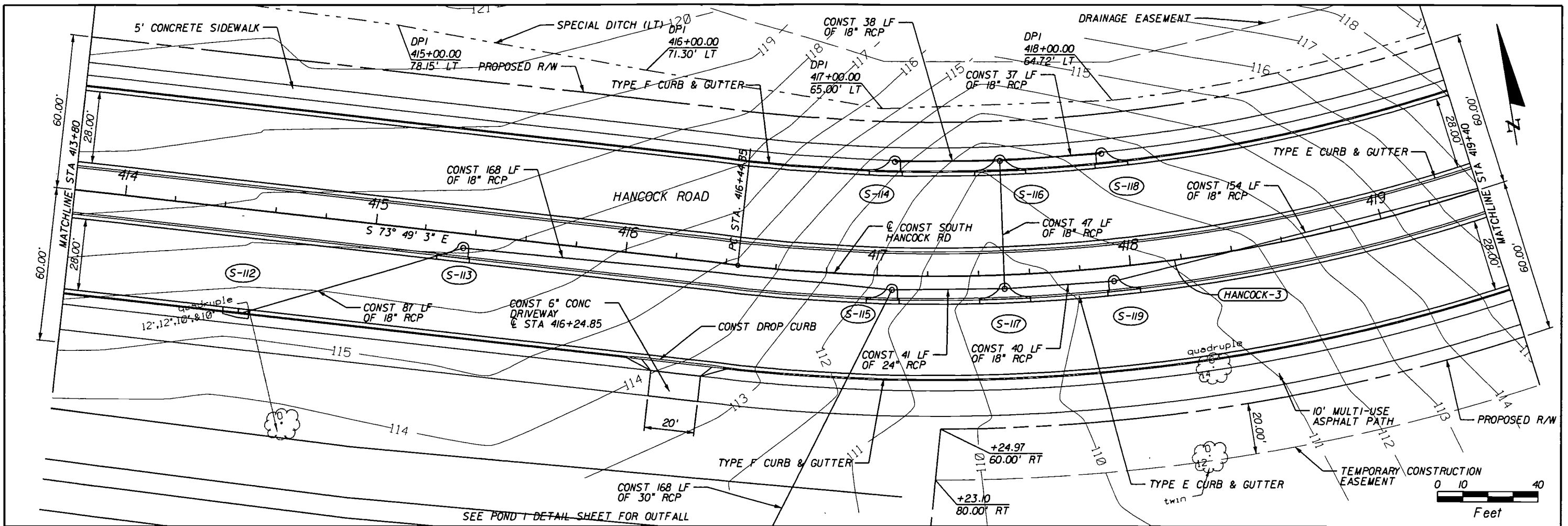


**SOUTH HANCOCK ROAD**

**PLAN AND PROFILE**

SHEET NO.  
 22





REVISIONS	
DATE	DESCRIPTION

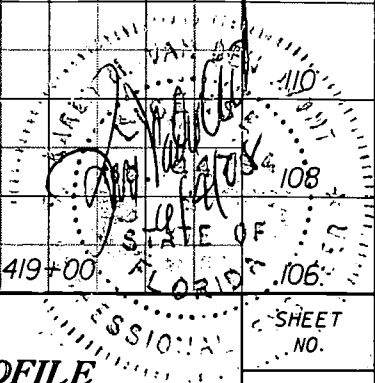
**HNTB**  
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 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
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 FL. REGISTRATION NO. 44794

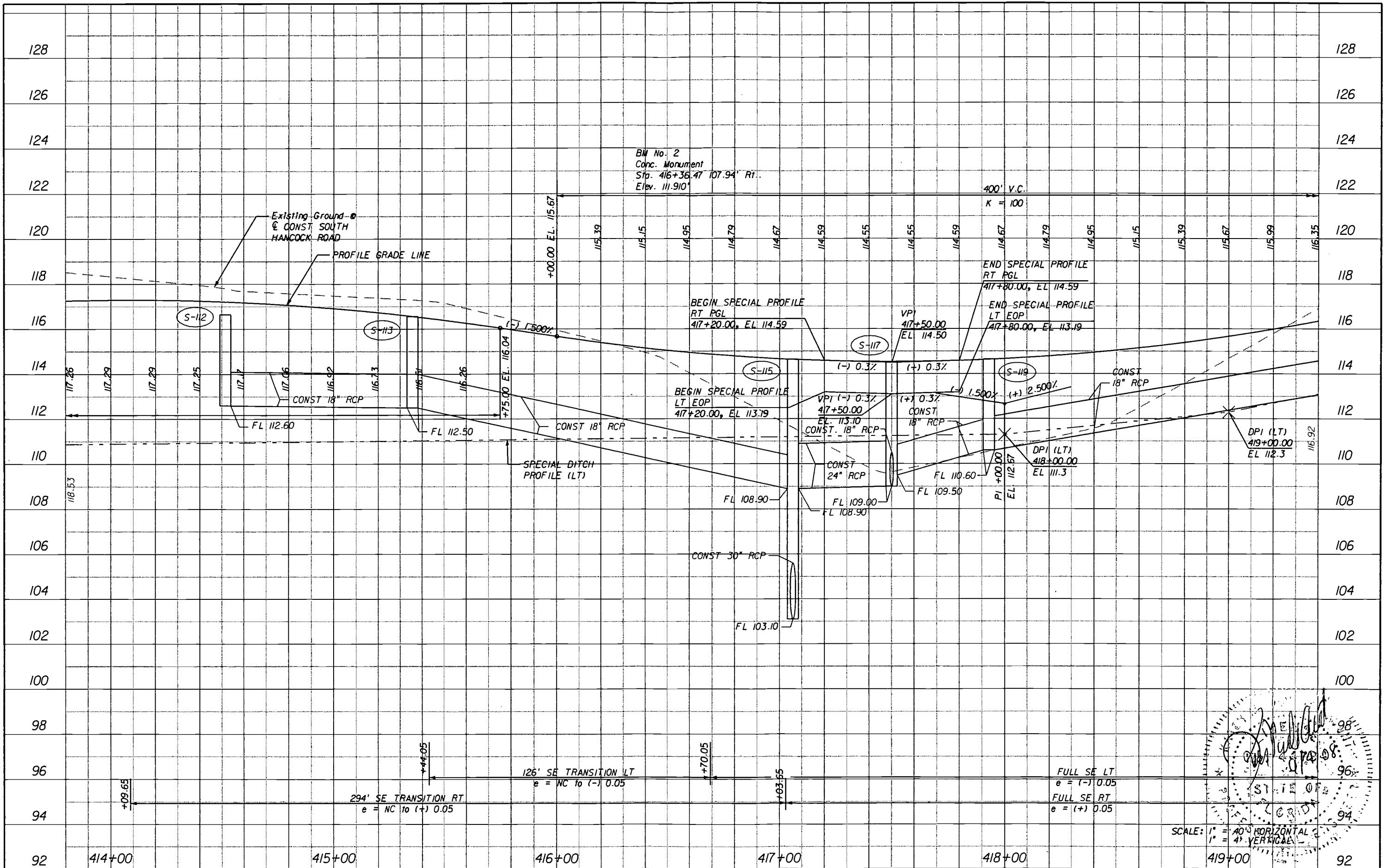


**SOUTH HANCOCK ROAD**

**PLAN AND PROFILE**

SHEET NO.  
 23





REVISIONS	
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 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



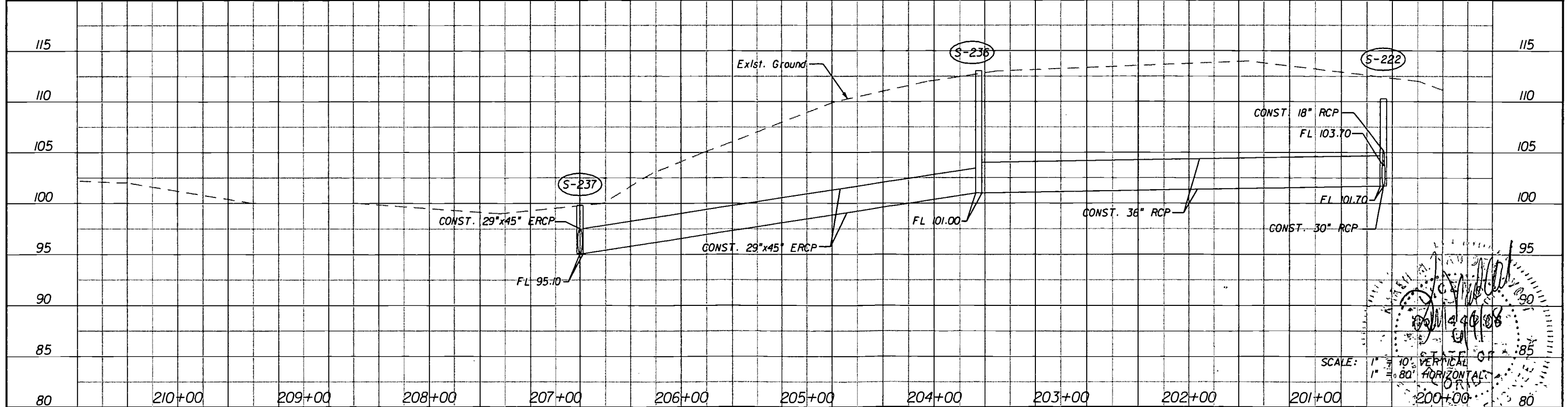
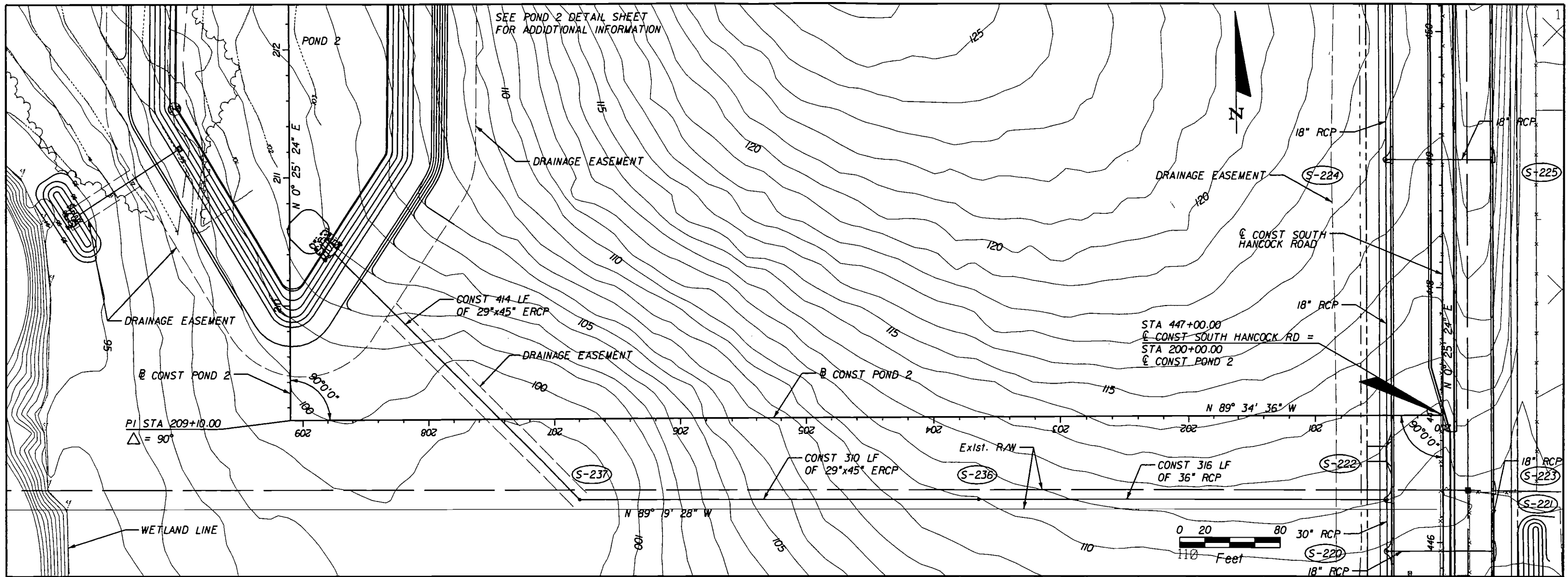
**SOUTH HANCOCK ROAD**

**PLAN AND PROFILE**

SHEET NO.  
24

SCALE: 1" = 40' HORIZONTAL  
 1" = 4' VERTICAL

SEE POND 2 DETAIL SHEET FOR ADDITIONAL INFORMATION



REVISIONS		
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 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**LATERAL OUTFALL PLAN AND PROFILE**

SHEET NO.  
41

SCALE: 1" = 10' VERTICAL OF 80' HORIZONTAL



CONST. SOUTH HANCOCK ROAD

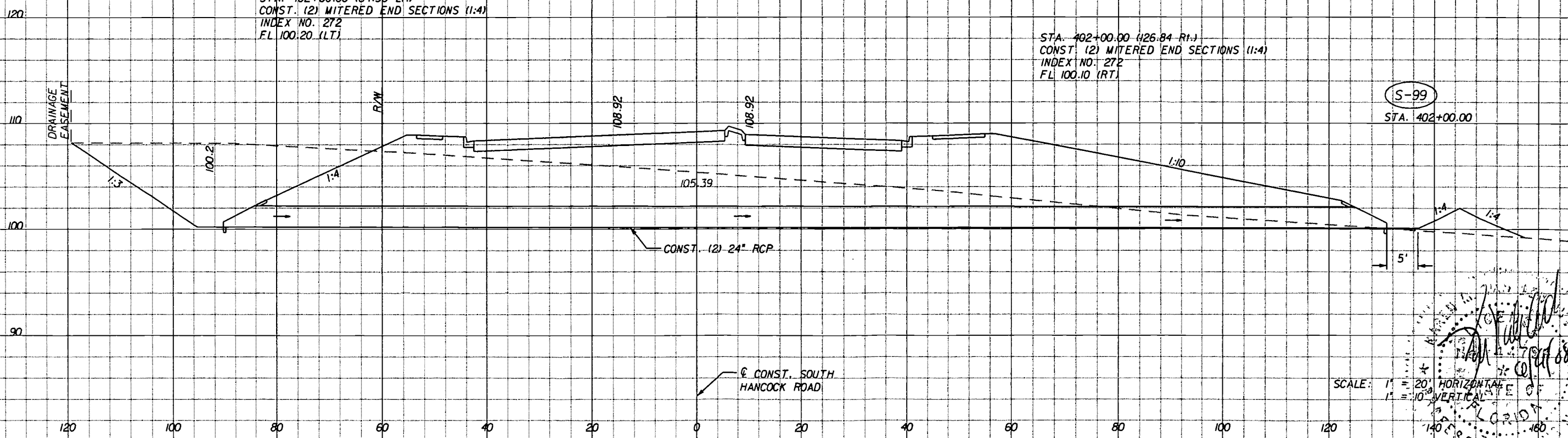
S-99

STA. 402+00.00 (84.36 Lt.)  
 CONST. (2) MITERED END SECTIONS (1:4)  
 INDEX NO. 272  
 FL 100.20 (LT)

STA. 402+00.00 (126.84 Rt.)  
 CONST. (2) MITERED END SECTIONS (1:4)  
 INDEX NO. 272  
 FL 100.10 (RT)

S-99

STA. 402+00.00



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

140 150 160

REVISIONS		
DATE	BY	DESCRIPTION

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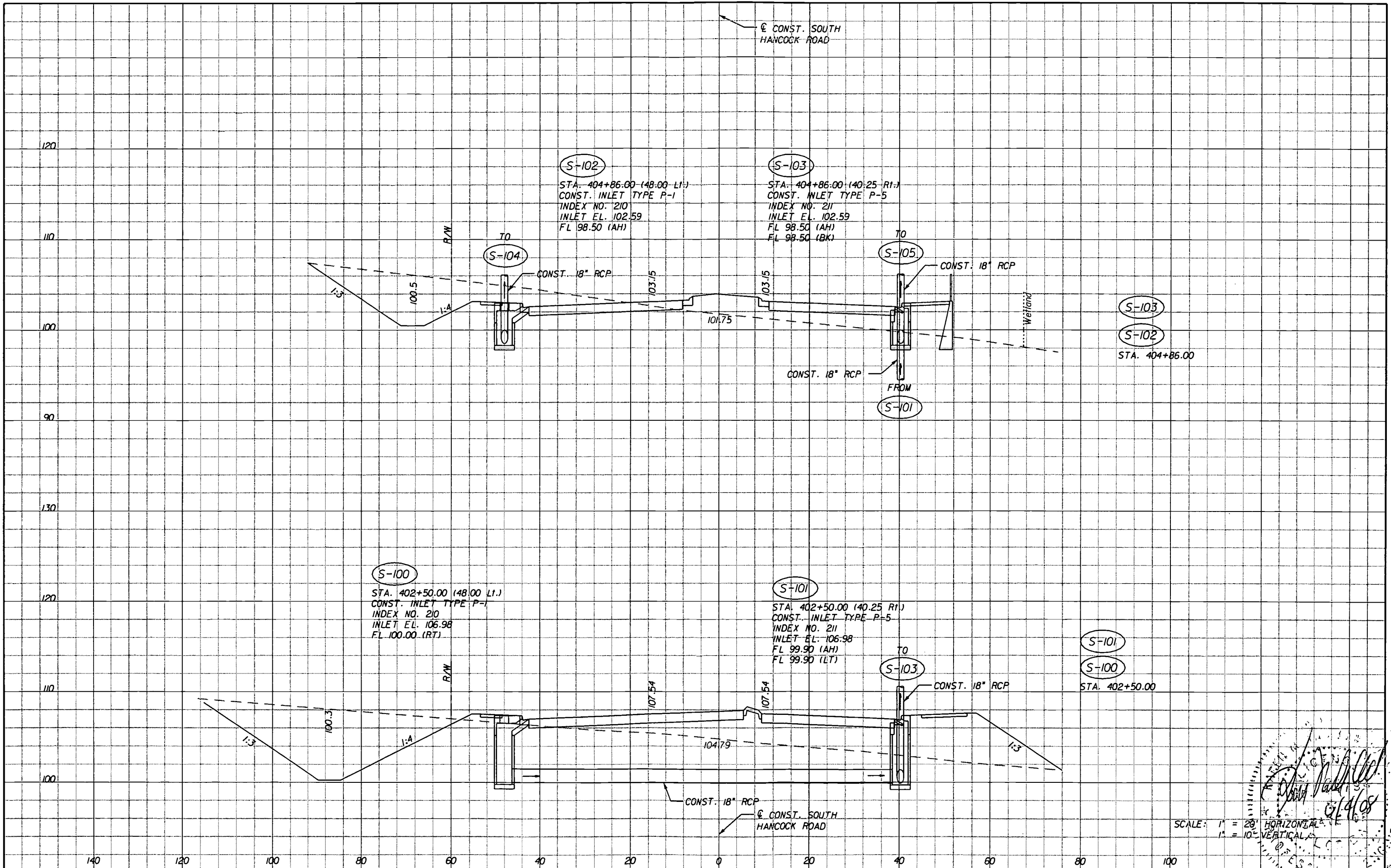
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES SOUTH HANCOCK ROAD**

SHEET NO.  
 43



REVISIONS		
DATE	BY	DESCRIPTION

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 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794

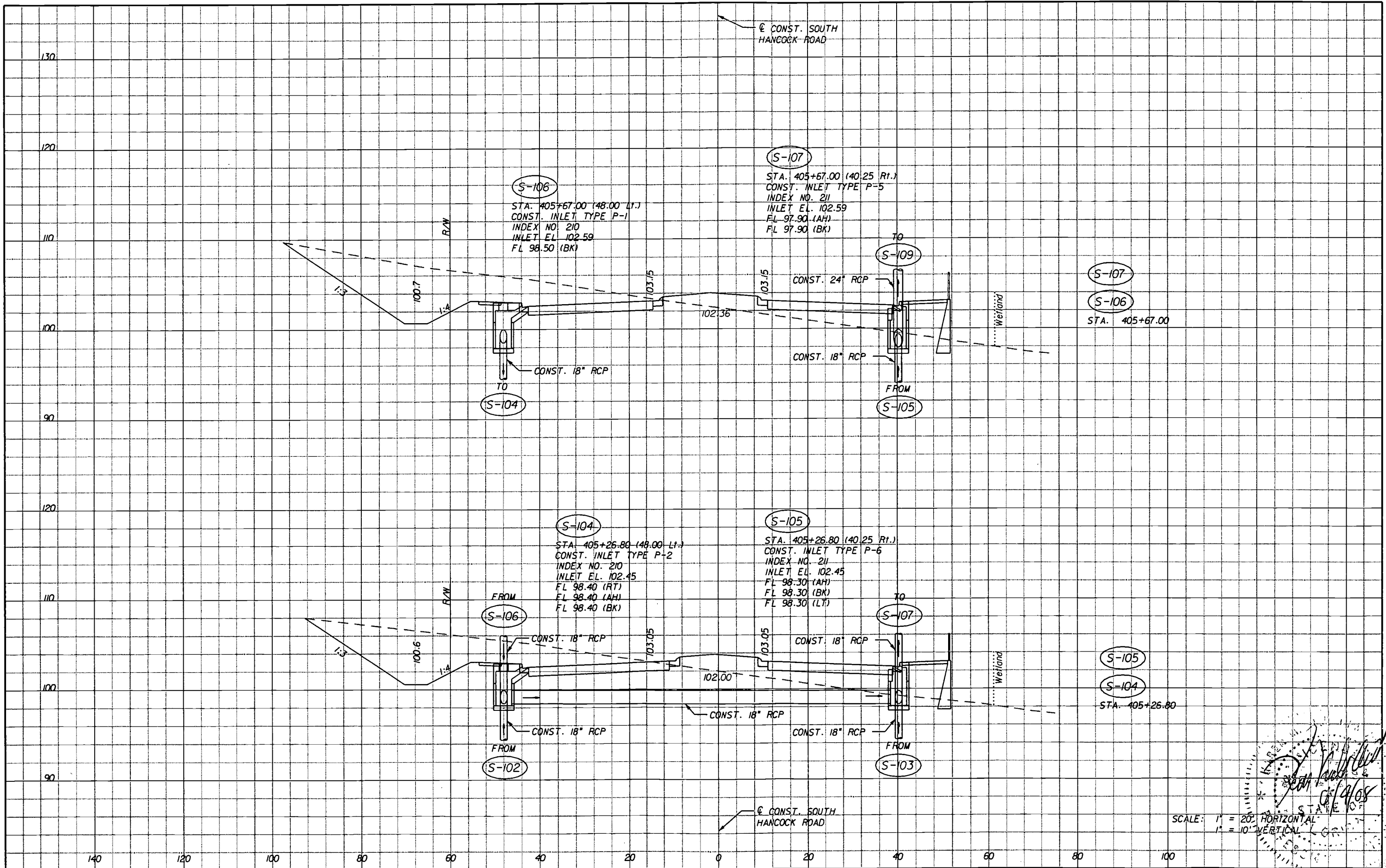


**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES  
 SOUTH HANCOCK ROAD**

SHEET NO. 44

SCALE: 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL  
 6/4/08



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

DATE: 07/24/08

REVISIONS		
DATE	BY	DESCRIPTION

**HNTB**  
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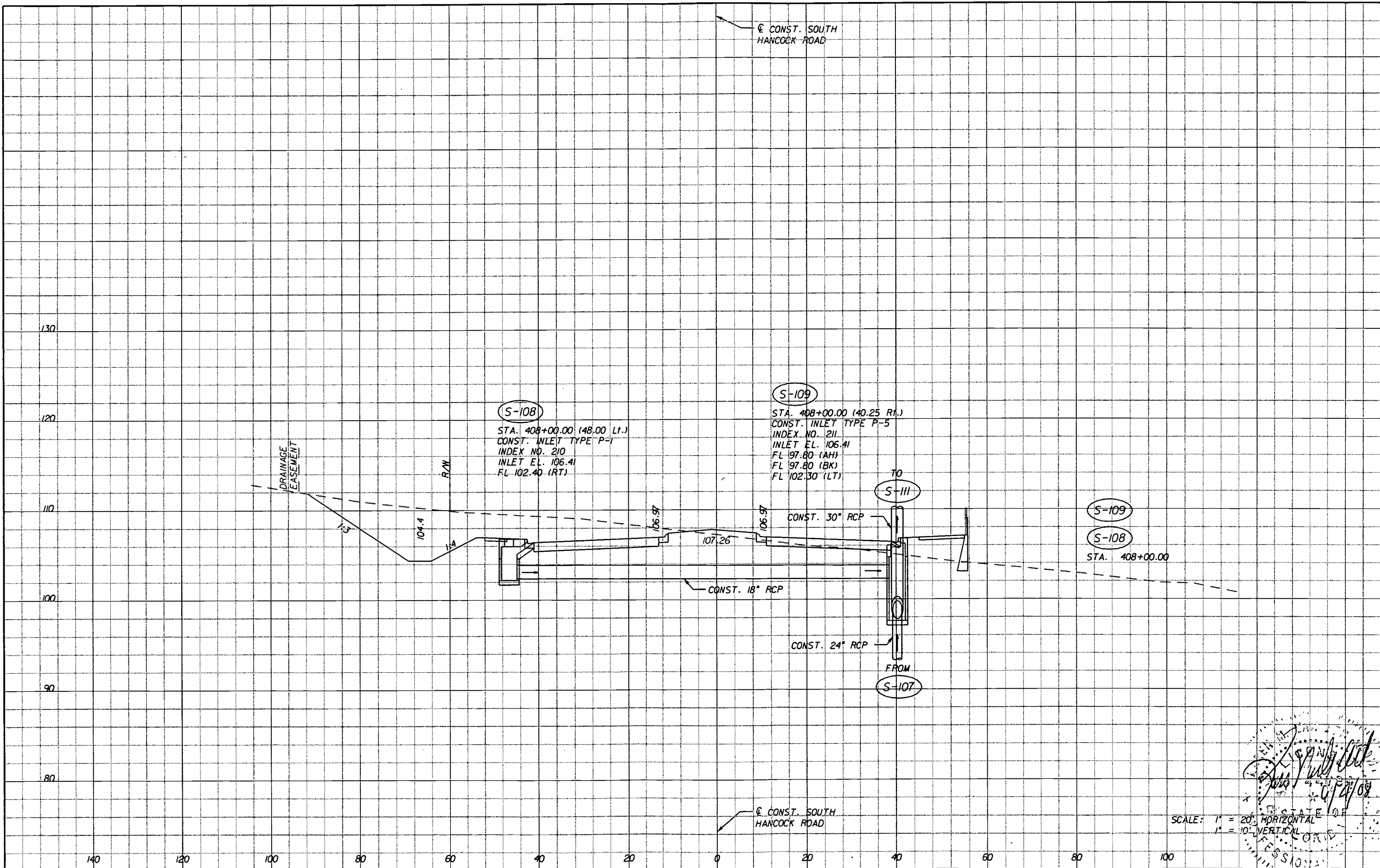


**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES  
 SOUTH HANCOCK ROAD**

SHEET NO.  
 45





**(S-108)**  
 STA. 408+00.00 (48.00 Lt.)  
 CONST. INLET TYPE P-5  
 INDEX NO. 210  
 INLET EL. 106.41  
 FL 102.40 (RT)

**(S-109)**  
 STA. 408+00.00 (40.25 Rt.)  
 CONST. INLET TYPE P-5  
 INDEX NO. 211  
 INLET EL. 106.41  
 FL 97.80 (AH)  
 FL 97.80 (BK)  
 FL 102.30 (LT)

**(S-109)**  
**(S-108)**  
 STA. 408+00.00

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

*[Handwritten signature and date: 6/24/08]*  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 KAREN M. VAN DEN AVONT, P.E.  
 REG. NO. 44794

REVISIONS		
DATE	BY	DESCRIPTION

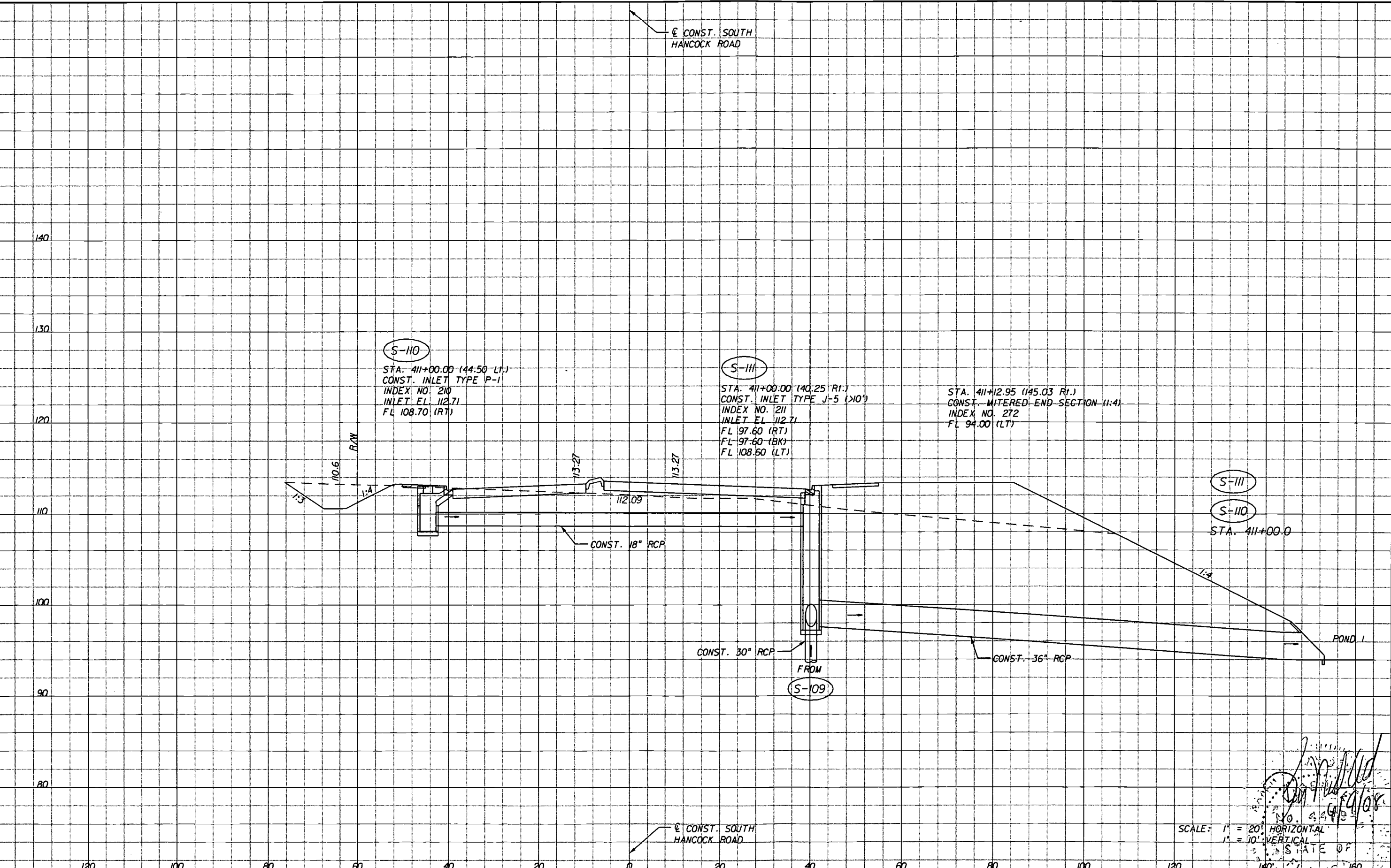
**HNTB**  
 HNTB CORPORATION  
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 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES  
 SOUTH HANCOCK ROAD**

SHEET NO.  
 46



S-110

STA. 411+00.00 (44.50' LT.)  
 CONST. INLET TYPE P-1  
 INDEX NO. 210  
 INLET EL. 112.71  
 FL 108.70 (RT)

S-111

STA. 411+00.00 (40.25' RT.)  
 CONST. INLET TYPE J-5 (>10')  
 INDEX NO. 211  
 INLET EL. 112.71  
 FL 97.60 (RT)  
 FL 108.60 (LT)

STA. 411+12.95 (45.03' RT.)  
 CONST. MITERED END SECTION (1:4)  
 INDEX NO. 272  
 FL 94.00 (LT)

S-111

S-110

STA. 411+00.0

S-109

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

*[Handwritten signatures and stamps]*

REVISIONS		
DATE	BY	DESCRIPTION

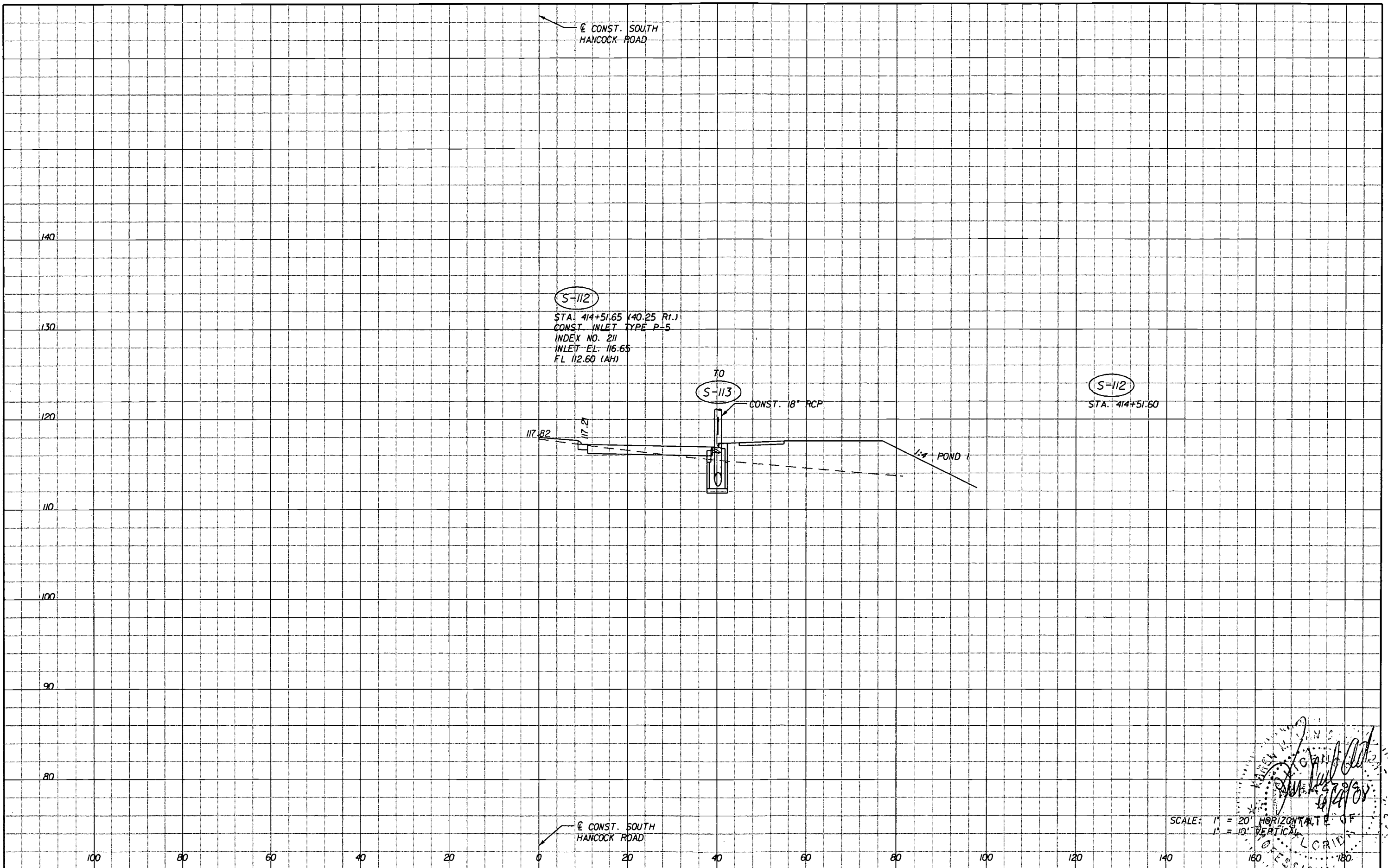
**HNTB**  
 HNTB CORPORATION  
 300 PRIMERA BLVD,  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES  
 SOUTH HANCOCK ROAD**

SHEET NO.  
 47



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

*[Handwritten signature and stamp]*  
 KAREN M. VAN DEN AVONT  
 ENGINEER OF RECORD  
 6/3/2008

REVISIONS		DATE
DATE	BY	DESCRIPTION

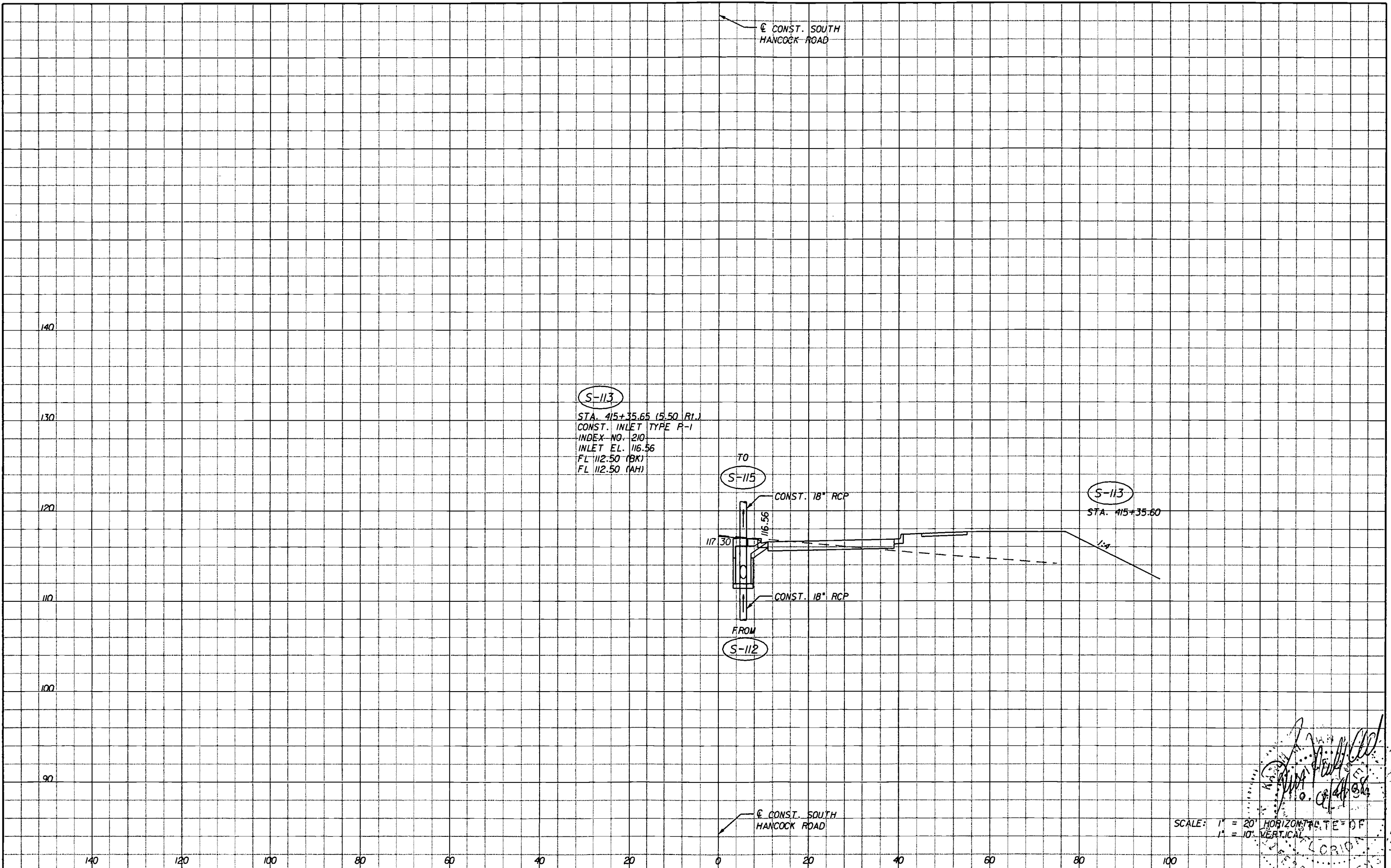
**HNTB**  
 HNTB CORPORATION  
 300 PRINERA BLVD.  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



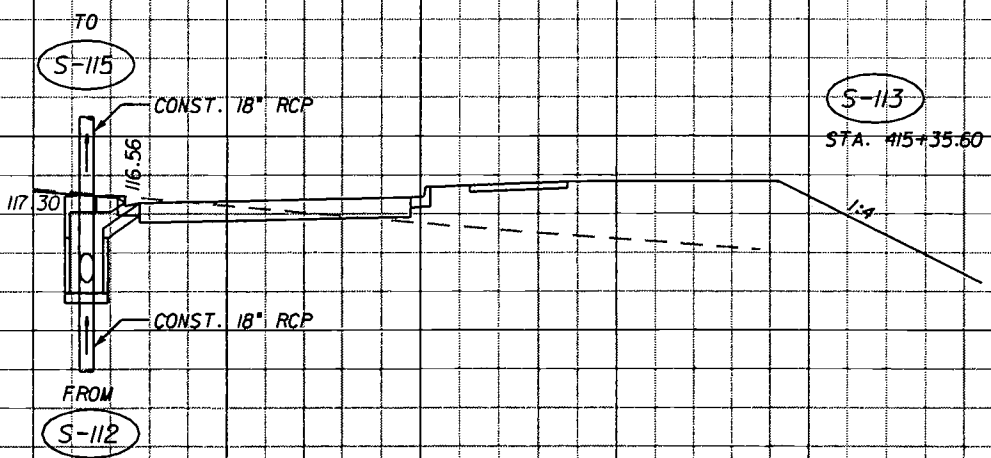
**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES SOUTH HANCOCK ROAD**

SHEET NO. 48



**S-113**  
 STA. 415+35.65 (5.50 RL.)  
 CONST. INLET TYPE P-1  
 INDEX NO. 210  
 INLET EL. 116.56  
 FL 112.50 (BK)  
 FL 112.50 (AH)



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

*[Handwritten signature and stamp]*

REVISIONS		
DATE	BY	DESCRIPTION

**HNTB**  
 HNTB CORPORATION  
 300 PRIMERA BLVD.  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794

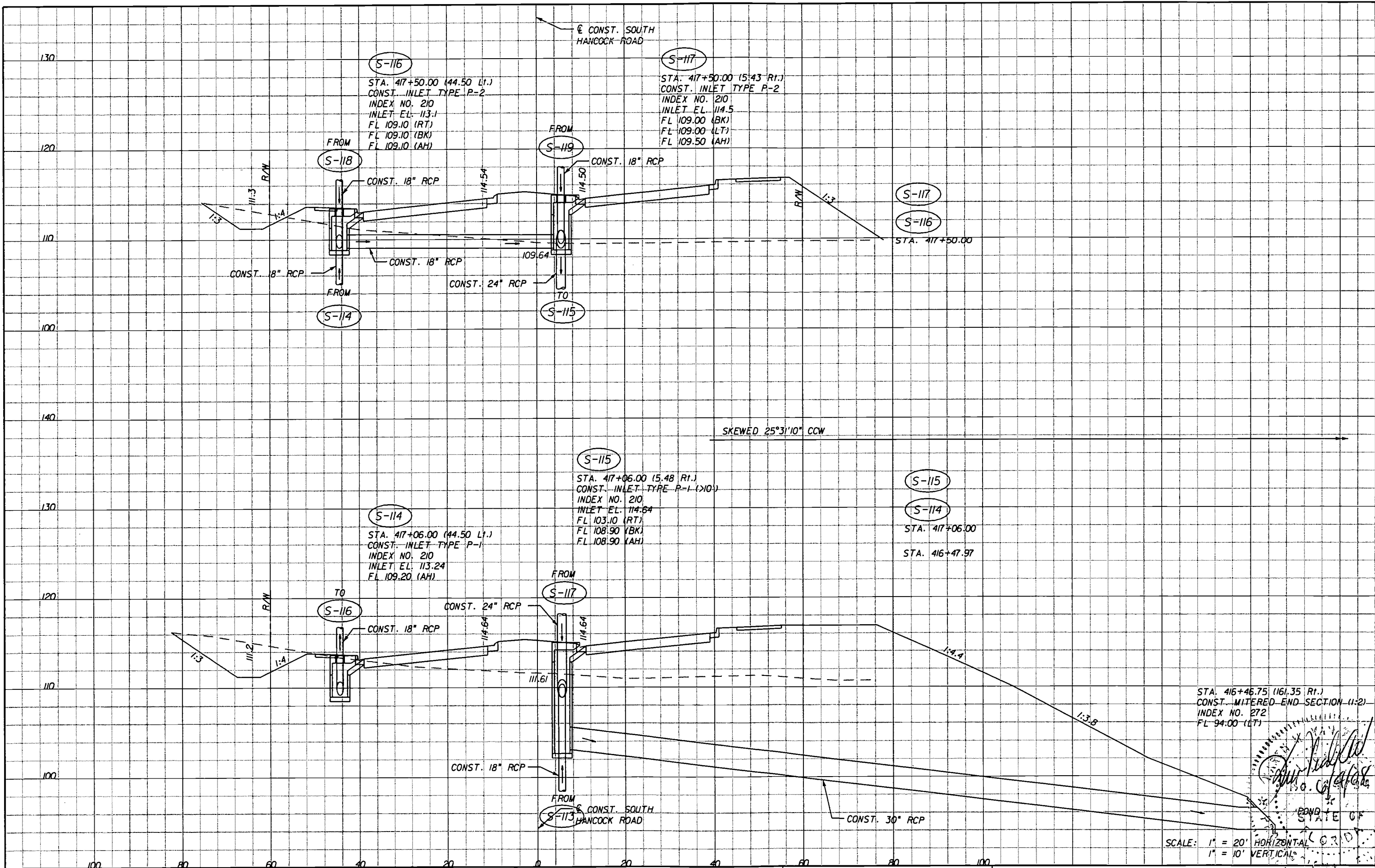


**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES  
 SOUTH HANCOCK ROAD**

SHEET NO.  
 49





STA. 416+46.75 (161.35 R1.)  
 CONST. MITERED END SECTION (1:2)  
 INDEX NO. 272  
 FL 94.00 (LT)

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

STATE OF FLORIDA  
 COUNTY OF LAKE  
 ENGINEER

REVISIONS			
DATE	BY	DESCRIPTION	DATE

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

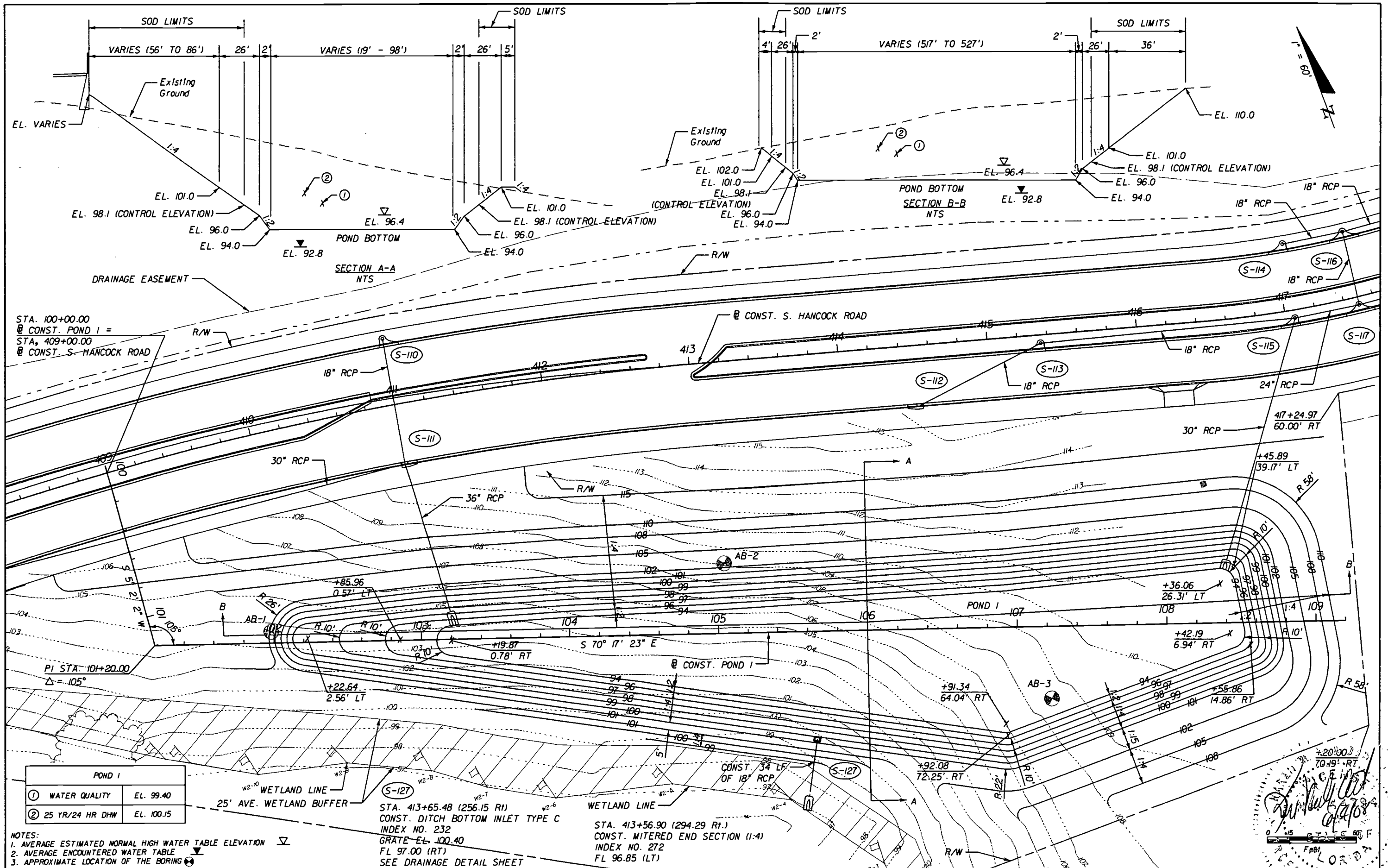
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**DRAINAGE STRUCTURES SOUTH HANCOCK ROAD**

SHEET NO. 50



STA. 100+00.00  
 @ CONST. POND 1 =  
 STA. 409+00.00  
 @ CONST. S. HANCOCK ROAD

PI STA. 101+20.00  
 $\Delta = 105^\circ$

POND 1	
① WATER QUALITY	EL. 99.40
② 25 YR/24 HR DHW	EL. 100.15

- NOTES:  
 1. AVERAGE ESTIMATED NORMAL HIGH WATER TABLE ELEVATION  $\nabla$   
 2. AVERAGE ENCOUNTERED WATER TABLE  $\nabla$   
 3. APPROXIMATE LOCATION OF THE BORING  $\odot$

STA. 413+65.48 (256.15 R1)  
 CONST. DITCH BOTTOM INLET TYPE C  
 INDEX NO. 232  
 GRATE EL. 100.40  
 FL 97.00 (RT)  
 SEE DRAINAGE DETAIL SHEET

STA. 413+56.90 (294.29 R1.)  
 CONST. MITERED END SECTION (1:4)  
 INDEX NO. 272  
 FL 96.85 (LT)

REVISIONS	
DATE	DESCRIPTION

**HNTB**  
 HNTB CORPORATION  
 300 PRIMA BLVD,  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794

**LAKE COUNTY**  
 FLORIDA

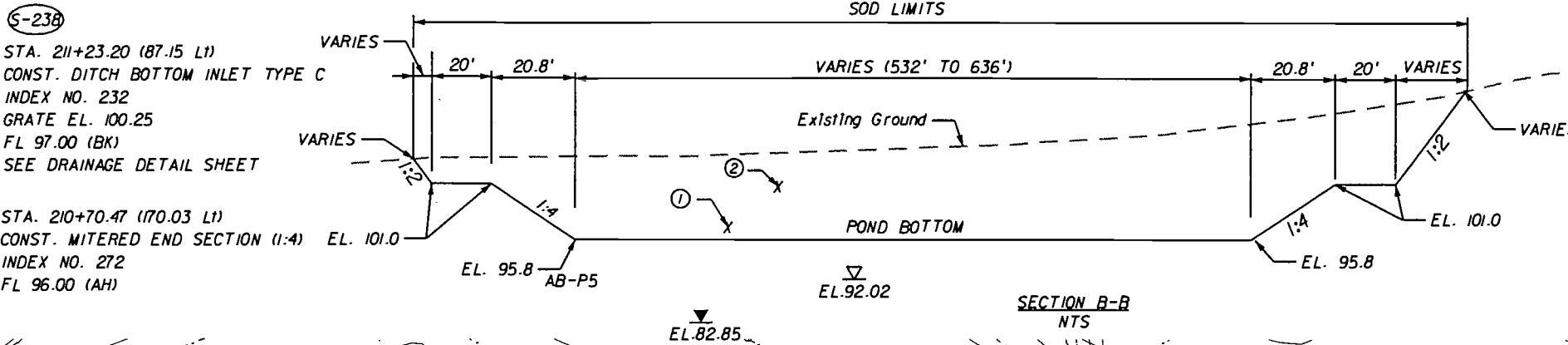
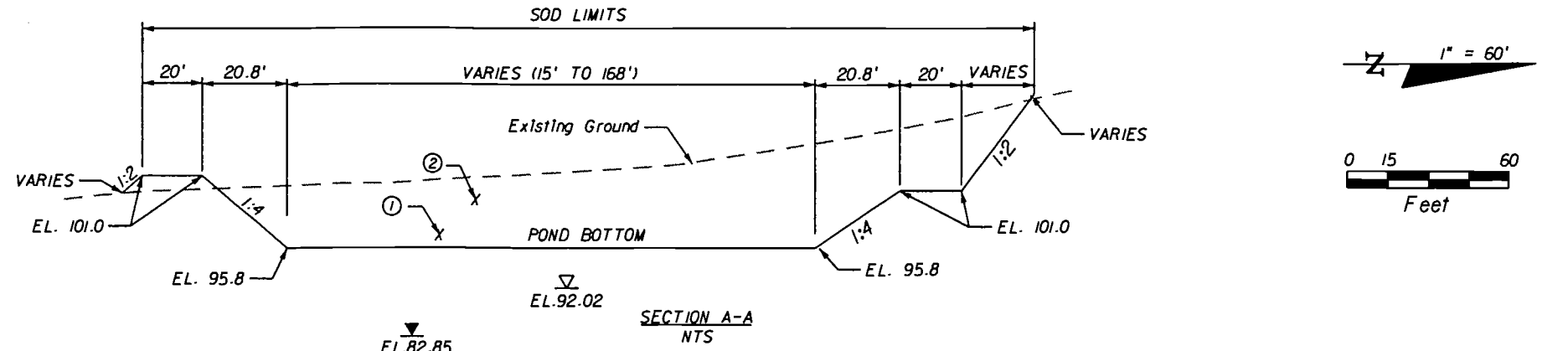
**SOUTH HANCOCK**  
**ROAD**

**POND DETAIL SHEET**  
**POND 1**

SHEET NO. 81

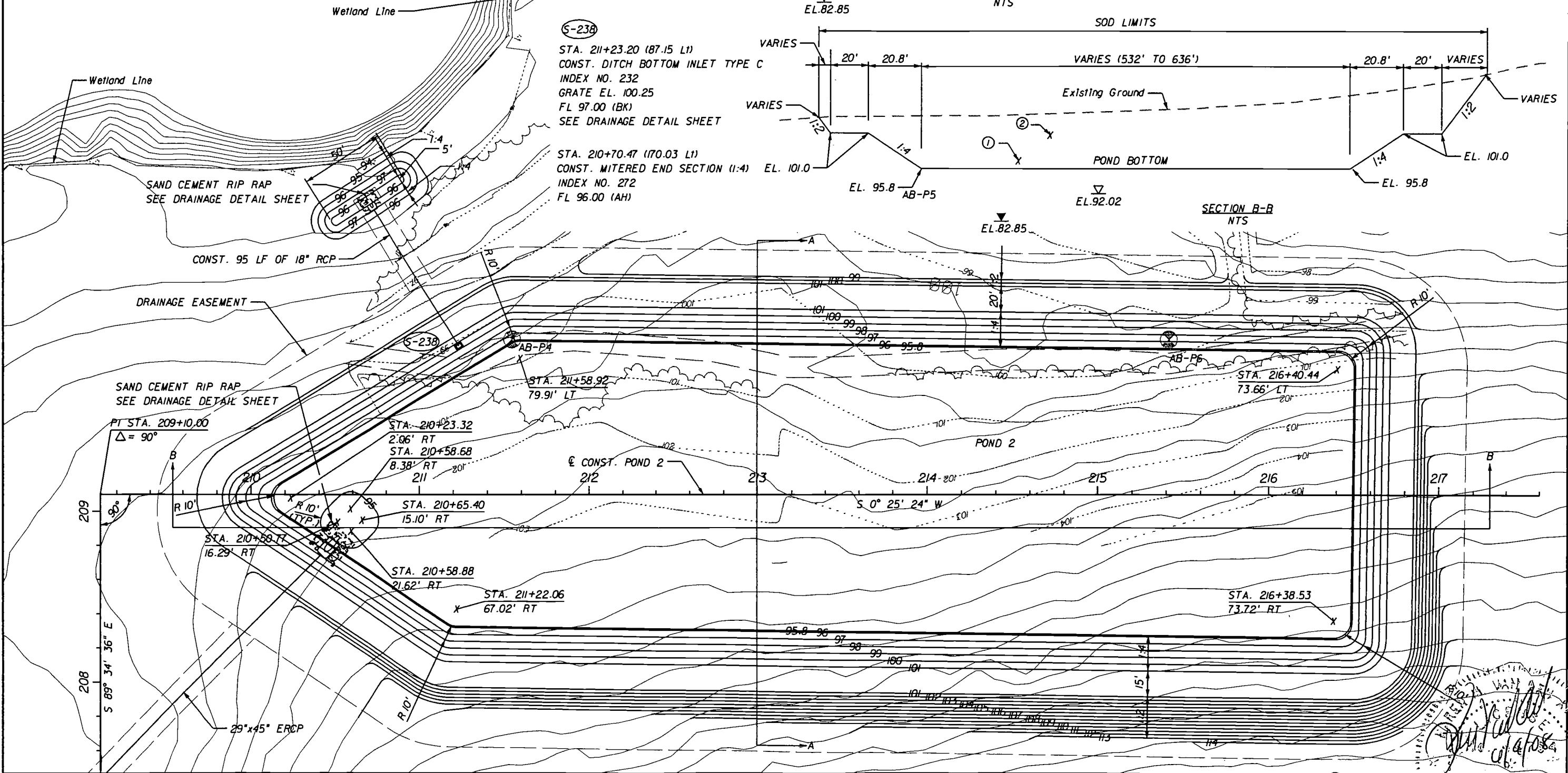
POND 2	
① WATER QUALITY	EL. 96.51
② 25 YR/96 HR DHM	EL. 100.06

- NOTES:  
 1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION  $\nabla$   
 2. AVERAGE ENCOUNTERED WATER TABLE  $\nabla$   
 3. APPROXIMATE LOCATION OF THE BORING  $\odot$   
 4. PRIOR TO SODDING THE POND, REMOVE ALL CONSTRUCTION MATERIAL THAT MAY HAVE DEPOSITED IN THE POND. RAKE AND LOOSEN POND BOTTOM FOR OPTIMAL INFILTRATION.  
 5. MUCK GROWN SOD SHOULD NOT BE USED IN THE POND BOTTOM.



(S-238)  
 STA. 211+23.20 (87.15 L1)  
 CONST. DITCH BOTTOM INLET TYPE C  
 INDEX NO. 232  
 GRATE EL. 100.25  
 FL 97.00 (BK)  
 SEE DRAINAGE DETAIL SHEET

STA. 210+70.47 (70.03 L1)  
 CONST. MITERED END SECTION (1:4)  
 INDEX NO. 272  
 FL 96.00 (AH)



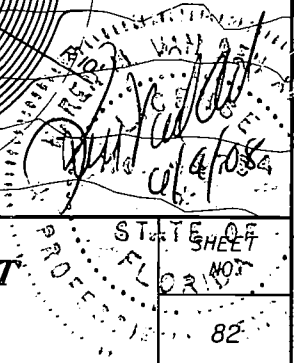
REVISIONS		
DATE	BY	DESCRIPTION

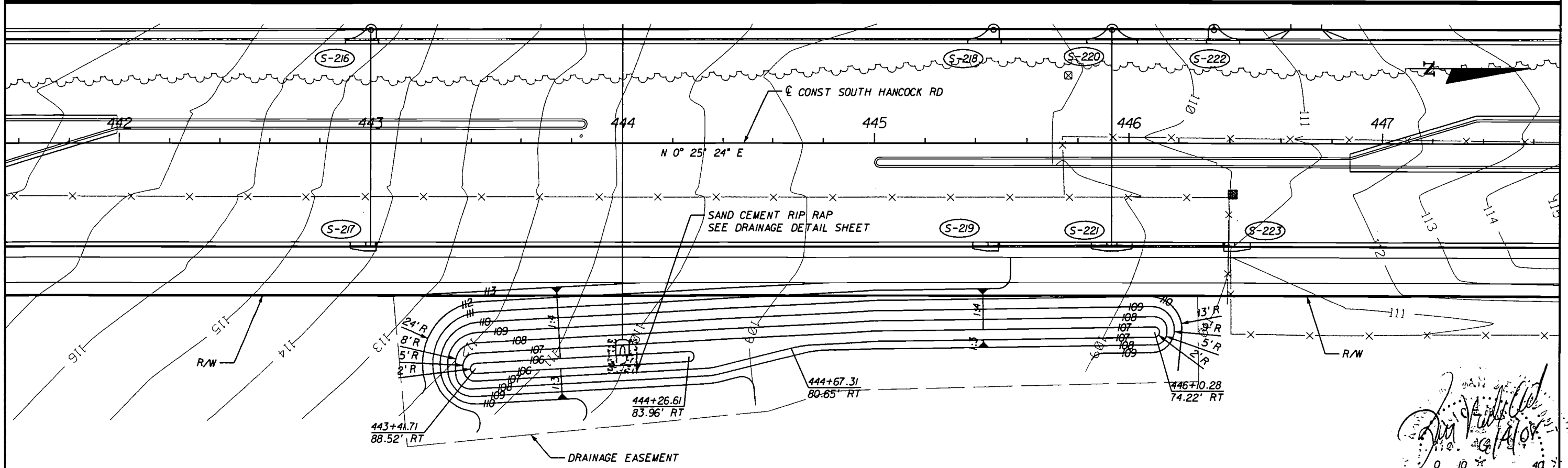
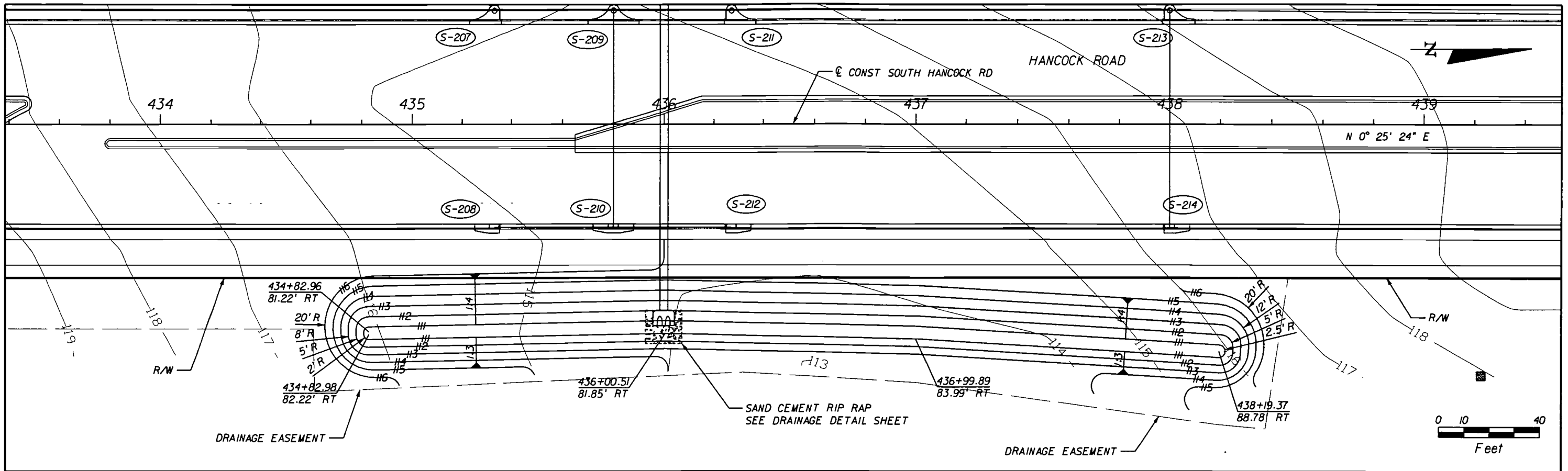
**HNTB**  
 HNTB CORPORATION  
 300 PRIMA BLVD.  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

**POND DETAIL SHEET  
 POND 2**





REVISIONS		
DATE	BY	DESCRIPTION

**HNTB**  
 HNTB CORPORATION  
 300 PRIMERA BLVD,  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



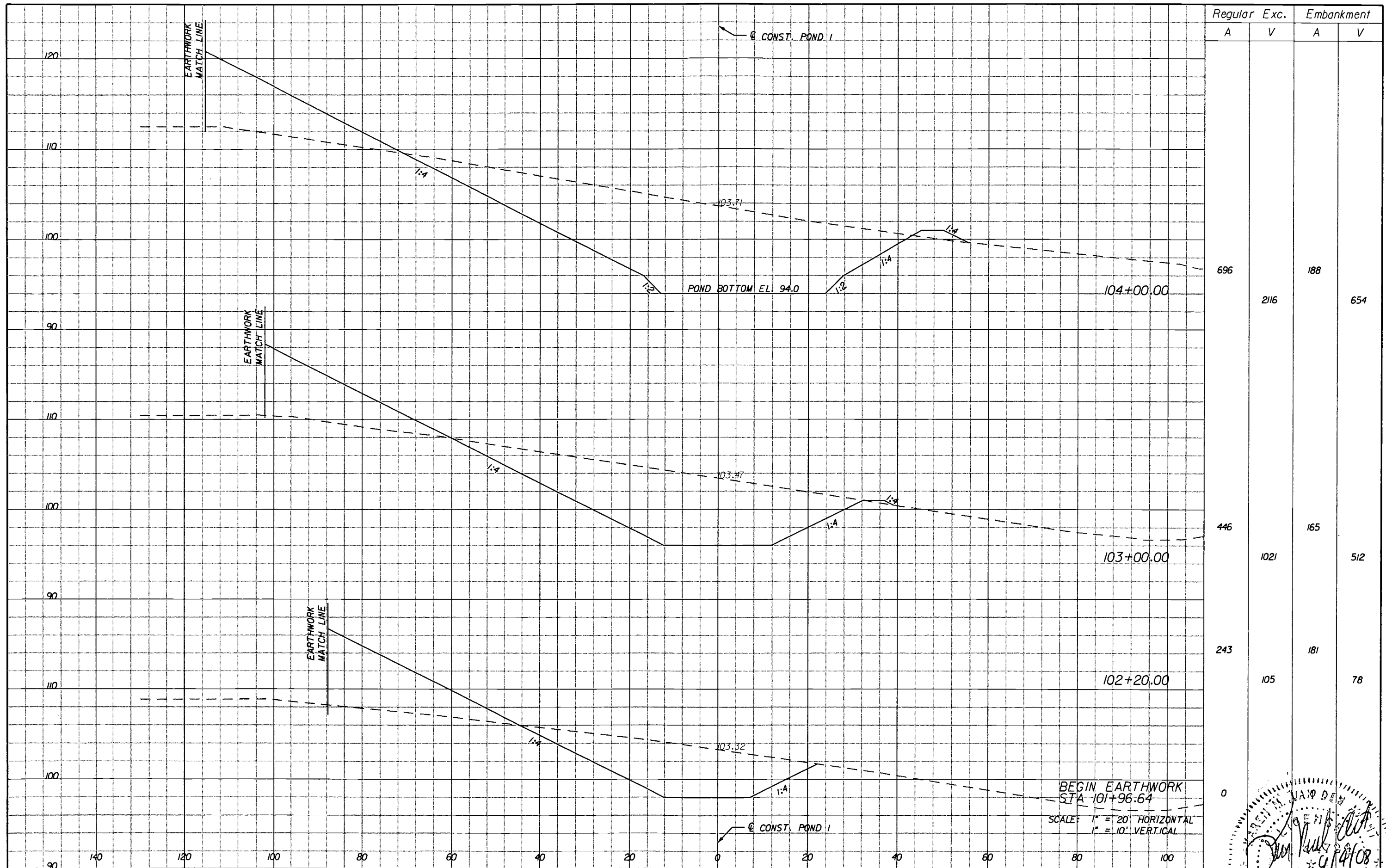
**SOUTH HANCOCK ROAD**

**SWALE DETAILS**

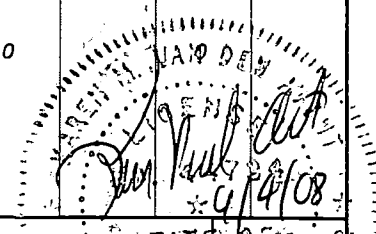
SHEET NO. 83

*Handwritten signature and stamp:*  
 Karen M. Van Den Avont  
 P.E.  
 FLORIDA  
 0 10 40  
 Feet





BEGIN EARTHWORK  
 STA 101+96.64  
 SCALE: 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL



REVISIONS	
DATE	DESCRIPTION

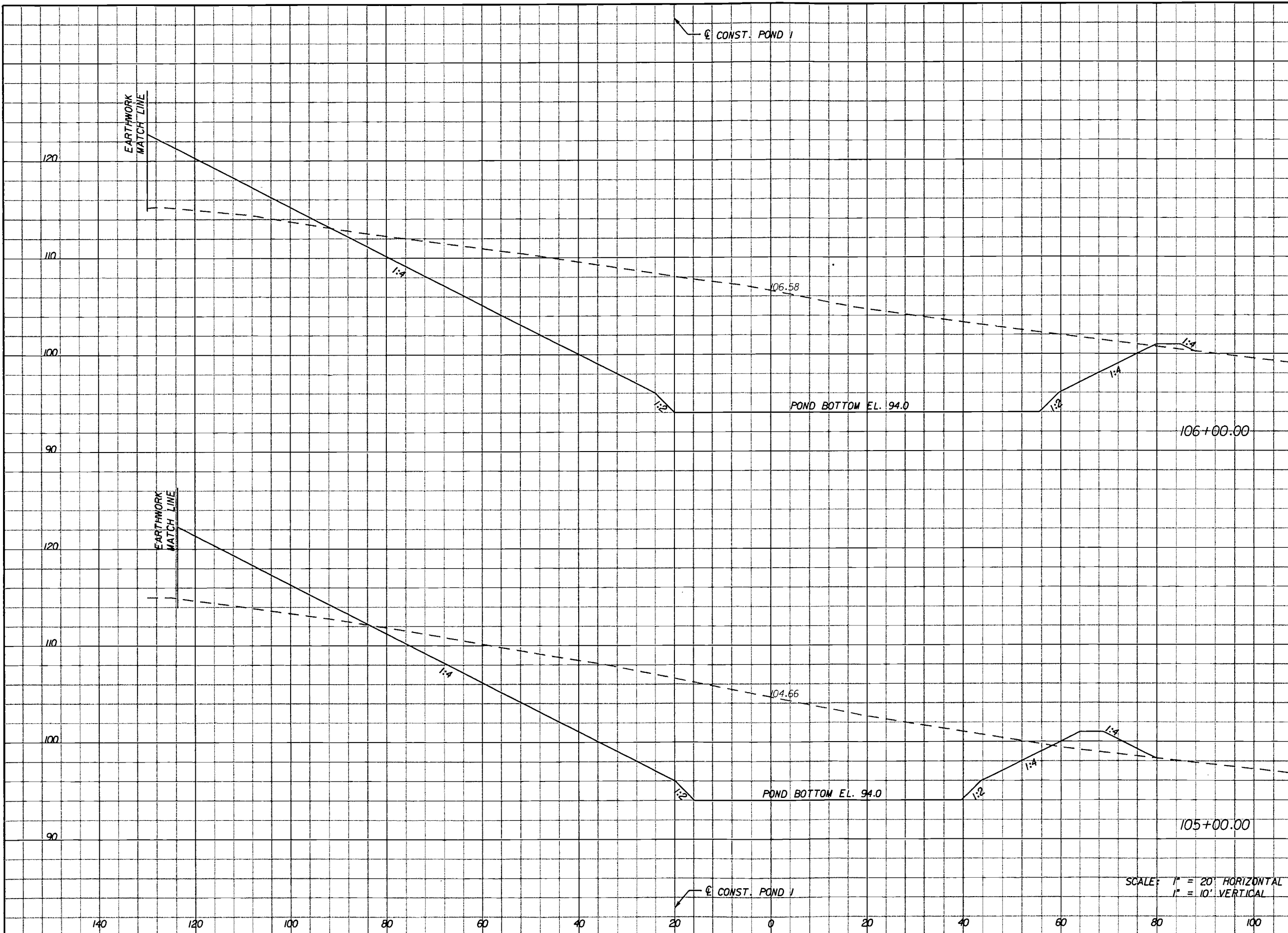
**HNTB**  
 HNTB CORPORATION  
 300 PRIMERA BLVD.  
 SUITE 200  
 LAKE WARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794



**SOUTH HANCOCK  
ROAD**

**POND 1  
CROSS SECTIONS**

Regular Exc. Embankment  
A V A V



1398

4398

139

578

977

173

3099 669

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

REVISIONS	
DATE	DESCRIPTION

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

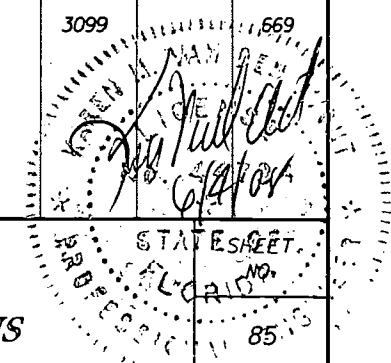
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
FL. REGISTRATION NO. 44794



**SOUTH HANCOCK  
ROAD**

**POND 1  
CROSS SECTIONS**

STATE SHEET  
NO. 85



SUMMARY OF EARTHWORK			
DESCRIPTION	CY		
	P	F	
EXCAVATION	30,423		
EMBANKMENT	3,993		

END EARTHWORK  
STA 109+15.88

Regular Exc. Embankment

A V A V

0 0

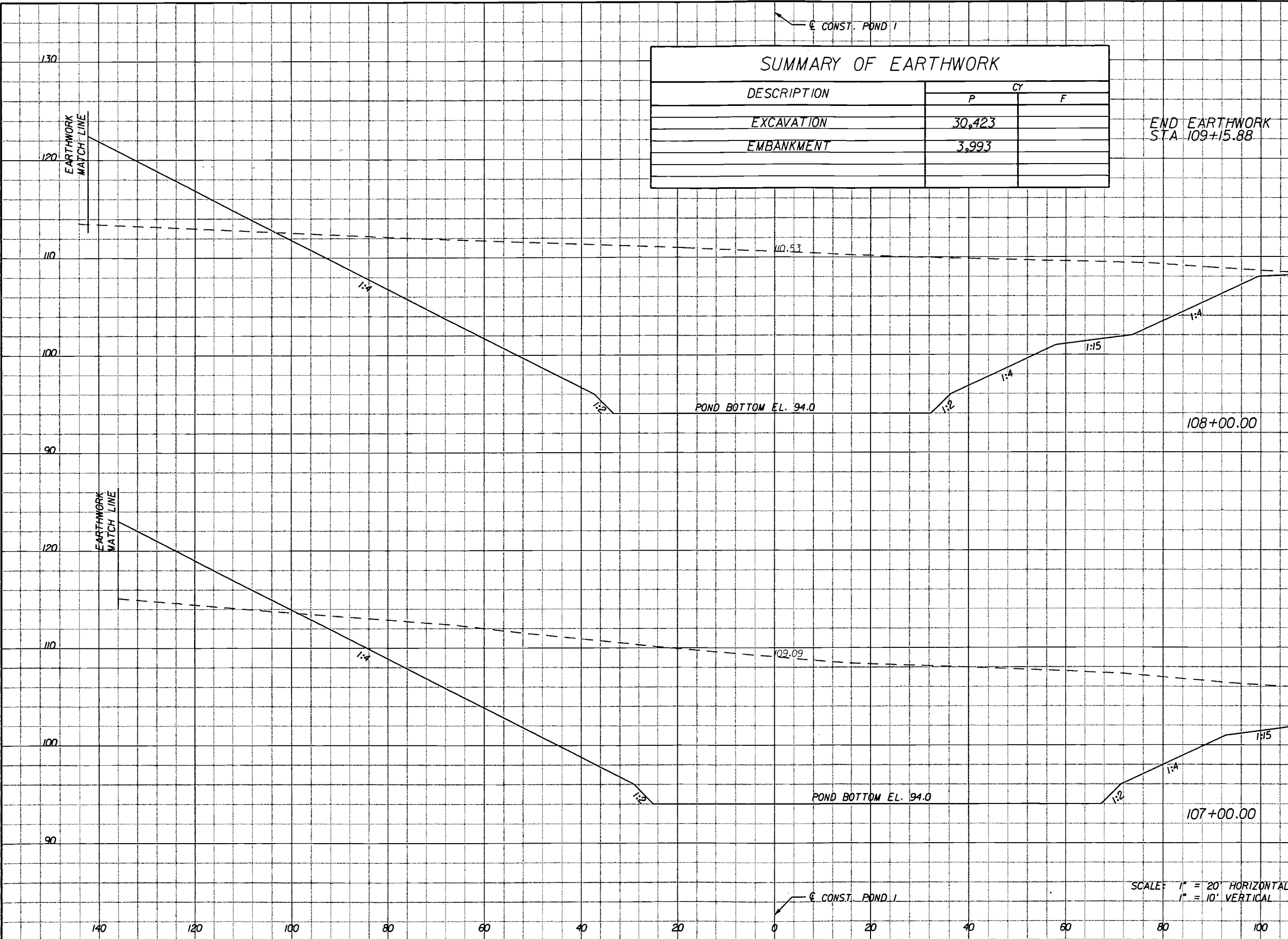
4713 376

2196 175

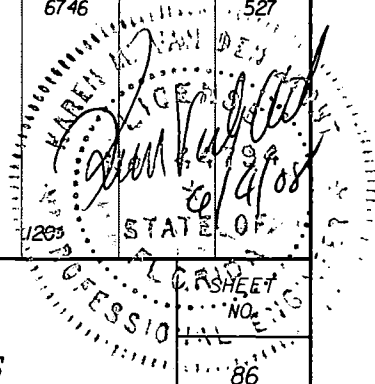
8225 599

2245 149

6746 527



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



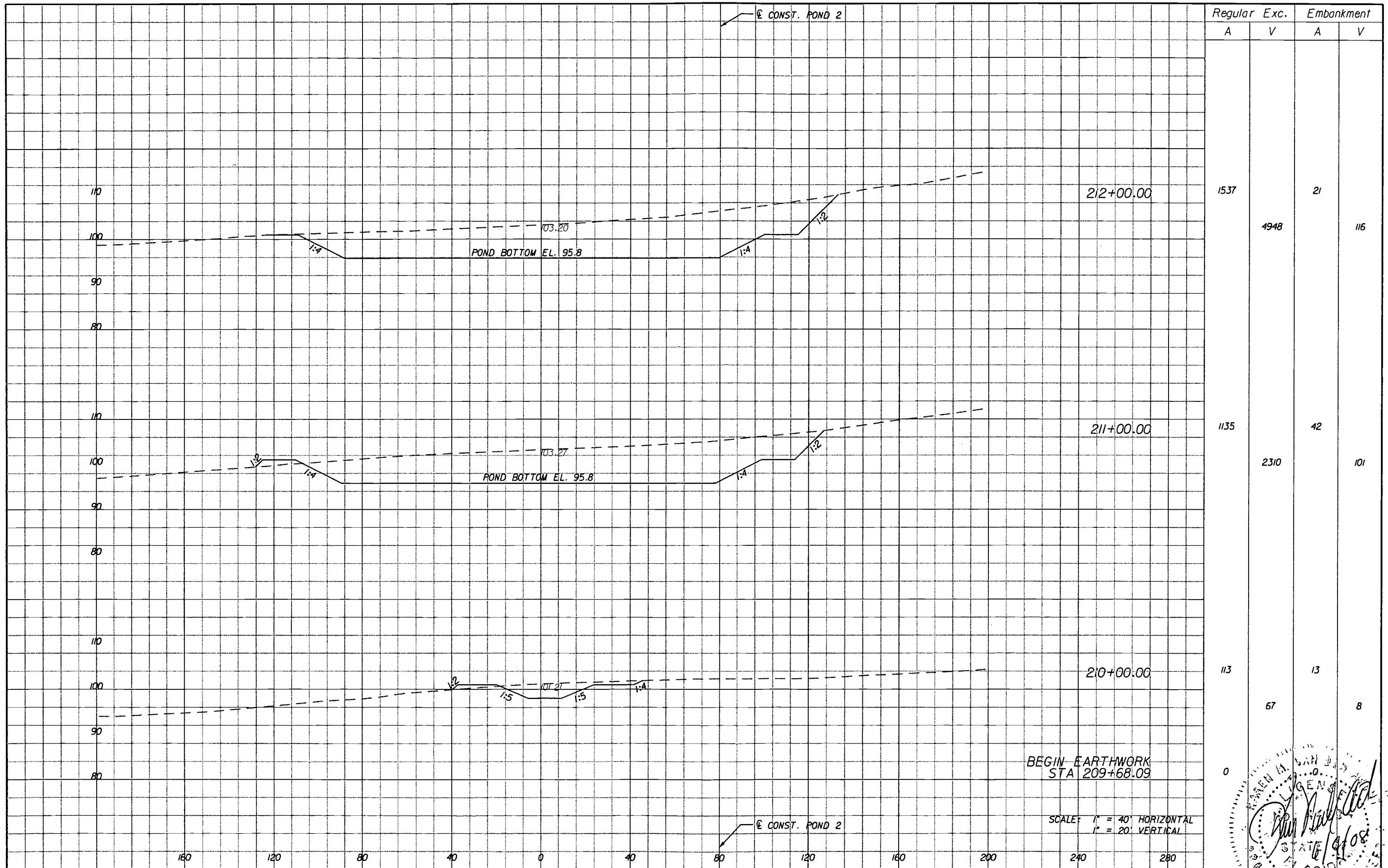
REVISIONS	
DATE	DESCRIPTION

**HNTB**  
HNTB CORPORATION  
300 PRINERA BLVD.  
SUITE 200  
LAKE MARY, FL 32746  
(407) 805-0355  
CERT. OF AUTH. NO. 6500  
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

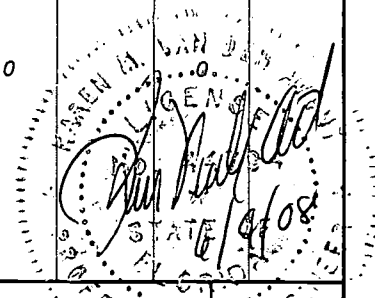
**POND 1 CROSS SECTIONS**



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
212+00.00	1537		4948		21	116
211+00.00	1135		2310		42	101
210+00.00	113		67		13	8
0						

BEGIN EARTHWORK  
STA 209+68.09

SCALE: 1" = 40' HORIZONTAL  
1" = 20' VERTICAL



REVISIONS	
DATE	DESCRIPTION

**HNTB**  
 HNTB CORPORATION  
 300 PRIMERA BLVD,  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794

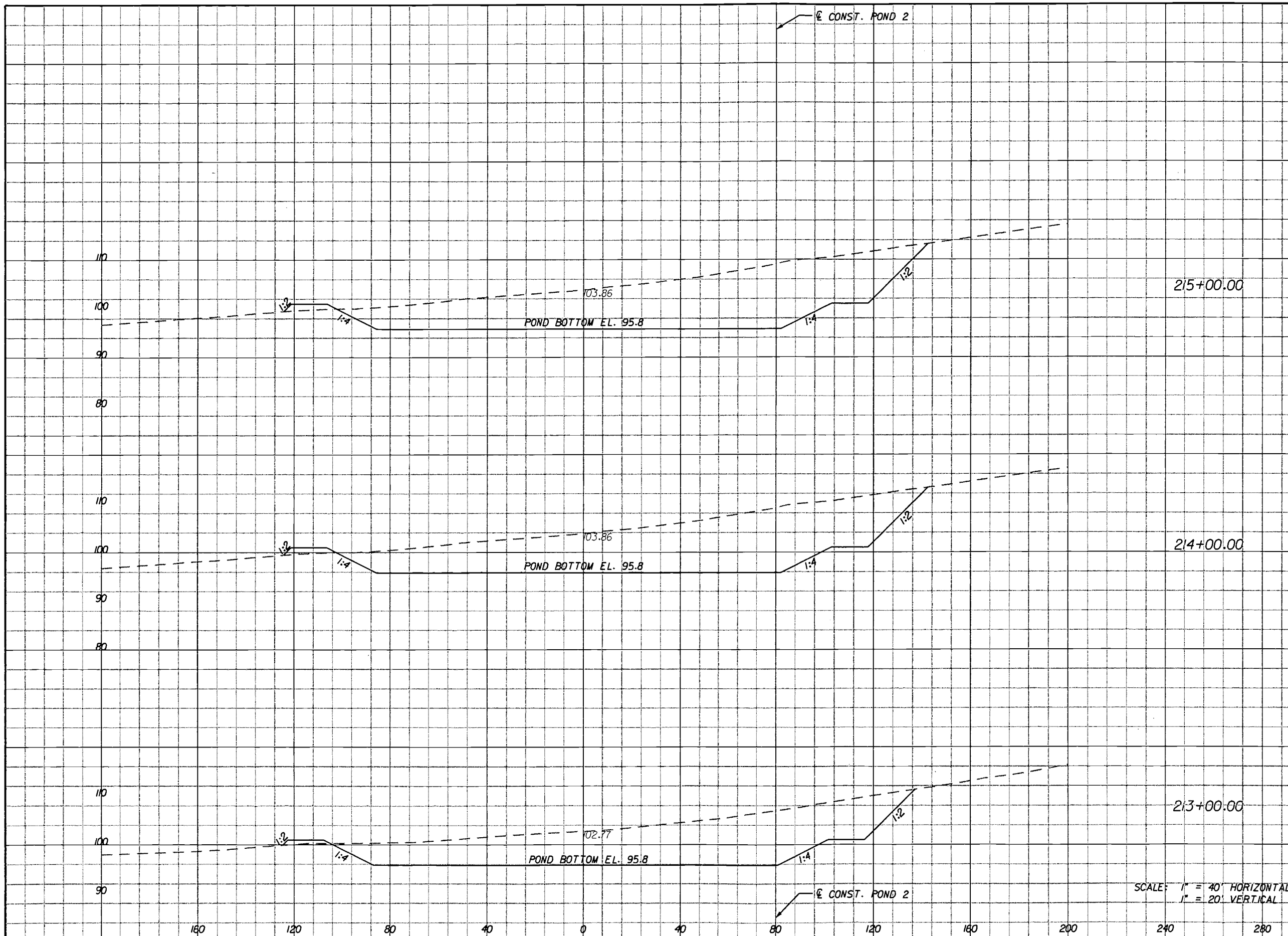
**LAKE COUNTY**  
 FLORIDA

**SOUTH HANCOCK  
 ROAD**

**POND 2  
 CROSS SECTIONS**

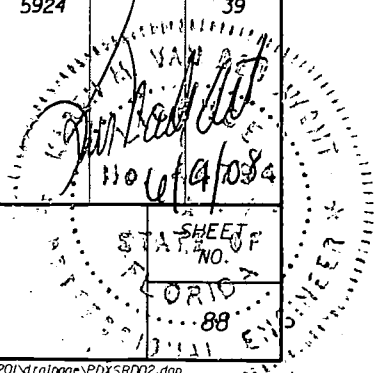
SHEET NO.  
87





Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
215+00.00	1957		22	6689	22	67
214+00.00	1655		14	6142	14	26
213+00.00	1661		0	5924	0	39

SCALE: 1" = 40' HORIZONTAL  
1" = 20' VERTICAL



REVISIONS	
DATE	DESCRIPTION

**HNTB**  
 HNTB CORPORATION  
 300 PRIMERA BLVD.  
 SUITE 200  
 LAKE MARY, FL 32746  
 (407) 805-0355  
 CERT. OF AUTH. NO. 6500  
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
 FL. REGISTRATION NO. 44794

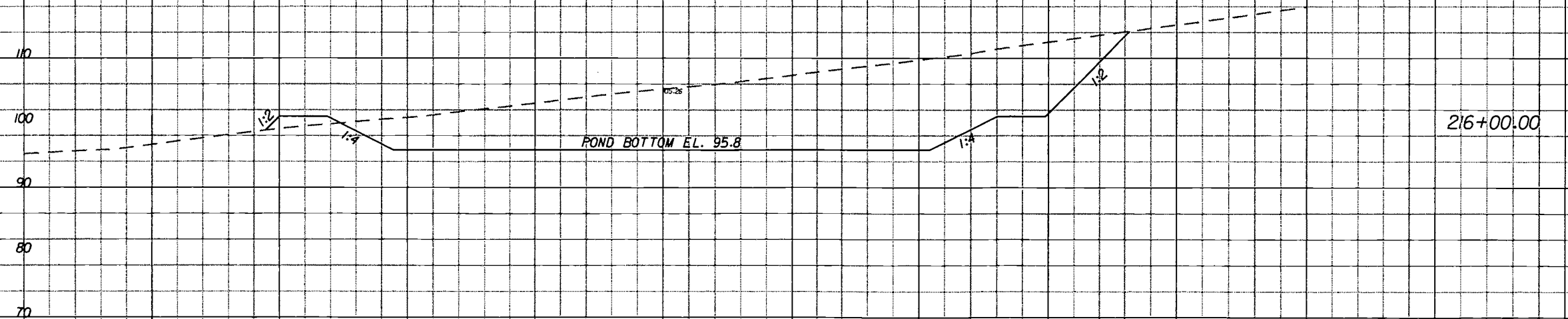
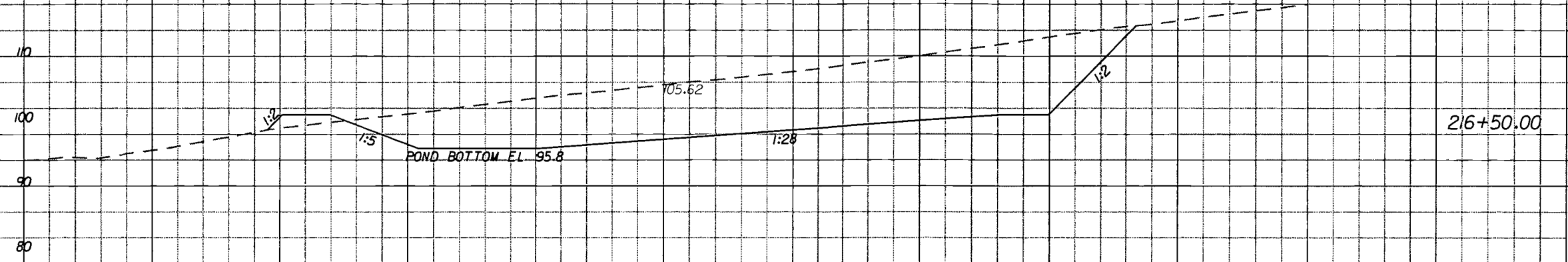


**SOUTH HANCOCK ROAD**

**POND 2 CROSS SECTIONS**

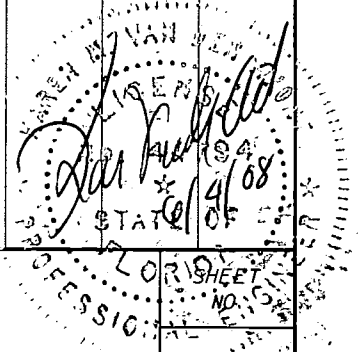
SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION	37,795	
EMBANKMENT	542	

END EARTHWORK  
STA 217+11.18



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
216+50.00	0	2209	0	35	31	55
216+00.00	2188	7675	29	95		

SCALE: 1" = 40' HORIZONTAL  
1" = 20' VERTICAL



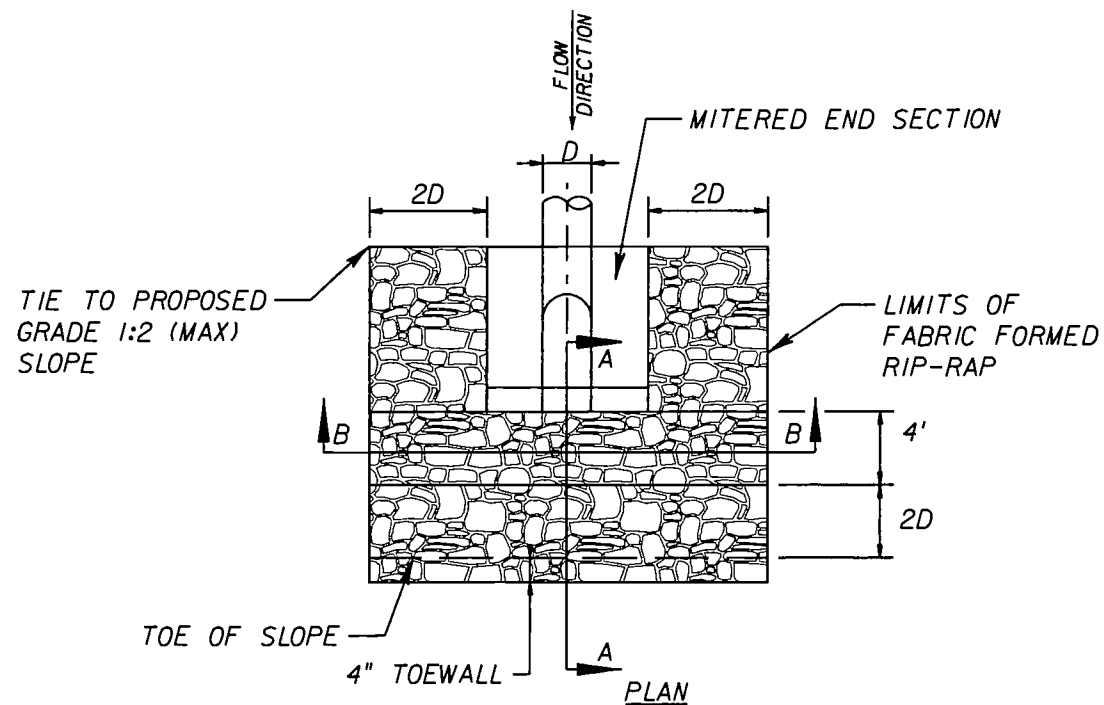
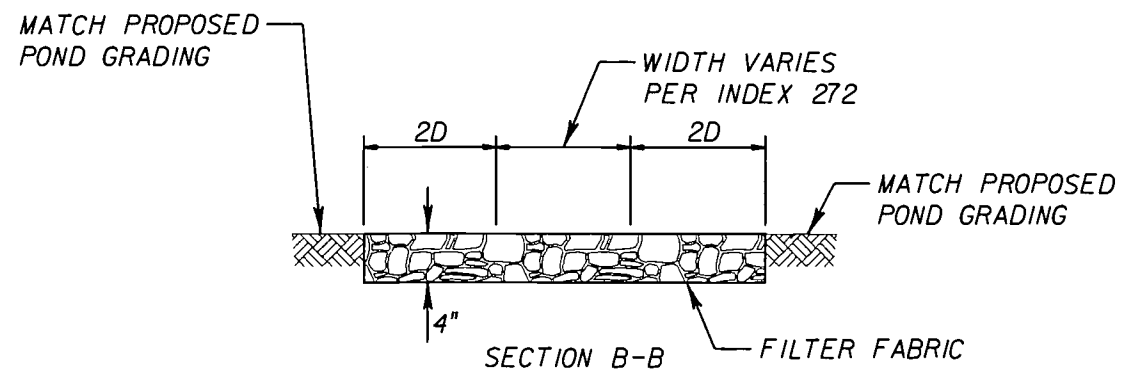
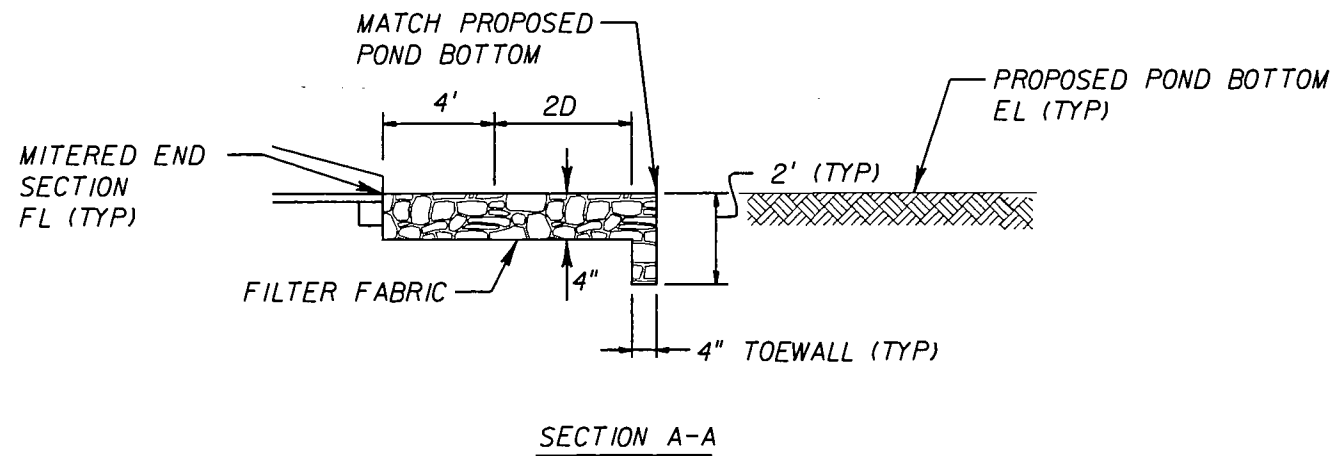
REVISIONS	
DATE	DESCRIPTION

**HNTB**  
HNTB CORPORATION  
300 PRIMA BLVD,  
SUITE 200  
LAKE MARY, FL 32746  
(407) 805-0355  
CERT. OF AUTH. NO. 6500  
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
FL. REGISTRATION NO. 44794



**SOUTH HANCOCK ROAD**

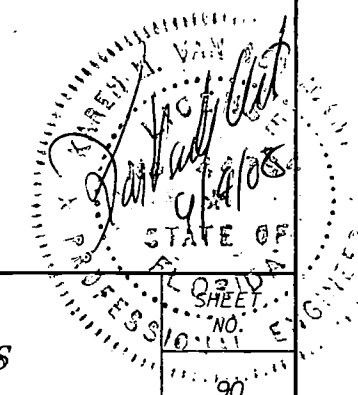
**POND 2 CROSS SECTIONS**



TYPICAL SLOPE PROTECTION DETAIL  
S-209A, S-216A, S-237, S-238  
(NTS)

**\*NOTES:**

THE FILTER FABRIC SHALL BE TYPE D-2 WITH A MAXIMUM A.O.S OF 70 AND A MINIMUM PERMITTIVITY OF 0.2/SEC IN ACCORDANCE WITH INDEX 199 OF ROADWAY AND TRAFFIC DESIGN STANDARDS.



REVISIONS		
DATE	BY	DESCRIPTION

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

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
FL. REGISTRATION NO. 44794

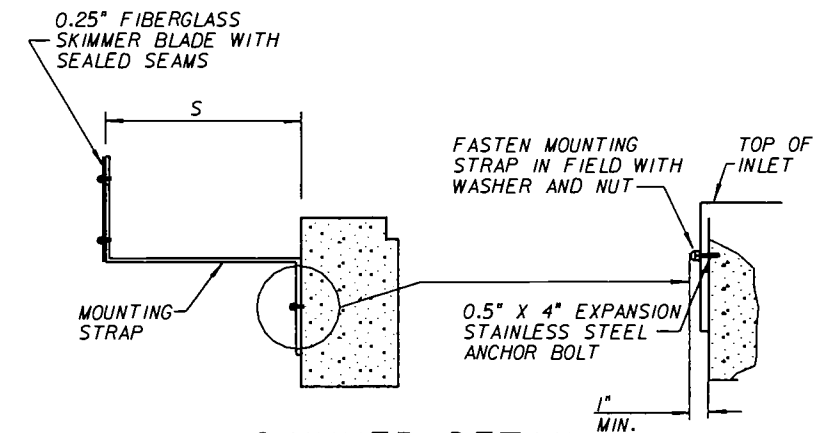


**SOUTH HANCOCK ROAD**

**DRAINAGE DETAILS**

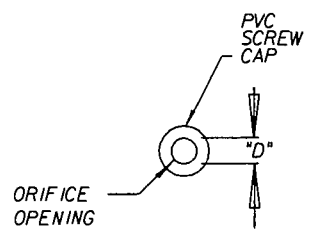
90

STRUCTURE NO.	POND NO.	CONTROL STRUCTURE		STRUCTURE TYPE	DIM. "S"	CONTROL ELEV.	GRATE ELEV.	WEIR ELEV.	WEIR WIDTH (IN)	TOP OF SKIMMER	BOTTOM OF SKIMMER	ORIFICE DIA. "D" (IN)	PVC PIPE DIA. (X) (IN)	PIPE DIAMETER (IN)	4" CLASS I CONC. (SY)	INVERT ELEV. (FT)
		STATION	OFFSET													
S-127	1	413+20.08	246.63 (RT)	DBI TYPE "C" MODIFIED	18"	98.1	100.40	99.4	30	100.9	97.6	3.75	6.00	18"	19.0	96.85
S-238	2	211+23.20 CONST. POND2	87.15 (LT)	DBI TYPE "C" MODIFIED	18"	NA	100.25	NA	NA	100.75	99.50	NA	NA	18"	12.9	96.00

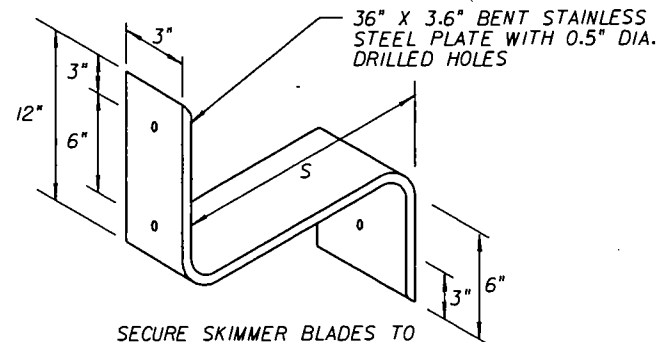


**SKIMMER DETAIL SECTION**  
N.T.S.

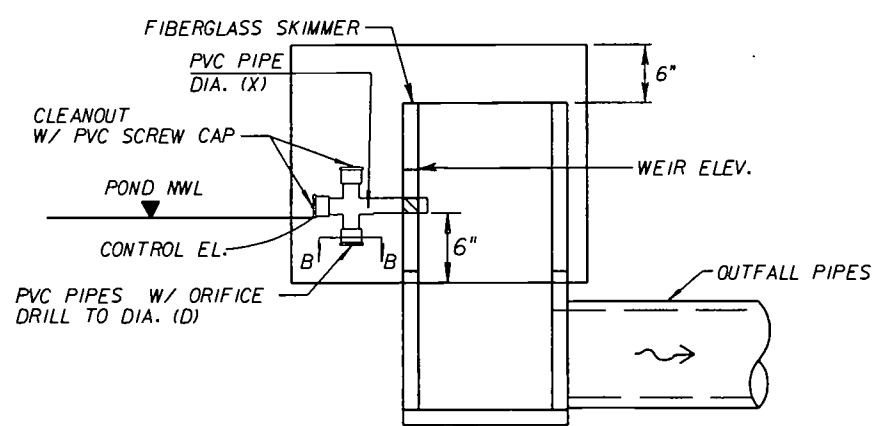
NOTE:  
COST OF OIL SKIMMER, CONC. SLAB, AND ANY NECESSARY HARDWARE TO BE INCLUDED IN THE COST OF INLET (SPECIAL).



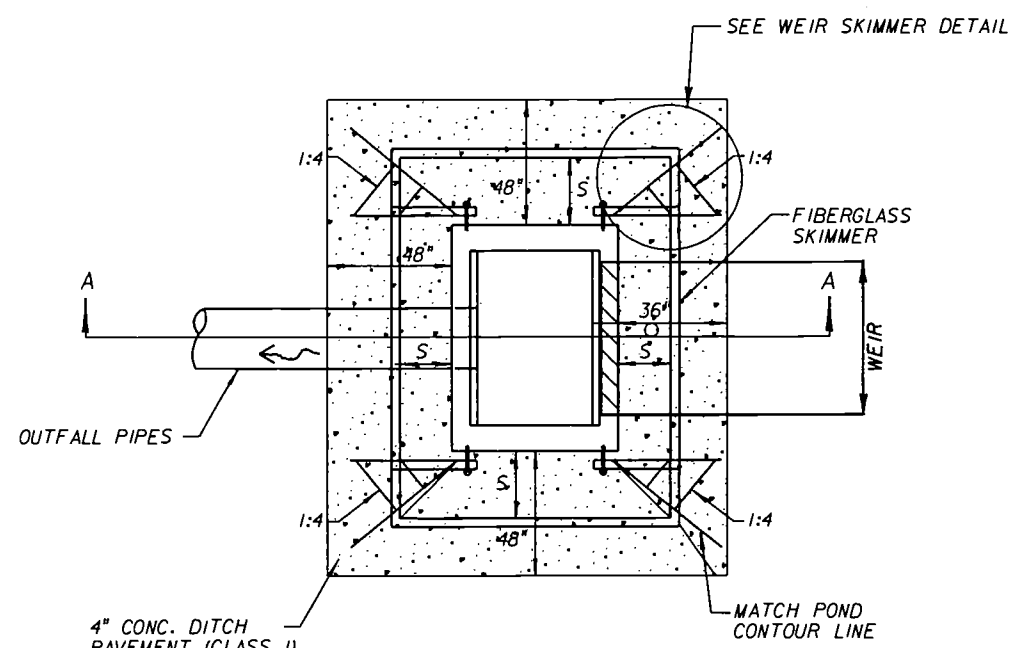
**SECTION B-B**  
N.T.S.



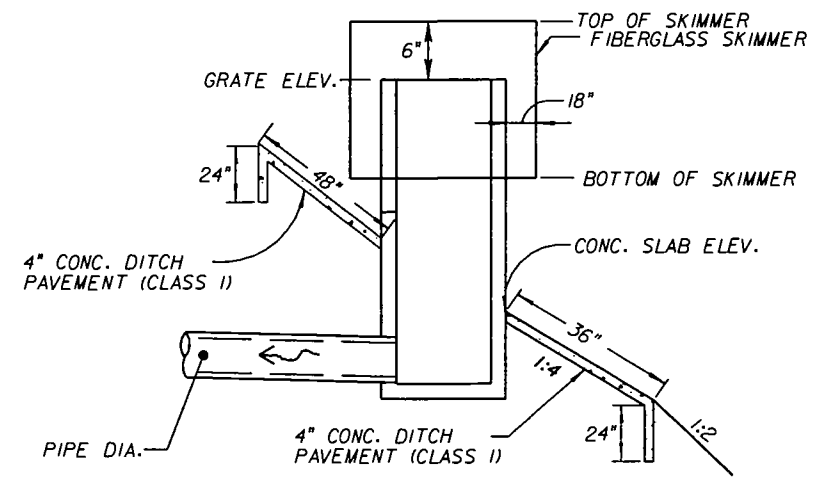
**MOUNTING STRAP**  
N.T.S.



**ORIFICE DETAIL**  
N.T.S.

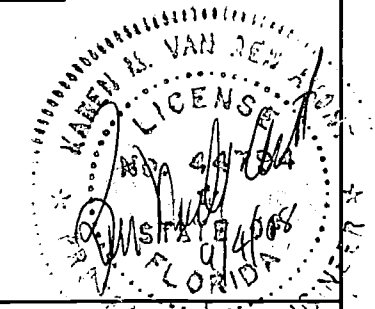


**PLAN VIEW**  
N.T.S.



**SECTION A-A**  
N.T.S.

**STRUCTURE DETAILS**



REVISIONS		
DATE	BY	DESCRIPTION

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

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.  
FL. REGISTRATION NO. 44794

**LAKE COUNTY FLORIDA**

**SOUTH HANCOCK ROAD**

**DRAINAGE DETAILS**

SHEET NO. 91