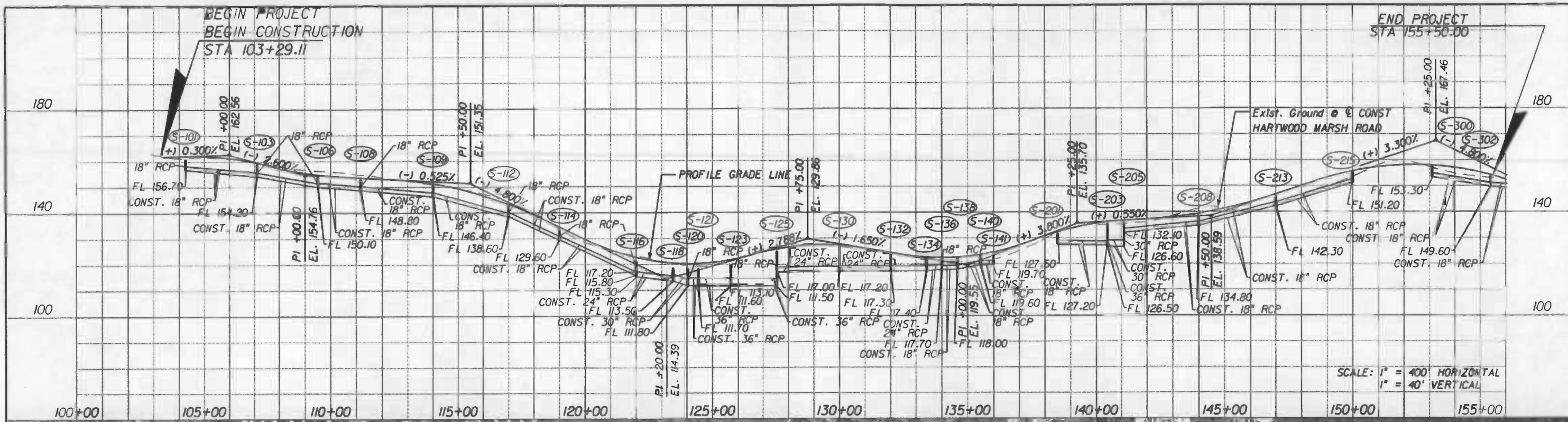


114354-1

Oversized Drawings
11" Wide
1757



DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. This sheet is to be used for documentation and to assist construction personnel with drains.

REVISIONS	
DATE	DESCRIPTION

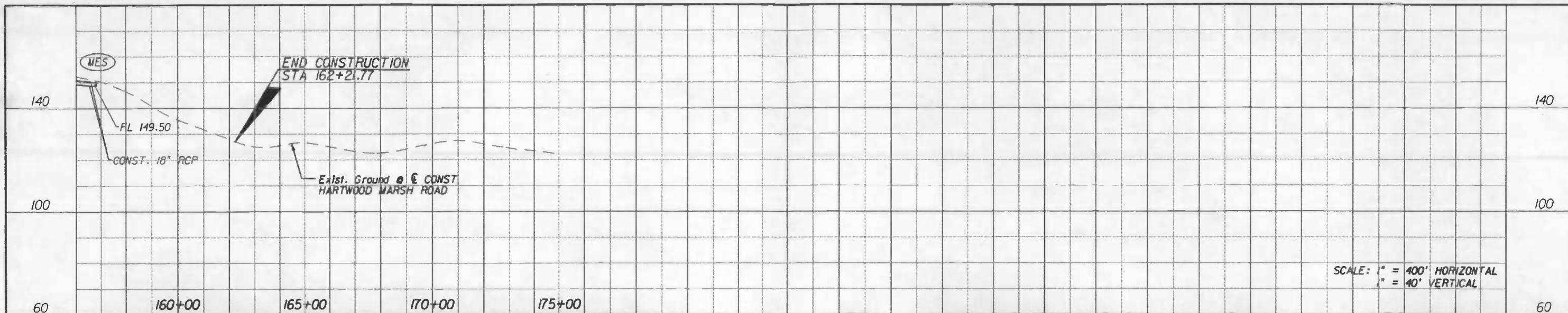
HNTB
 HNTB CORPORATION
 300 PRINERA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



HARTWOOD MARSH ROAD - PHASE I

DRAINAGE MAP

PP SHEET NO. 2



SCALE: 1" = 400' HORIZONTAL
 1" = 40' VERTICAL



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 This sheet is in the plans for documentation and to assist construction personnel with drainage concerns.

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**HARTWOOD MARSH
 ROAD - PHASE I**

DRAINAGE MAP

PROJECT SHEET NO.
3

Handwritten notes:
 5/1/00
 [Signature]

①
STA 103+60.43 (49.84 Lt)
Mitered End Section
FI 158.71 (Rt) (Exist.)

②
STA 107+01.82 (112.20 Lt)
Curb Inlet
Top El. 159.73
FI 152.66 (Ah) (Exist.)
FI 152.73 (Rt) (Exist.)
FI 152.61 (Lt) (Exist.)

③
STA 107+14.08 (31.21 Lt)
Mitered End Section
FI 156.93 (Ah) (Exist.)

④
STA 107+13.68 (41.96 Rt)
Ditch Bottom Inlet
Grate El. 157.90
FI 154.90 (Ah) (Exist.)

⑤
STA 107+48.64 (54.47 Lt)
Curb Inlet
Top El. 159.04
FI 152.14 (Ah) (Exist.)
FI 152.69 (Lt) (Exist.)

⑥
STA 107+77.33 (54.47 Lt)
Curb Inlet
Top El. 158.77
FI 151.97 (Ah) (Exist.)
FI 152.02 (Lt) (Exist.)

⑦
STA 108+03.58 (29.64 Lt)
Mitered End Section
FI 154.73 (Bk) (Exist.)

⑧
STA 108+50.82 (35.87 Rt)
Mitered End Section
FI 152.91 (Bk) (Exist.)

⑨
STA 109+57.14 (93.17 Lt)
Curb Inlet
Top El. 158.92
FI 151.42 (Ah) (Exist.)
FI 151.42 (Bk) (Exist.)

⑩
STA 111+09.35 (96.58 Lt)
Curb Inlet
Top El. 157.53
FI 150.68 (Ah) (Exist.)
FI 150.58 (Bk) (Exist.)

⑪
STA 111+11.38 (32.91 Lt)
Mitered End Section
FI 152.32 (Ah) (Exist.)

⑫
STA 111+07.23 (33.93 Rt)
Ditch Bottom Inlet
Grate El. 152.86
FI 149.95 (Ah) (Exist.)

⑬
STA 111+64.56 (109.95 Lt)
Curb Inlet
Top El. 156.60
FI 150.00 (Ah) (Exist.)
FI 150.20 (Bk) (Exist.)

⑭
STA 112+25.38 (34.91 Lt)
Mitered End Section
FI 150.65 (Ah) (Exist.)

⑮
STA 112+29.43 (31.46 Rt)
Mitered End Section
FI 149.37 (Ah) (Exist.)

⑯
STA 113+54.06 (36.36 Lt)
Mitered End Section
FI 149.60 (Ah) (Exist.)

⑰
STA 114+44.80 (38.71 Lt)
Mitered End Section
FI 148.27 (Ah) (Exist.)

⑱
STA 115+35.88 (64.55 Lt)
Curb Inlet
Top El. 148.10
FI 143.16 (Ah) (Exist.)

⑲
STA 115+77.16 (64.09 Lt)
Curb Inlet
Top El. 147.77
FI 142.62 (Ah) (Exist.)
FI 142.72 (Bk) (Exist.)

⑲A
STA 117+48.43 (63.30 Lt)
Manhole
Top El. 147.09
FI 134.57 (Ah) (Exist.)
FI 134.67 (Bk) (Exist.)

⑳
STA 120+30.13 (61.51 Lt)
Manhole
Top El. 132.69
FI 121.71 (Ah) (Exist.)
FI 121.46 (Bk) (Exist.)

㉑
STA 122+03.23 (124.15 Lt)
Mitered End Section
FI 112.75 (Bk) (Exist.)

㉒
STA 123+98.36 (72.29 Lt)
Fiberglass Weir
Top El. 126.35

㉓
STA 139+35.73 (56.16 Lt)
Mitered End Section
FI 130.98 (Ah) (Exist.)

㉔
STA 140+82.05 (55.16 Lt)
Mitered End Section
FI 131.83 (Bk) (Exist.)

㉕
STA 142+67.29 (112.24 Lt)
Ditch Bottom Inlet
Grate El. 141.03
FI 134.75 (Ah) (Exist.)
FI 134.67 (Bk) (Exist.)
FI 134.77 (Lt) (Exist.)

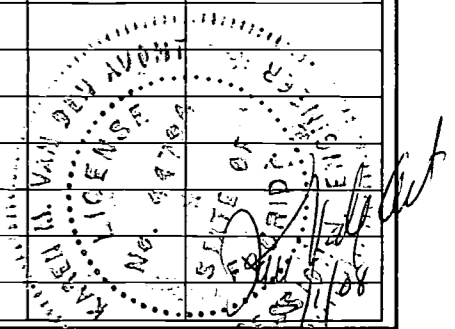
㉖
STA 145.44.29 (94.70 Lt)
Curb Inlet
Top El. 143.63
FI 138.91 (Ah) (Exist.)
FI 138.84 (Bk) (Exist.)

㉗
STA 145+75.97 (95.04 Lt)
Curb Inlet
Top El. 143.84
FI 139.19 (Bk) (Exist.)

㉘
STA 31+81.03 (79.31 Rt)
(☐ POND 2)
Ditch Bottom Inlet
Grate El. 110.60
FI 104.41 (Rt) (Exist.)

BASIN AREAS

BASIN 1		BASIN 2		BASIN 3	
S-100	0.124 AC.	S-200	0.411 AC.	S-300	0.111 AC.
S-101	0.051 AC.	S-201	0.383 AC.	S-302	0.343 AC.
S-102	0.044 AC.	S-204	0.257 AC.	S-303	0.449 AC.
S-103	0.231 AC.	S-205	0.322 AC.		
S-104	0.549 AC.	S-206	0.272 AC.		
S-105	0.440 AC.	S-207	0.414 AC.		
S-106	0.233 AC.	S-208	0.329 AC.		
S-107	0.287 AC.	S-209	0.442 AC.		
S-108	0.204 AC.	S-212	0.605 AC.		
S-109	0.340 AC.	S-213	0.348 AC.		
S-110	0.726 AC.	S-214	0.532 AC.		
S-111	0.389 AC.	S-215	0.353 AC.		
S-112	0.338 AC.	S-223	0.184 AC.		
S-113	0.334 AC.	S-224	0.222 AC.		
S-114	0.197 AC.	S-225	0.540 AC.		
S-115	0.622 AC.	S-226	0.183 AC.		
S-116	0.344 AC.	S-227	0.381 AC.		
S-117	0.240 AC.				
S-118	0.171 AC.				
S-119	0.191 AC.				
S-120	0.110 AC.				
S-121	0.132 AC.				
S-122	0.493 AC.				
S-123	0.375 AC.				
S-124	0.287 AC.				
S-131	0.407 AC.				
S-132	0.308 AC.				
S-133	0.224 AC.				
S-134	0.166 AC.				
S-135	0.221 AC.				
S-136	0.209 AC.				
S-137	0.165 AC.				
S-138	0.186 AC.				
S-139	0.495 AC.				
S-141	0.430 AC.				



REVISIONS

DATE	BY	DESCRIPTION

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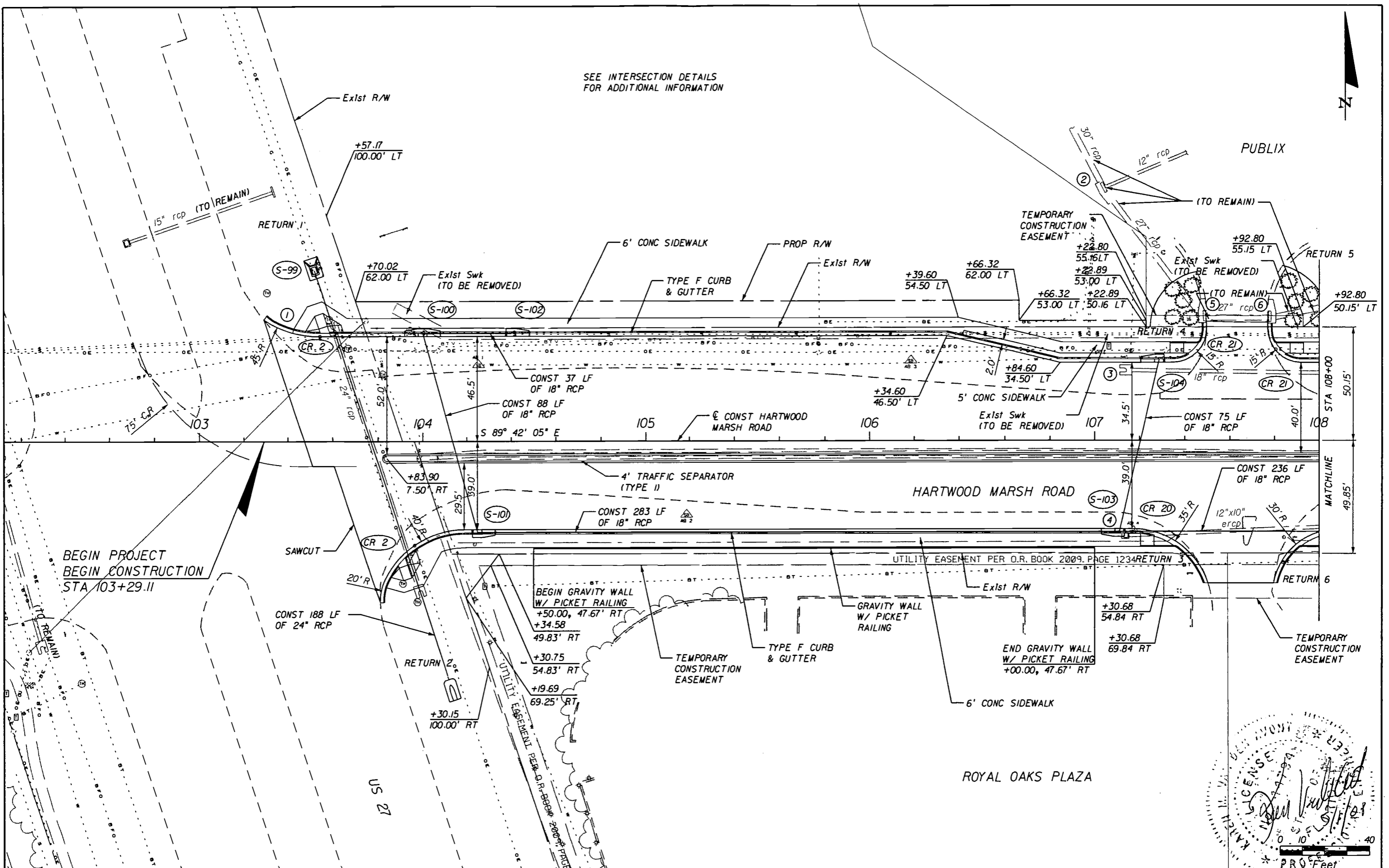
**HARTWOOD MARSH
ROAD - PHASE I**

**EXISTING DRAINAGE DATA
& BASIN AREAS**

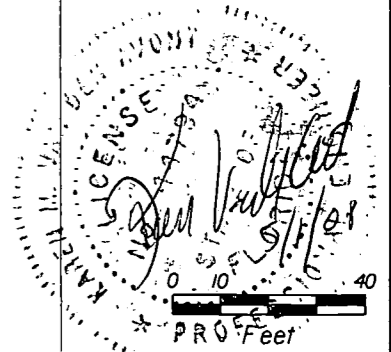
SHEET NO.

4

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION



BEGIN PROJECT
BEGIN CONSTRUCTION
STA 103+29.11



REVISIONS	
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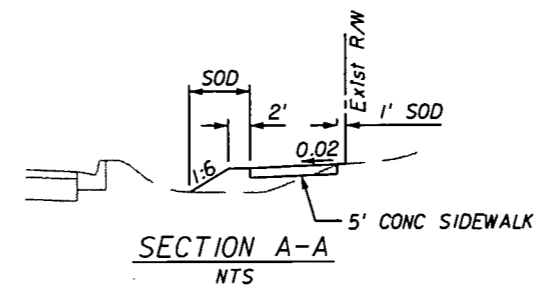
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
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HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET

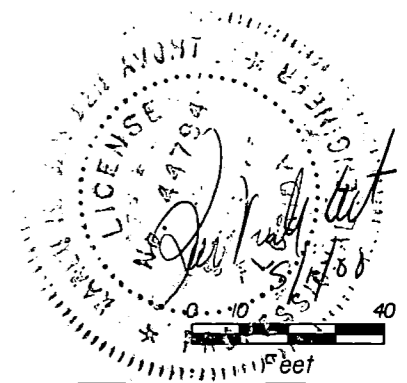
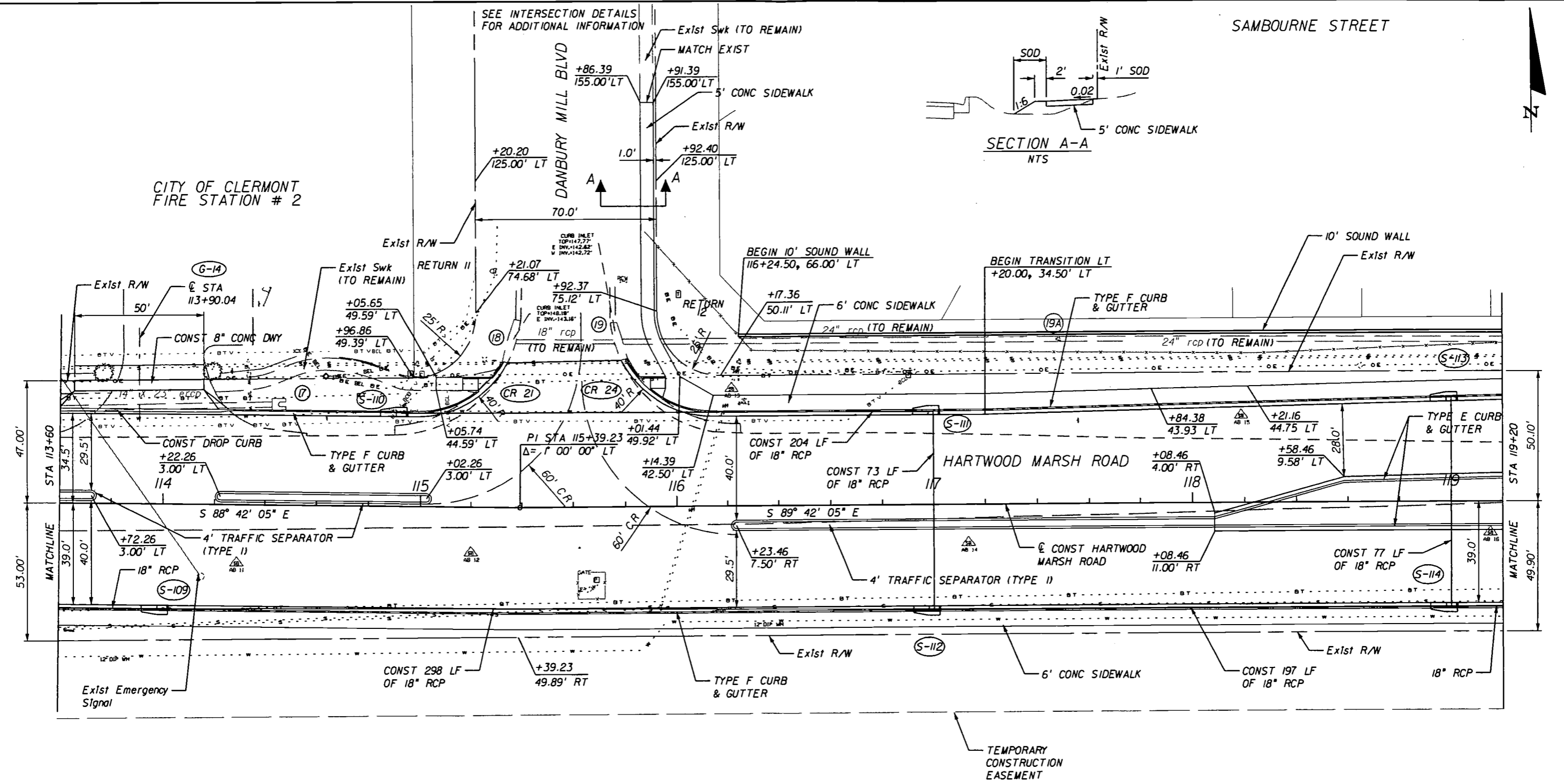
SHEET NO.
18



CITY OF CLERMONT
FIRE STATION # 2

SEE INTERSECTION DETAILS
FOR ADDITIONAL INFORMATION

DANBURY MILL BLVD



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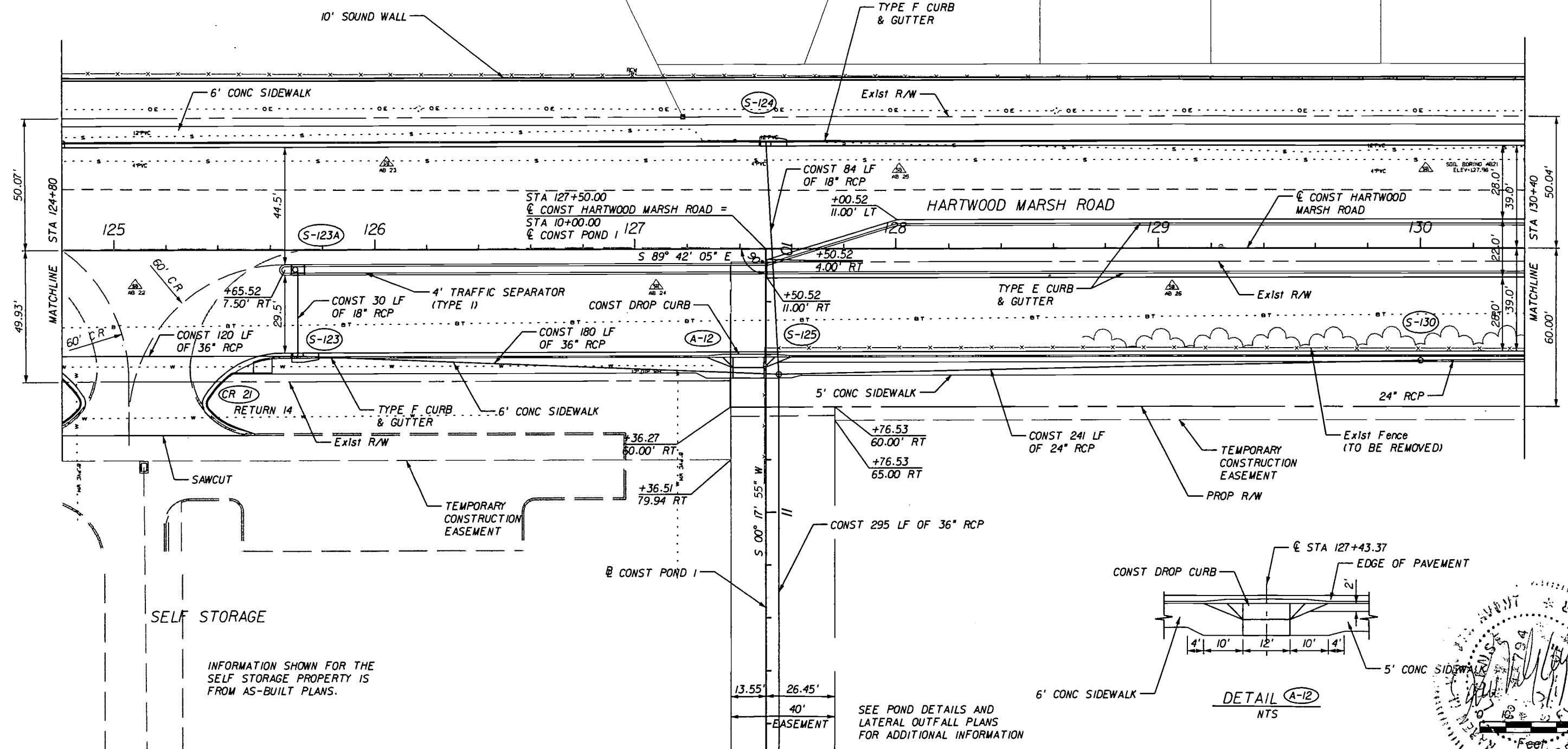
**HARTWOOD MARSH
ROAD - PHASE I**

PLAN SHEET

SHEET NO.
20



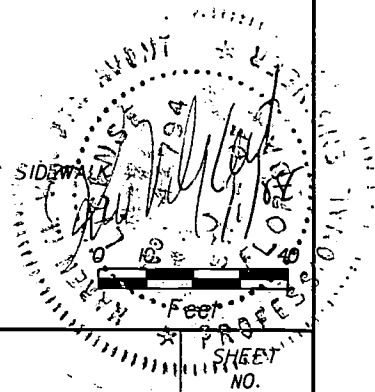
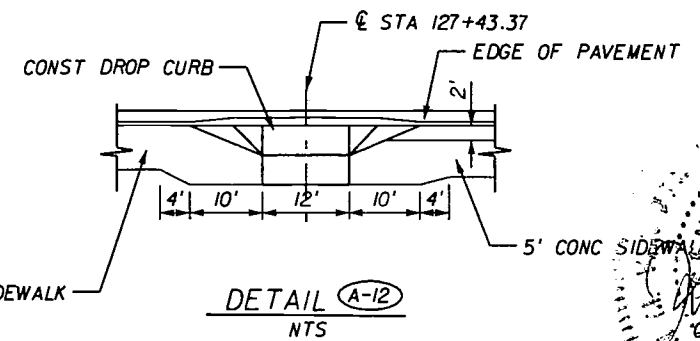
LOT 778 LOT 771 LOT 772 LOT 773 LOT 774



SELF STORAGE

INFORMATION SHOWN FOR THE SELF STORAGE PROPERTY IS FROM AS-BUILT PLANS.

SEE POND DETAILS AND LATERAL OUTFALL PLANS FOR ADDITIONAL INFORMATION



REVISIONS	
DATE	DESCRIPTION

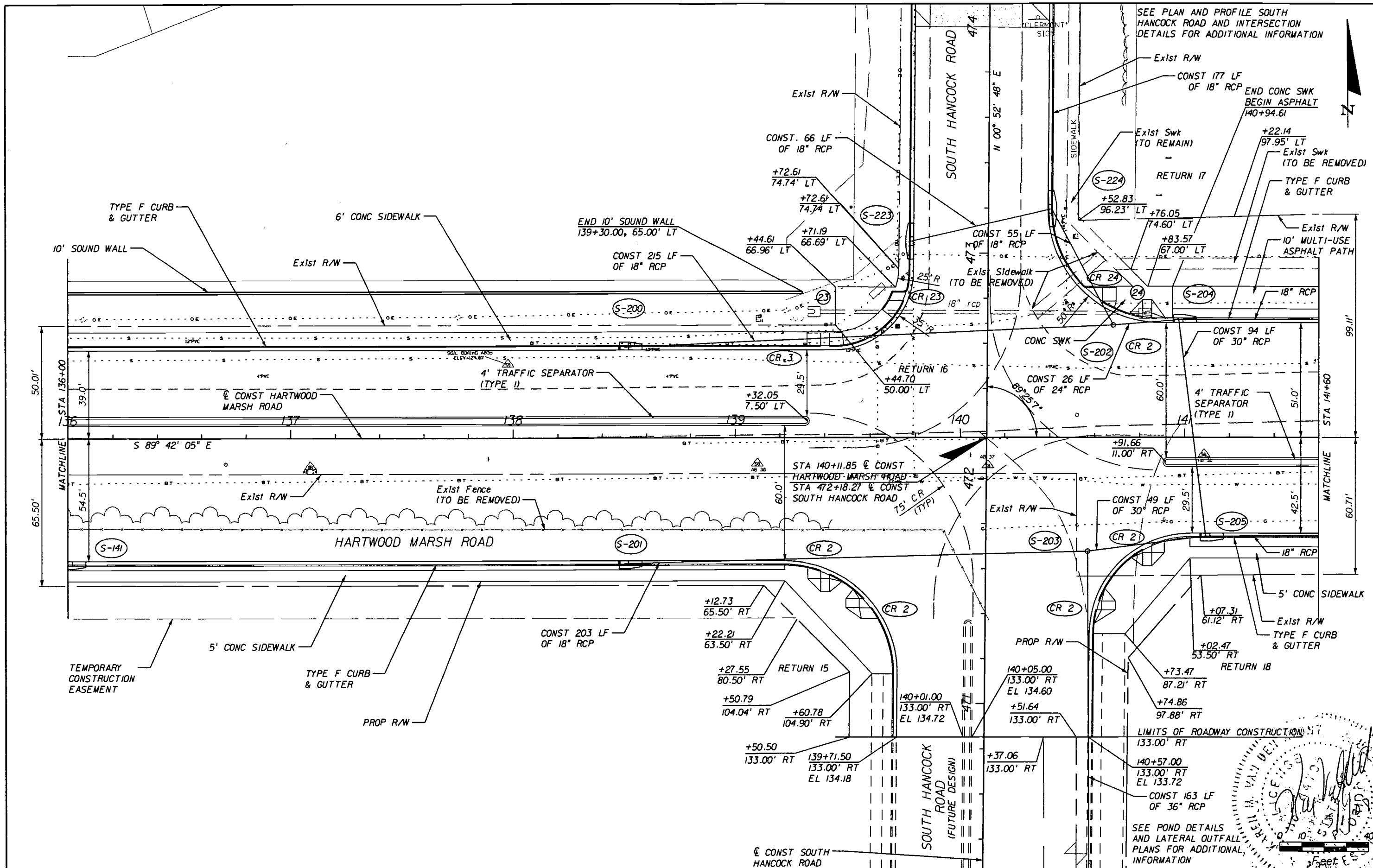
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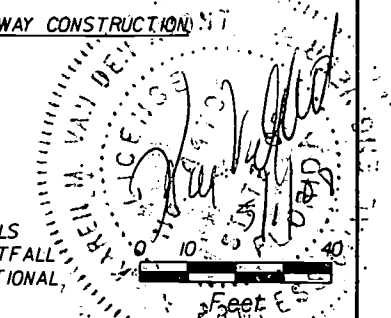
HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET

SHEET NO. 22



SEE PLAN AND PROFILE SOUTH HANCOCK ROAD AND INTERSECTION DETAILS FOR ADDITIONAL INFORMATION



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DATE	DESCRIPTION

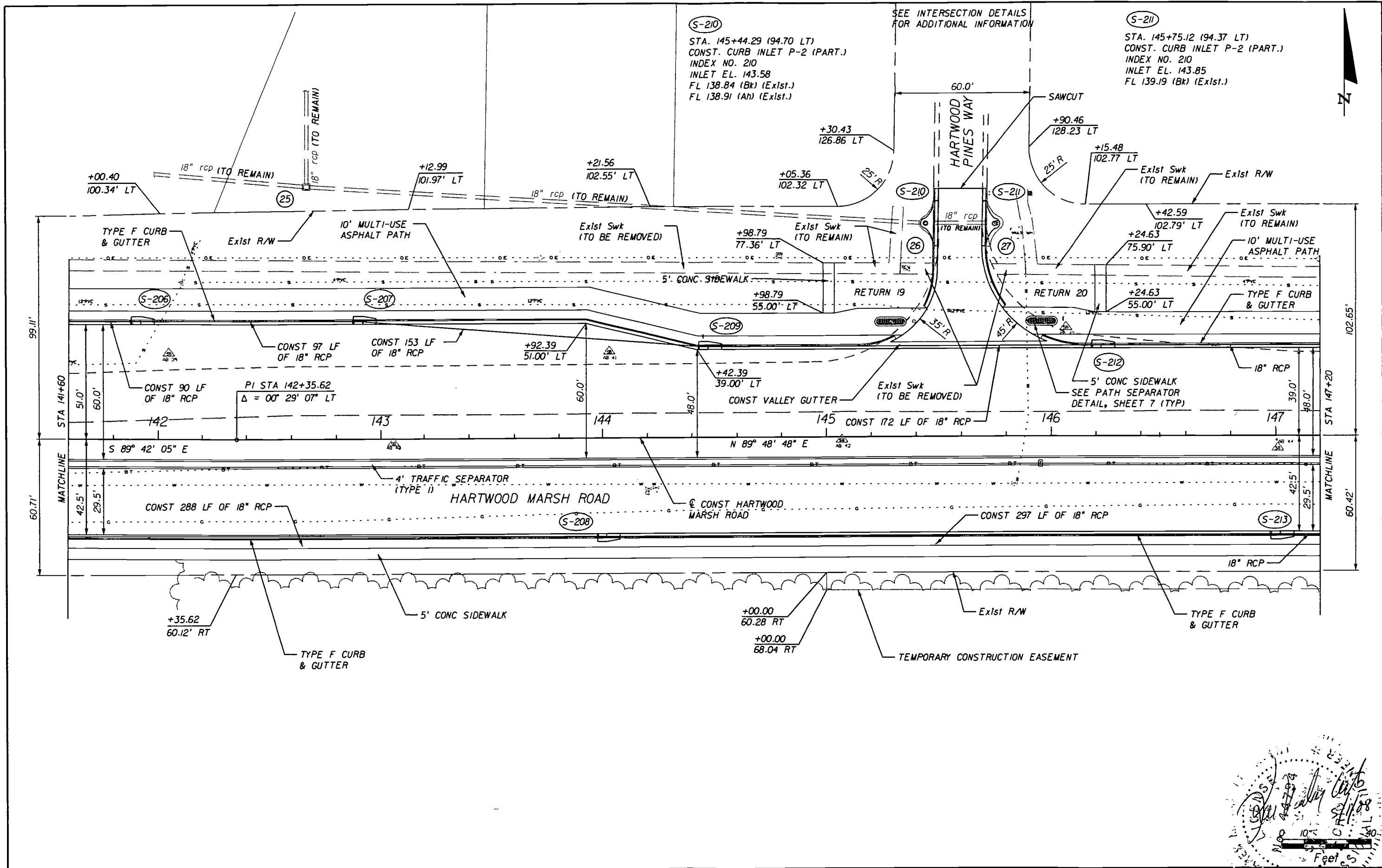
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HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET

SHEET NO.
 24



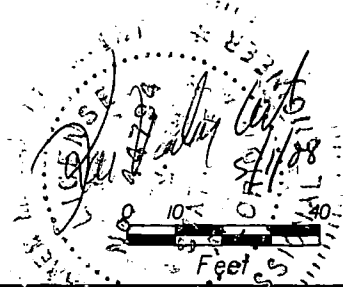
(S-210)

STA. 145+44.29 (94.70 LT)
 CONST. CURB INLET P-2 (PART.)
 INDEX NO. 210
 INLET EL. 143.58
 FL 138.84 (Bk) (Exlst.)
 FL 138.91 (Ah) (Exlst.)

(S-211)

STA. 145+75.12 (94.37 LT)
 CONST. CURB INLET P-2 (PART.)
 INDEX NO. 210
 INLET EL. 143.85
 FL 139.19 (Bk) (Exlst.)

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION



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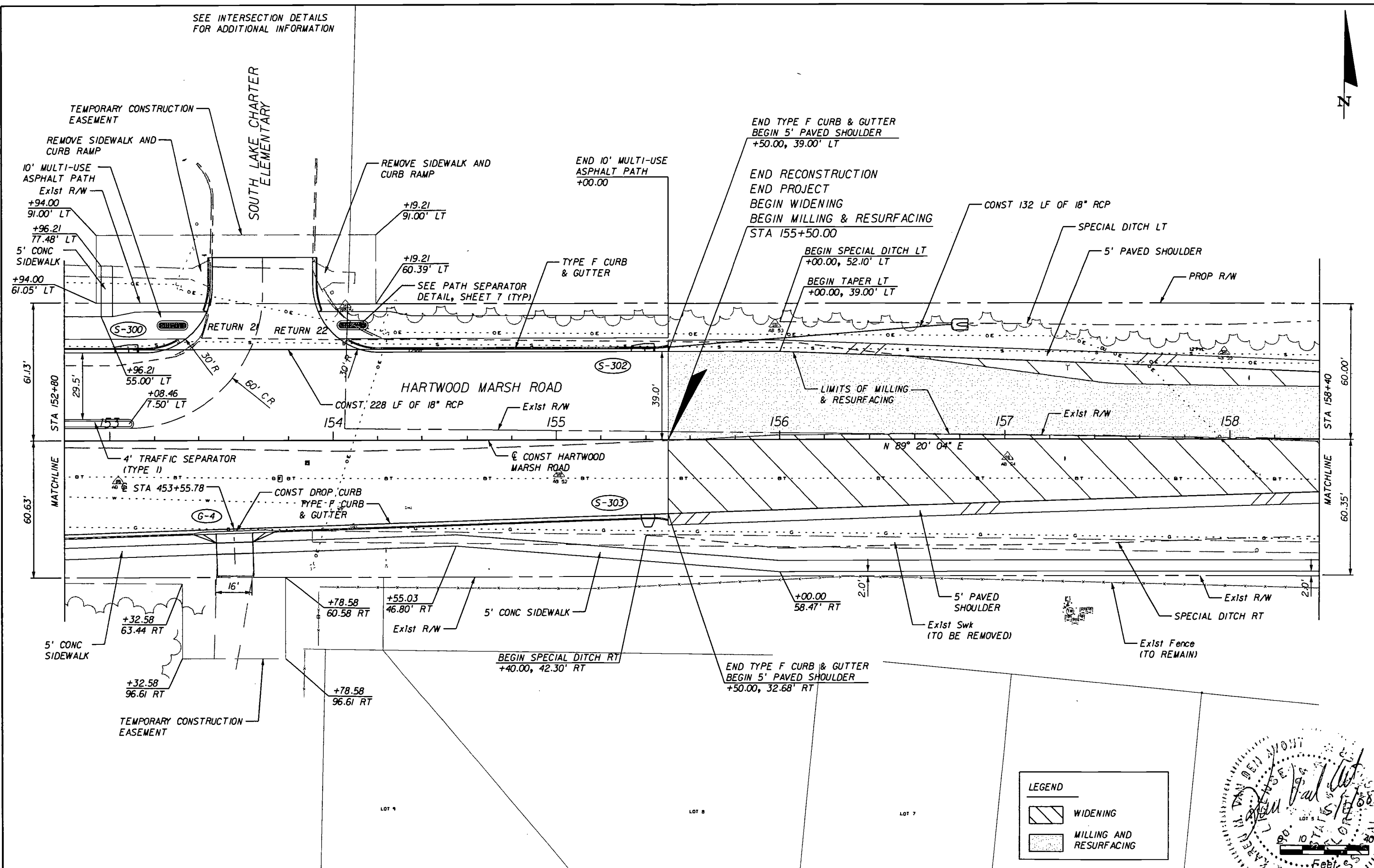


HARTWOOD MARSH ROAD - PHASE I

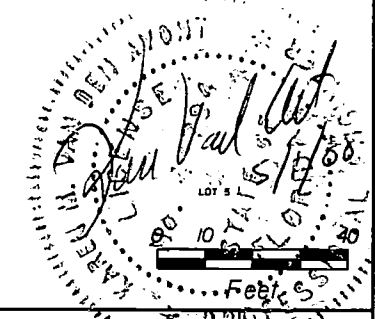
PLAN SHEET

SHEET NO. **25**

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION



LEGEND	
	WIDENING
	MILLING AND RESURFACING



REVISIONS		
DATE	BY	DESCRIPTION

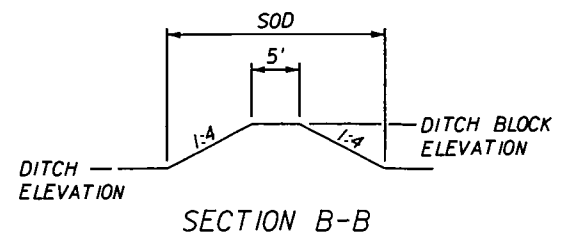
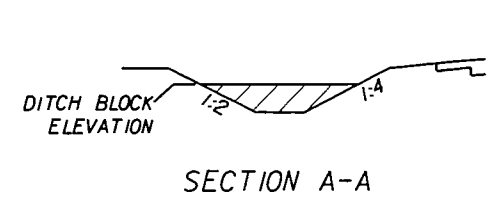
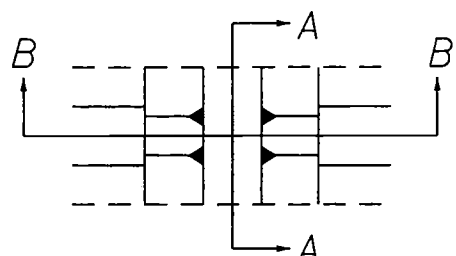
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HARTWOOD MARSH ROAD - PHASE I

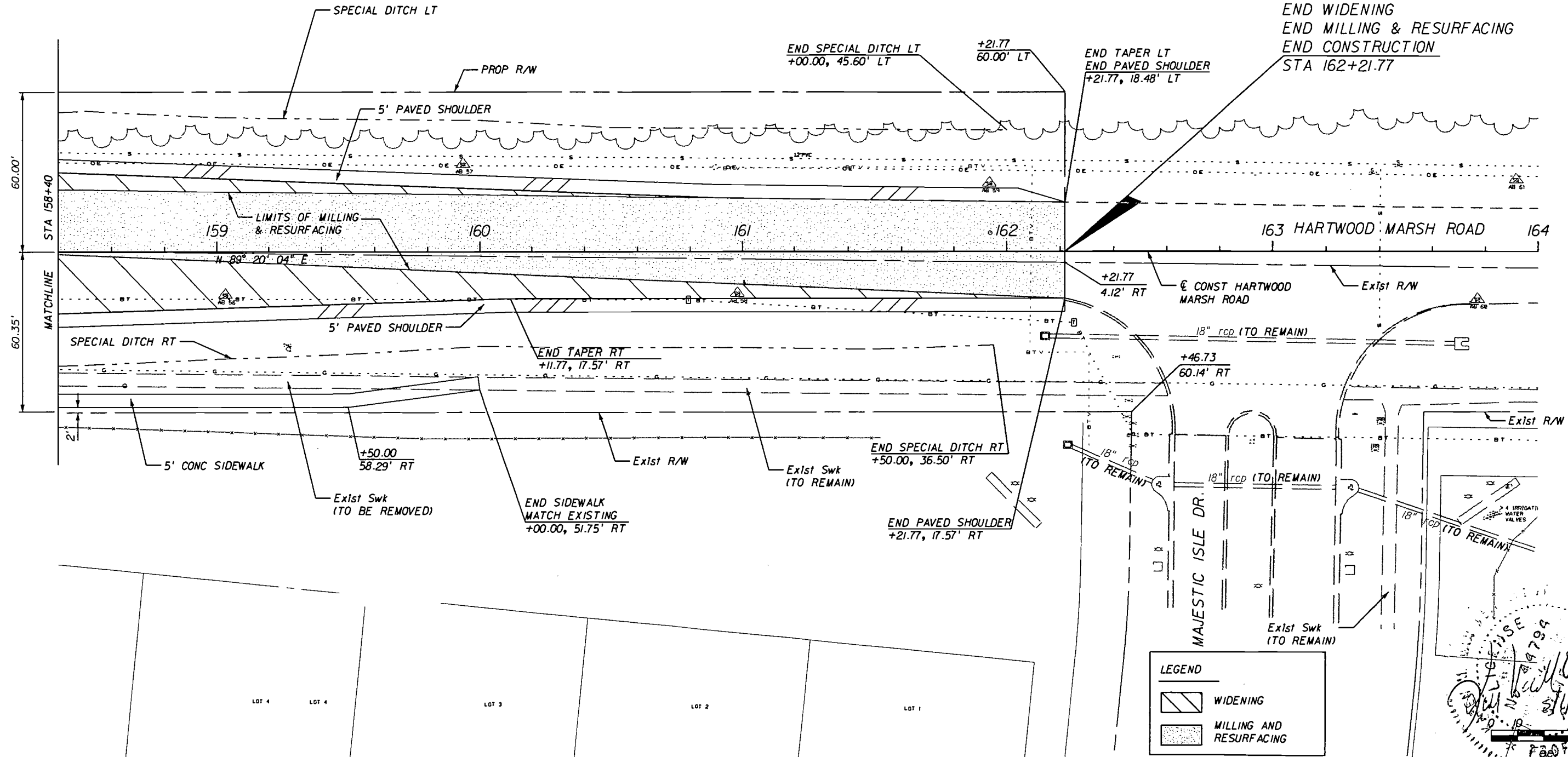
PLAN SHEET

SHEET NO.
27



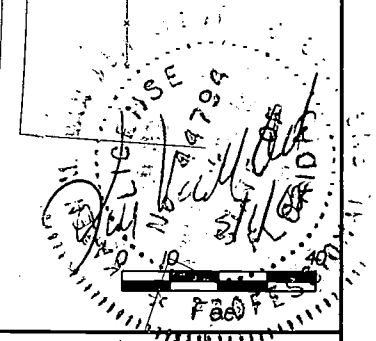
DITCH BLOCK DETAILS

DITCH BLOCK INFORMATION							
RIGHT SIDE				LEFT SIDE			
STATION	ELEVATION OF BLOCK	STATION	ELEVATION OF BLOCK	STATION	ELEVATION OF BLOCK	STATION	ELEVATION OF BLOCK
156+25	149.9	159+25	138.1	156+50	151.2	159+50	136.6
156+50	149.9	159+50	136.6	156+75	150.5	159+75	135.4
156+75	149.0	159+75	135.4	157+00	149.8	160+00	134.2
157+00	148.0	160+00	134.1	157+25	149.1	160+25	133.4
157+25	147.2	160+25	133.2	157+50	148.4	160+50	132.5
157+50	146.5	160+50	132.3	157+75	147.3	160+75	131.6
157+75	145.9	160+75	131.4	158+00	146.2	161+00	130.6
158+00	145.1	161+00	130.3	158+25	143.9	161+25	129.6
158+25	143.4	161+25	129.6	158+50	141.6	161+50	128.6
158+50	141.6	161+50	128.7	158+75	140.5	161+75	127.5
158+75	140.6	161+95	127.7	159+00	139.4	162+00	126.5
159+00	139.6			159+25	138.0		



LEGEND

	WIDENING
	MILLING AND RESURFACING



REVISIONS		
DATE	BY	DESCRIPTION

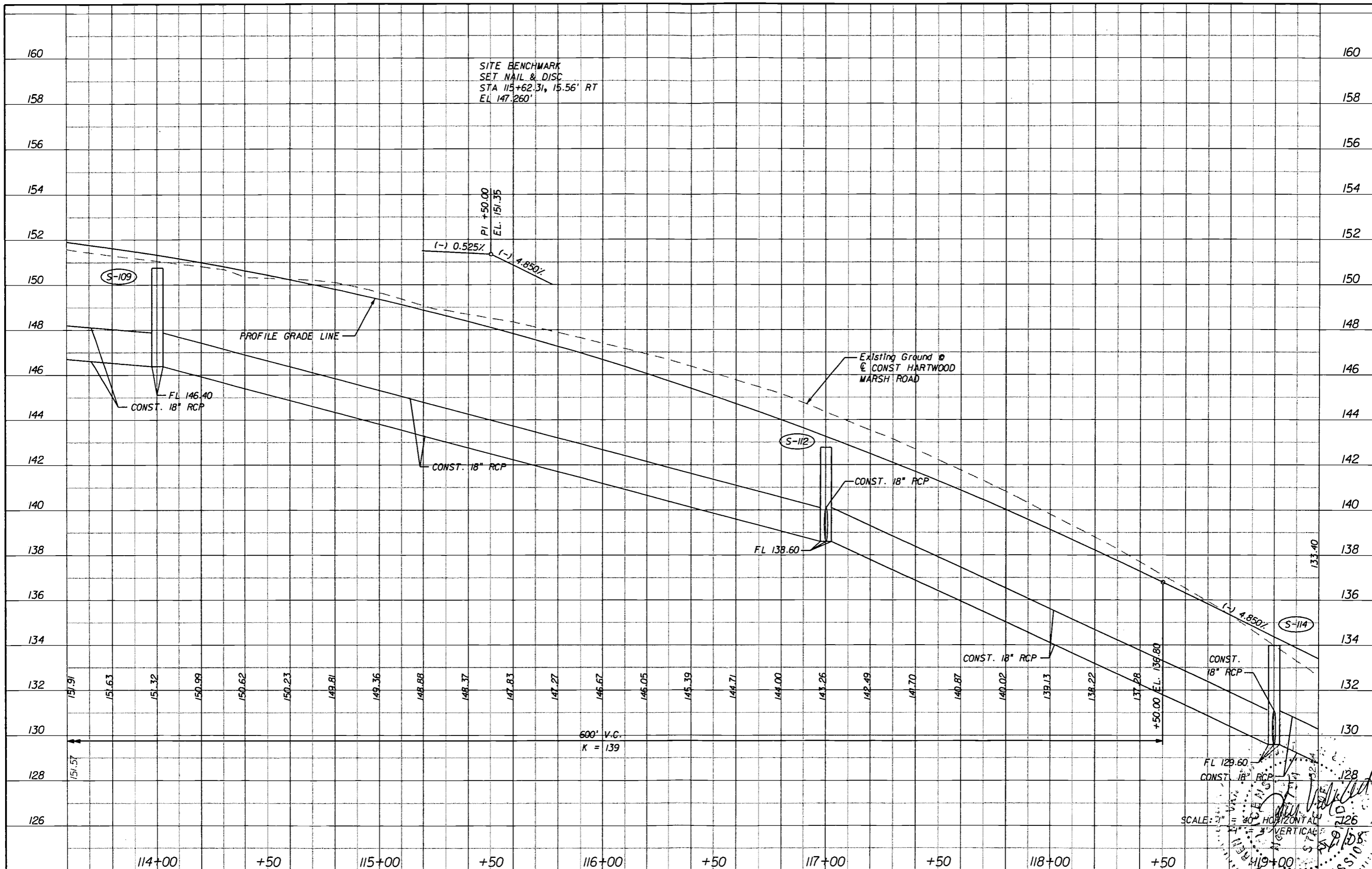
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HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET

SHEET NO.
28



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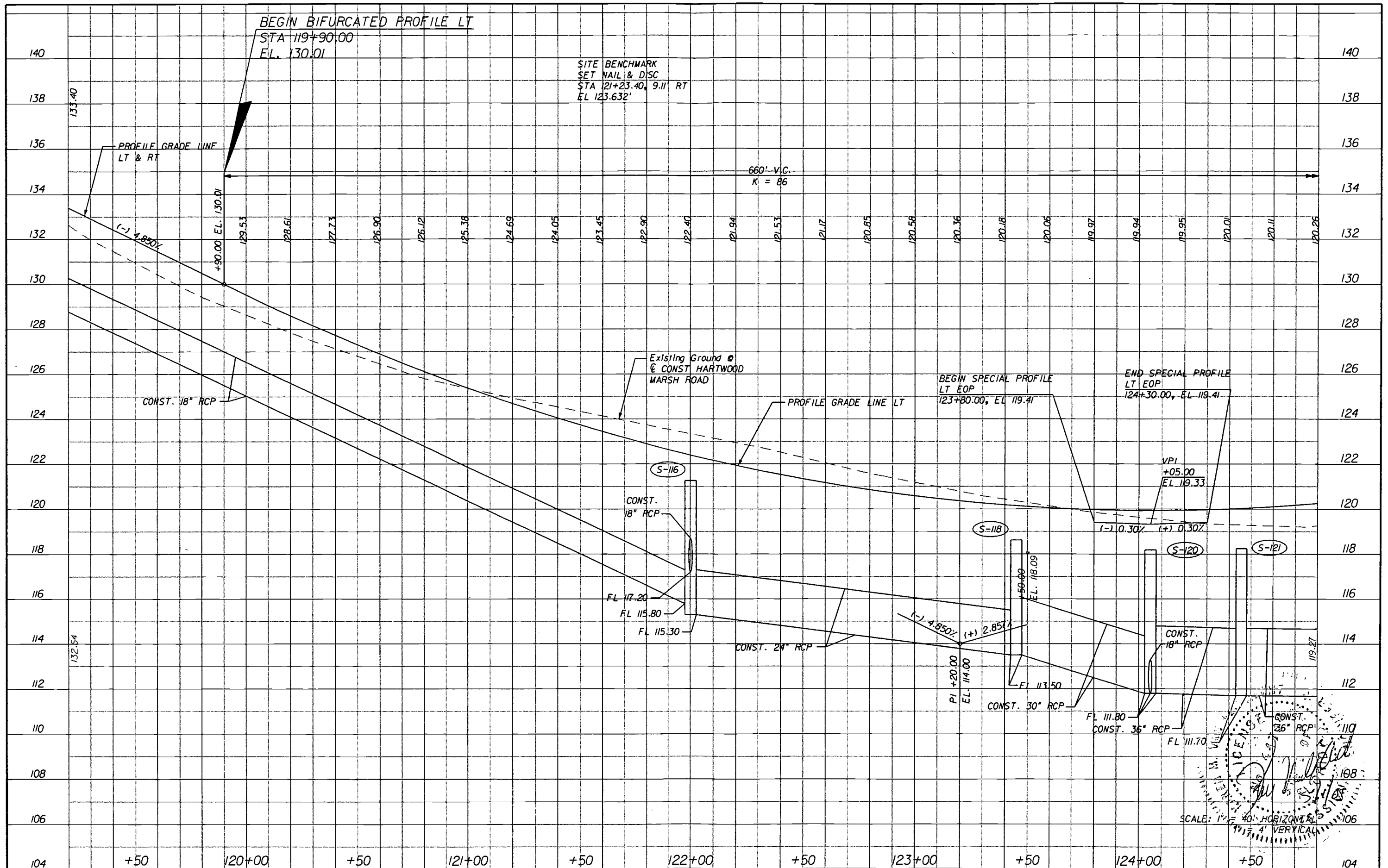
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
ROAD - PHASE I**

**PROFILE SHEET
HARTWOOD MARSH ROAD**

SHEET NO.
31



DATE	BY	REVISIONS DESCRIPTION

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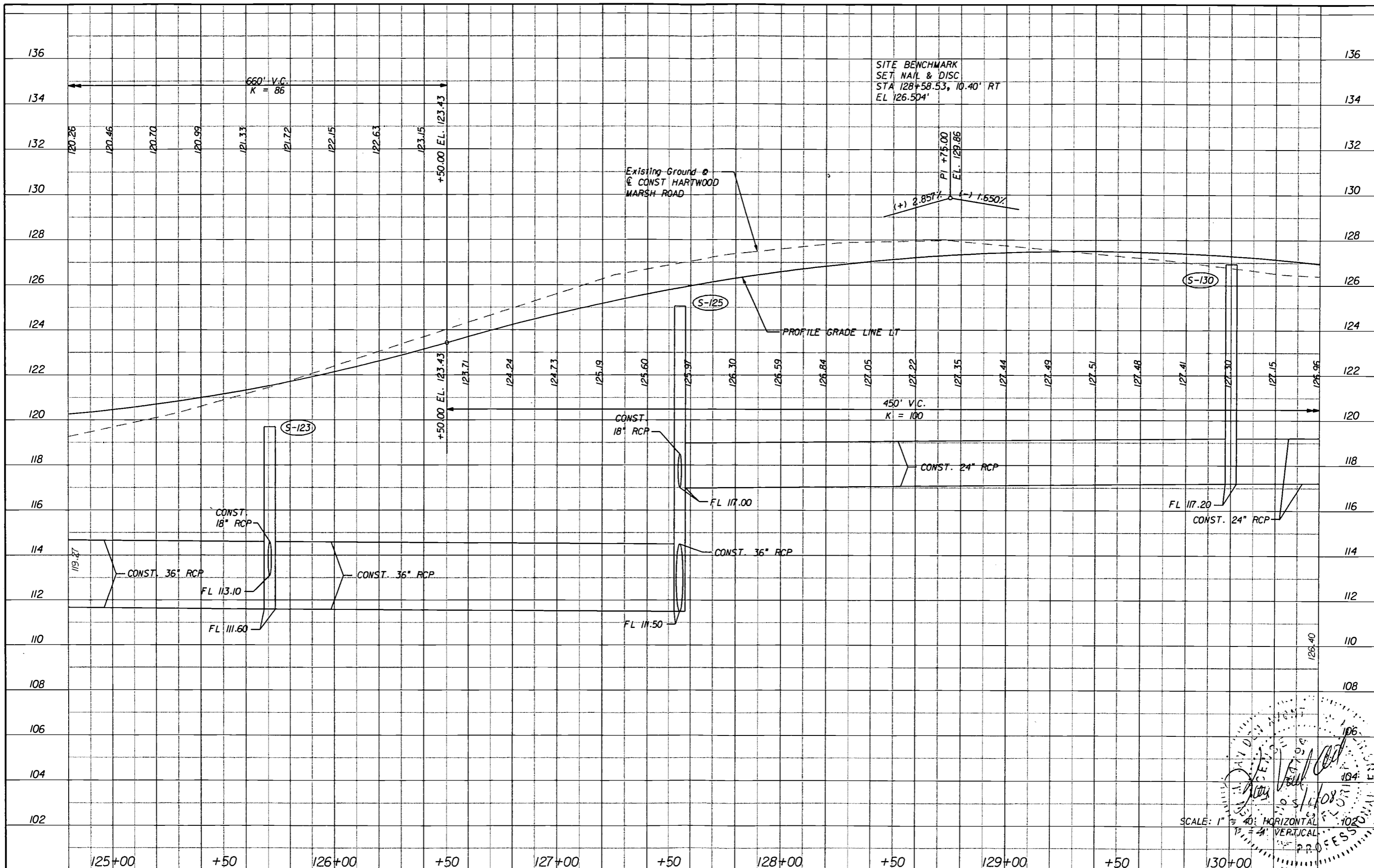


HARTWOOD MARSH ROAD - PHASE I

**PROFILE SHEET
 HARTWOOD MARSH ROAD**

SHEET NO.
32

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



SCALE: 1" = 40' HORIZONTAL
 1" = 4' VERTICAL
 PROFESSIONAL ENGINEER
 KAREN M. VAN DEN AVONT, P.E.
 5/1/2008

REVISIONS	
DATE	DESCRIPTION

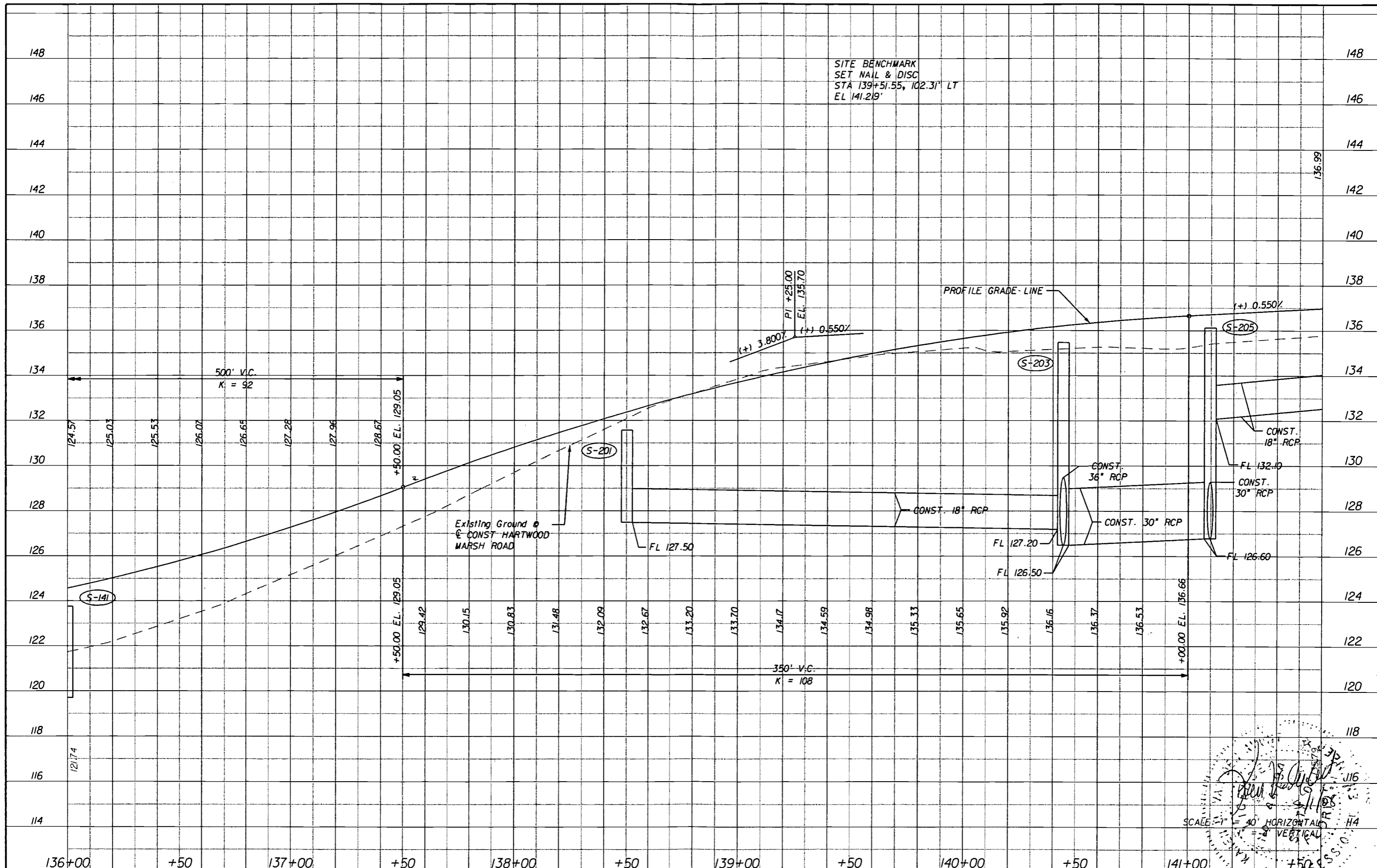
HNTB
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 SUITE 200
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 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



HARTWOOD MARSH ROAD - PHASE I

**PROFILE SHEET
 HARTWOOD MARSH ROAD**

SHEET NO.
33



SITE BENCHMARK
SET NAIL & DISC
STA 139+51.55, 102.31' LT
EL 141.219'

SCALE: 1" = 40' HORIZONTAL
1" = 8' VERTICAL

REVISIONS	
DATE	DESCRIPTION

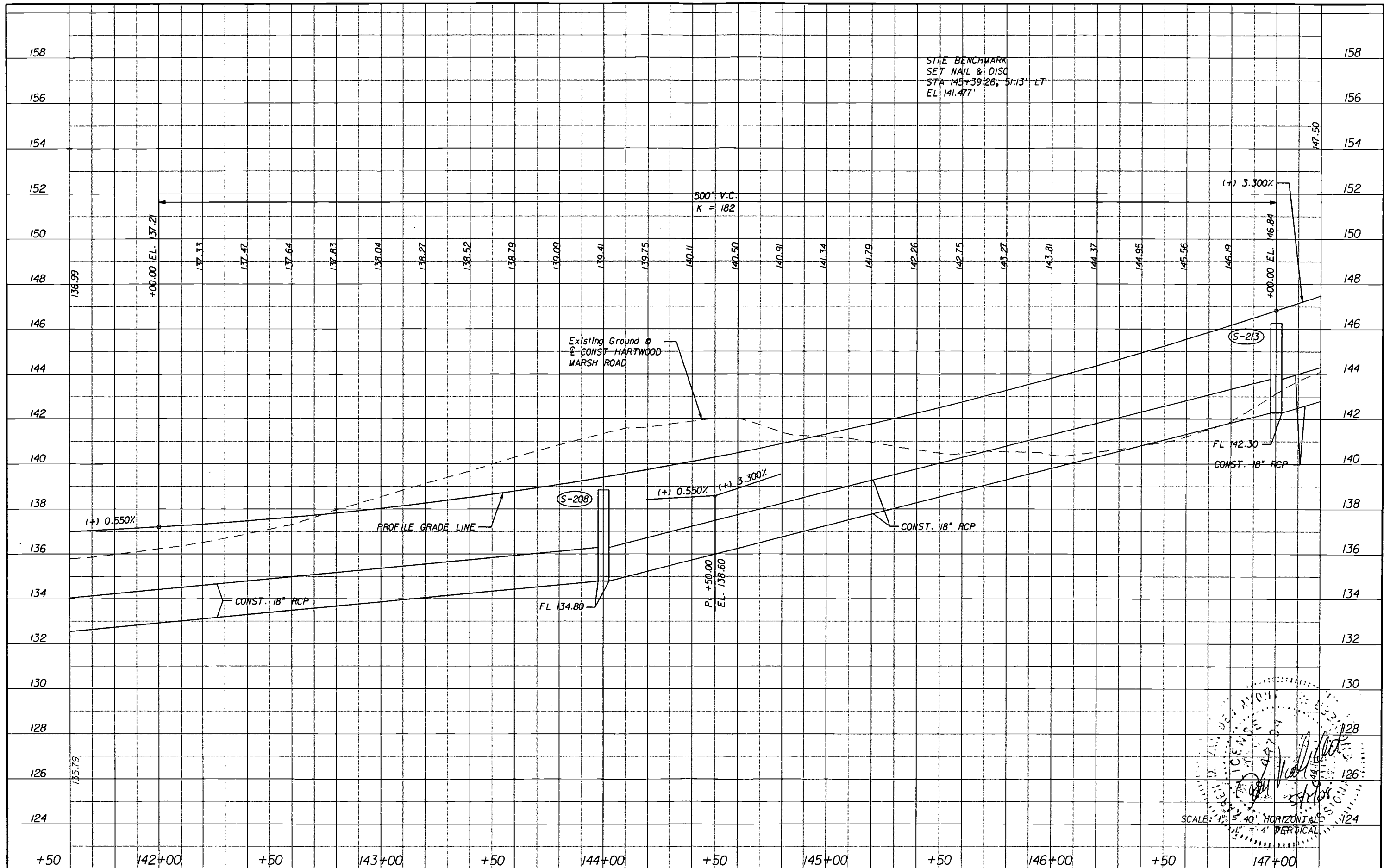
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(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
ROAD - PHASE I**

**PROFILE SHEET
HARTWOOD MARSH ROAD**

SHEET NO.
35



SCALE: 1" = 40' HORIZONTAL
 1" = 4' VERTICAL
 HNTB CORPORATION
 300 PRIMERA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794

REVISIONS	
DATE	DESCRIPTION

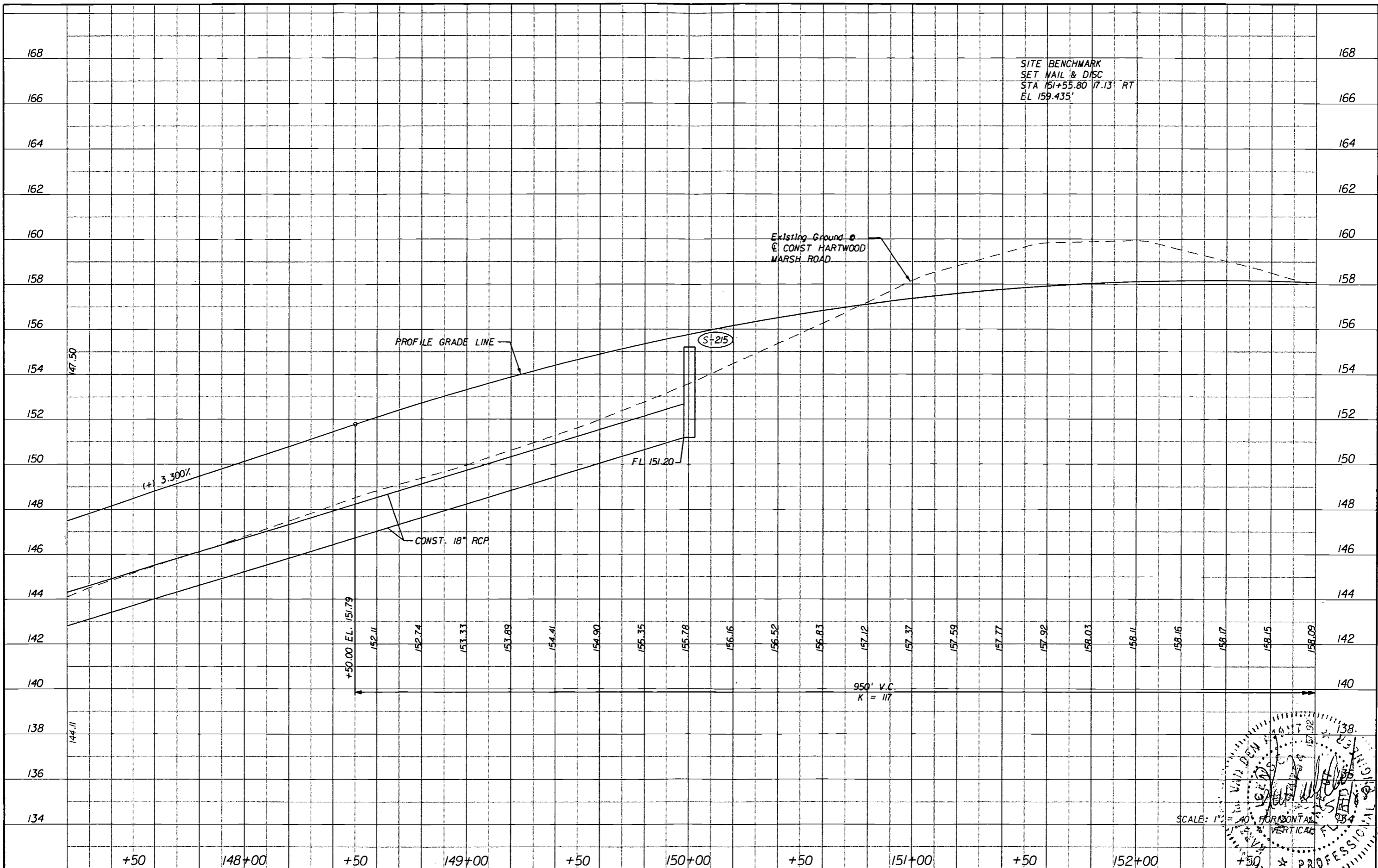
HNTB
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 FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
 ROAD - PHASE I**

**PROFILE SHEET
 HARTWOOD MARSH ROAD**

SHEET NO.
36



SITE BENCHMARK
 SET NAIL & DISC
 STA 151+55.80 17.13' RT
 EL 159.435'

Existing Ground @
 CONST HARTWOOD
 MARSH ROAD

PROFILE GRADE LINE

S+215

FL 151.20

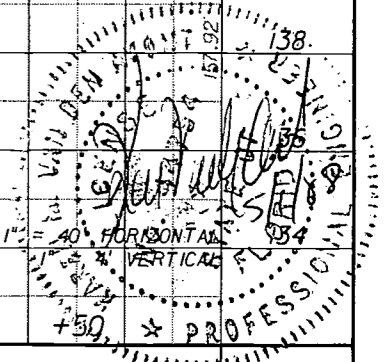
(+) 3.300%

CONST. 18" RCP

+50.00 EL. 151.79

950' V.C.
 K = 117

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



REVISIONS	
DATE	DESCRIPTION

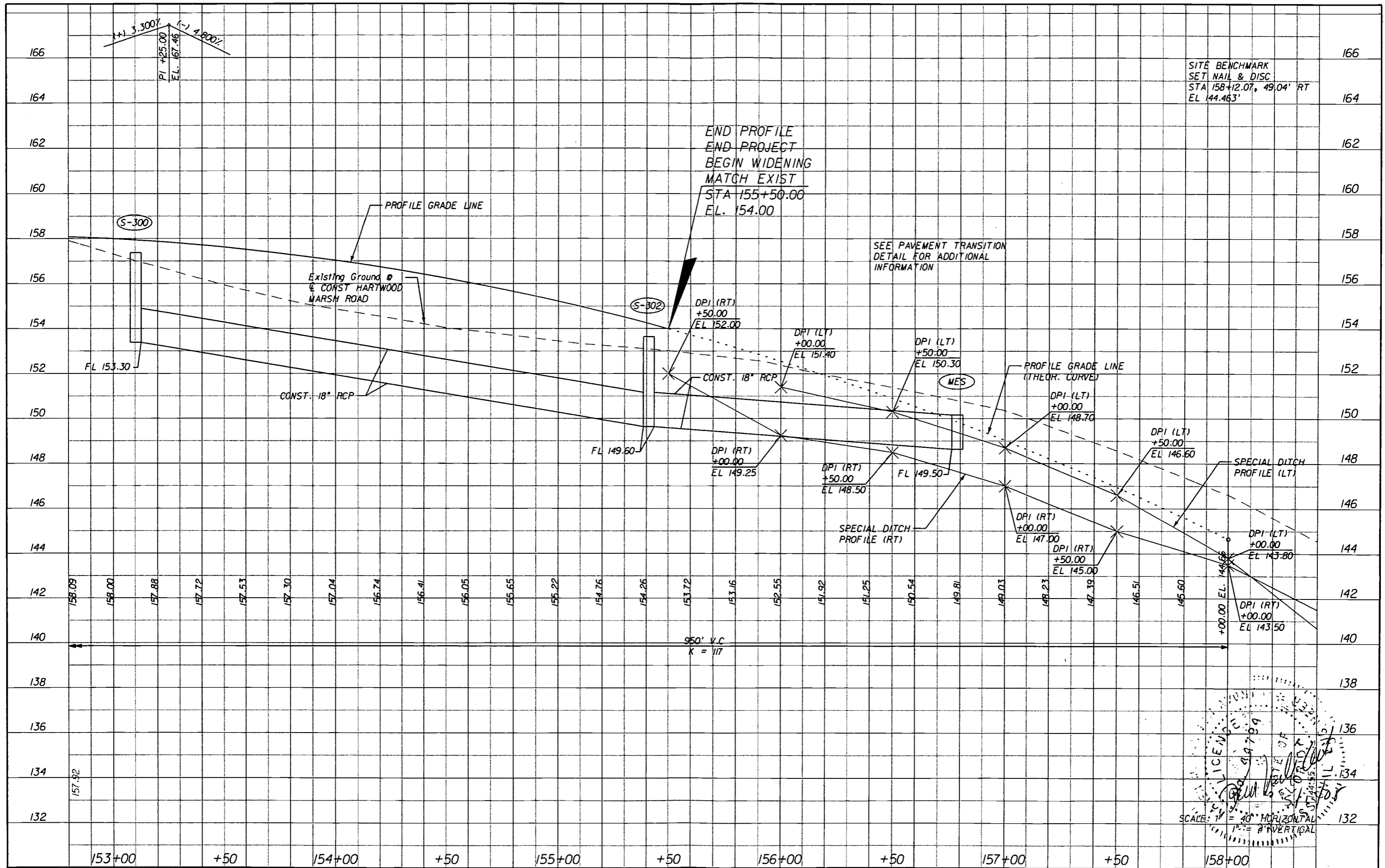
HNTB
 HNTB CORPORATION
 300 PRIMA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
 ROAD - PHASE I**

**PROFILE SHEET
 HARTWOOD MARSH ROAD**

SHEET NO.
37



SITE BENCHMARK
SET NAIL & DISC
STA 158+12.07, 49.04' RT
EL 144.463'

END PROFILE
END PROJECT
BEGIN WIDENING
MATCH EXIST
STA 155+50.00
EL. 154.00

SEE PAVEMENT TRANSITION
DETAIL FOR ADDITIONAL
INFORMATION

SCALE: 1" = 30' HORIZONTAL
1" = 8' VERTICAL

REVISIONS	
DATE	DESCRIPTION

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SUITE 200
LAKE MARY, FL 32746
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CERT. OF AUTH. NO. 6500

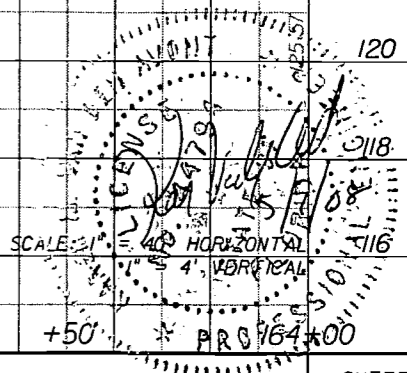
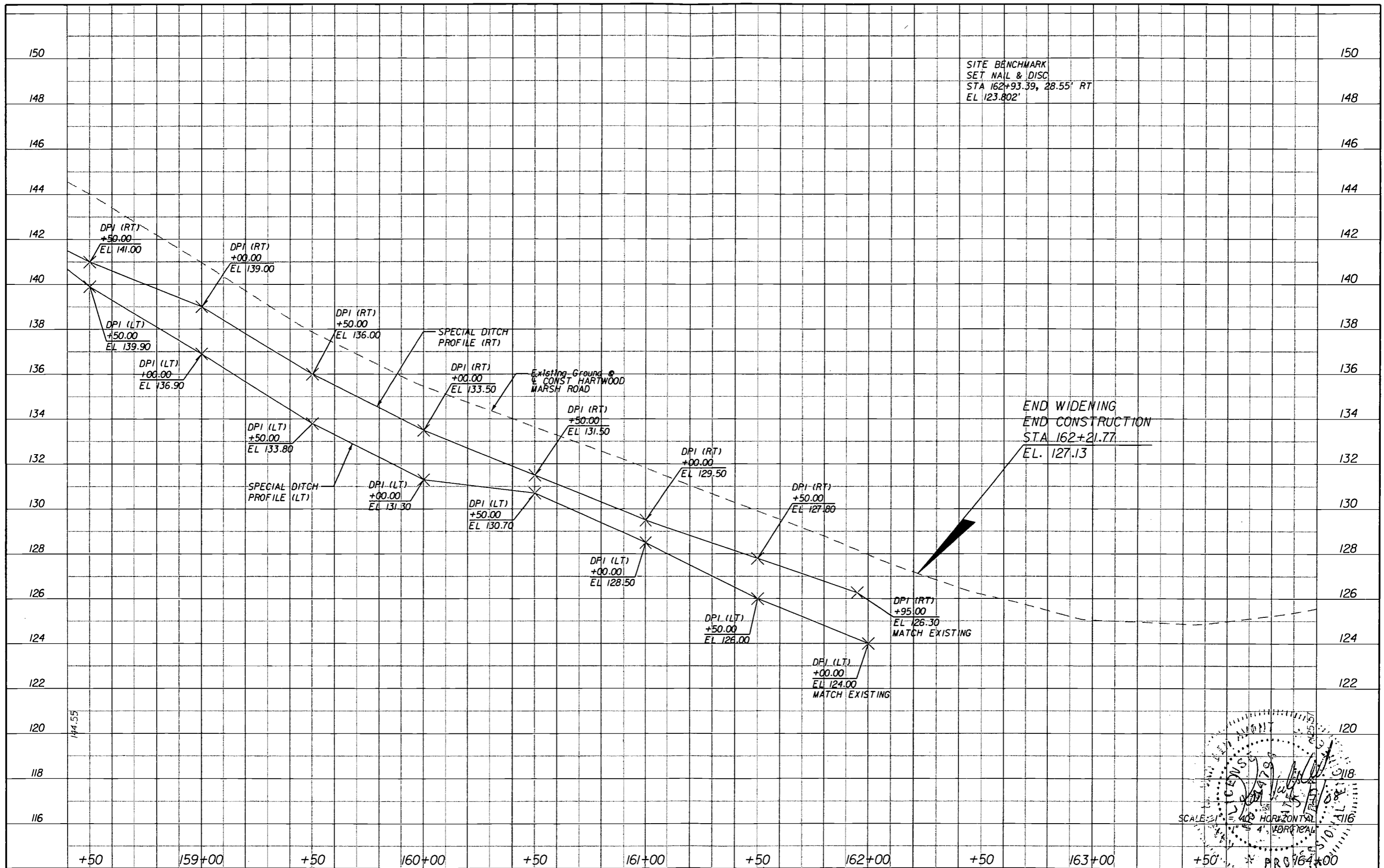
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
ROAD - PHASE I**

**PROFILE SHEET
HARTWOOD MARSH ROAD**

SHEET
NO.
38



REVISIONS	
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FL. REGISTRATION NO. 44794



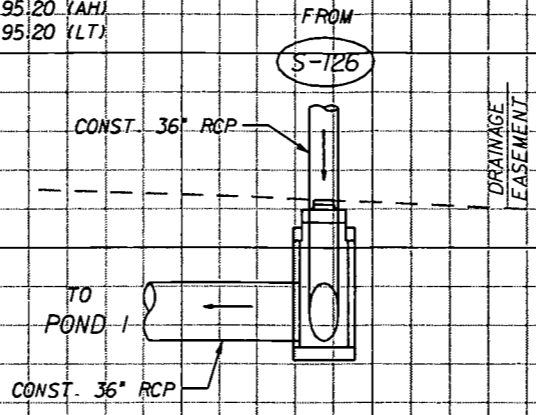
HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET HARTWOOD MARSH ROAD

SHEET NO.
39

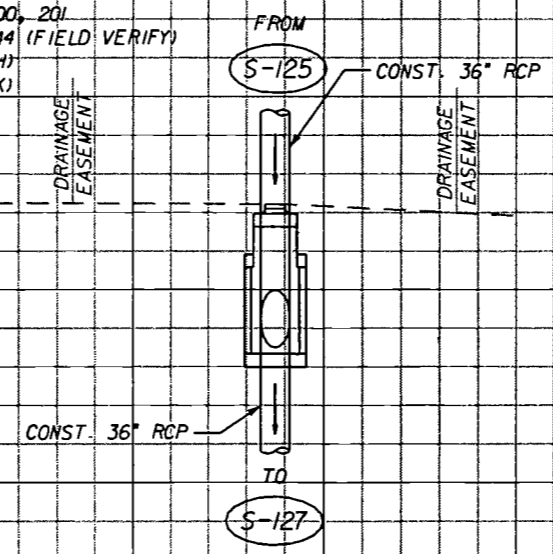
120
110
100
90
120
110
100
90

S-127
STA. 16+60.68 (5.00 LT.)
CONST. MANHOLE TYPE J-7
INDEX NO. 200, 201
TOP EL. 102.46
FL 95.20 (AH)
FL 95.20 (LT)



S-127
STA. 16+60.68

S-126
STA. 13+47.50 (5.00 LT.)
CONST. MANHOLE TYPE J-7
INDEX NO. 200, 201
TOP EL. 114.44 (FIELD VERIFY)
FL 107.00 (AH)
FL 107.00 (BK)



S-126
STA. 13+47.50

140 120 100 80 60 40 20 0 20 40 60 80 100

SCALE: 1/4" = 20' HORIZONTAL
1" = 10' VERTICAL
PROFESSIONAL ENGINEER
KAREN M. VAN DEN AVONT
5/1/2008

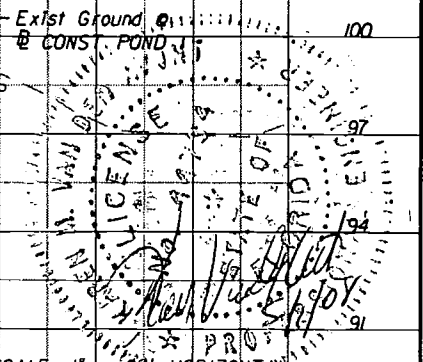
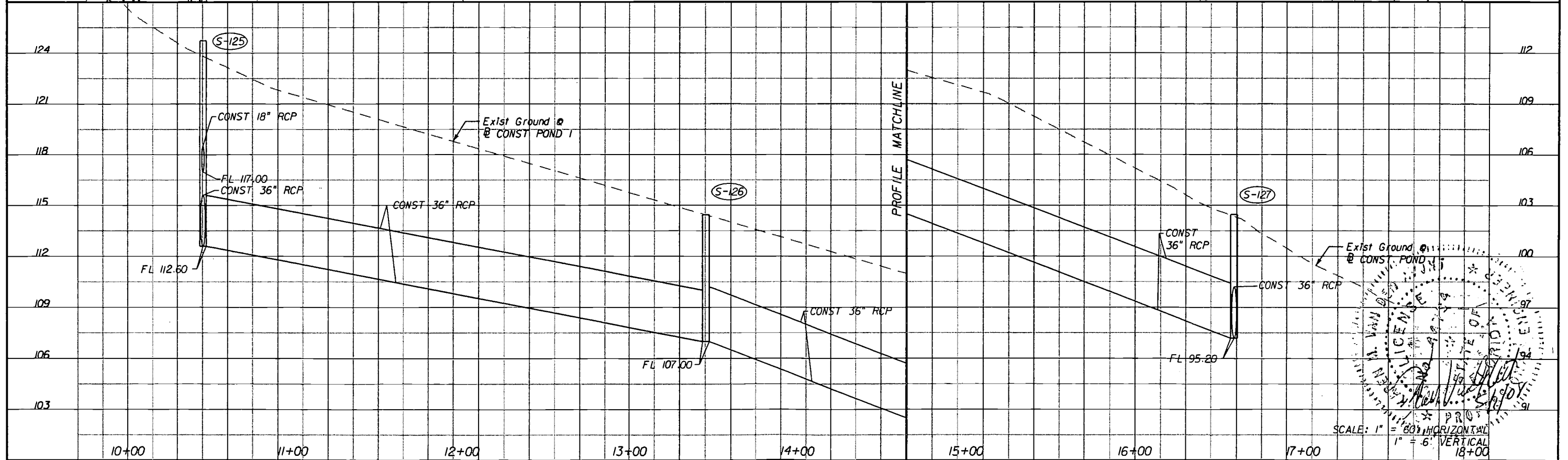
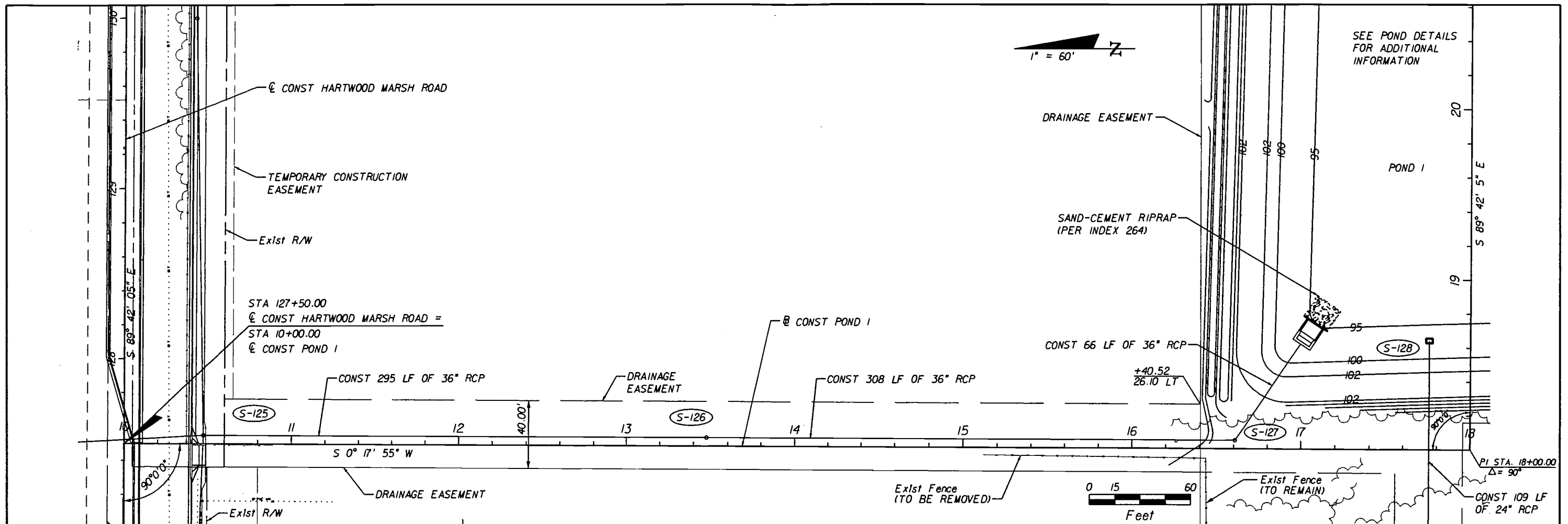
REVISIONS	
DATE	DESCRIPTION

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



HARTWOOD MARSH ROAD
DRAINAGE STRUCTURE SECTIONS
POND 1

SHEET NO.
66



REVISIONS		
DATE	BY	DESCRIPTION

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 LAKE MARY, FL 32746
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 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



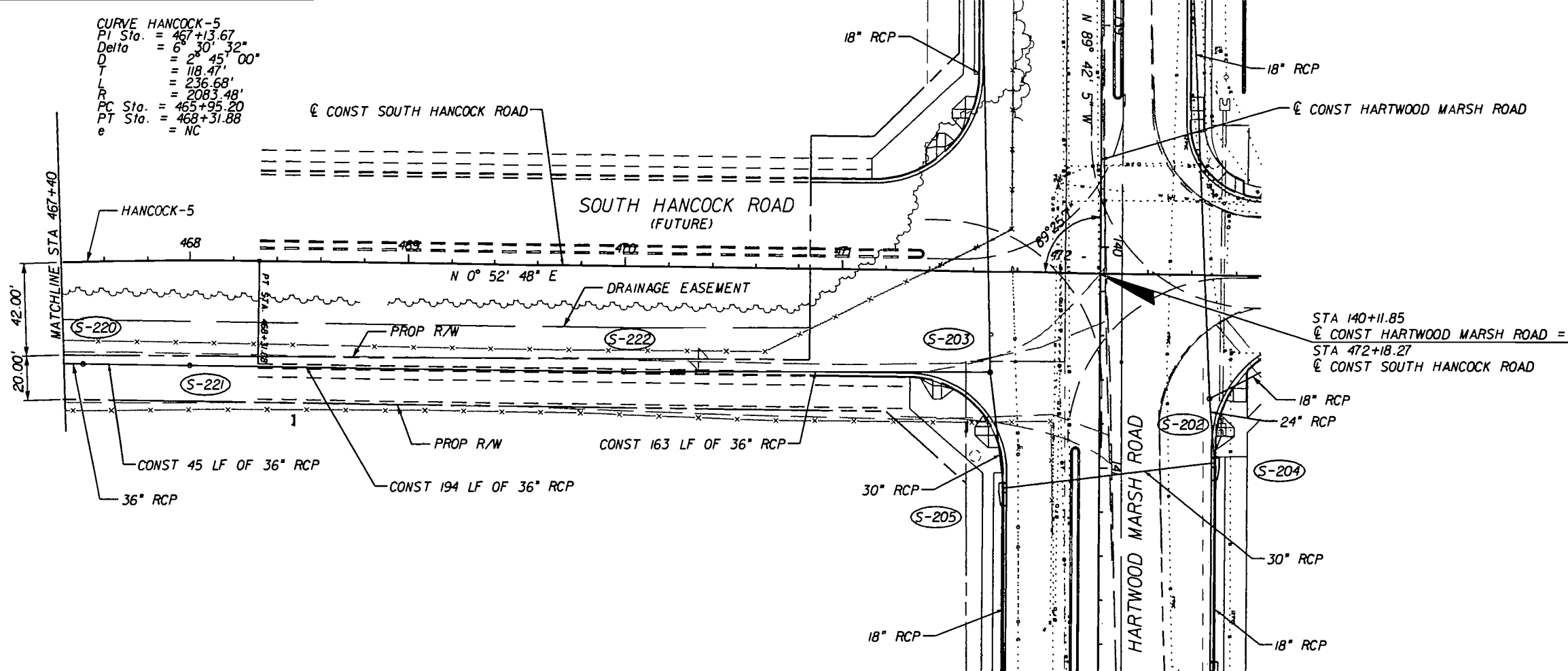
HARTWOOD MARSH ROAD - PHASE I

PLAN AND PROFILE POND 1 OUTFALL

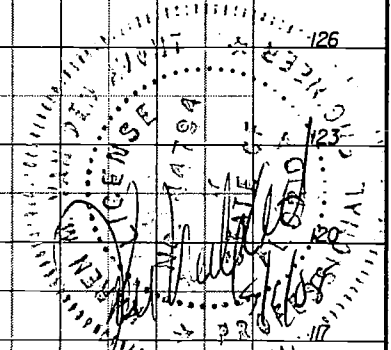
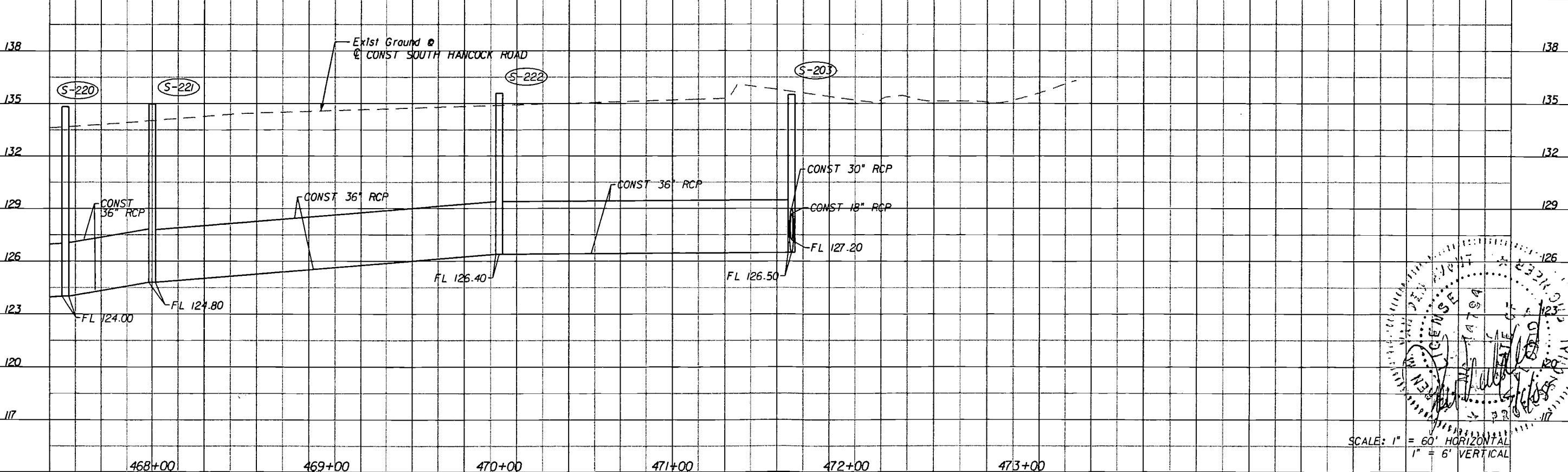
SHEET NO.
88

CURVE HANCOCK-5
 PI Sta. = 467+13.67
 Delta = 6° 30' 32"
 D = 2° 45' 00"
 T = 118.47'
 L = 236.68'
 R = 2083.48'
 PC Sta. = 465+95.20
 PT Sta. = 468+31.88
 e = NC

1" = 60'



0 15 60
 Feet



SCALE: 1" = 60' HORIZONTAL
 1" = 6' VERTICAL

DATE	BY	DESCRIPTION

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 SUITE 200
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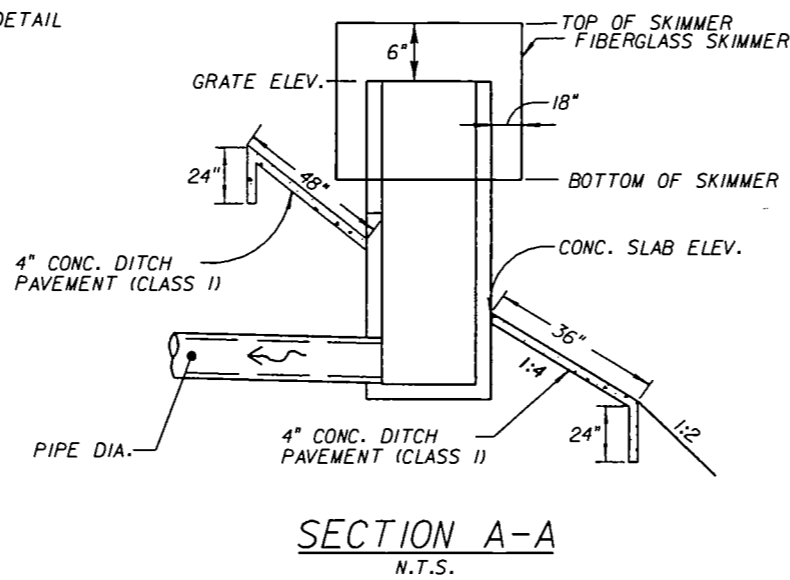
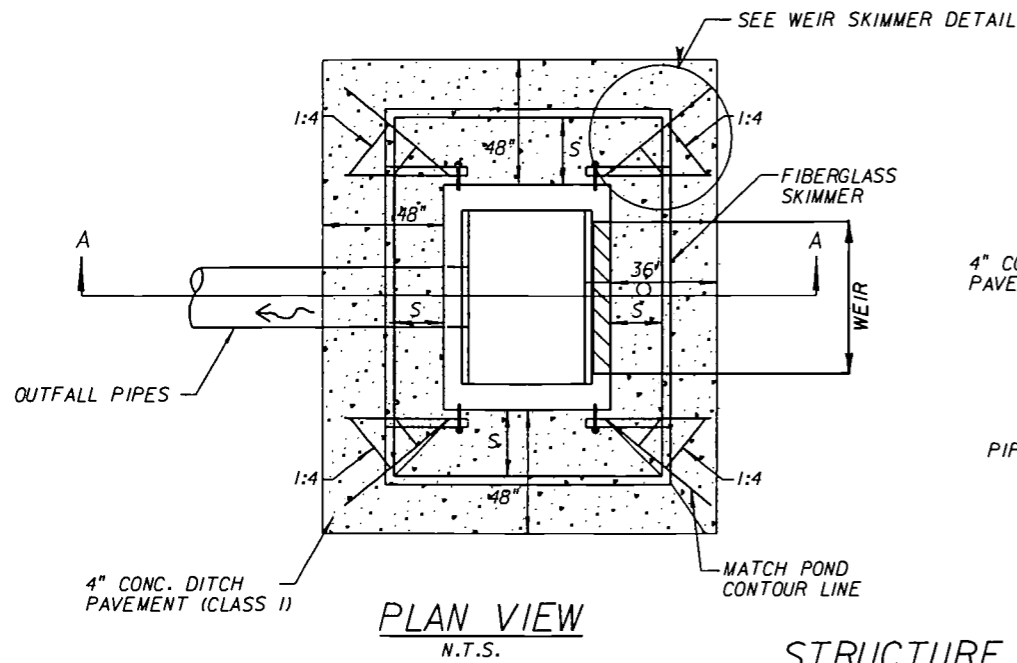


**HARTWOOD MARSH
 ROAD - PHASE I**

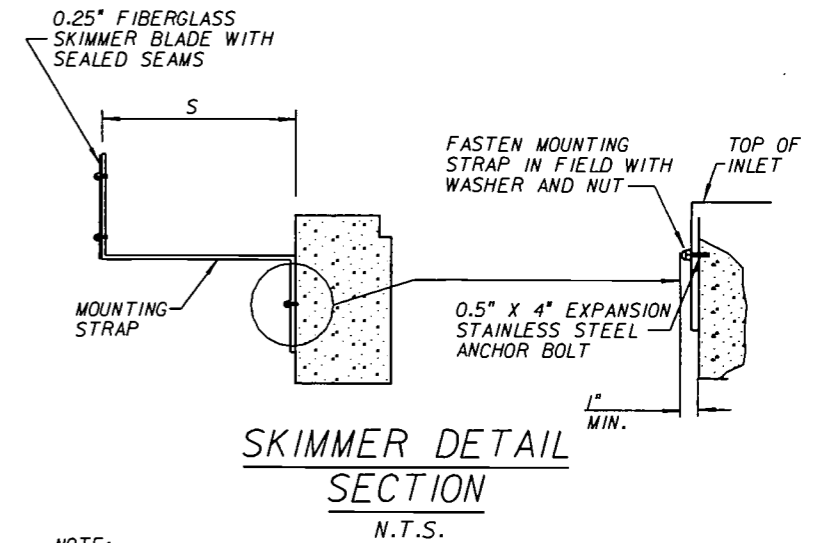
**PLAN AND PROFILE
 POND 2 OUTFALL**

SHEET NO.
 90

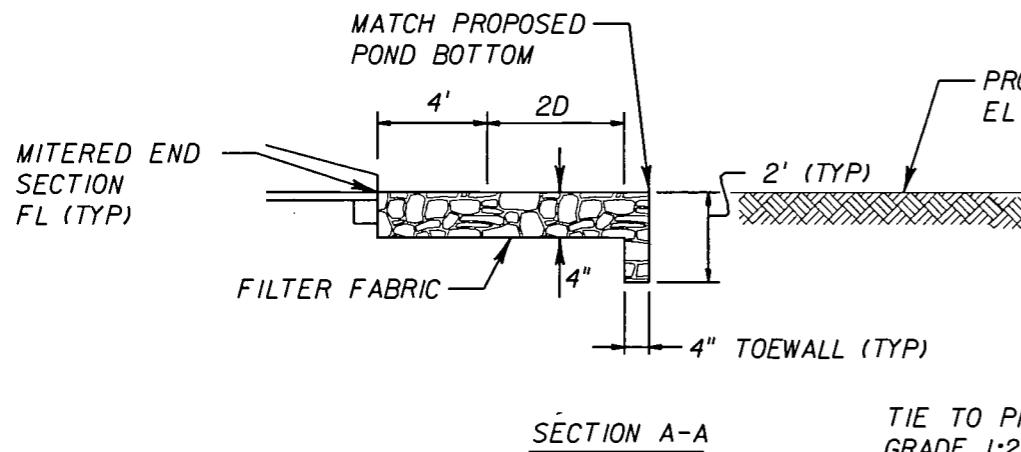
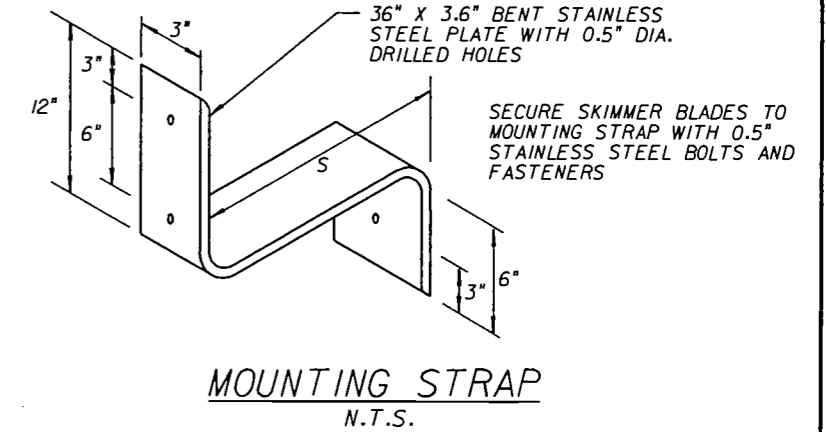
STRUCTURE NO.	POND NO.	CONTROL STRUCTURE		STRUCTURE TYPE	DIM. "S"	CONTROL ELEV.	GRATE ELEV.	WEIR ELEV.	WEIR WIDTH (IN)	TOP OF SKIMMER	BOTTOM OF SKIMMER	ORIFICE DIA. "D" (IN)	PVC PIPE DIA. (X) (IN)	PIPE DIAMETER (IN)	4" CLASS I CONC. (SY)
		STATION	OFFSET												
S-128	1	17+75.50 E CONST. POND	64.13 (LT)	DBI TYPE "C" MODIFIED	18"	97.5	97.5	NA	NA	98.0	97.0	NA	NA	24"	10.4



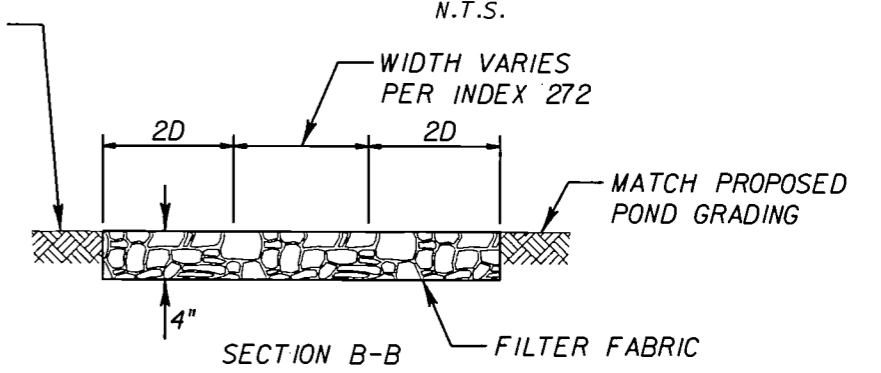
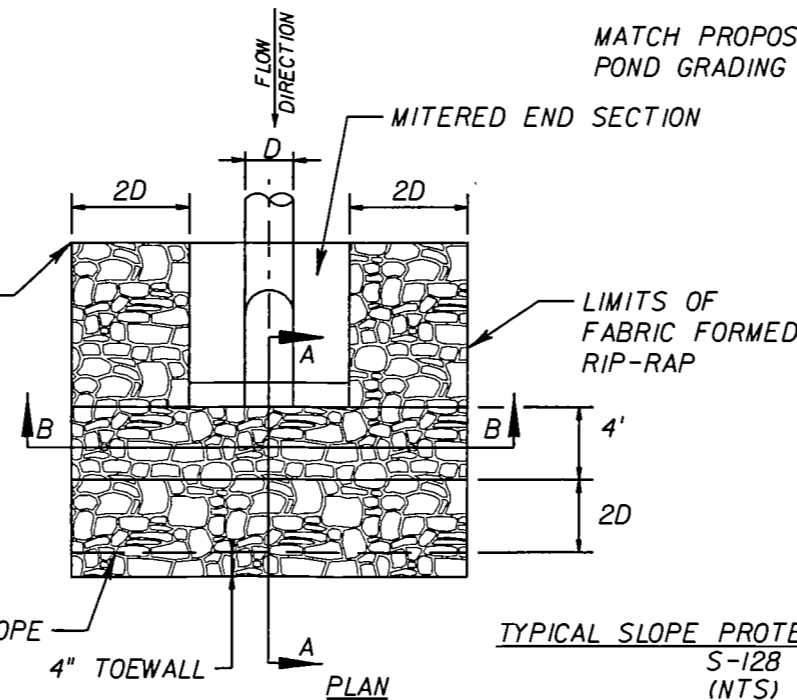
STRUCTURE DETAILS



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



TIE TO PROPOSED GRADE 1:2 (MAX) SLOPE



***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	DESCRIPTION

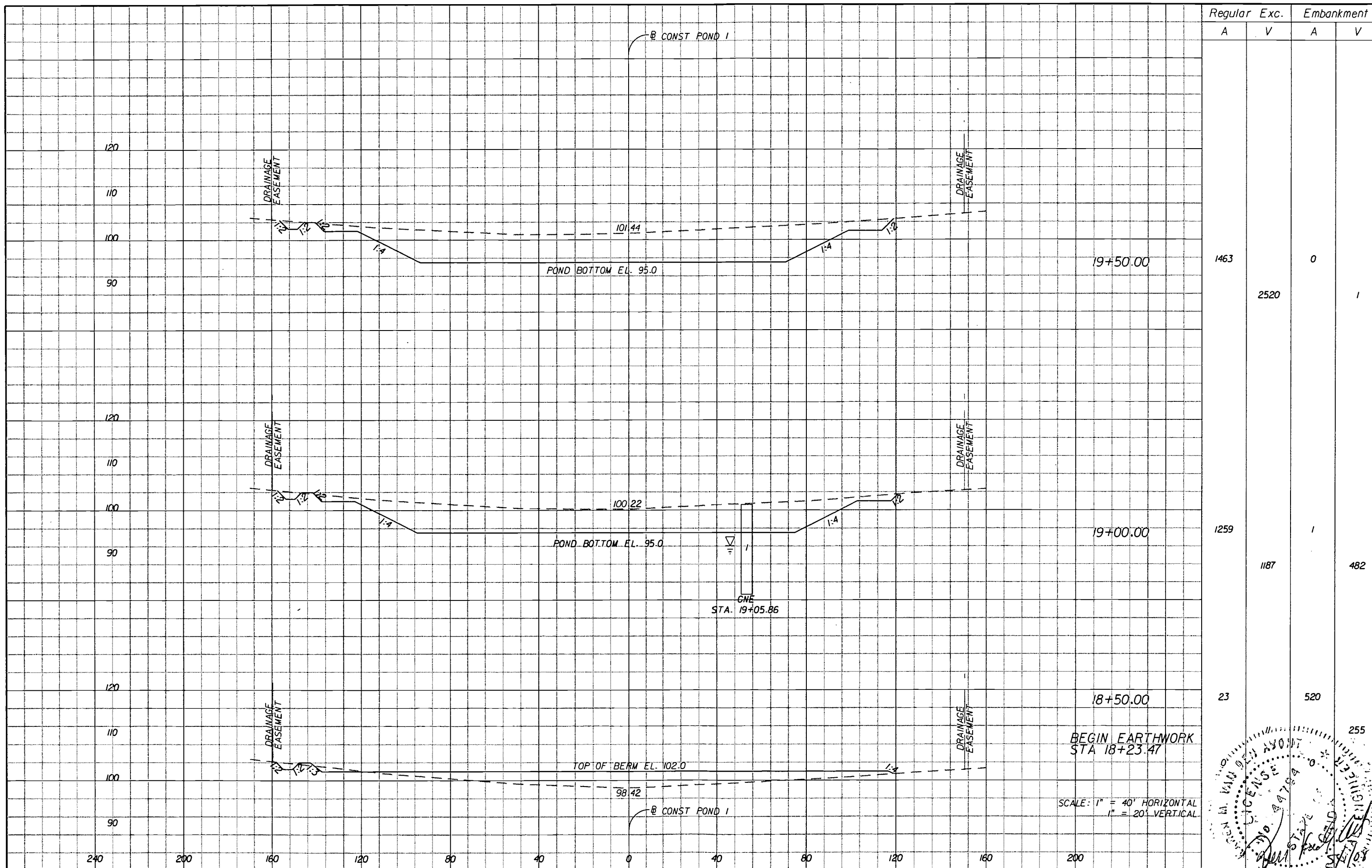
HNTB
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300 PRIMERA BLVD.
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

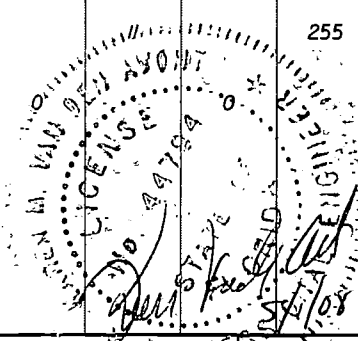
HARTWOOD MARSH ROAD - PHASE I

DRAINAGE DETAILS

SHEET 92A
PROFESSIONAL ENGINEER



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
19+50.00	1463				0	
		2520				1
19+00.00	1259				1	
		1187				482
18+50.00	23				520	
						255



REVISIONS	
DATE	DESCRIPTION

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 SUITE 200
 LAKE MARY, FL 32746
 14071 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
 ROAD - PHASE I**

**CROSS SECTIONS
 POND 1**

SHEET NO. **93**

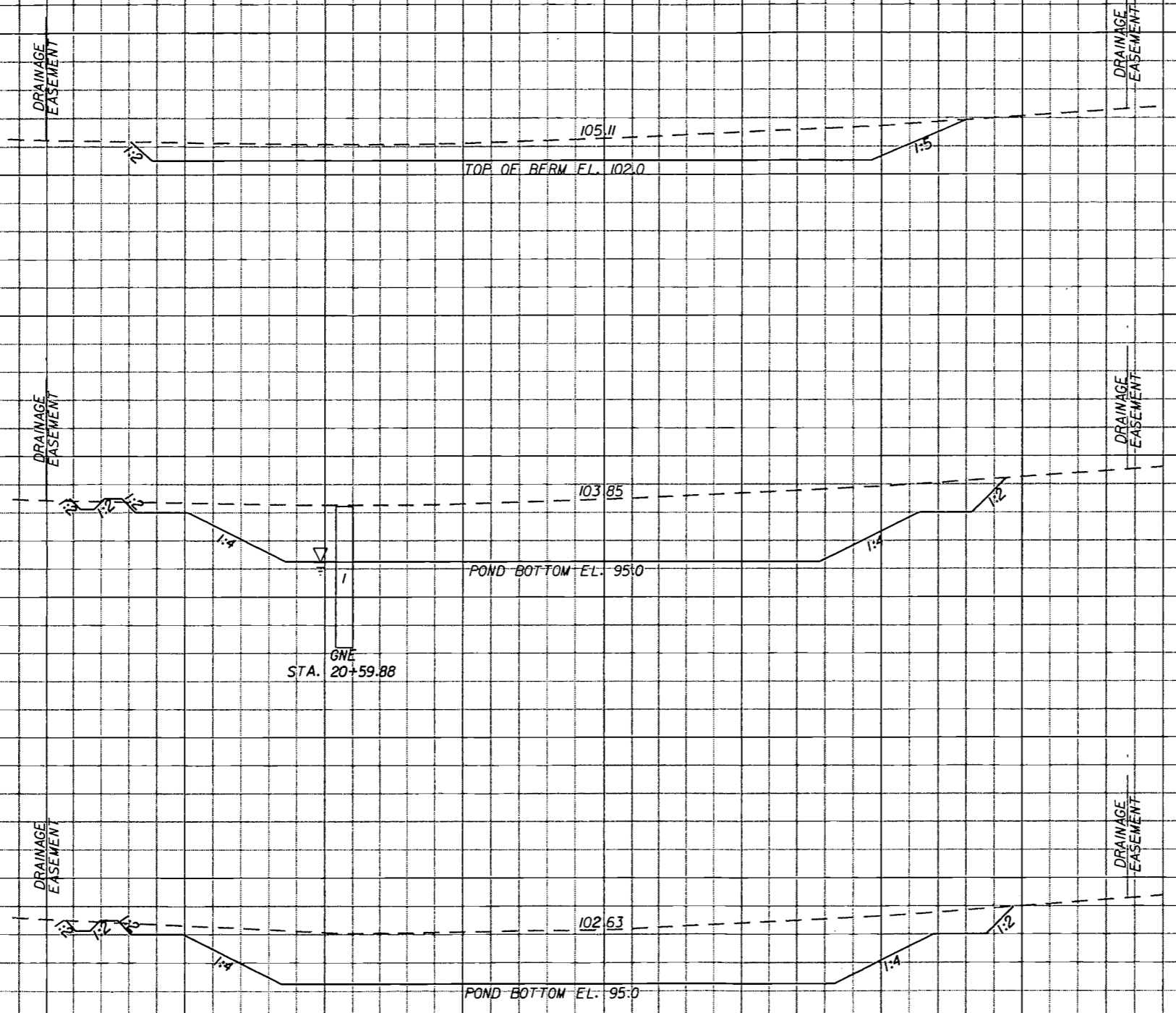
Regular Exc. Embankment

A V A V

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION	12,409	
EMBANKMENT	747	

END EARTHWORK
STA 21+23.13

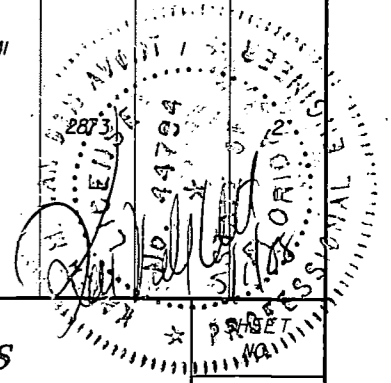
120
110
100
90
120
110
100
90
120
110
100
90



21+00.00
20+50.00
20+00.00

0	0	0	0
302		0	
706		0	
2325		3	
1805		3	
3191		4	
1641			

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



94

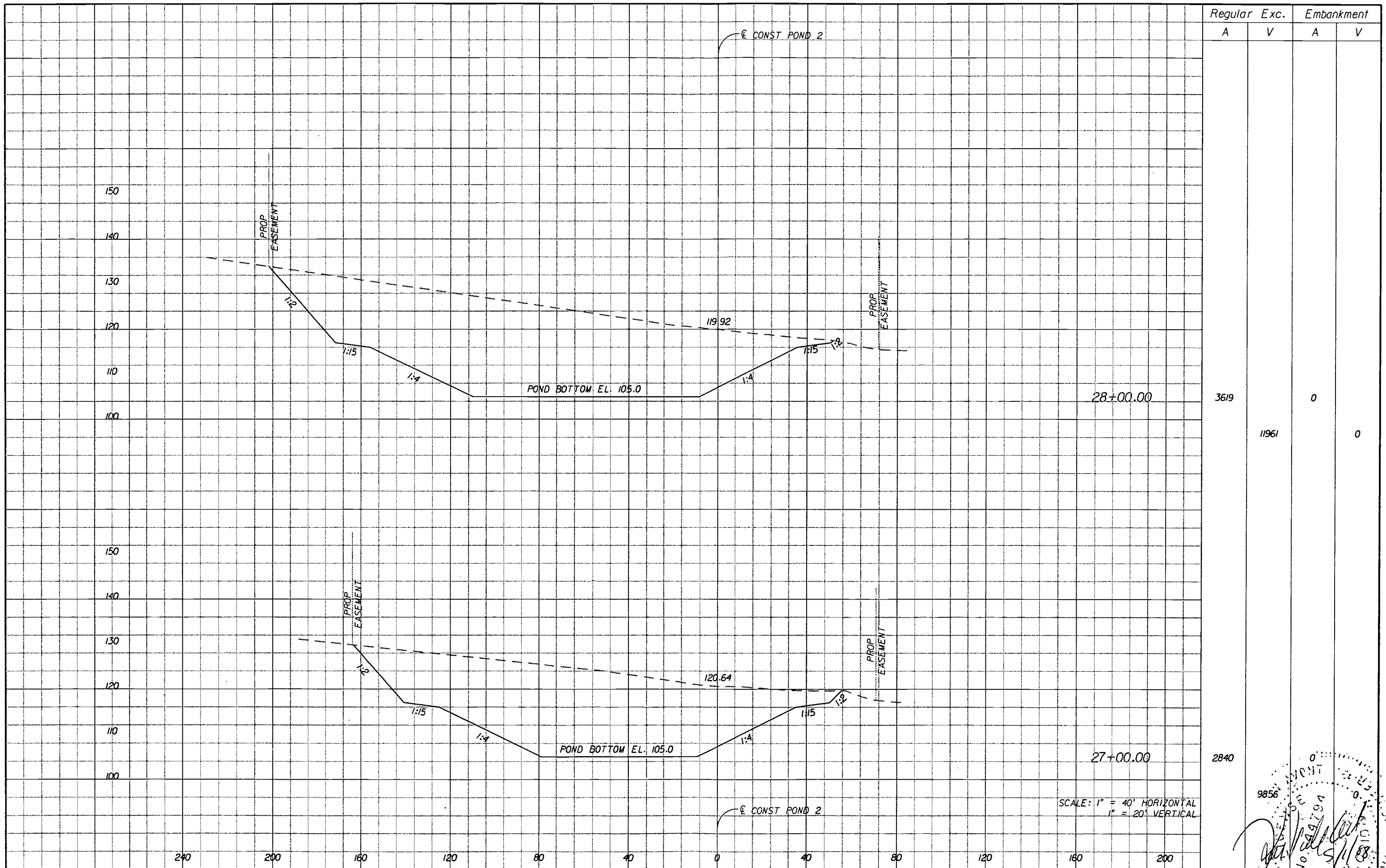
REVISIONS	
DATE	DESCRIPTION

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



**HARTWOOD MARSH
ROAD - PHASE I**

**CROSS SECTIONS
POND 1**



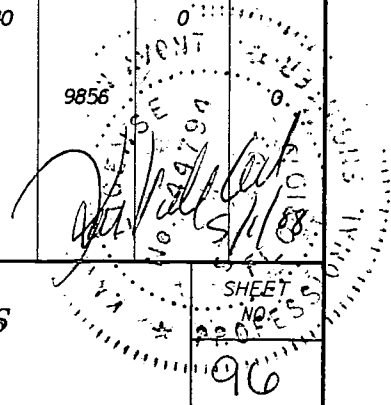
Regular Exc. Embankment

A V A V

3619	0	0	0
	11961		

2840

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



REVISIONS	
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 (407) 805-0355
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 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794



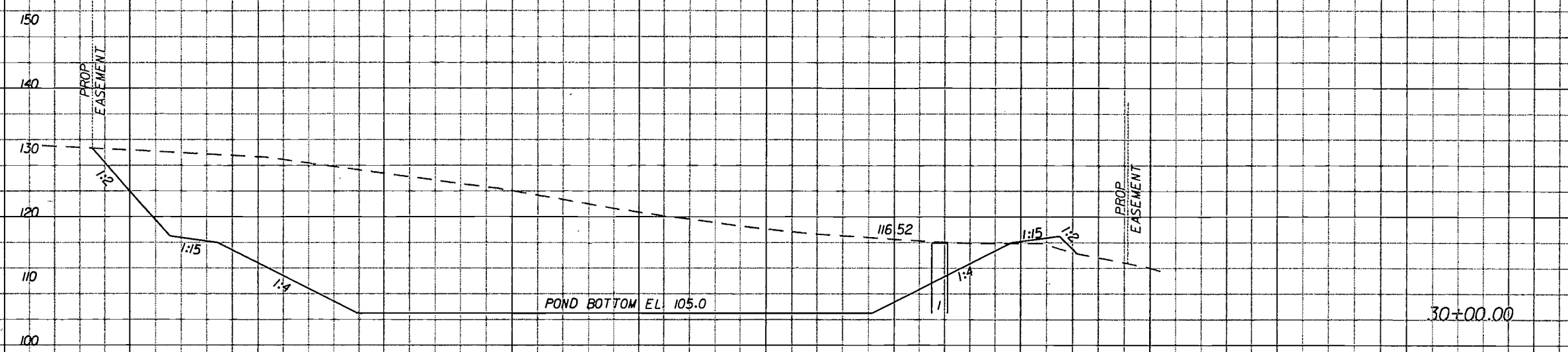
**HARTWOOD MARSH
 ROAD - PHASE I**

**CROSS SECTIONS
 POND 2**

SHEET
 NO. 25
 96

Regular Exc. Embankment

A V A V

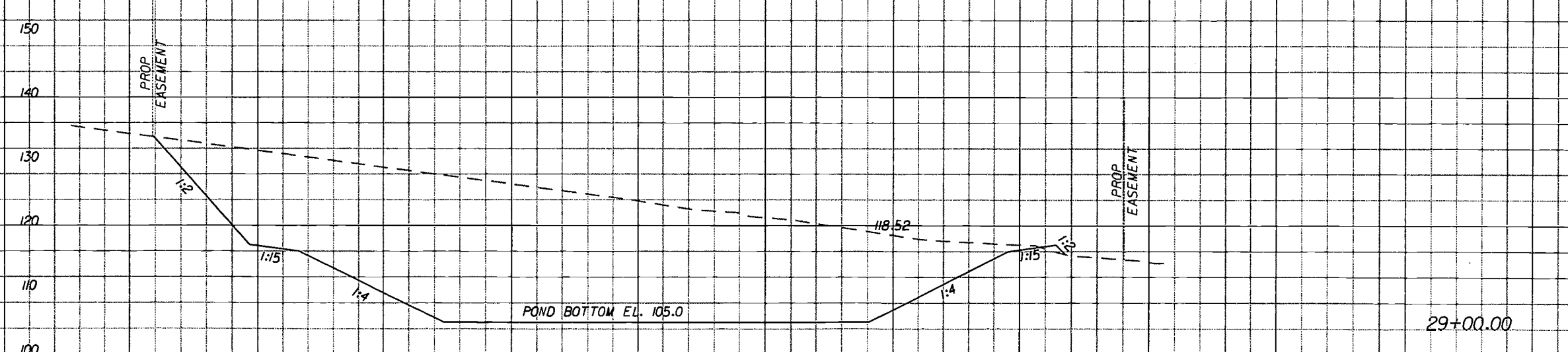


4098

17

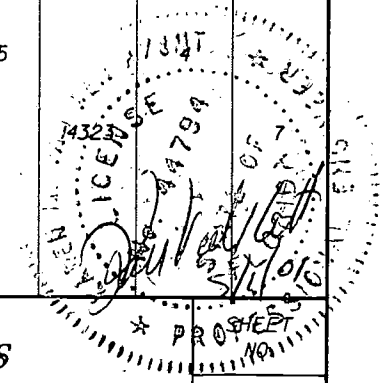
15209

39



415

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



REVISIONS	
DATE	DESCRIPTION

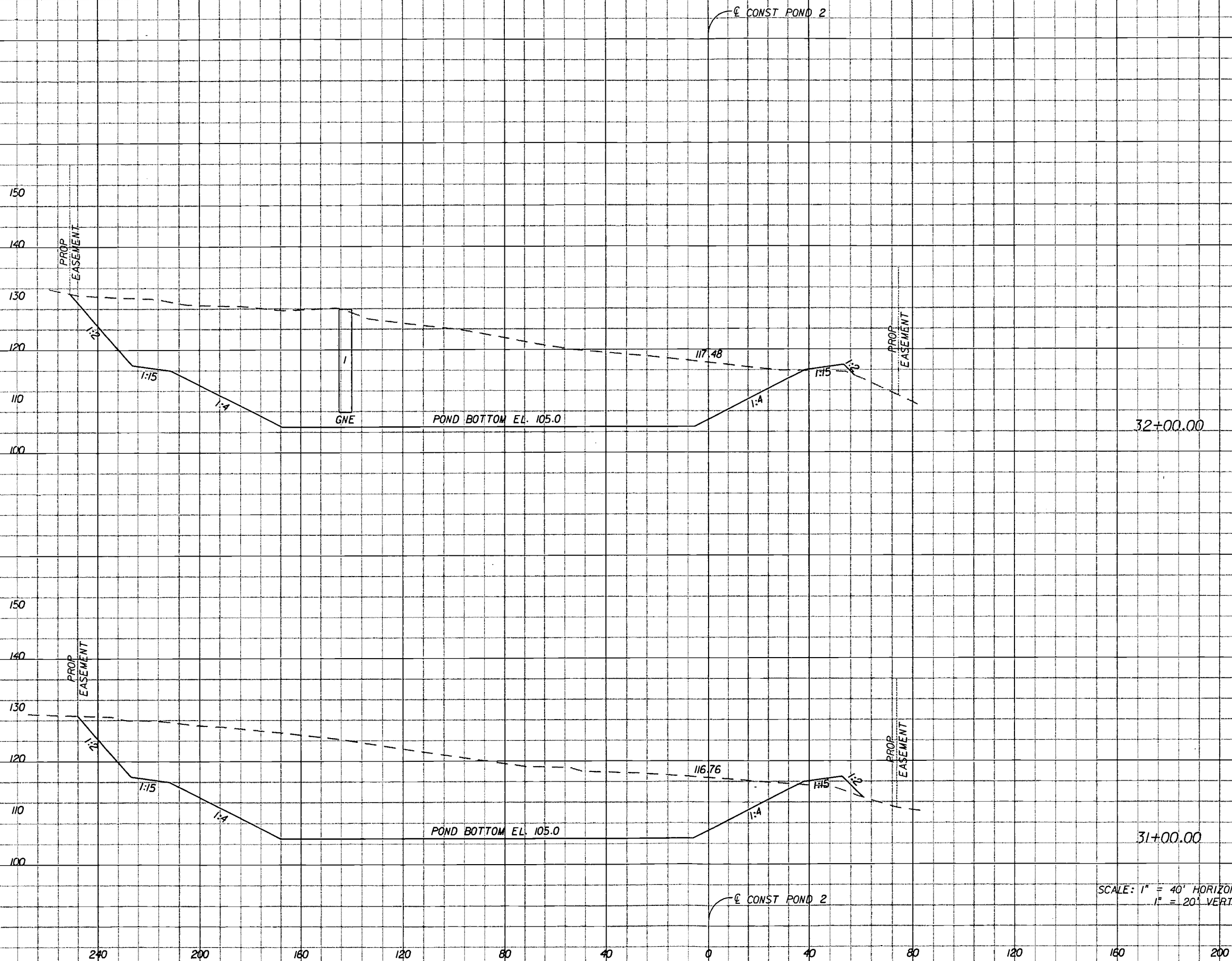
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 LAKE MARY, FL 32746
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 FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
 ROAD - PHASE I**

**CROSS SECTIONS
 POND 2**

97



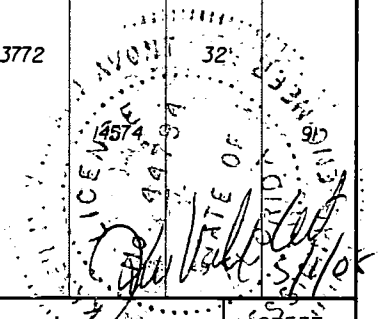
Regular Exc. Embankment

A V A V

4319 14982 14 85

3772 32'

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



REVISIONS	
DATE	DESCRIPTION

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 SUITE 200
 LAKE MARY, FL 32746
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**HARTWOOD MARSH
 ROAD - PHASE I**

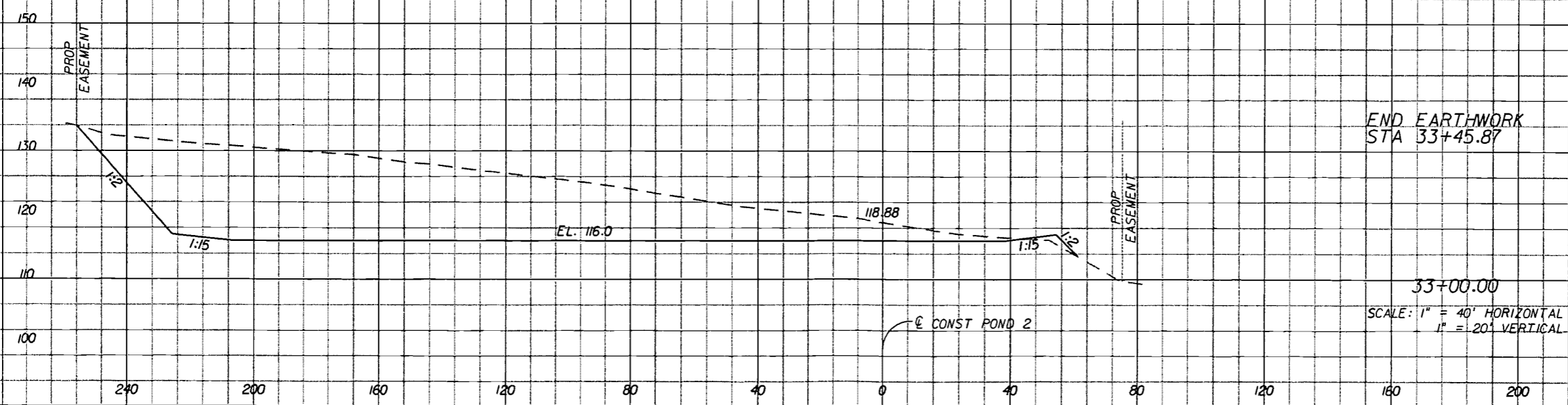
**CROSS SECTIONS
 POND 2**

SHEET NO. 98

Regular Exc. Embankment
A V A V

☉ CONST POND 2

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION	110,539	
EMBANKMENT	266	



0 0
2096 0
2467
SCALE: 1" = 40' HORIZONTAL
1" = 20' VERTICAL
33+00.00
Professional Engineer Seal: KAREN M. VAN DEN AVONT, P.E., No. 13566, State of Florida, License No. 17940

REVISIONS	
DATE	DESCRIPTION

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



**HARTWOOD MARSH
ROAD - PHASE I**

**CROSS SECTIONS
POND 2**
99

1. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY

THE CONSTRUCTION ACTIVITIES INCLUDE REMOVING THE EXISTING PAVEMENT IN PHASES AND CONSTRUCTING THE PROPOSED URBAN FACILITY. CONSTRUCTION ACTIVITIES INCLUDE CLEARING AND GRUBBING, PAVEMENT REMOVAL, REMOVAL OF THE EXISTING DRAINAGE SYSTEMS AND CONSTRUCTION OF NEW DRAINAGE SYSTEMS WITH TWO DRY DETENTION PONDS.

PROJECT LIMITS

STA. 103+29.11 TO STA. 162+21.77 CENTERLINE OF CONSTRUCTION, IN SECTIONS 9 & 10; TOWNSHIP 25 SOUTH; RANGE 26 EAST.

PROJECT DESCRIPTION

THE CONSTRUCTION ACTIVITIES WILL TAKE PLACE OVER 1.119 MILE LENGTH OF HARTWOOD MARSH ROAD IN LAKE COUNTY. THE EXISTING ROADWAY BETWEEN US 27 AND 1500 FT EAST OF S. HANCOCK ROAD WILL BE RECONSTRUCTED AS A FOUR LANE URBAN ROADWAY. STORM WATER WILL BE CONVEYED IN NEW STORM SEWER TO DETENTION PONDS.

B. MAJOR SOIL DISTURBING ACTIVITIES

SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING AND GRUBBING TO PREPARE FOR RECONSTRUCTION OF HARTWOOD MARSH ROAD AND CONSTRUCTION OF A NEW ROADWAY, CONSTRUCTION OF STORM SEWER, AND CONSTRUCTION OF 2 STORM WATER PONDS. THE PROJECT WILL BE CONSTRUCTED IN PHASED CONSTRUCTION TO LIMIT THE EXPOSED SOIL ON THE PROJECT.

C. TOTAL PROJECT AREA: 27.90 ACRES

TOTAL AREA TO BE DISTURBED: 27.90 ACRES

D. (1) RUNOFF COEFFICIENTS BEFORE, DURING AND AFTER CONSTRUCTION:

RUNOFF COEFFICIENT FOR: GRASSED AREA ADJACENT TO PAVEMENT, C = 0.20
IMPERVIOUS SURFACE, C = 0.95
DISTURBED AREAS DURING CONSTRUCTION, C = 0.42

BEFORE CONSTRUCTION C = 0.23
DURING CONSTRUCTION (VARIES) C = 0.23-0.74
AFTER CONSTRUCTION C = 0.74

(2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

SOILS WITHIN THE PROJECT AREA ARE DESCRIBED IN GENERAL AS PREDOMINANTLY IN SITU SOILS INCLUDING ASTATULA SAND, DARK SURFACE. DETAILED DATA IS SUPPLIED IN THE ROADWAY SOIL SURVEY REPORT PERFORMED BY ARDAMAN & ASSOCIATES, INC.

(3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL:

THE PROPOSED BASIN 1 SYSTEM OUTFALLS TO POND 1 WHICH OUTFALLS TO AN UNNAMED LAKE VIA PROPOSED PIPES. THE PROPOSED BASIN 2 SYSTEM OUTFALLS TO THE REGENCY HILLS STORM WATER MANAGEMENT SYSTEM.

UNNAMED LAKE (BASIN 1, NO OUTFALL) 56.71 AC
POND 2 (BASIN 2, TOTAL RETENTION) 45.62 AC

E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS SEE DRAINAGE REPORT AND CONSTRUCTION PLANS.

	LATITUDE	LONGITUDE
POND 1 DISCHARGES TO UNNAMED LAKE	28° 29' 51"	81° 42' 41"
POND 2 DISCHARGES TO REGENCY HILL SYSTEM	28° 29' 46"	81° 42' 12"

F. (1) NAME OF RECEIVING WATERS:

UNNAMED LAKE

(2) WETLAND AREA:
NOT APPLICABLE

2. CONTROLS

NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS. CONSTRUCTION ACTIVITIES ON THIS PROJECT CONSIST OF FIVE (5) DISTINCT ELEMENTS.

ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE DETAILED IN THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND WILL BE IMPLEMENTED BY THE ENGINEER IN A MANNER APPROPRIATE TO ENVIRONMENTALLY SENSITIVE CONSTRUCTION PRACTICES.

2.1 THE CONTRACTOR WILL BE REQUIRED TO PREPARE A SITE-SPECIFIC EROSION CONTROL PLAN. THE CONTRACTOR WILL ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS. THE PLAN WILL INCLUDE:

THE CONSTRUCTION PROJECT SCHEDULE WITH EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE TIED TO SPECIFIC DATES OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR'S EROSION CONTROL PLAN WILL BE UTILIZED AS THE FIRST FORMAL UPDATE TO THE SWPPP. NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24-HOUR BASIS.

THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL, RECEIVING WATER, OR OTHERWISE VIOLATING STATE AND FEDERAL PERMIT REQUIREMENTS.

2.2 CLEARING AND GRUBBING OPERATIONS ARE TO BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WILL NOT BE DISTURBED. MILLING AND RESURFACING ACTIVITIES WILL BE CONDUCTED IN A LINE FASHION ON THE EXISTING PAVEMENT. NO CONSEQUENTIAL QUANTITIES OF EXPOSED SOIL WILL RESULT FROM THIS ACTIVITY.

2.3 THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING MILLING OPERATIONS. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCLOSED WITH SEDIMENT CONTAINMENT DEVICES. ROADWAY SWEEPERS WILL ALSO BE USED IN CONJUNCTION WITH MILLING OPERATIONS. ALL TRUCKS WILL REQUIRE A COVERED BED.

2.4 WIDENING OF THE ROADWAY WILL REQUIRE GRADING. ROAD WIDENING WITH STORM SEWER AND DETENTION POND CONSTRUCTION WILL REQUIRE UTILITY RELOCATIONS.

2.5 THE EROSION CONTROL DEVICES FOR THESE ACTIVITIES ARE SPECIFIED IN THE PLANS AND ACCORDING TO THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 104. SPECIFICALLY, SYNTHETIC HAY BALES WILL BE USED AROUND DITCH BOTTOM INLETS AND BACK OF SIDEWALK INLETS WHEN CONSTRUCTION ACTIVITIES ARE TAKING PLACE IN THE AREA, AND WHERE RUNOFF MAY LEAVE THE CONSTRUCTION SITE, AS NEEDED. STAKED SILT FENCES WILL BE INSTALLED AROUND ALL EXISTING PIPE CULVERTS. FOR SUMMARY OF EROSION CONTROL MEASURES SEE SUMMARY OF QUANTITIES SHEET.

A. EROSION AND SEDIMENT CONTROLS

- (1) STABILIZATION PRACTICES
 - TEMPORARY SODDING
 - TEMPORARY GRASSING
 - PERMANENT PLANTING, SODDING, OR SEEDING
 - TEMPORARY MULCHING
 - ARTIFICIAL COVERING
 - BUFFER ZONES
 - PRESERVATION OF NATURAL RESOURCES

OTHER:

STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE, BUT IN NO CASE AFTER MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

(2) STRUCTURAL PRACTICES

- SAND BAGGING
- SILT FENCES
- SYNTHETIC HAY BALES
- ROCK BAGS
- BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
- PIPE SLOPE DRAINS
- FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER BEDDING AT CONSTRUCTION EXIT
- DITCH LINER
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STORM OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES
- TURBIDITY BARRIER
- RIP RAP
- DITCH BLOCKS

OTHER:

THE DEVICES INDICATED ABOVE WILL BE IMPLEMENTED ACCORDING TO THE MANDATES AND STANDARD PRACTICES. OTHER STRUCTURAL PRACTICES MAY BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY EROSION CONTROL, INCLUDING BUT NOT LIMITED TO SILT FENCES, SYNTHETIC HAY BALES, TURBIDITY BARRIERS AND ANY OTHER; MISCELLANEOUS ITEMS AS INDICATED WITHIN THE CONTRACT DOCUMENTS, CONTRACTOR'S EROSION CONTROL PLAN, OR AS REQUIRED PER APPLICABLE STANDARDS OR THE ENGINEER.

B. DESCRIPTION OF STORM WATER MANAGEMENT
STORM WATER COLLECTION AND TREATMENT WILL BE PROVIDED FOR ON THE PROJECT UTILIZING THE INLETS AND STORM SEWER AND DRY DETENTION PONDS

C. OTHER CONTROLS

(1) WASTE DISPOSAL
THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ALL FERTILIZER, HYDROCARBON OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. DETAILED ELEMENTS OF WASTE DISPOSAL CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S SWPPP.

(2) OFFSITE VEHICLE TRACKING

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE

OTHER:

DETAILED ELEMENTS OF OFFSITE VEHICLE TRACKING CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN (ECP).

(3) SANITARY WASTE

FIELD OFFICES MAY HAVE CONNECTIONS TO MUNICIPAL SEWAGE TREATMENT IF AVAILABLE. IF MUNICIPAL SEWAGE TREATMENT IS NOT AVAILABLE THE CONTRACTOR WILL PROVIDE FOR SEWAGE TREATMENT IN ACCORDANCE WITH F.A.C. 64E-6 "STANDARDS FOR ON-SITE SEWAGE DISPOSAL SYSTEMS." DETAILED ELEMENTS OF SANITARY WASTE CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S ECP.

(4) FERTILIZERS AND PESTICIDES

FERTILIZERS: FERTILIZERS WILL BE USED ON THIS PROJECT IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007) SECTION 982, AT THE DISCRETION OF THE CONTRACTOR WITH COORDINATION OF THE ENGINEER. DETAILED ELEMENTS OF FERTILIZER AND PESTICIDE CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S ECP.

PESTICIDES: NONE REQUIRED

(5) NON-STORM WATER DISCHARGE, INCLUDING SPILL REPORTING

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN. WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE PROJECT ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION.

D. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS:

ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT REQUIRES A STANDARD GENERAL ENVIRONMENTAL RESOURCE PERMIT.

3. MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL DEVICES AND PRACTICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT. REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY. MAINTENANCE SHALL BE CONDUCTED IN ACCORDANCE WITH THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007), SECTION 104 AND "FDOT DESIGN STANDARDS" INDICES 100-105.

4. INSPECTION

THE CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5 INCHES OR GREATER. IN ADDITION, MAINTAIN ALL EROSION CONTROL FEATURES AS REQUIRED HEREIN AND AS SPECIFIED IN STATE AND/OR FEDERAL ENVIRONMENTAL REGULATORY PERMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE DAILY REVIEW OF THE LOCATION OF SILT FENCES IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CHANGED. THE NATURAL CONTOUR AND DRAINAGE RUNOFF TO ENSURE THAT SILT FENCES ARE PROPERLY LOCATED FOR EFFECTIVENESS. THE CONTRACTOR WILL USE FDOT FORM 650-040-03 TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH INSPECTION REPORT AND SUBMIT IT WEEKLY TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH.

REVISIONS		
DATE	BY	DESCRIPTION

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SUITE 200
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(407) 805-0355
CERT. OF AUTH. NO. 6500

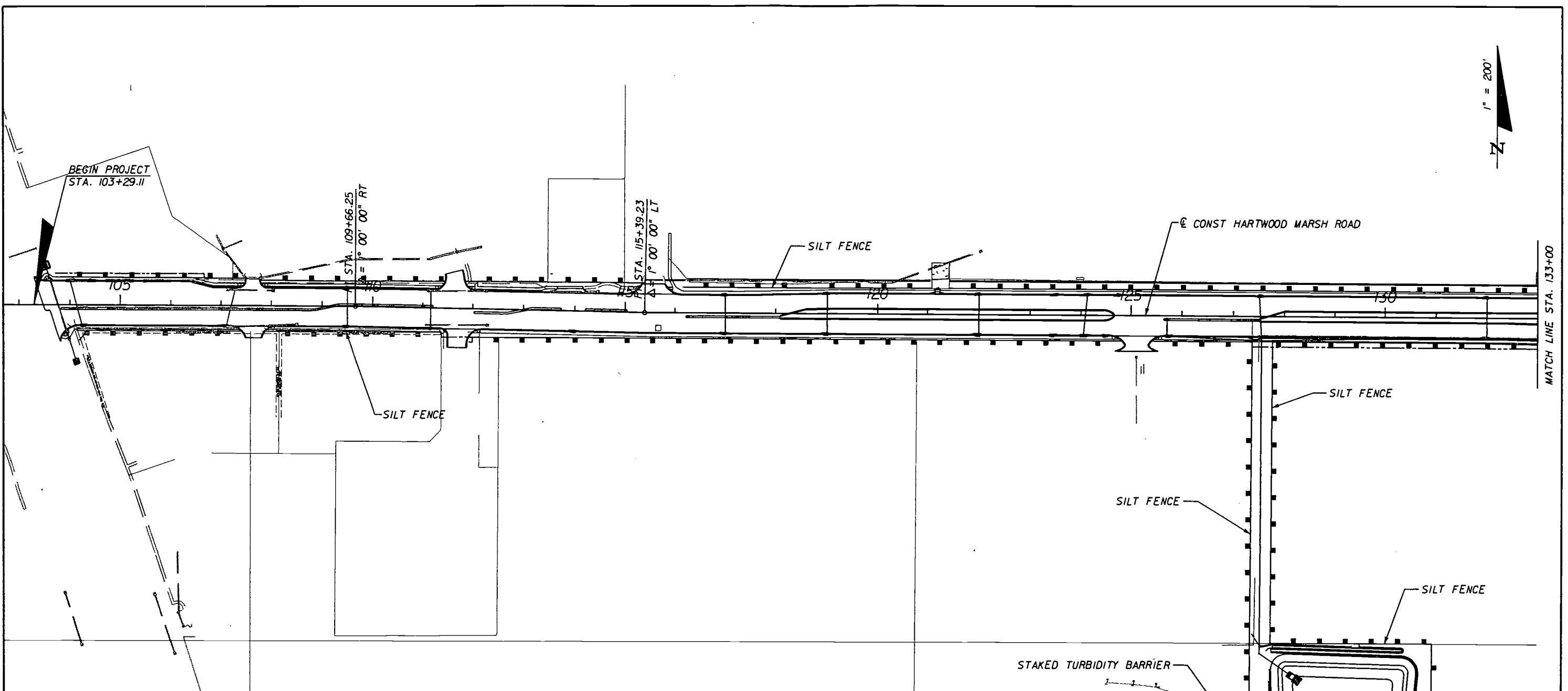
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794





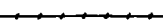
LAKE COUNTY
FLORIDA

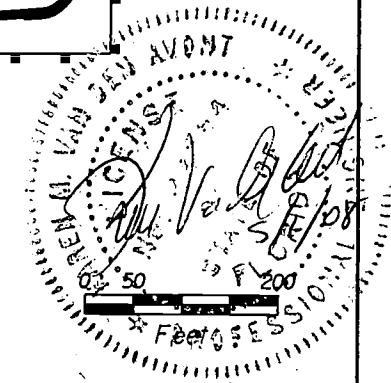
HARTWOOD MARSH
ROAD - PHASE I

STORMWATER POLLUTION
PREVENTION PLAN

SHEET 100



LEGEND	
DEVICE	PLACEMENT DETAILS
ROCK BAGS (GUTTER INLETS) 	SEE INDEX 102
SYNTHETIC BALES (DBI, MES) 	SEE INDEX 102
ROCK BAGS & SYNTHETIC BALES (GUTTER INLETS) 	SEE INDEX 102
SILT FENCE (TYPE III) (SILT RUNOFF PREVENTION) 	SEE INDEX 102
STAKED TURBIDITY BARRIER (SILT RUNOFF PREVENTION) 	SEE INDEX 102



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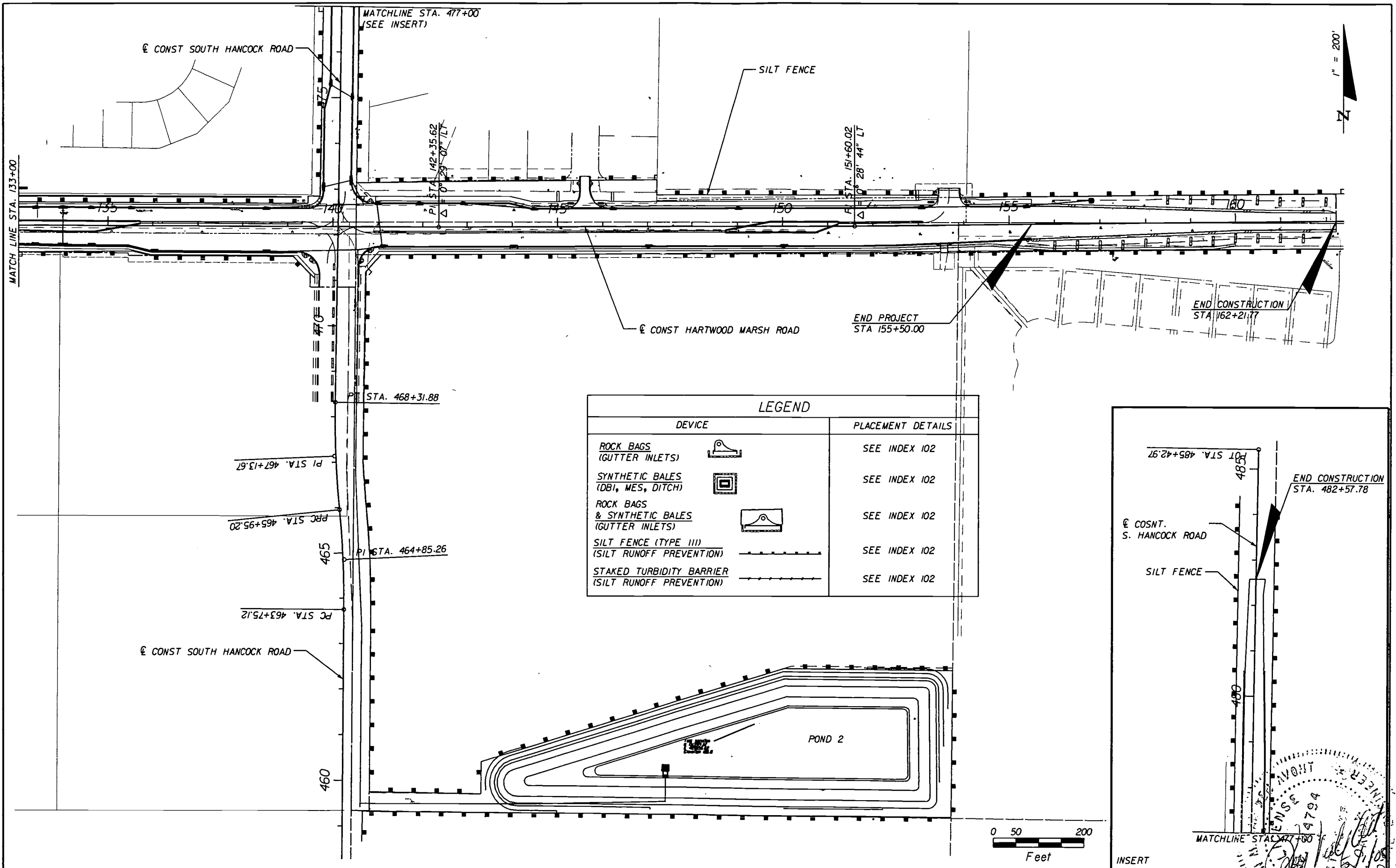
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 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
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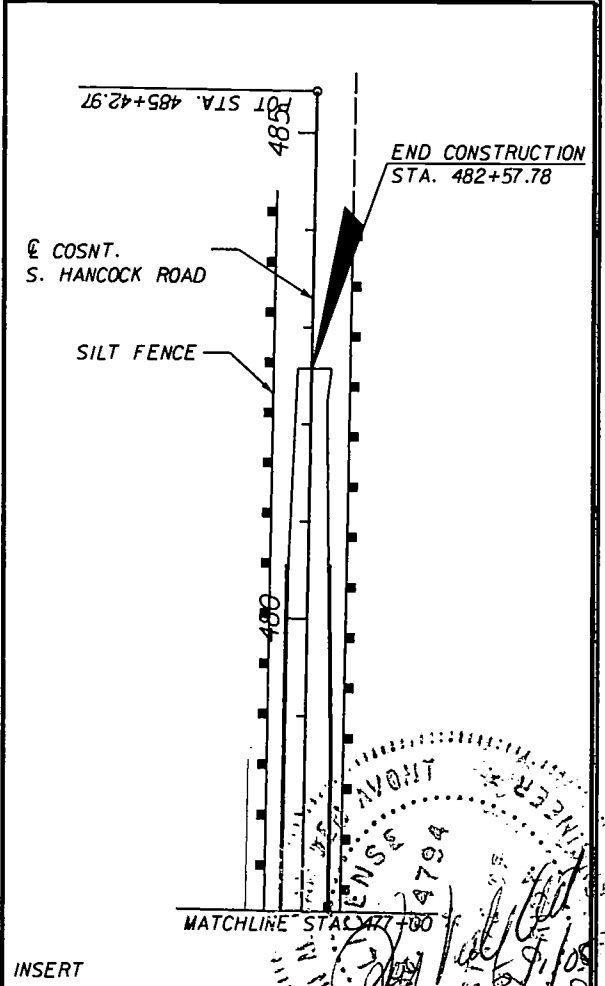
HARTWOOD MARSH ROAD - PHASE I

EROSION CONTROL

SHEET NO.
100A



LEGEND		PLACEMENT DETAILS
DEVICE		
ROCK BAGS (GUTTER INLETS)		SEE INDEX 102
SYNTHETIC BALES (DBI, MES, DITCH)		SEE INDEX 102
ROCK BAGS & SYNTHETIC BALES (GUTTER INLETS)		SEE INDEX 102
SILT FENCE (TYPE III) (SILT RUNOFF PREVENTION)		SEE INDEX 102
STAKED TURBIDITY BARRIER (SILT RUNOFF PREVENTION)		SEE INDEX 102



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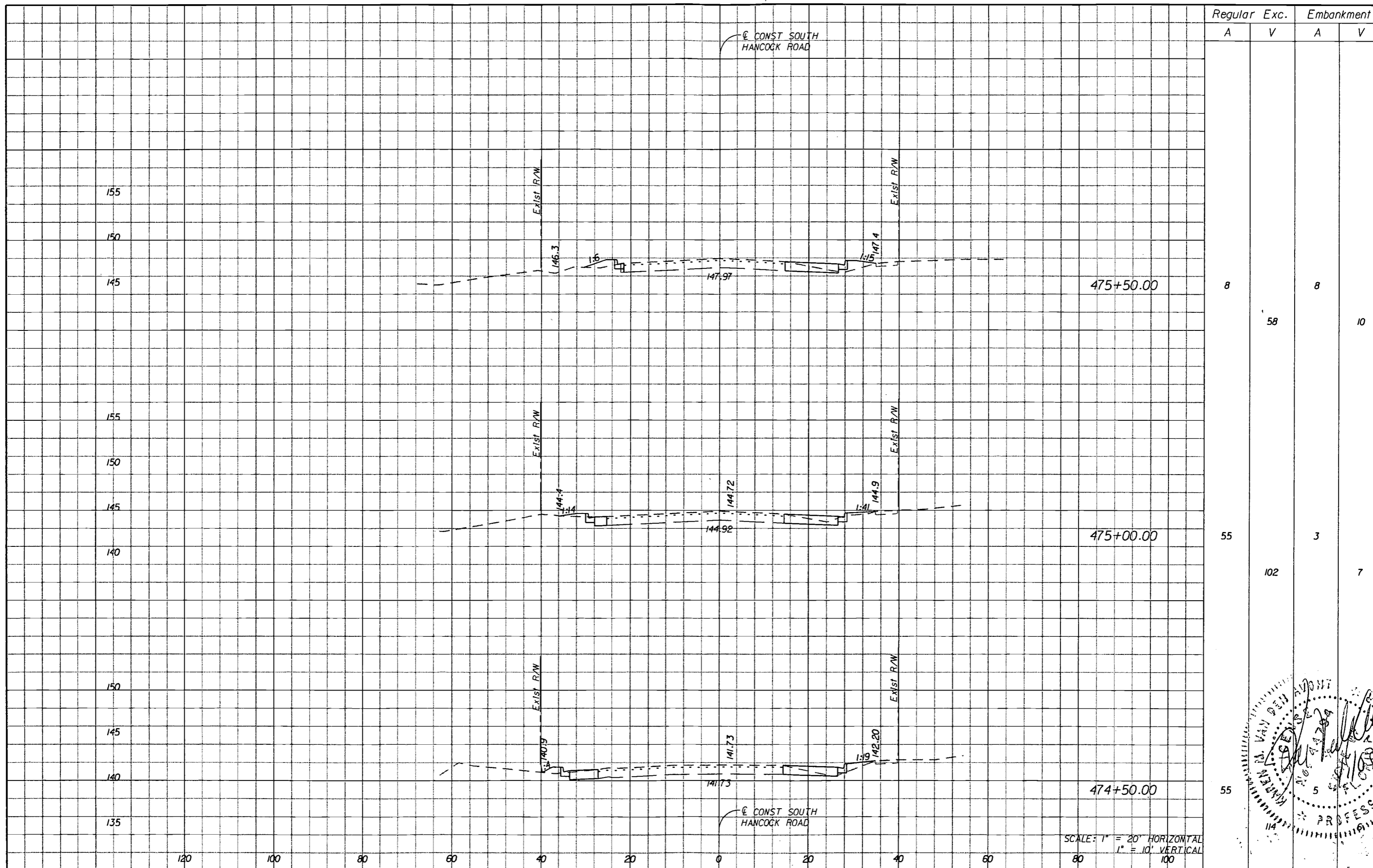
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
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LAKE COUNTY
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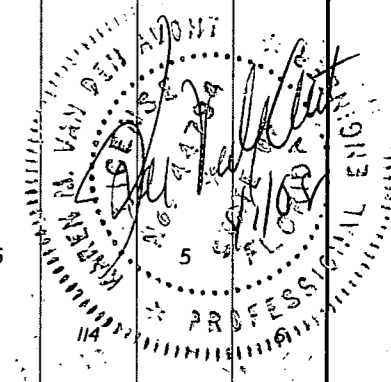
HARTWOOD MARSH ROAD - PHASE I

EROSION CONTROL

SHEET NO. 100B



Regular		Exc.		Embankment	
A	V	A	V	A	V
8	58	8	10		
55	102	3	7		
55	5				



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

REVISIONS	
DATE	DESCRIPTION

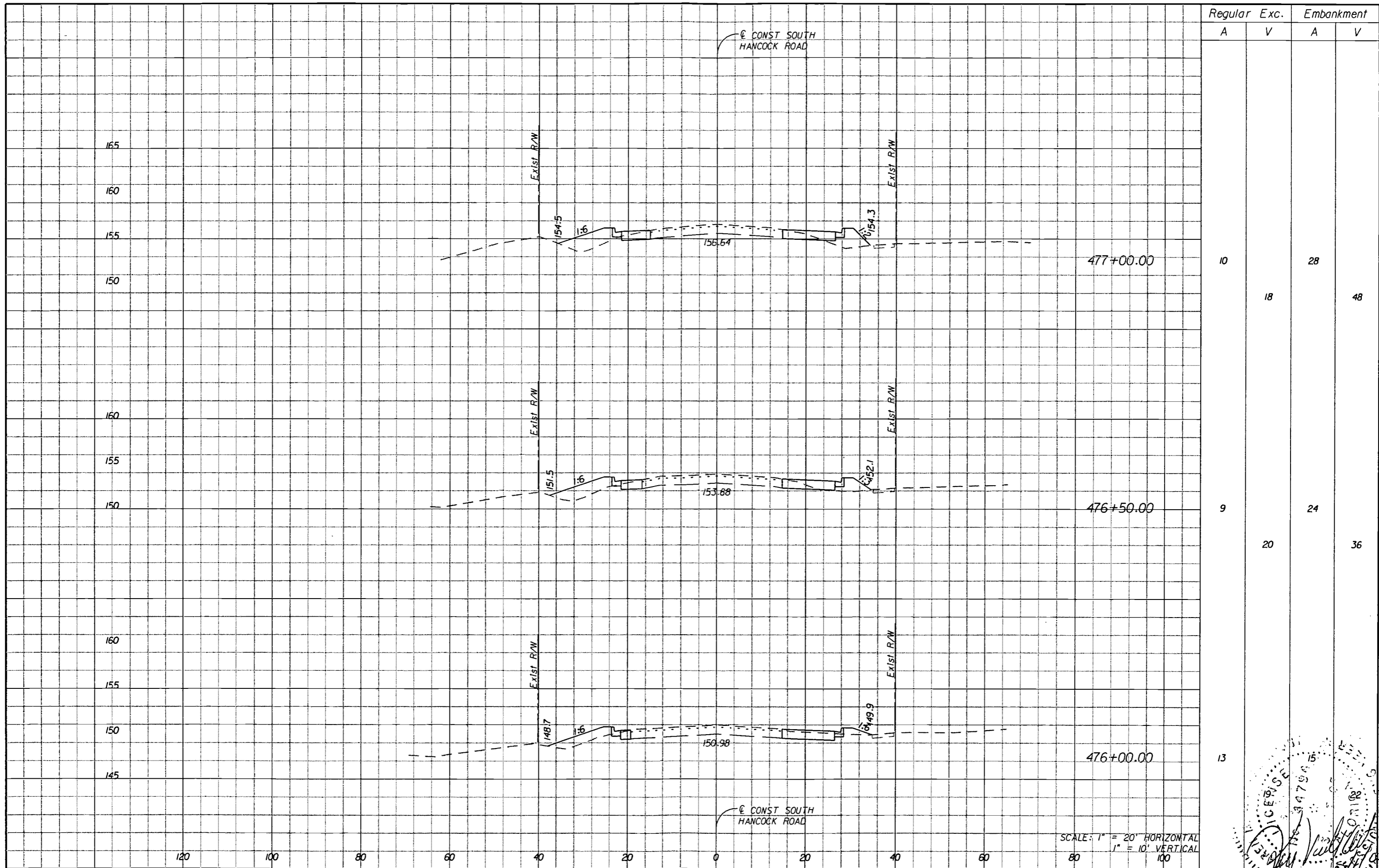
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 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
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**HARTWOOD MARSH
 ROAD - PHASE I**

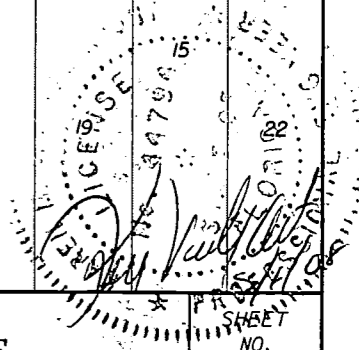
**CROSS SECTIONS
 SOUTH HANCOCK ROAD**

SHEET NO.
150



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
477+00.00	10				28	
		18				48
476+50.00	9				24	
		20				36
476+00.00	13					

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



REVISIONS	
DATE	DESCRIPTION

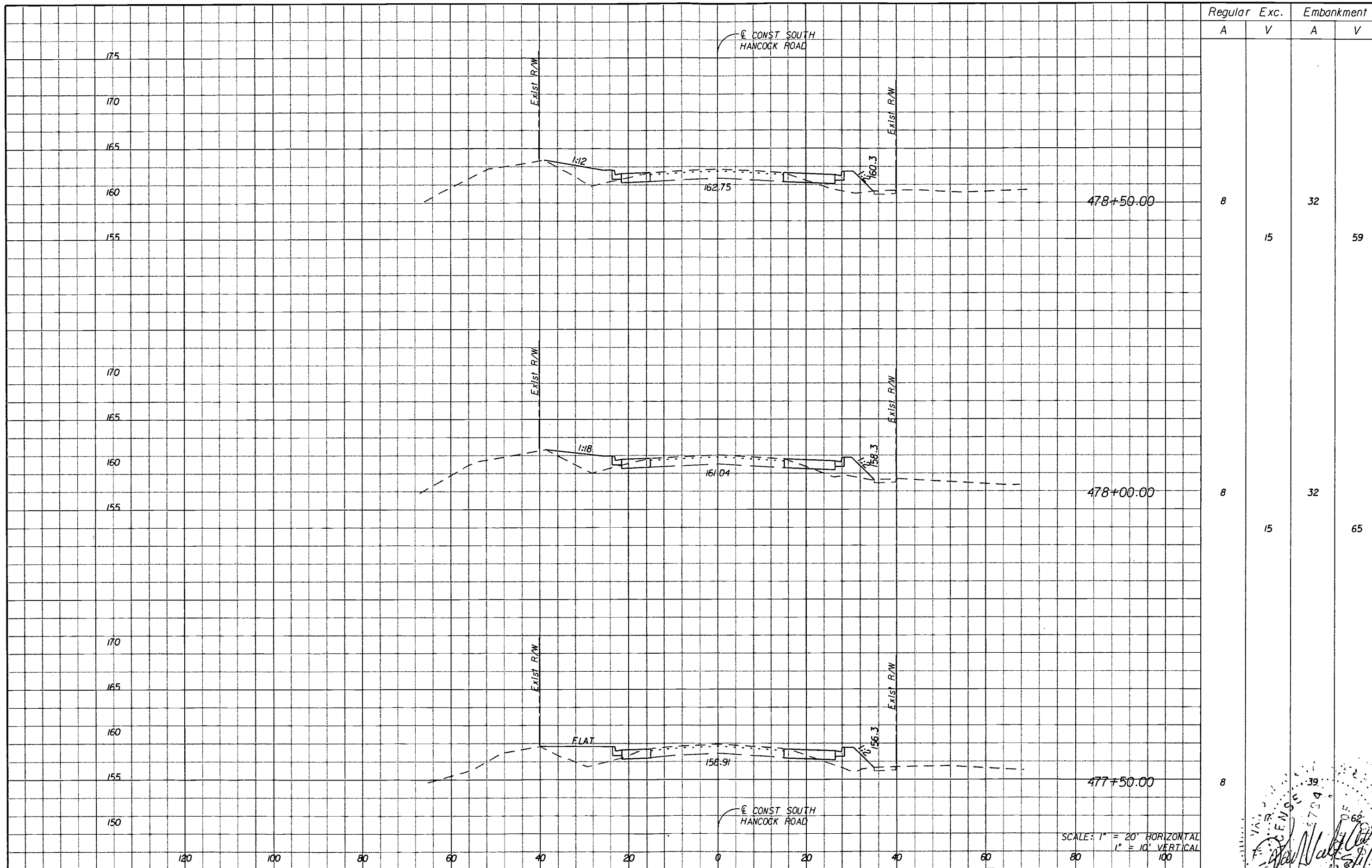
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ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794



**HARTWOOD MARSH
ROAD - PHASE I**

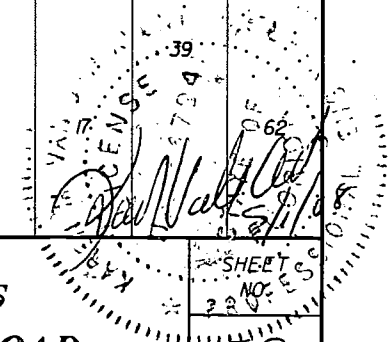
**CROSS SECTIONS
SOUTH HANCOCK ROAD**

SHEET NO.
151



Regular		Exc.		Embankment	
A	V	A	V	A	V
8				32	
	15				59
8				32	
	15				65
8				39	

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



REVISIONS	
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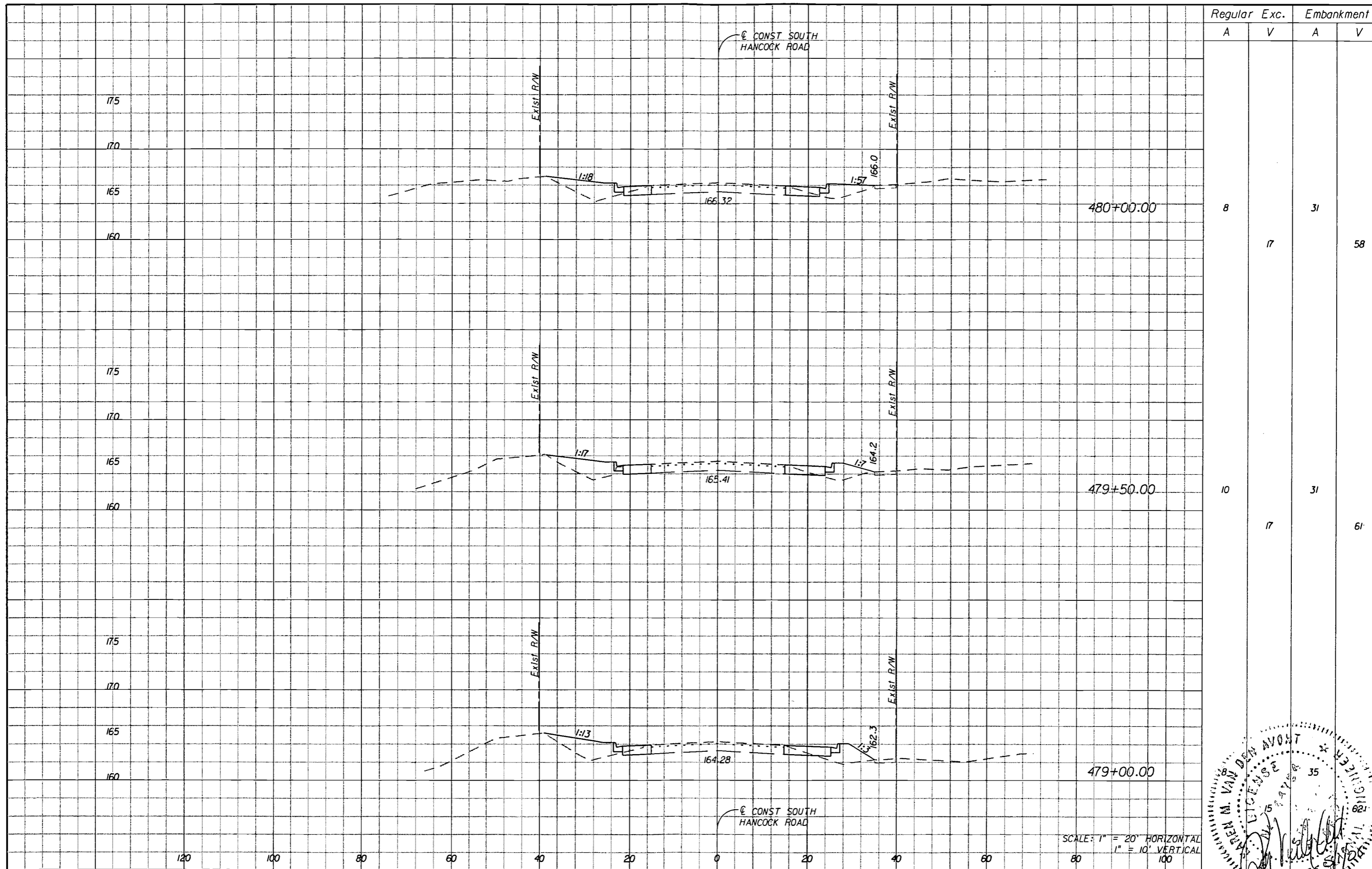
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**HARTWOOD MARSH
 ROAD - PHASE I**

**CROSS SECTIONS
 SOUTH HANCOCK ROAD**

SHEET NO. 152



Regular Exc. Embankment

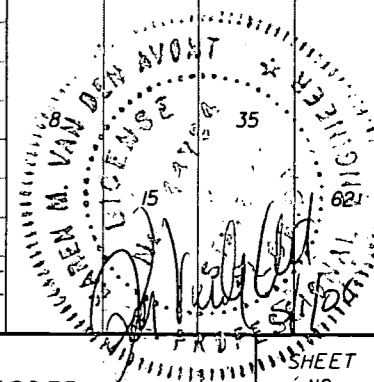
A V A V

8 31

17 58

10 31

17 61



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

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**HARTWOOD MARSH
ROAD - PHASE I**

**CROSS SECTIONS
SOUTH HANCOCK ROAD**

SHEET NO.
153

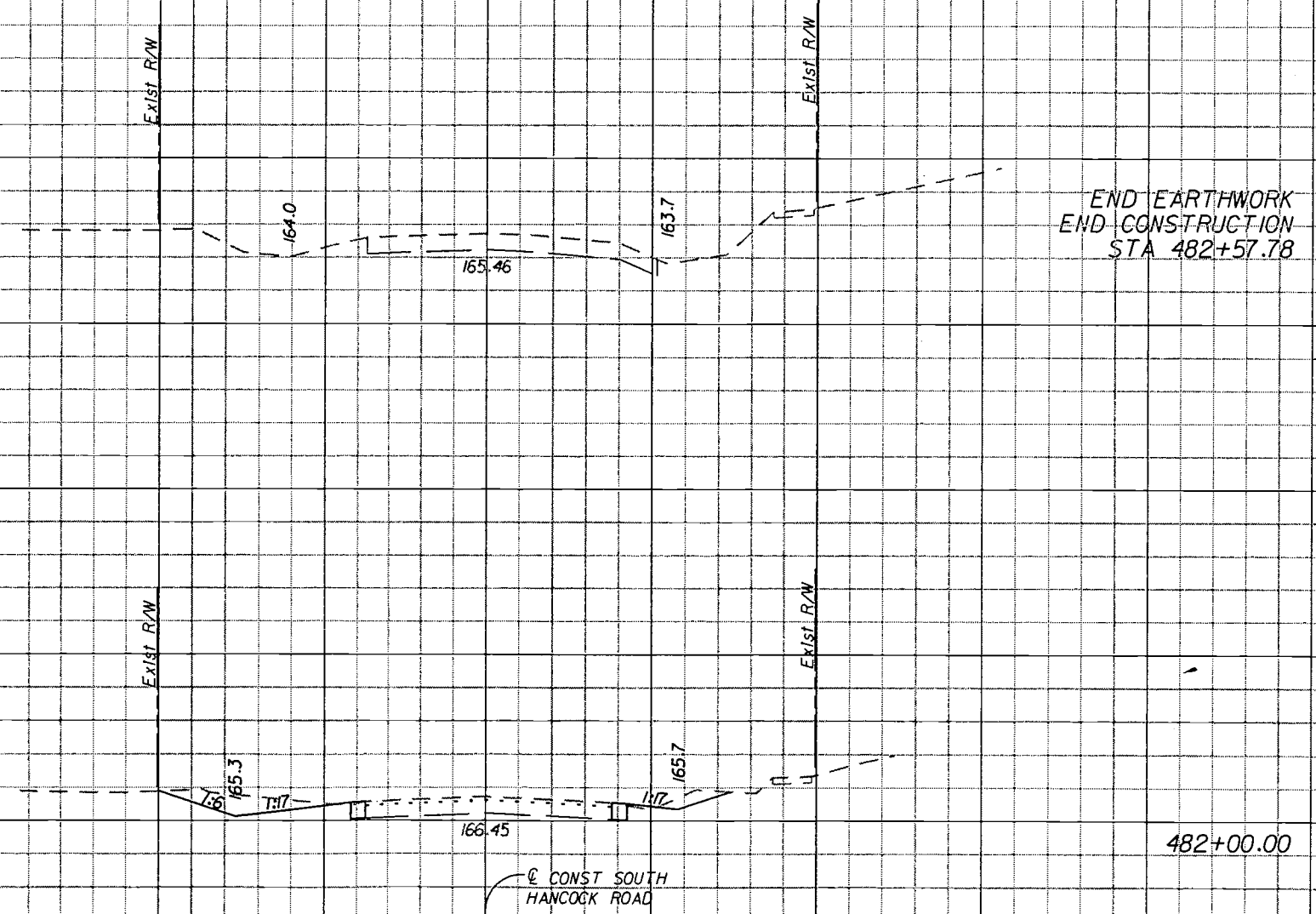
Regular Exc. Embankment

A V A V

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION	898	
EMBANKMENT	624	

175
170
165
160

180
175
170
165
160



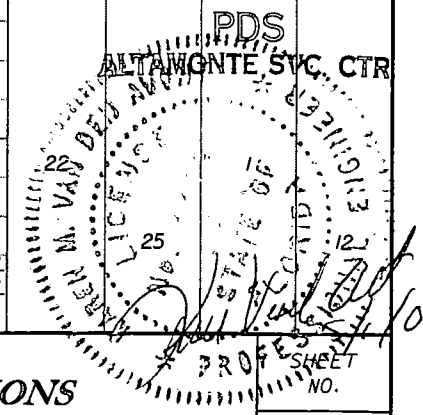
END EARTHWORK
END CONSTRUCTION
STA 482+57.78

482+00.00

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

114 354 - 1A

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**HARTWOOD MARSH
ROAD - PHASE I**

**CROSS SECTIONS
SOUTH HANCOCK ROAD**

155