

COMPONENTS OF CONTRACT PLANS SET


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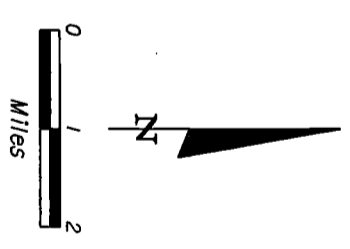
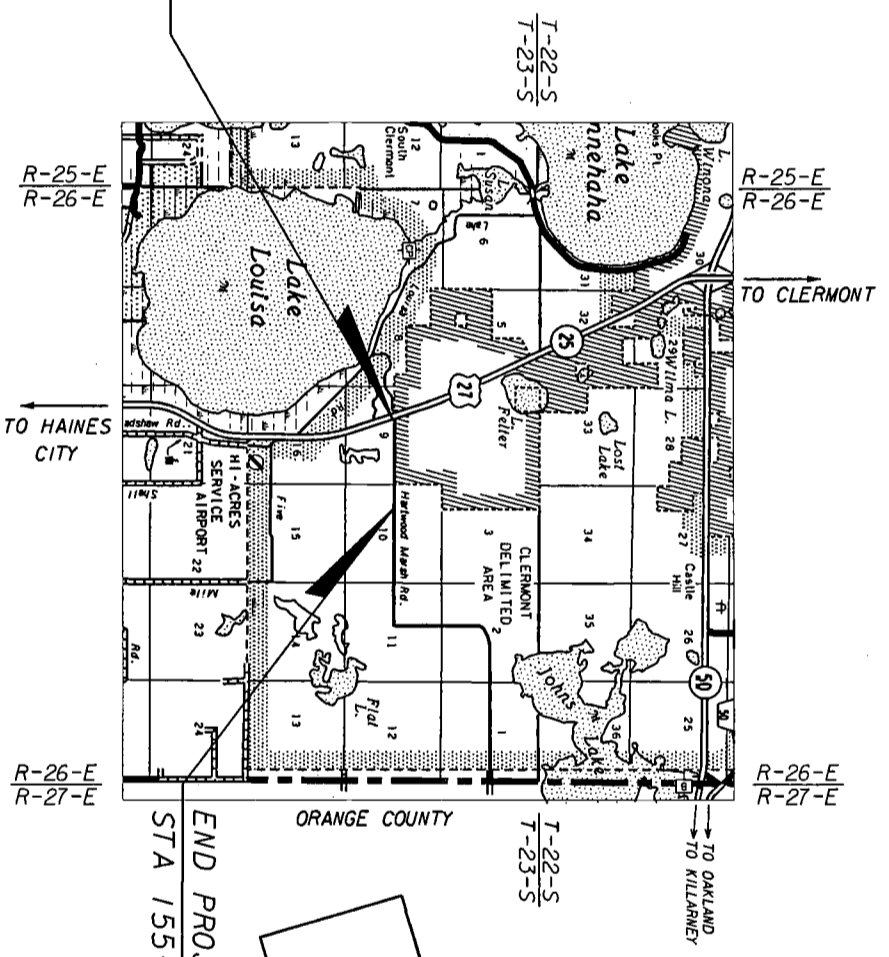
GOVERNING STANDARDS AND SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION,
 DESIGN STANDARDS DATED JANUARY 2008,
 AND STANDARD SPECIFICATIONS FOR ROAD AND
 BRIDGE CONSTRUCTION DATED 2007,
 AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-08

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


LAKE COUNTY
 FLORIDA
CONTRACT PLANS

HARTWOOD MARSH ROAD - PHASE I
 FROM SR 25 (US 27) TO HANCOCK ROAD



**PERMITTAL
 SUBMITTAL
 0510212008**

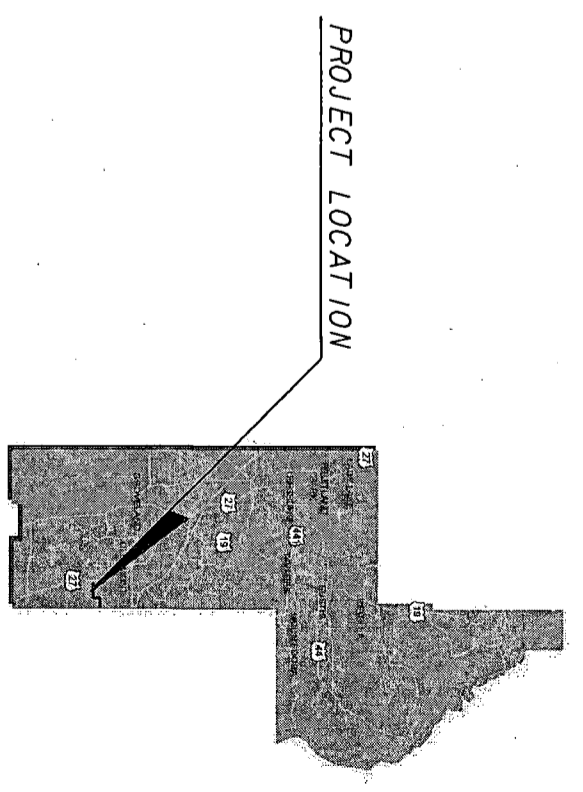
BEGIN PROJECT
 STA 103+29.11

END PROJECT
 STA 155+50.00

PROJECT LENGTH IS BASED ON \pm OF CONSTRUCTION

LENGTH OF PROJECT	
LINEAR FEET	MILES
ROADWAY	5220.89
BRIDGES	0.00
NET LENGTH OF PROJECT	5220.89
EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	5220.89

LAKE COUNTY PROJECT MANAGER: THOMAS MCCANN, PE



COUNTY MANAGER:
 CINDY HALL

COUNTY COMMISSIONERS:
 LINDA STEWART
 DEBBIE STVENDER
 JENNIFER HILL
 ELAINE RENICK
 WELTON CADWELL

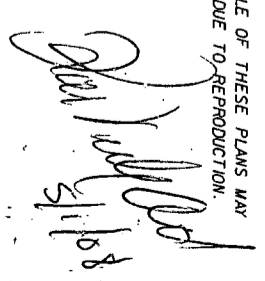
114354-1

ROADWAY SHOP DRAWINGS
 TO BE SUBMITTED TO:
 KAREN M. VAN DEN AVONT, PE
 HNTB CORPORATION
 300 PRIMERIA BOULEVARD, SUITE 200
 LAKE MARY, FLORIDA 32746

PLANS PREPARED BY: MAY 07 2008
HNTB PDS
 ALTAMONTE SVC. CTR

HNTB CORPORATION
 300 PRIMERIA 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.


 KAREN M. VAN DEN AVONT, PE

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

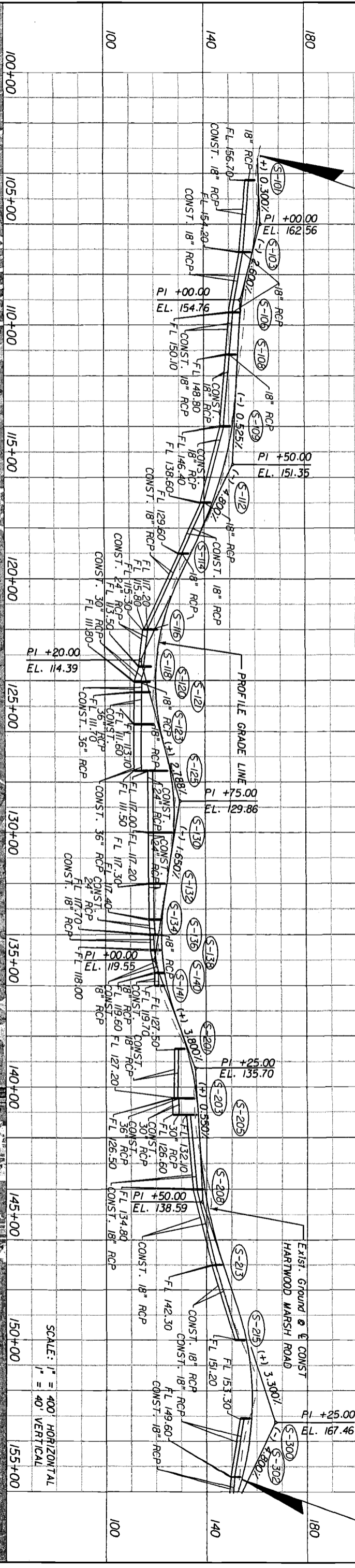
P.E. NO. 44794

KEY SHEET REVISIONS	
DATE	DESCRIPTION

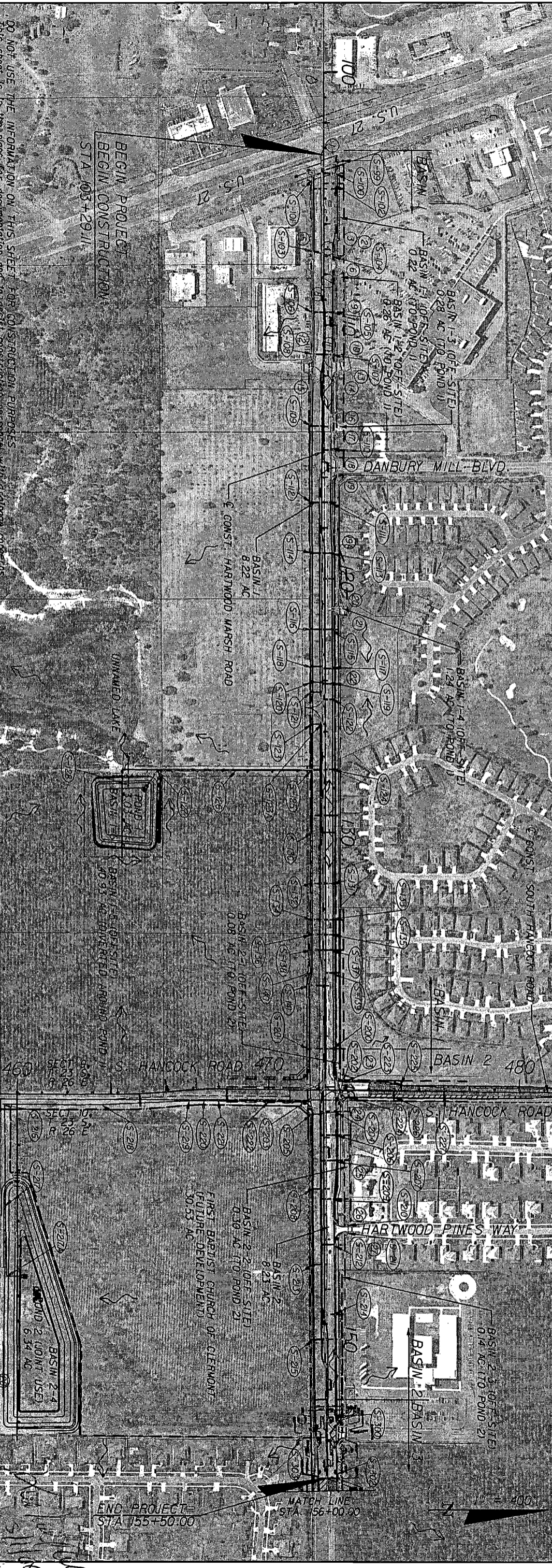
SHEET NO. 1

BEGIN PROJECT
BEGIN CONSTRUCTION
STA 103+29.11

END PROJECT
STA 155+50.00



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



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

REVISIONS

DATE	BY	DESCRIPTION

BEGIN PROJECT
BEGIN CONSTRUCTION
STA 103+29.11

END PROJECT
STA 155+50.00

MATCH LINE
STA 156+00.00

HNTB
HNTB CORPORATION
500 PHOENIX BLVD.
SUITE 200
LAKE WALKER, FL 32746
(407) 862-0355
CENT. OF ALTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AVONDT, P.E.
FL REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE I

DRAINAGE MAP

SHEET NO. 2

BASIN AREAS

- 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 1	BASIN 2	BASIN 3
S-100	0.124 AC.	S-200	0.411 AC.
S-101	0.051 AC.	S-201	0.383 AC.
S-102	0.044 AC.	S-204	0.257 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.		

[Handwritten Signature]

DATE	BR	REVISIONS	DESCRIPTION

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

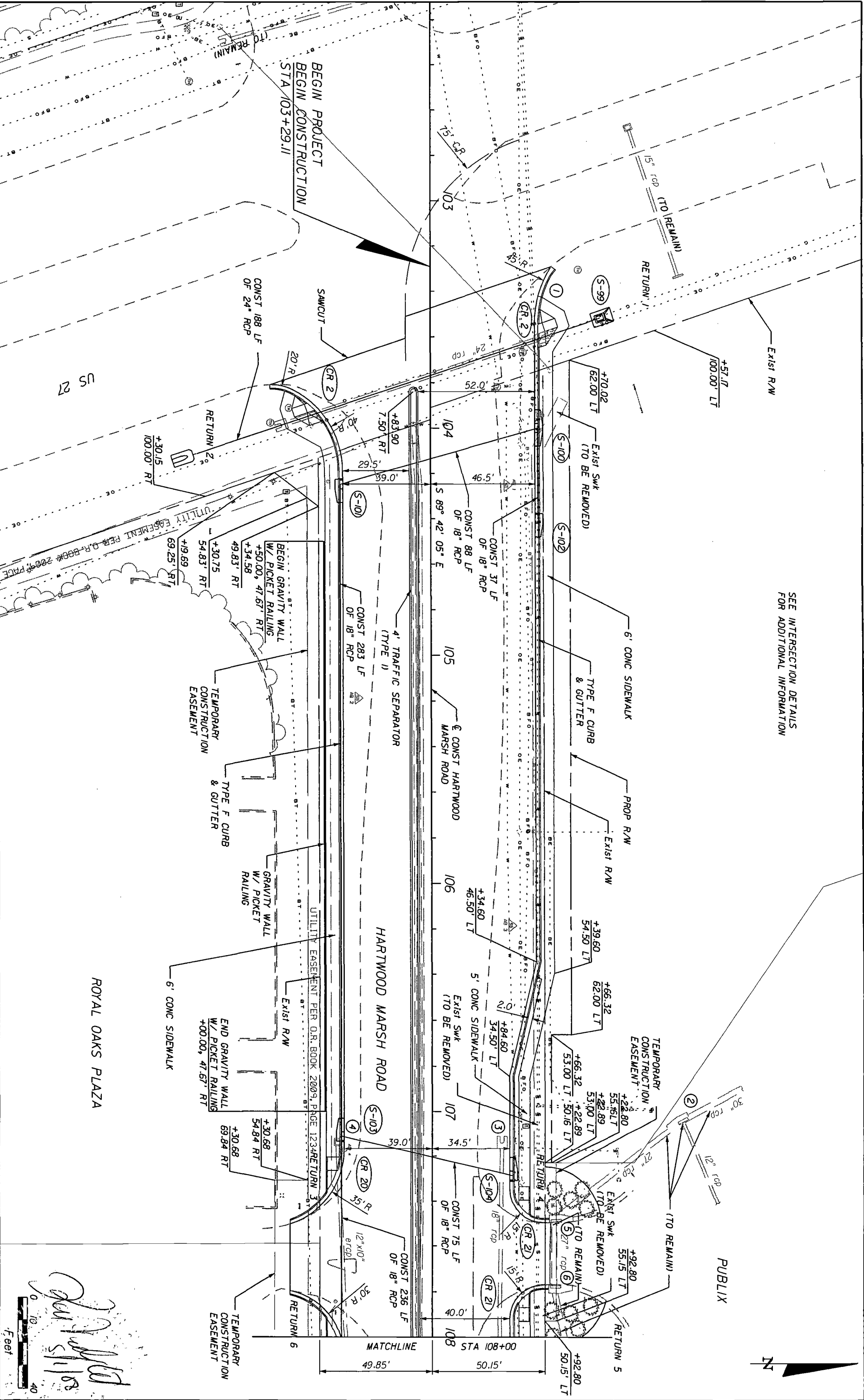
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

EXISTING DRAINAGE DATA
 & BASIN AREAS

SHEET NO. **4**

SEE INTERSECTION DETAILS
FOR ADDITIONAL INFORMATION



DATE	BY	REVISIONS
		DESCRIPTION

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

LAKE COUNTY
 FLORIDA

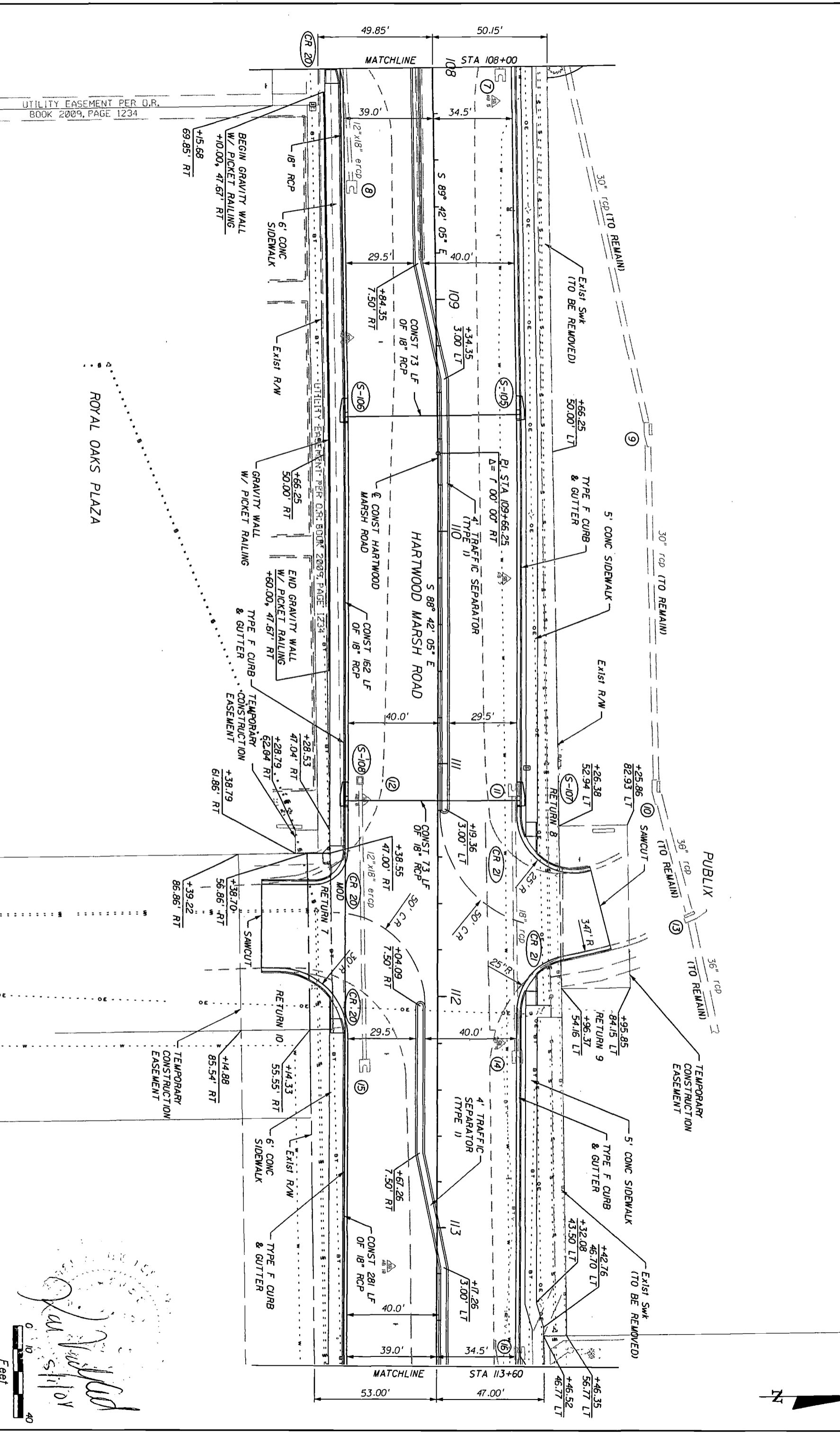
**HARTWOOD MARSH
 ROAD - PHASE I**

PLAN SHEET
 SHEET NO. 18

Scale: 0 10 40 Feet
 Signature: [Handwritten Signature]
 Date: 5/11/2008



SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION



UTILITY EASEMENT PER O.R. BOOK 2009, PAGE 1234

ROYAL OAKS PLAZA



Feet

Handwritten signature and date: 5/11/2008

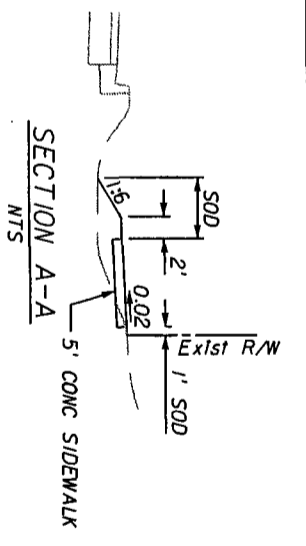
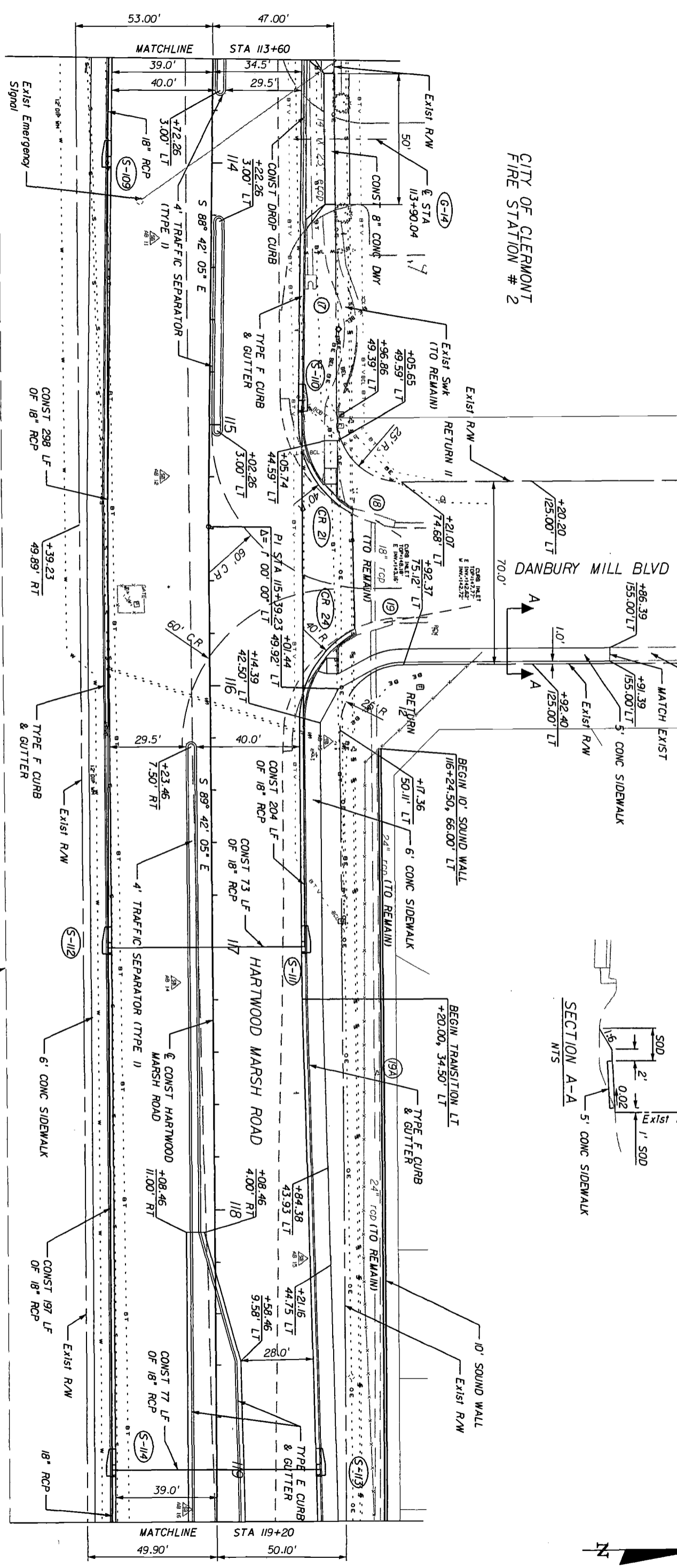
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HNTB HNTB CORPORATION 300 PRIVERA BLVD, SUITE 200 LAKE WALK, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6580 ENGINEER OF RECORD: KAREN M. VAN DEN AUMONT, P.E. FL. REGISTRATION NO. 44794	LAKE COUNTY FLORIDA	HARTWOOD MARSH ROAD - PHASE I	PLAN SHEET SHEET NO. 19
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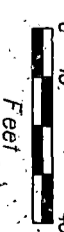
SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION

SAMBOURNE STREET

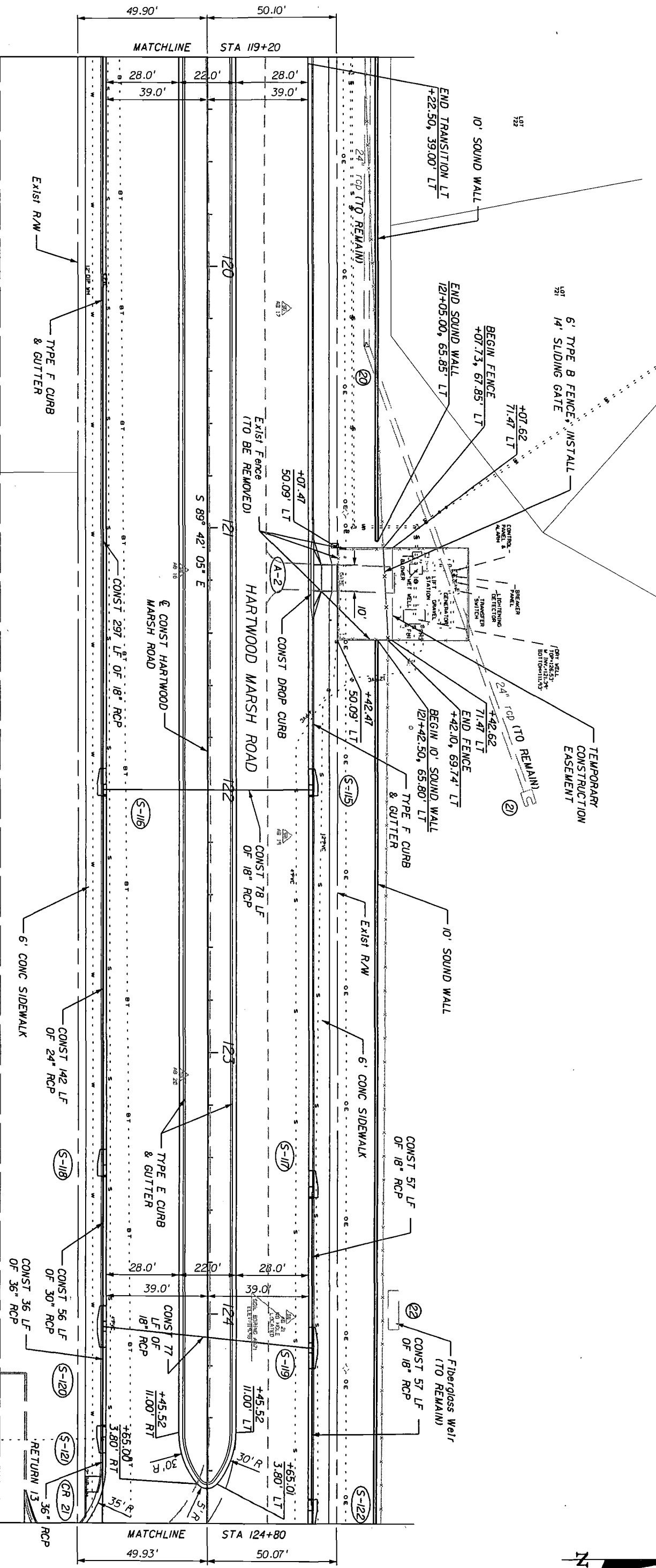
CITY OF CLERMONT
FIRE STATION # 2



John V. [Signature]
5/11/18



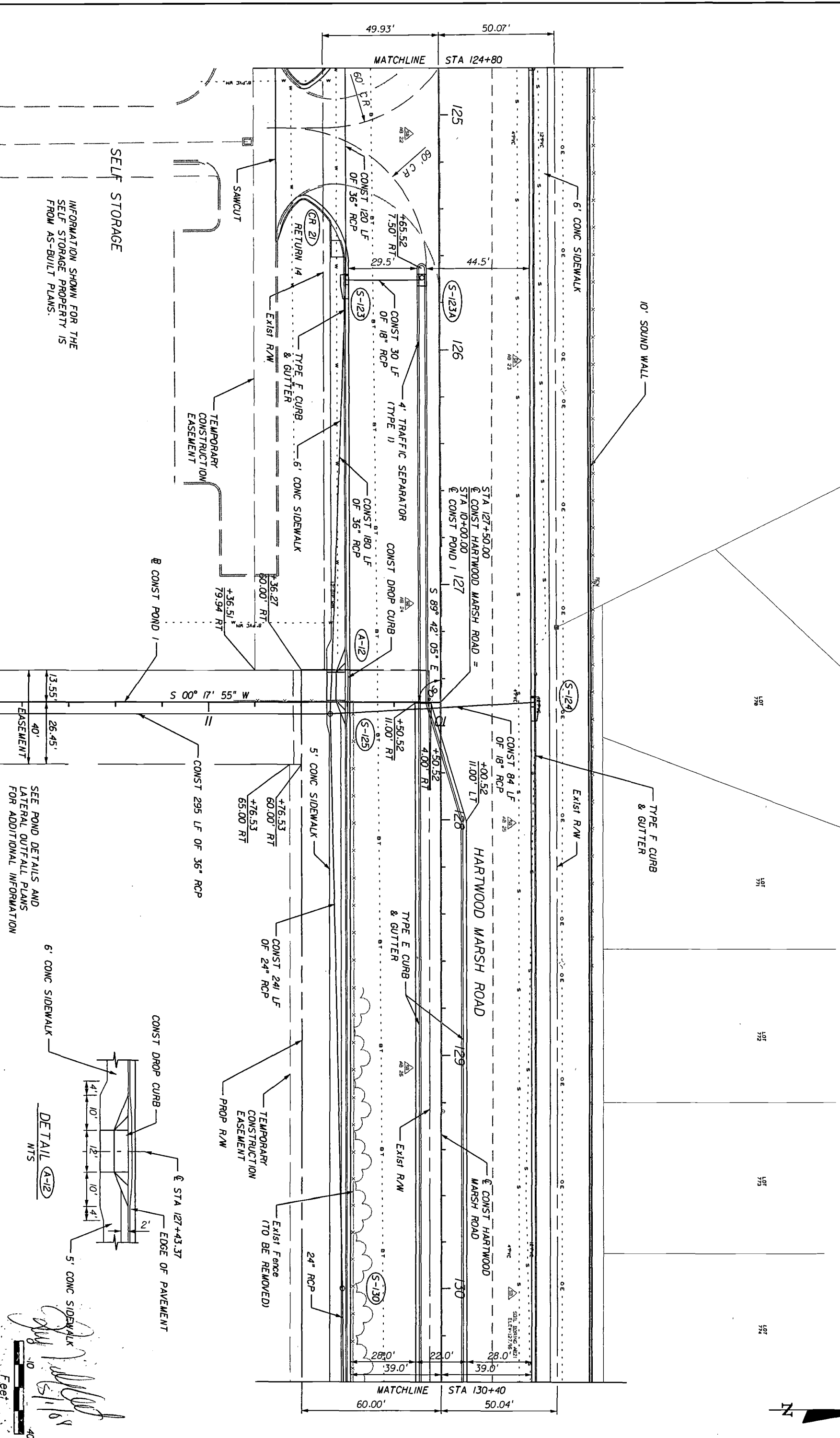
DATE	REV	DESCRIPTION
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LAKE COUNTY FLORIDA		
HARTWOOD MARSH ROAD - PHASE I		
PLAN SHEET		
SHEET NO.	20	



REVISIONS DATE: _____ BY: _____ DESCRIPTION: _____			
HNTB HNTB CORPORATION 300 PRIMAVERA BLVD, SUITE 200 LAKE WALK, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN W. VAN DEN AVONDT, P.E. FL. REGISTRATION NO. 44794	LAKE COUNTY FLORIDA	HARTWOOD MARSH ROAD - PHASE I	PLAN SHEET SHEET NO. 21

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 F. van...

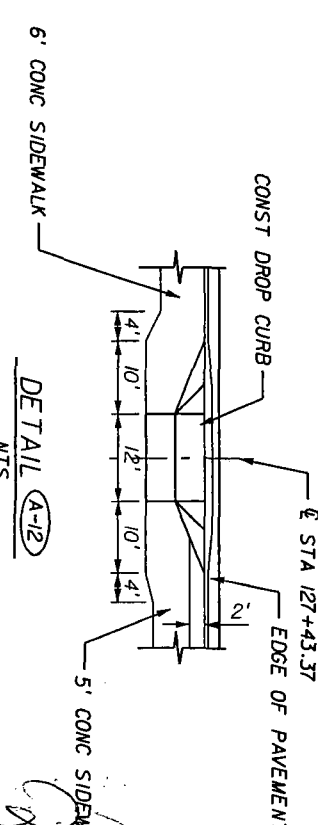
HAMMERSMITH DRIVE



SELF STORAGE

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

SEE POND DETAILS AND LATERAL OUTFALL PLANS FOR ADDITIONAL INFORMATION



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DATE	BR	REVISIONS	DESCRIPTION

<p>HNTB</p> <p>HNTB CORPORATION 300 PHOENIX BLVD, SUITE 200 LAKE WALK, FL 32746 (407) 805-0355 CENT. OF ADVTG. NO. 6500 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794</p>	<p>LAKE COUNTY FLORIDA</p>	<p>HARTWOOD MARSH ROAD - PHASE I</p>	<p>PLAN SHEET</p>	<p>SHEET NO. 22</p>
				<p>5/11/2008</p>

HAMMERSMITH DRIVE

LOT 778

LOT 778

LOT 772

LOT 776

LOT 776

LOT 776

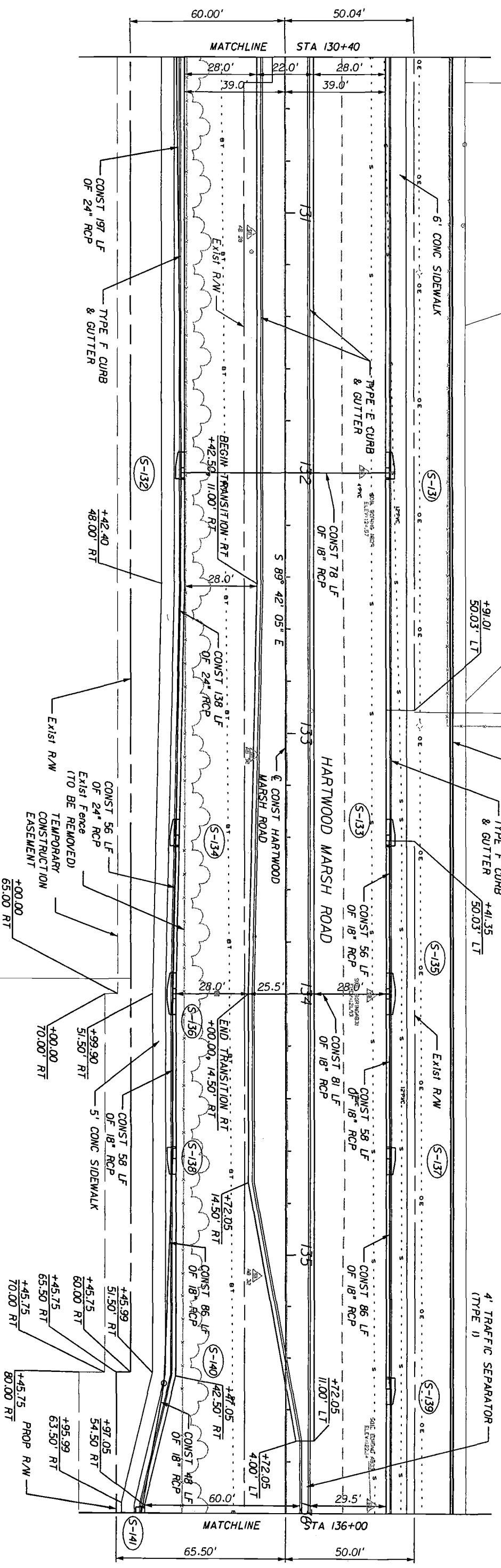
LOT 776

LOT 776

LOT 776

LOT 776

LOT 776



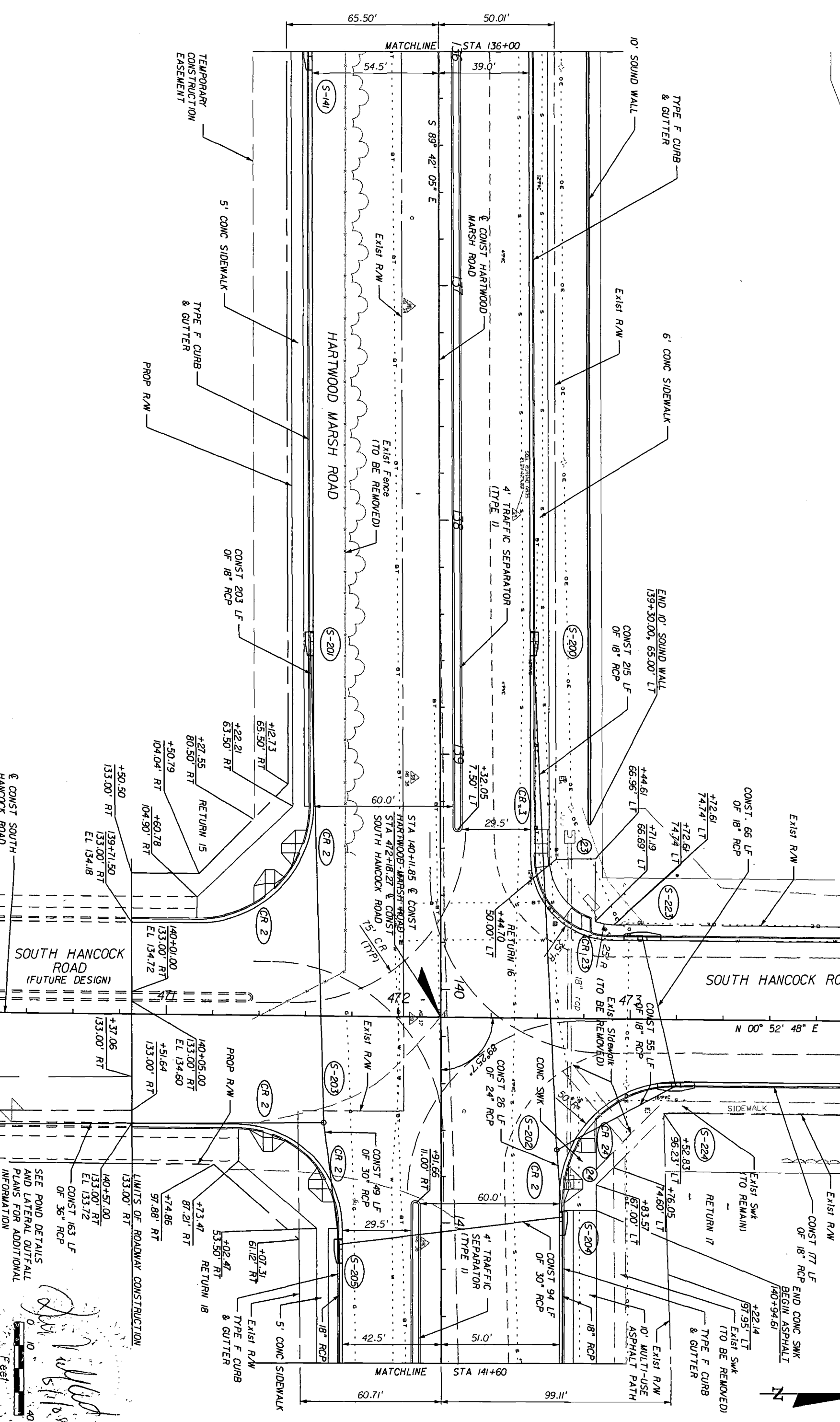
DATE	BR	DESCRIPTIONS

HNTB CORPORATION
 300 PRIMA BLDG.
 SUITE 200
 LAKE WALK, FL 32746
 (407) 805-0355
 CENT. OF ALTH. NO. 6500
 ENGINEER OF RECORD: KAREN W. VAN DEN AUMT, P.E.
 FL. REGISTRATION NO. 44794

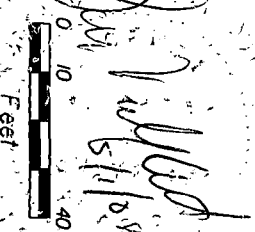
HARTWOOD MARSH ROAD - PHASE I
PLAN SHEET
23

0 10 40
 Feet

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



SEE POND DETAILS AND LATERAL OUTFALL PLANS FOR ADDITIONAL INFORMATION



DATE	BR	REVISIONS
		DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PALMERA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CENT. OF AUTH. NO. 6800
 ENGINEER OF RECORD: KAREN M. VAN DEN AMONT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET
 SHEET NO. 24

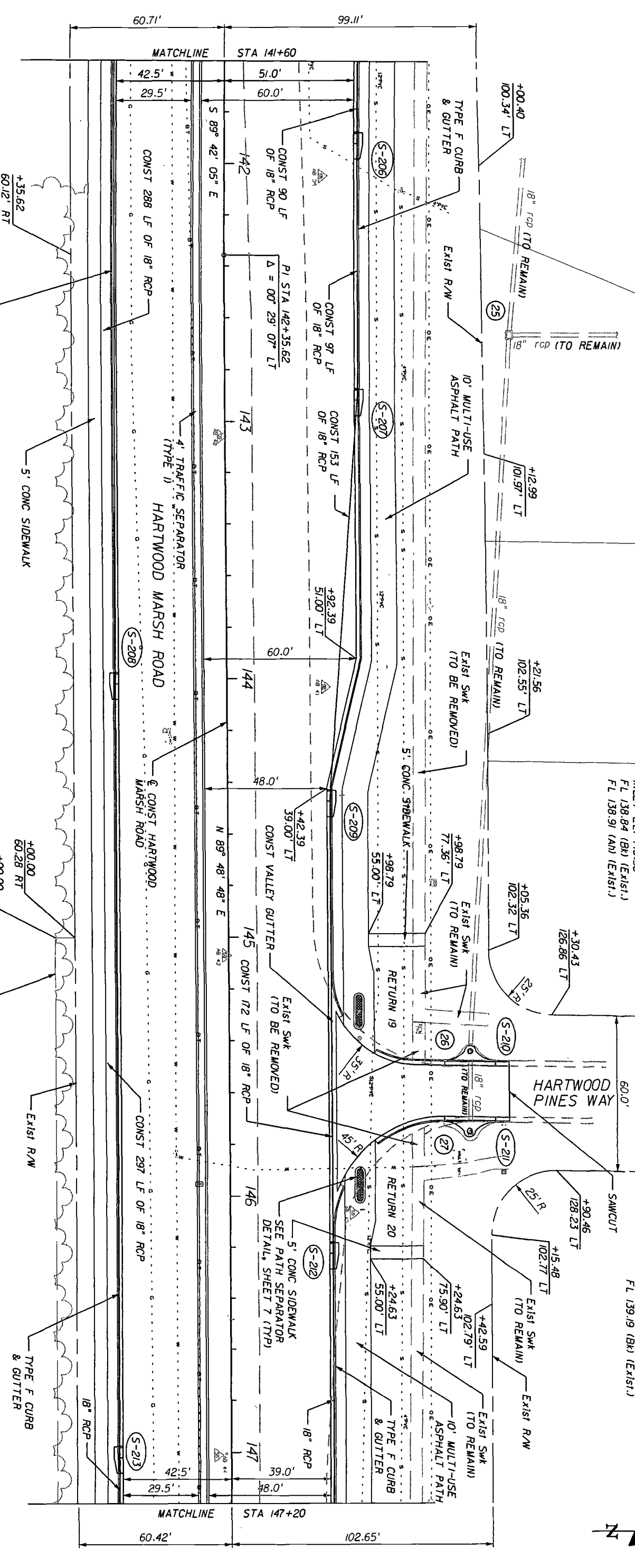
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SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION

(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) (EXIST.)
FL 138.91 (AN) (EXIST.)

(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) (EXIST.)



Handwritten notes and signatures, including a date '11/15/08' and a signature 'S.W. 11/15/08'. There is also a scale bar showing 0, 10, 20, 30, 40 feet.

DATE	BY	REVISIONS DESCRIPTION

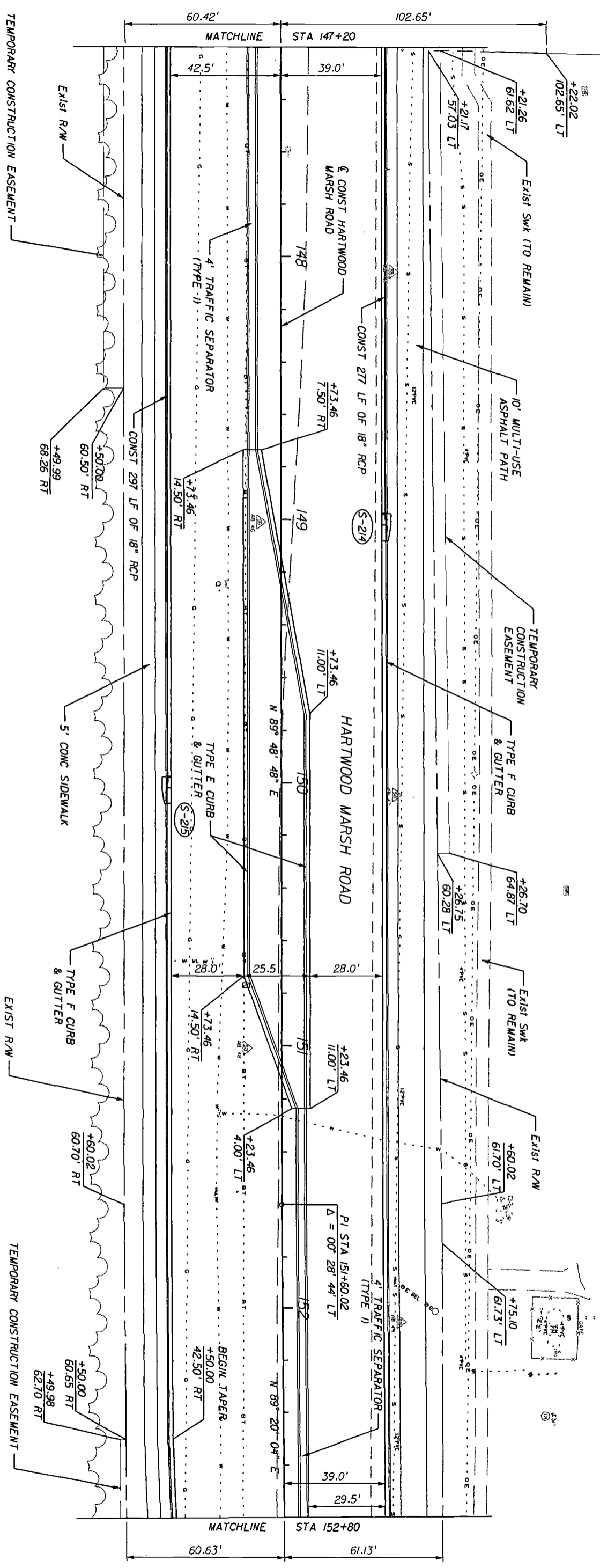
HNTB
HNTB CORPORATION
300 PRIMERIA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0359
CENT. OF AUTH. NO. 6580
ENGINEER OF RECORD: KAREN M. VAN DEN AMONT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET
SHEET NO. **25**

5/11/2008 9:38:38 AM \\VMK001\omwof\Jobs\15541\Phase 1\155100001\roadway\plan\p08.dgn



Kevin W. [Signature]
5/1/08



DATE	BY	REVISIONS DESCRIPTION

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

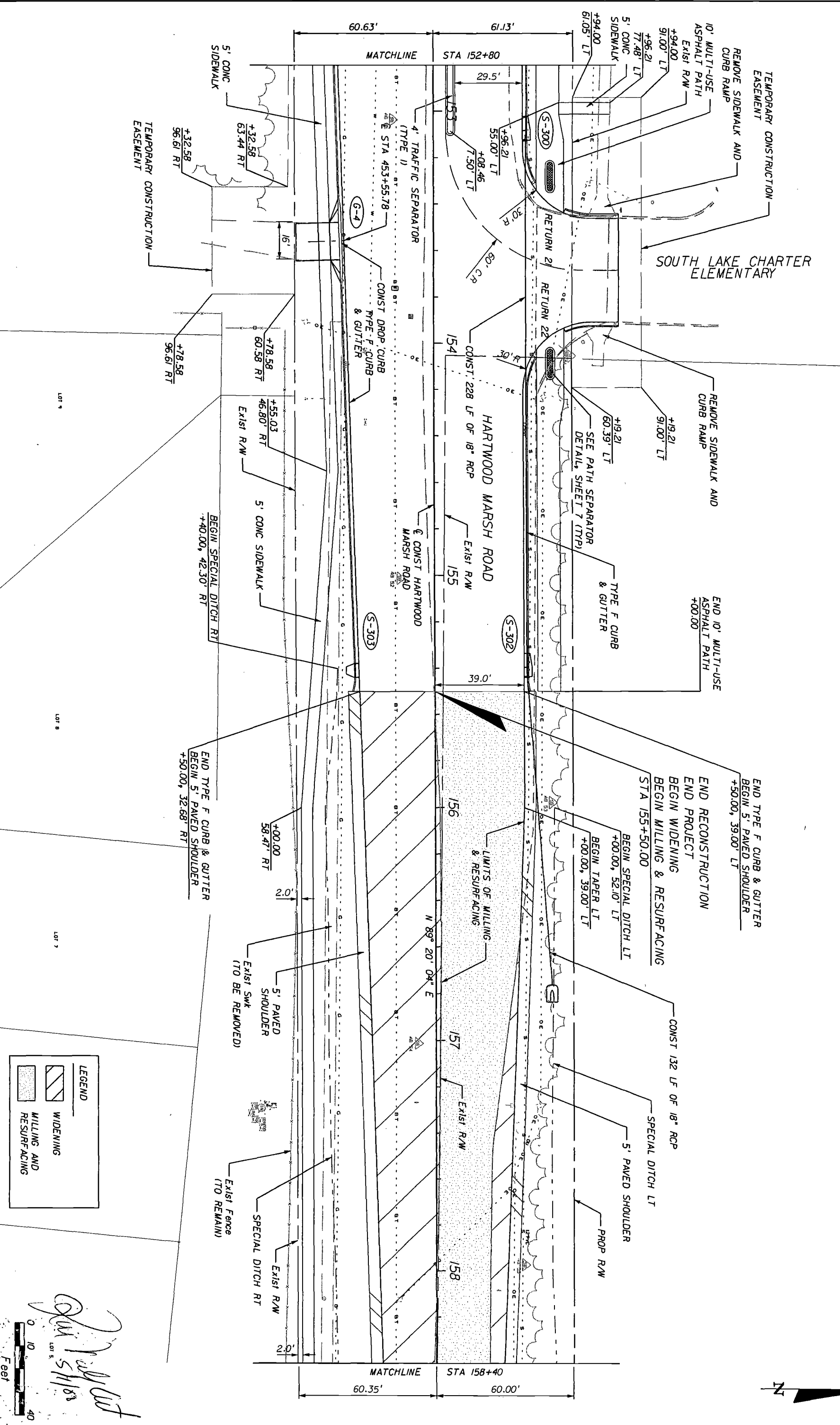
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET
 SHEET NO. 20

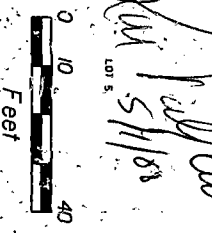
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SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION



LEGEND

	WIDENING
	MILLING AND RESURFACING



John S. Hill
 27

DATE	BR	REVISIONS	DESCRIPTION

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

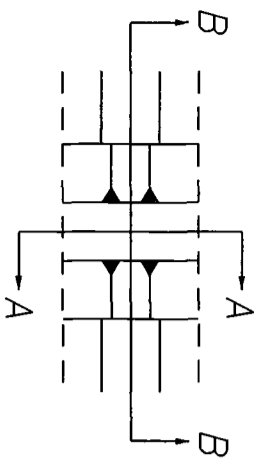
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PLAN SHEET

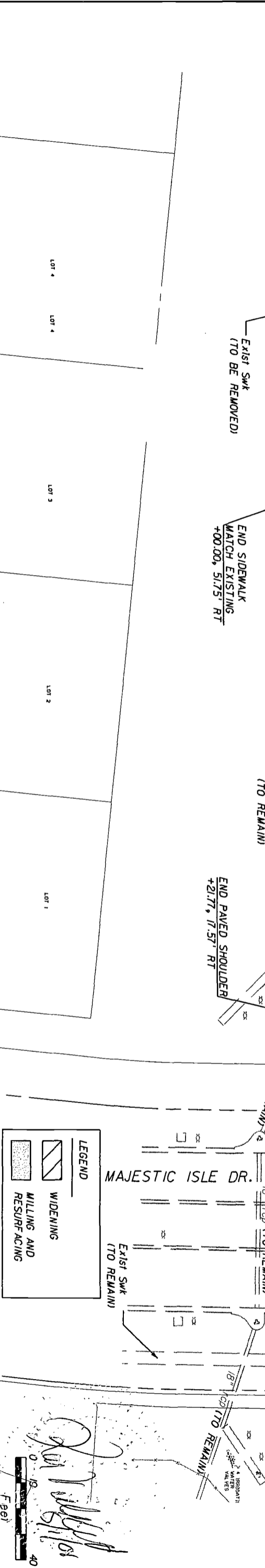
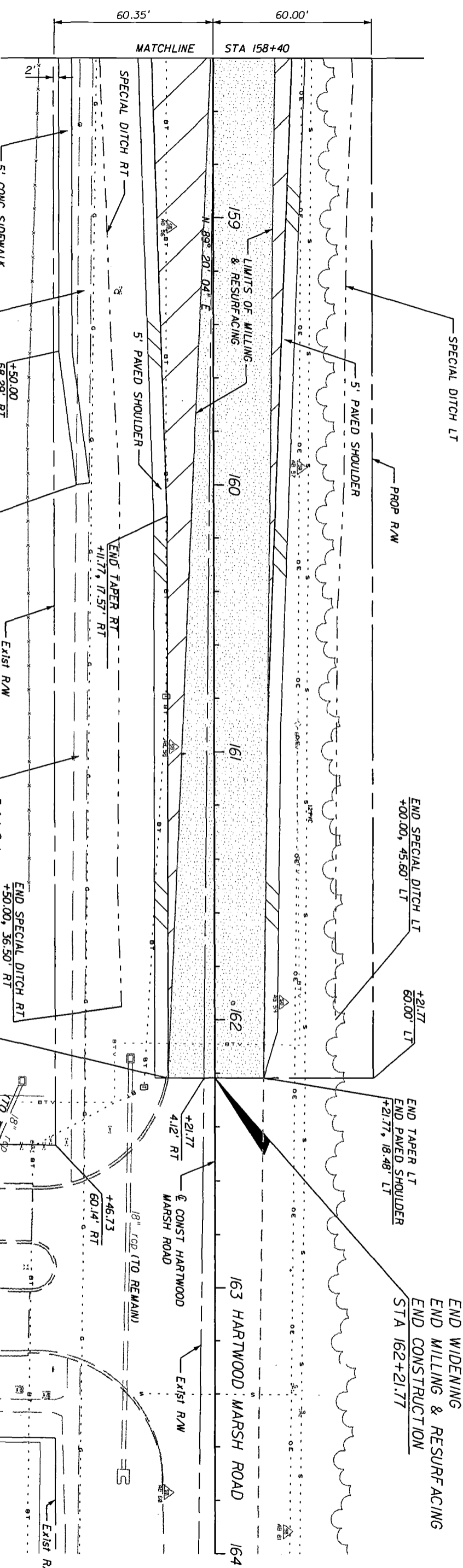
SHEET NO. **27**

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DITCH BLOCK DETAILS

DITCH BLOCK INFORMATION			
RIGHT SIDE		LEFT SIDE	
STATION OF BLOCK	ELEVATION OF BLOCK	STATION OF BLOCK	ELEVATION OF BLOCK
156+25	149.9	156+50	151.2
156+50	149.9	156+75	150.5
156+75	149.0	157+00	149.8
157+00	148.2	157+25	149.1
157+25	148.2	157+50	148.4
157+50	146.5	157+75	147.3
157+75	145.9	158+00	146.2
158+00	145.1	158+25	143.9
158+25	143.4	158+50	141.6
158+50	141.6	158+75	140.5
158+75	140.6	159+00	139.4
159+00	139.6	159+25	138.0



LEGEND
 [Symbol] WIDENING
 [Symbol] MILLING AND RESURFACING
 [Symbol] Exist Swk (TO REMAIN)

Scale: 0 10 20 40 Feet
 Date: 5/17/2008
 Drawing No: 3-403D AM

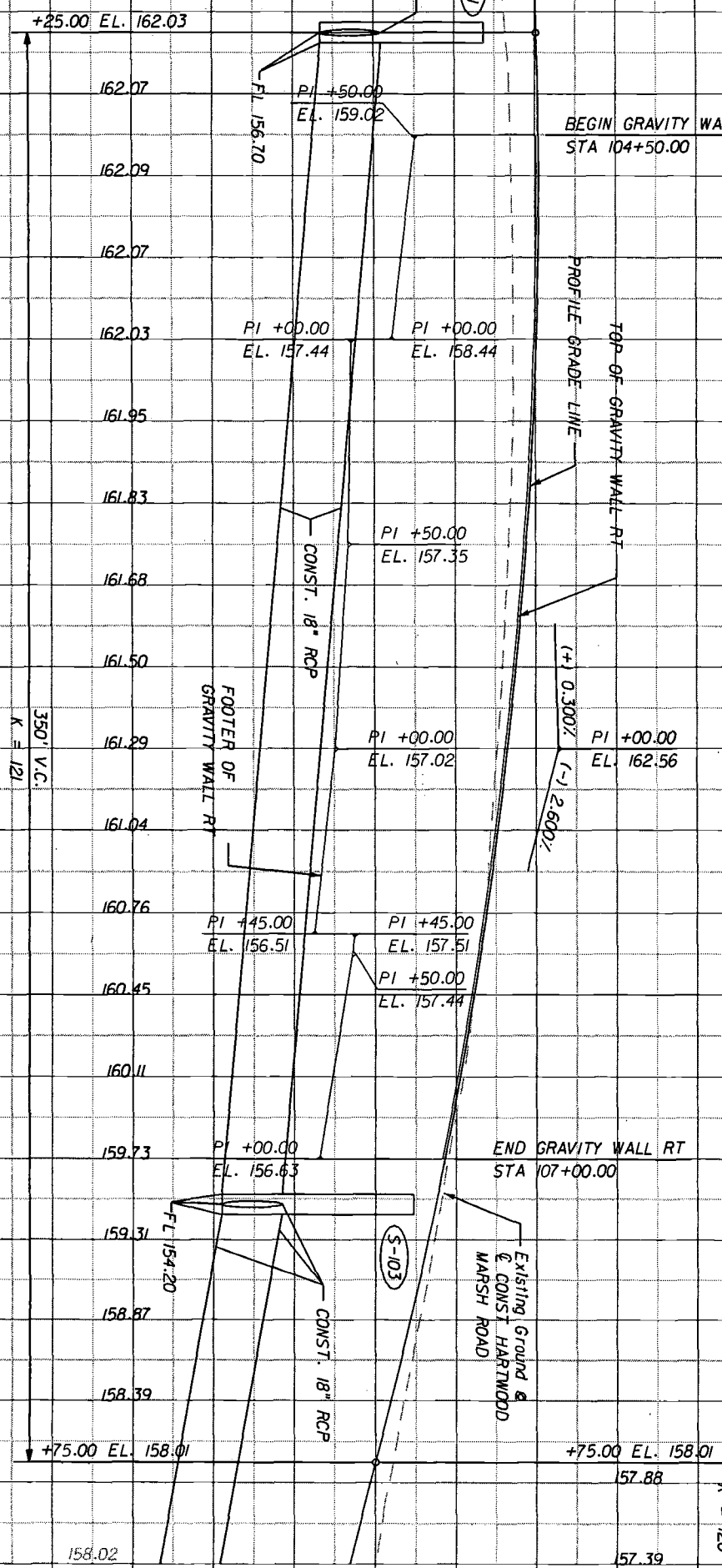
DATE	BR	REVISIONS DESCRIPTION
HNTB HNTB CORPORATION 300 PHOENIX BLVD. SUITE 200 LAKE WORTH, FL 32746 (407) 805-0355 CENT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN W. VAN DEN AMONT, P.E. FL. REGISTRATION NO. 44794		
LAKE COUNTY FLORIDA		
HARTWOOD MARSH ROAD - PHASE I		
PLAN SHEET		
SHEET NO.	28	

SITE BENCHMARK
SET NAIL & DISC
STA 104+23.64, 45.51' RT
EL. 160.966'

BEGIN PROFILE
STA 103+80.00
EL. 161.90

BEGIN PROJECT
BEGIN CONSTRUCTION
STA 103+29.11

SEE INTERSECTION
DETAILS



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

[Handwritten Signature]

142
144
146
148
150
152
154
156
158
160
162
164
166
168
170
172
174
176

DATE	BR	REVISIONS DESCRIPTION	SHEET NO.
			29

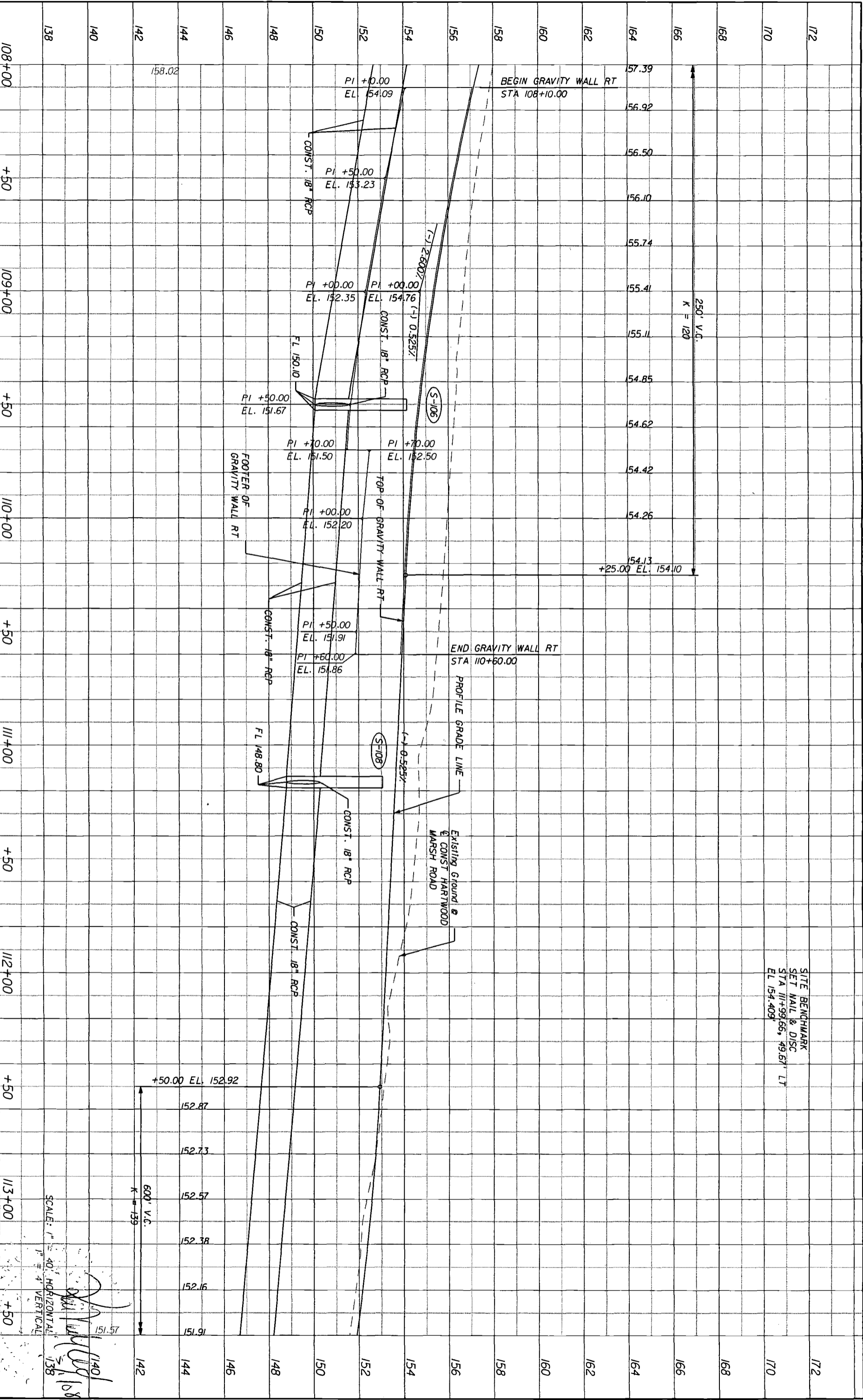
HNTB
 HNTB CORPORATION
 300 PRIMA BLVD.
 SUITE 200
 LAKE WORTH, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD

SITE BENCHMARK
SET MAIL & DISC
STA 111+99.66, 49.61' LT
EL. 154.409'



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

140
138
142
144
146
148
150
152
154
156
158
160
162
164
166
168
170
172

DATE	BR	REVISIONS	DESCRIPTION

HNTB
HNTB CORPORATION
300 PRINCE BLVD.
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6900
ENGINEER OF RECORD: KAREN W. VAN DEN ANCHT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD

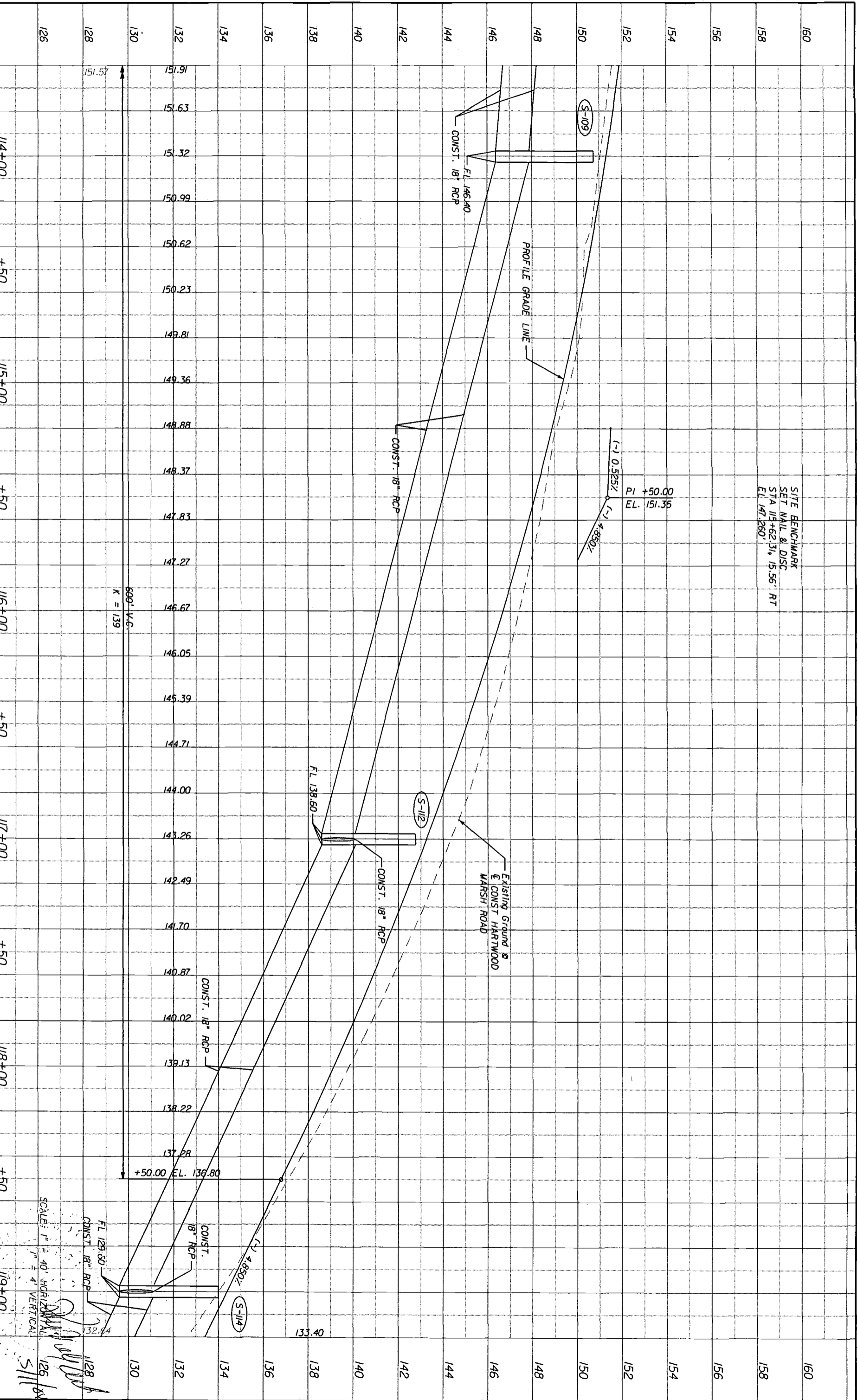
SHEET NO. 30

SITE BENCHMARK
SET NAIL & DISC
STA 115+62.31, 15.56' RT
EL 147.280

PI +50.00
EL. 151.35

(-)-0.585%
(-)-4.850%

Existing Ground &
CONST HARTWOOD
MARSH ROAD



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

FL 129.50
CONST. 18" RCP

+50.00 EL. 136.80

600' V.C.
K = 139

FL 138.60

STATION	ELEVATION
114+00	151.91
114+00	151.63
114+00	151.32
114+00	150.99
114+00	150.62
114+00	150.23
115+00	149.81
115+00	149.36
115+00	148.88
115+00	148.37
115+00	147.83
115+00	147.27
116+00	146.67
116+00	146.05
116+00	145.39
116+00	144.71
116+00	144.00
117+00	143.26
117+00	142.49
117+00	141.70
117+00	140.87
117+00	140.02
118+00	139.13
118+00	138.22
118+00	137.28
119+00	136.40
119+00	135.40
119+00	134.40
119+00	133.40
119+00	132.44

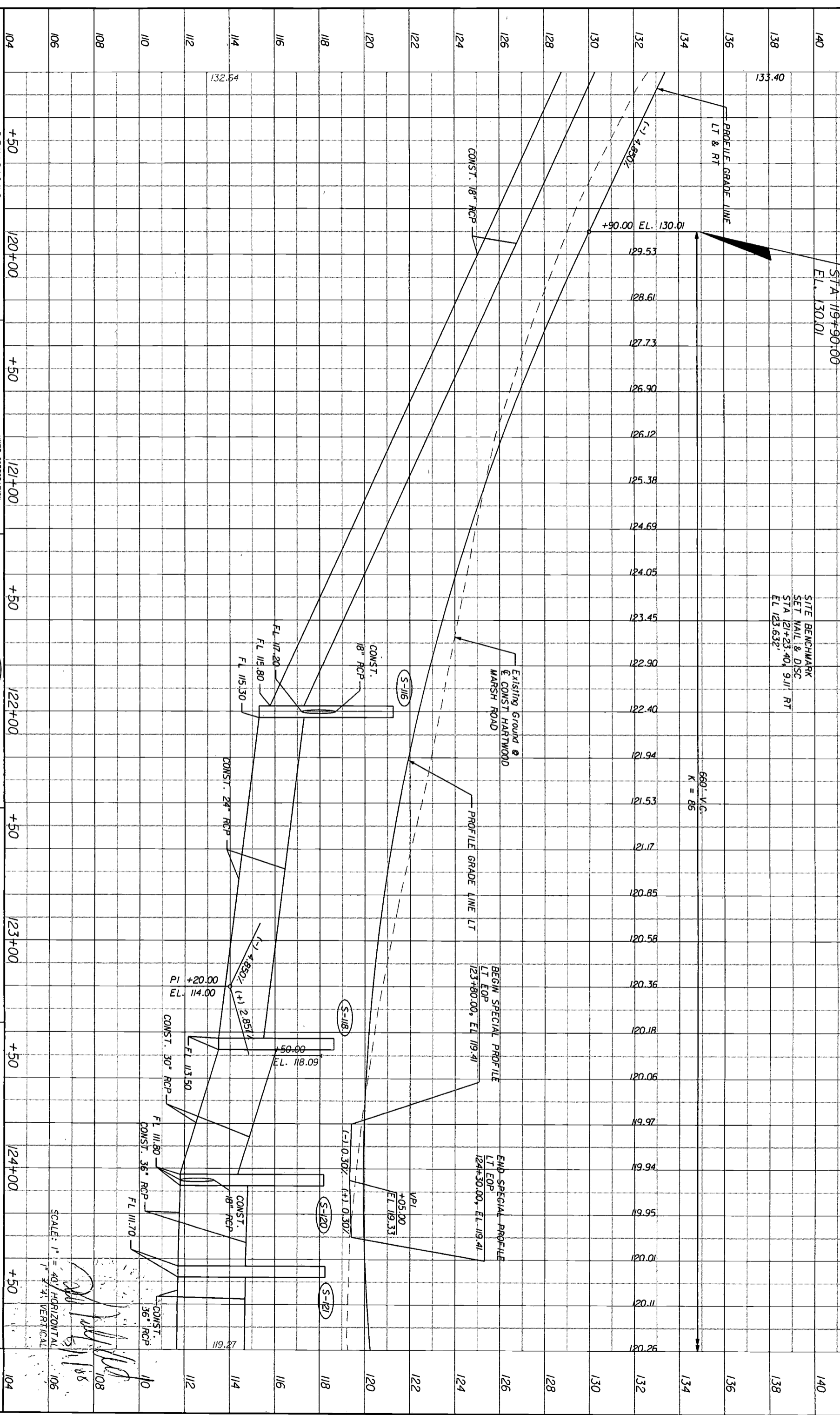
DATE	BR	REVISIONS
		DESCRIPTION
<p>HNTB HNTB CORPORATION 300 PRINCEA BLVD. SUITE 200 LAKE WALKER, FL 32746 (407) 805-0355 CENT. OF AUTH. NO. 6500</p>		
<p>ENGINEER OF RECORD: KAREN M. VAN DEN AARDT, P.E. FL. REGISTRATION NO. 44794</p>		
<p>LAKE COUNTY FLORIDA</p>		
<p>HARTWOOD MARSH ROAD - PHASE I</p>		
<p>PROFILE SHEET HARTWOOD MARSH ROAD</p>		
SHEET NO.	31	

5/11/2008 9:40:29 AM \\LAKEMARSH\0017\LDOS\41551-1\Phase I\ASSET\000001\road\www\p\p\p\31.dwg

BEGIN BIFURCATED PROFILE LT
 STA 119+90.00
 EL. 130.01

SITE BENCHMARK
 SET NAIL & DISC
 STA 121+23.40, 9.11' RT
 EL 123.632'

660' V.G.
 K = 86



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

[Handwritten signatures and initials]

DATE	BY	REVISIONS	DESCRIPTION

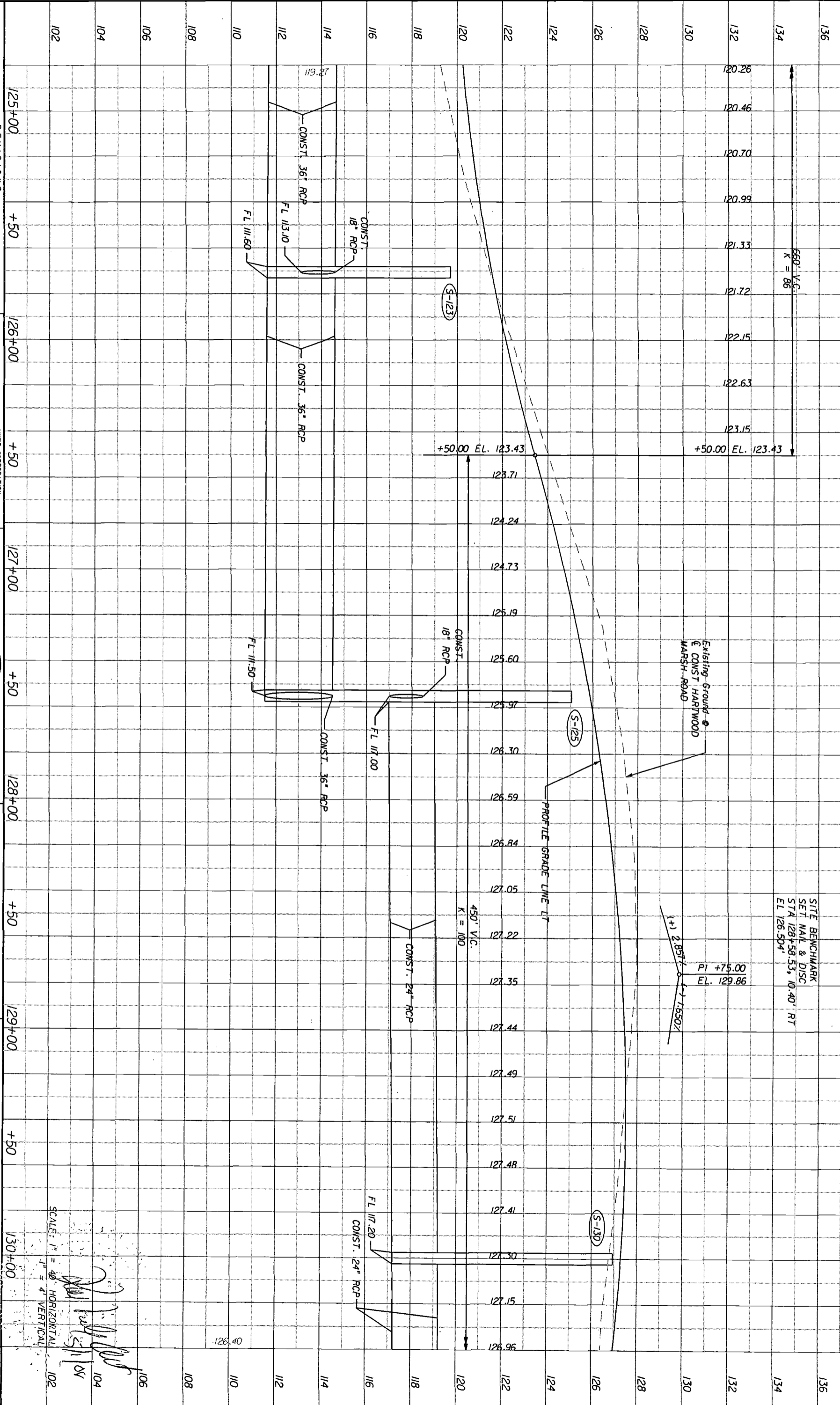
HNTB
 HNTB CORPORATION
 300 PINNACLA BLVD.
 SUITE 200 FL 32746
 LAKE WORTH, FL 33464
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: KAREN W. VAN DEN AMONT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD

SHEET NO. 32



SITE BENCHMARK
SET NAIL & DISC
STA 128+58.53, 10.40' RT
EL. 126.504'

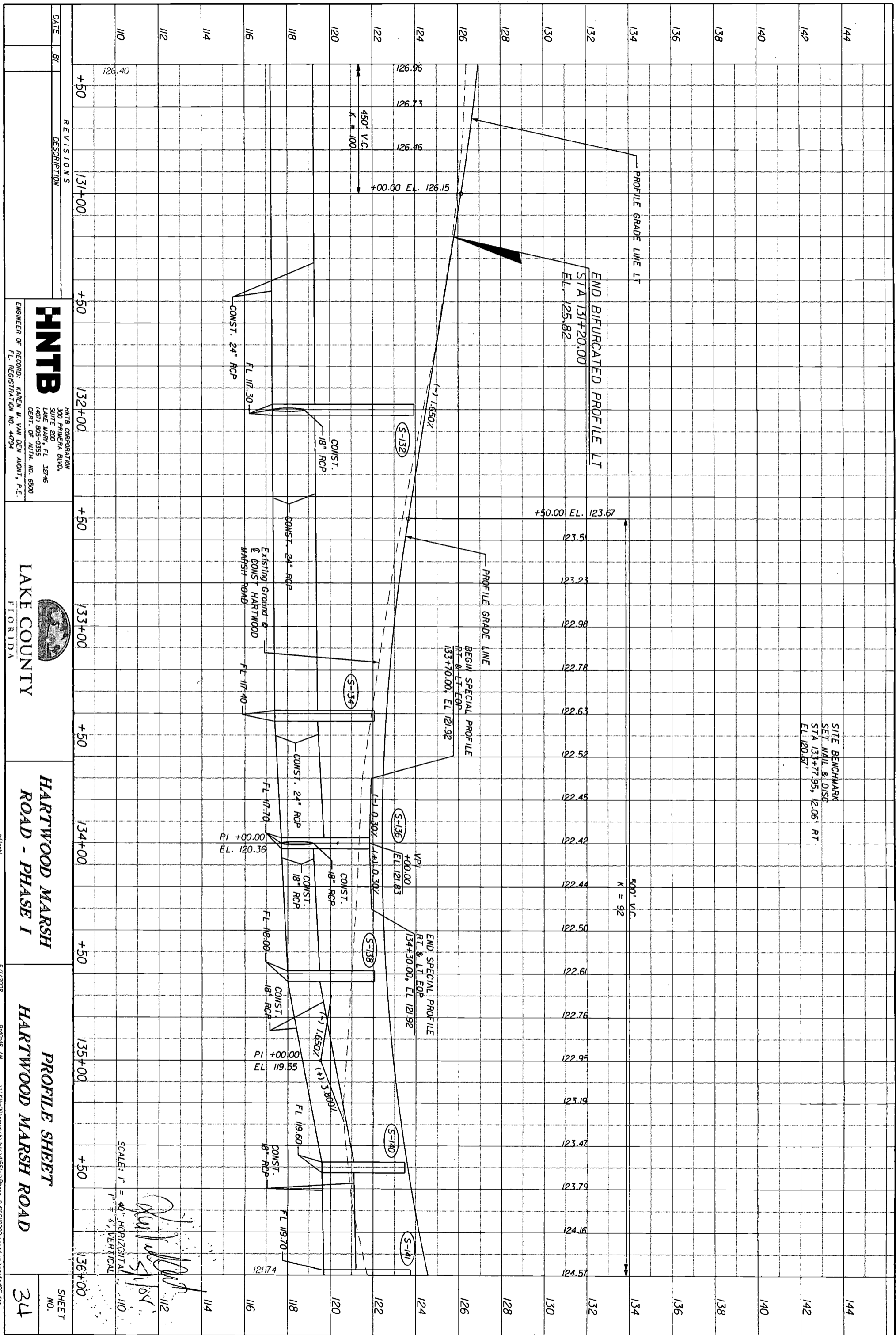
PI +75.00
EL. 129.86
+1 2.85%
-1 1.55%

450' V.C.
K = 100

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

[Handwritten signatures and initials]

DATE	BR	REVISIONS
HNTB HNTB CORPORATION 300 PENNELL BLVD. SUITE 200 FL 32746 LAKE MARY, FL 32746 (407) 805-0355 CENT. 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		
PROFILE SHEET HARTWOOD MARSH ROAD		
SHEET NO.	33	



DATE	BR	REVISIONS
		DESCRIPTION

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

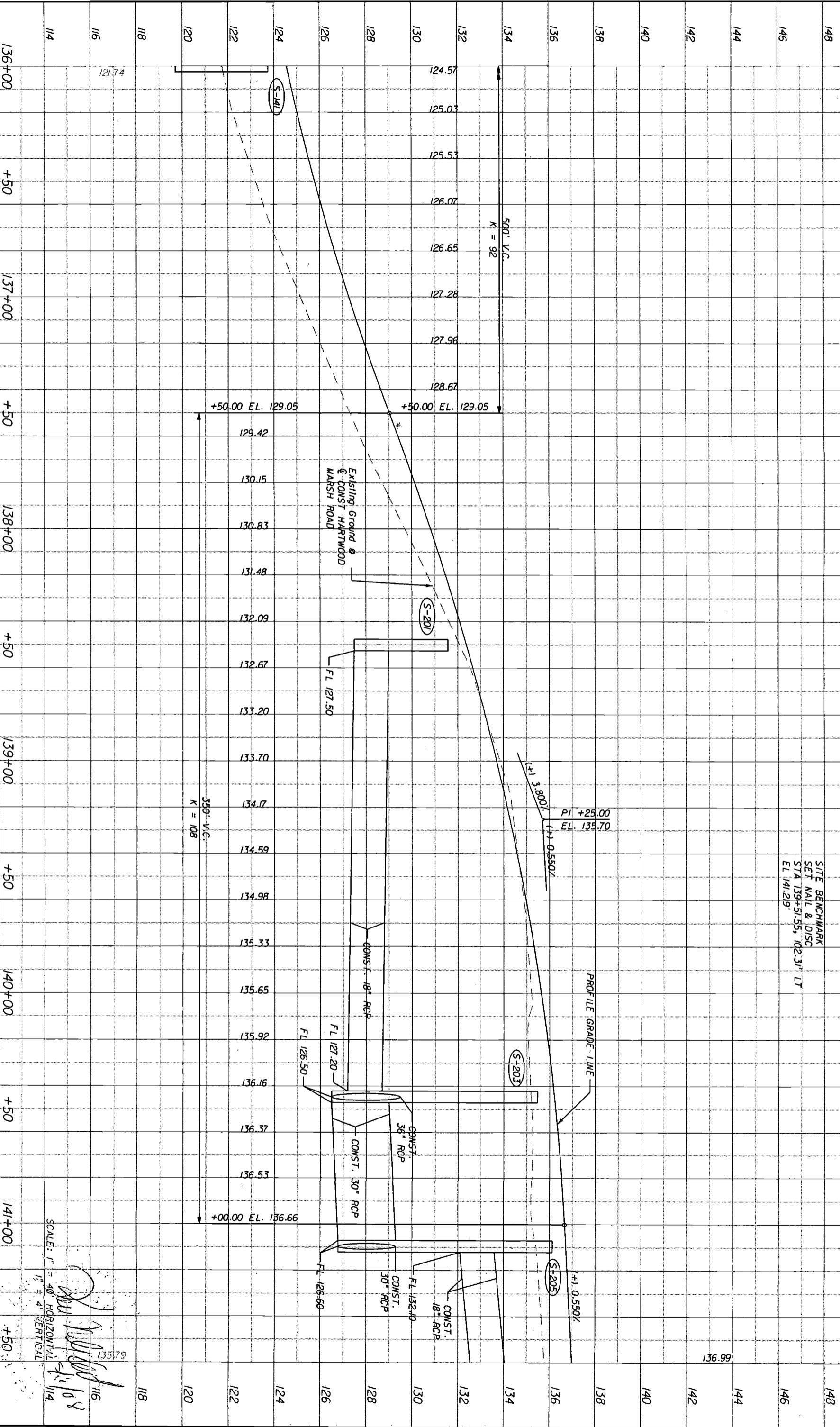
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD
 SHEET NO. 34

SCALE: 1" = 40' HORIZONTAL
 1" = 4' VERTICAL
 5/17/2008 9:40:48 AM
 \\KAMAD01\WORK\1\101551-1\Phase I\AS1010001\PROFILES\PROF.PDF, 600

SITE BENCHMARK
SET NAIL & DISC
STA 139+51.55, 102.31' LT
EL 141.29'



DATE	BR	REVISIONS	DESCRIPTION

HNTB
HNTB CORPORATION
3000 PAUERA BLVD,
SUITE 1400, FT. LAUDERDALE,
FL 33304
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

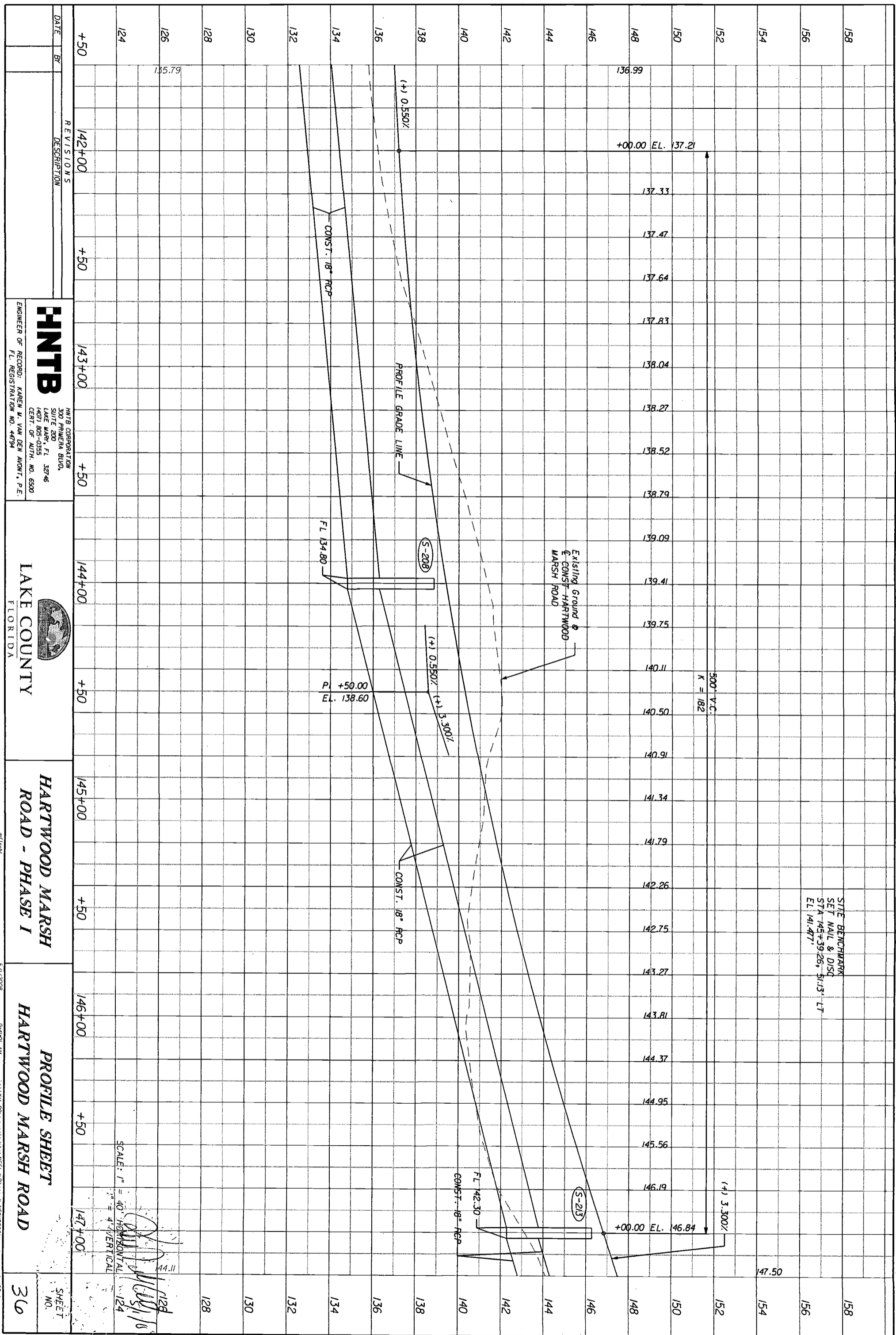
LAKE COUNTY
FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD

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

SHEET NO. **35**



DATE	BR	REVISIONS
		DESCRIPTION

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

LAKE COUNTY
 FLORIDA

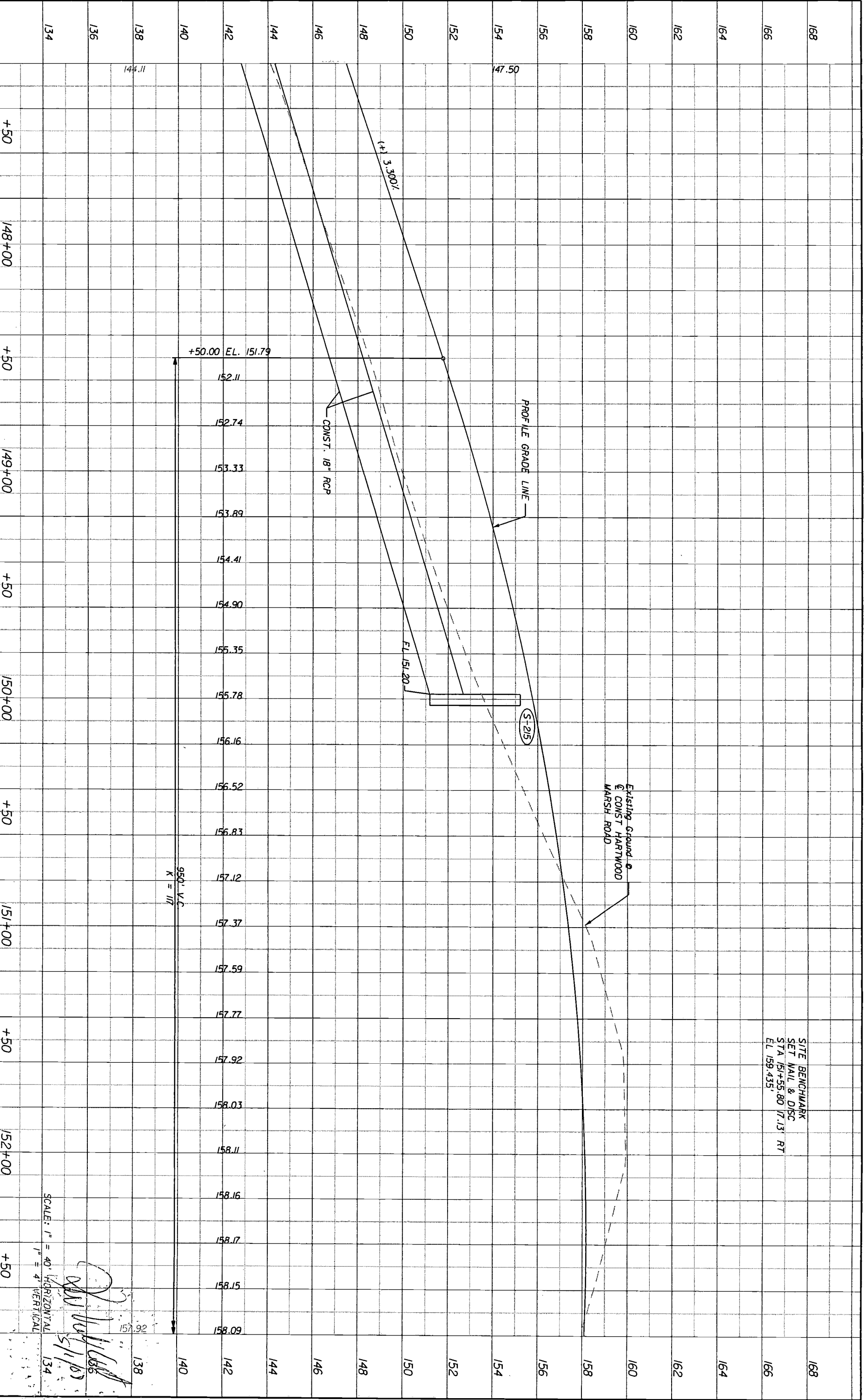
HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD

SHEET NO. 30

5/1/2008 9:41:01 AM \\K:\KIM\07\Drawings\Lake\145+39.26\51:13' LT\Profile\Profile.dwg

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



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

[Handwritten Signature]
 5/11/08

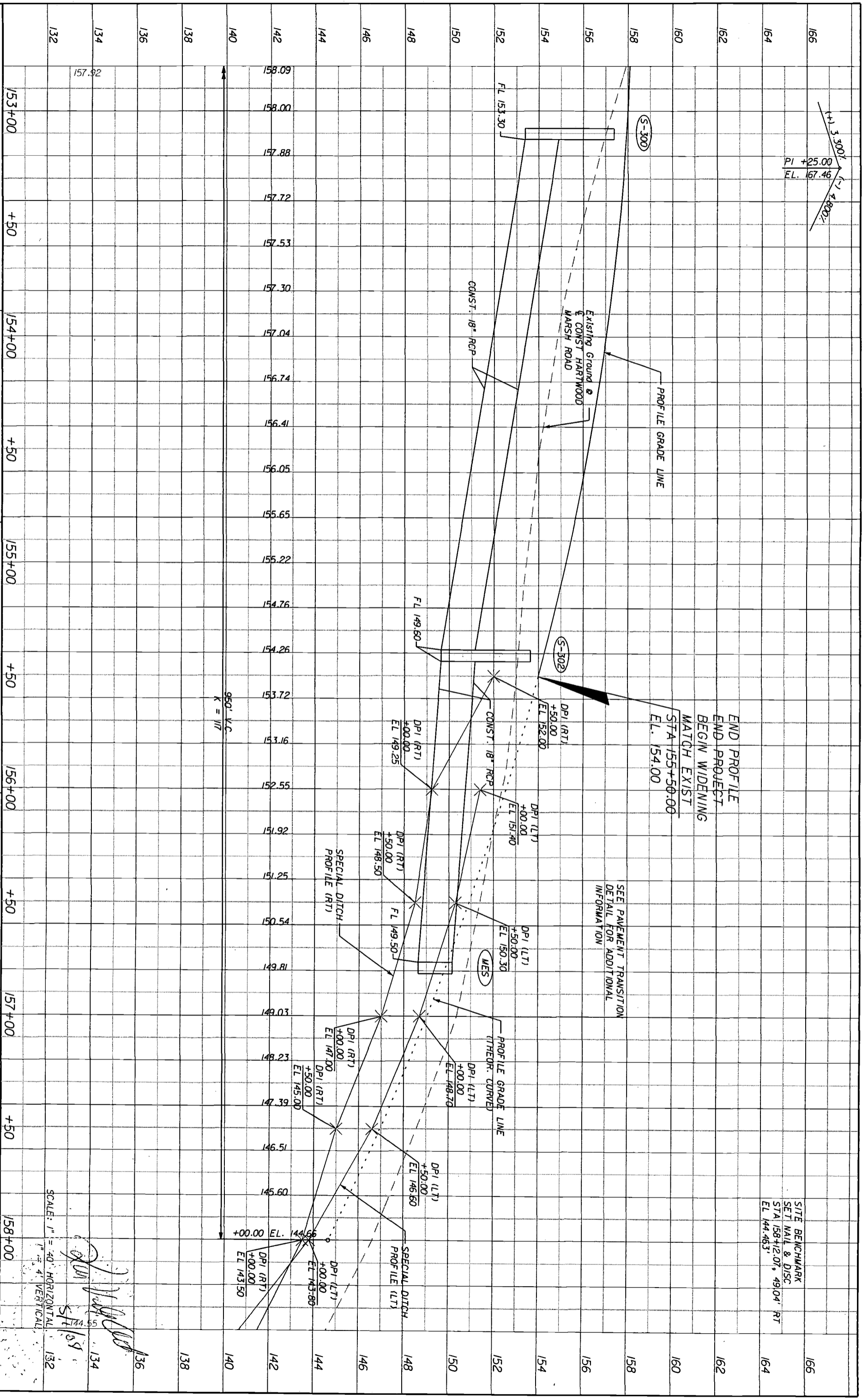
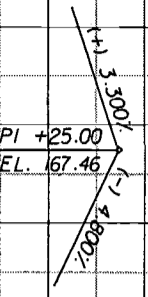
DATE	BR	REVISIONS
		DESCRIPTION

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

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD
 SHEET NO. **37**



SITE BENCHMARK
SET NAIL & DISC
STA 158+12.0', 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

960' V.C.
K = 1/17

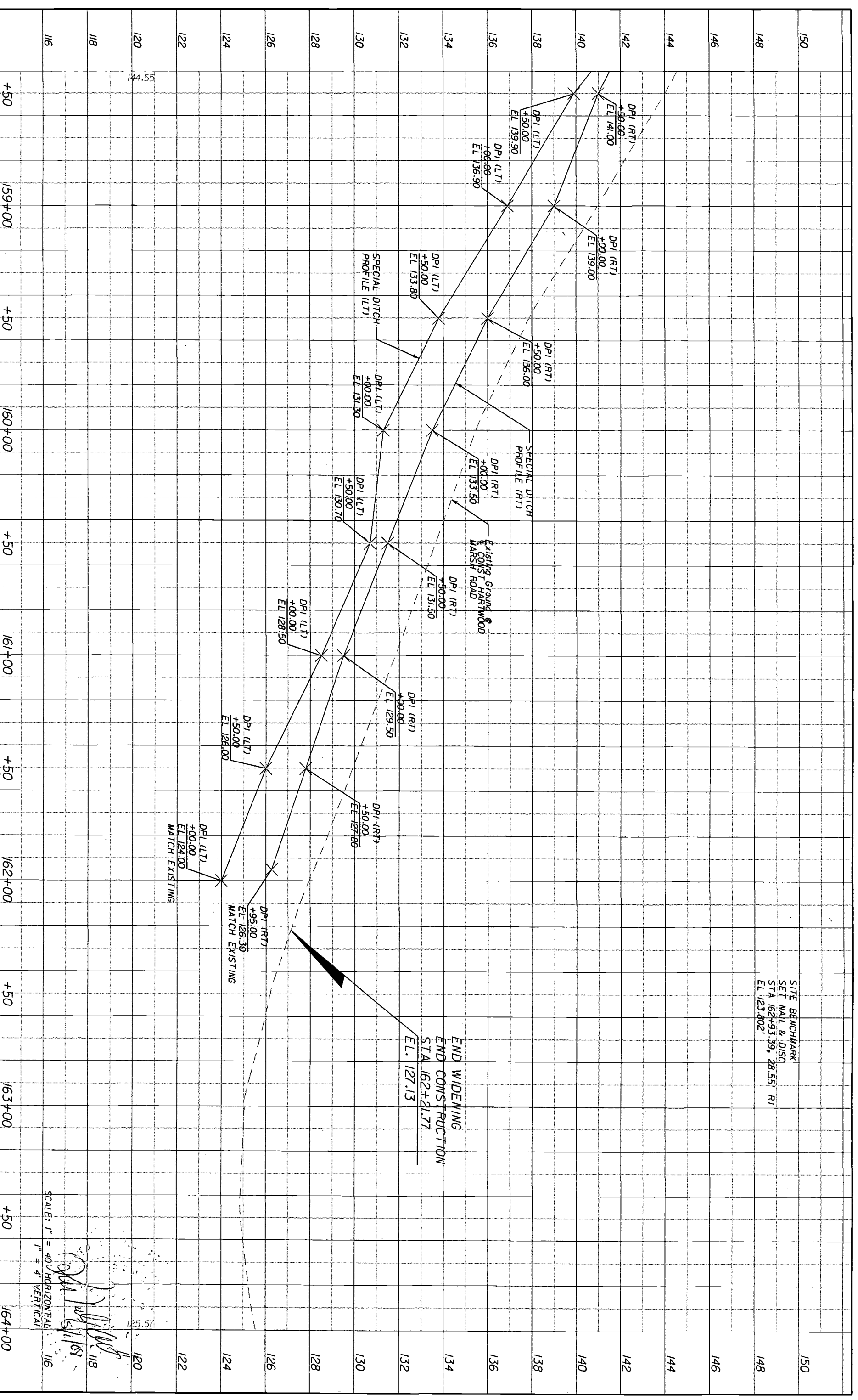
SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

[Handwritten signature]
DATE 12/13/19

DATE	BR	REVISIONS
		DESCRIPTION
HNTB CORPORATION 300 PRIMERIA BLVD, SUITE 200 LAKE MAN, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6300 ENGINEER OF RECORD: KAREN M. VAN DEN AMONT, P.E. FL. REGISTRATION NO. 44794		
LAKE COUNTY FLORIDA		
HARTWOOD MARSH ROAD - PHASE I		
PROFILE SHEET HARTWOOD MARSH ROAD		
SHEET NO.	38	

SITE BENCHMARK
SET MAIL & DISC
STA 162+93.39, 28.55' RT
EL 123.802'

END WIDENING
END CONSTRUCTION
STA 162+21.77
EL. 127.13



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

[Signature]
5/11/08

DATE	BR	REVISIONS
		DESCRIPTION

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

LAKE COUNTY
FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PROFILE SHEET
HARTWOOD MARSH ROAD

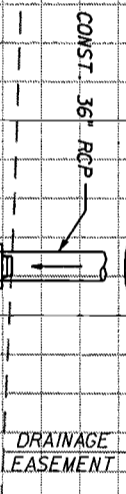
SHEET NO. 39

120

140

S-127

STA. 16+60.68 (5.00 L.F.)
CONST. MANHOLE TYPE J-7
INDEX NO. 200, 201
TOP EL. 102.46
FL 95.20 (4H)
FL 95.20 (LTI)



S-127
STA. 16+60.68

CONST. POND 1

120

140

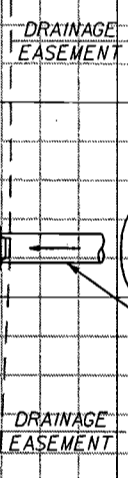
S-126



CONST. 36" RCP

S-126
STA. 13+47.50

STA. 13+47.50 (5.00 L.F.)
CONST. MANHOLE TYPE J-7
INDEX NO. 200, 201
TOP EL. 114.44 (FIELD VERIFY)
FL 107.00 (4H)
FL 107.00 (BK)

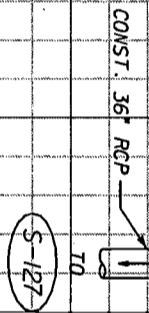


S-125

S-126
STA. 13+47.50

110

140



S-127

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

[Handwritten Signature]
5/1/08

DATE	BY	REVISIONS DESCRIPTION

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

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

LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD

DRAINAGE STRUCTURE SECTIONS
POND 1

SHEET NO.
66

120
140

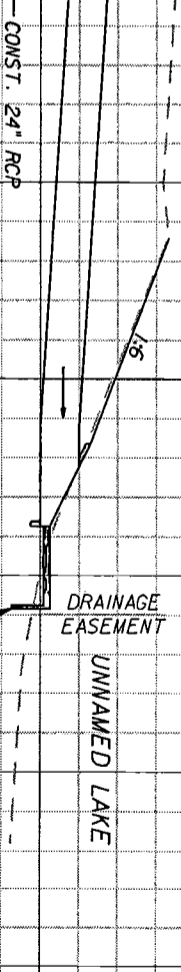
(S-128)

STA. 7+75.50 (64.13 L.)
CONST. DITCH BOTTOM INLET TYPE C (MODIFIED)
INDEX NO. 232
GRADE EL. 98.80
FL 93.50 (RT)
SEE DRAINAGE DETAIL SHEET



STA. 7+75.50 (48.99 Rt.)
CONST. MITERED END SECTION (1:4)
INDEX NO. 273
FL 90.00 (LT)

(S-128)
STA. 7+75.50



110
130

STA. 7+00.00 (61.60 L.)
CONST. U-ENDWALL W/ENERGY DISSIPATOR
INDEX NO. 264
FL 95.00 (RT)



STA. 7+00.00

90
110



80
100

CONST. POND 1

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

[Handwritten signature]
5/1/08

REVISIONS

DATE	BY	DESCRIPTION

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

LAKE COUNTY
FLORIDA

HARTWOOD MARSH ROAD

DRAINAGE STRUCTURE SECTIONS
POND 1

SHEET NO. **07**

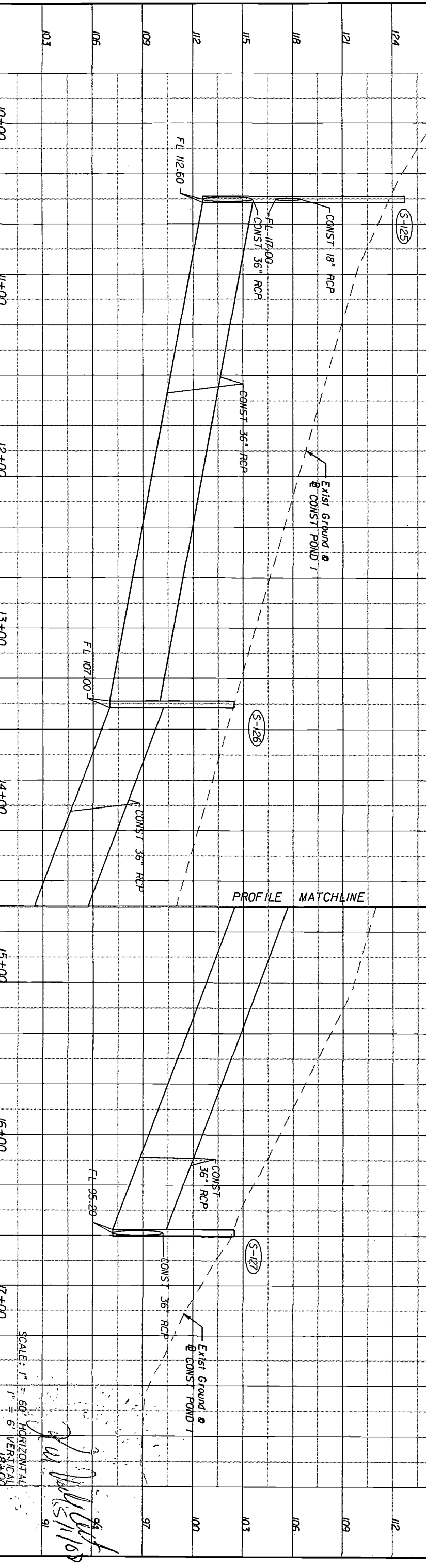
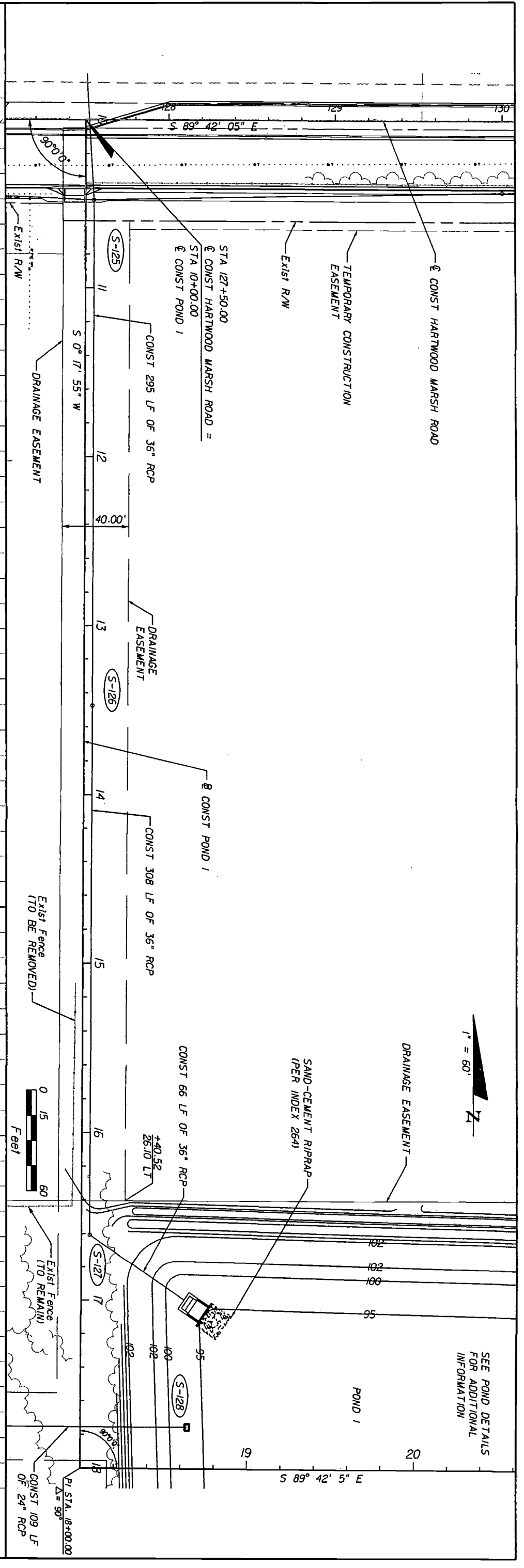
MT/SCM

5/1/2008

118-48 AM

V:\KIM\00\WORK\LAKE\WMA\58-1\Draws\141561(0001)\V\118-48.dwg

SEE POND DETAILS FOR ADDITIONAL INFORMATION



SCALE: 1" = 60' HORIZONTAL
1" = 5' VERTICAL

DATE: _____
BY: _____
DESCRIPTION: _____

REVISIONS

DATE	BY	DESCRIPTION

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

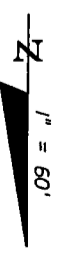
LAKE COUNTY
FLORIDA

HARTWOOD MARSH ROAD - PHASE I

PLAN AND PROFILE POND 1 OUTFALL

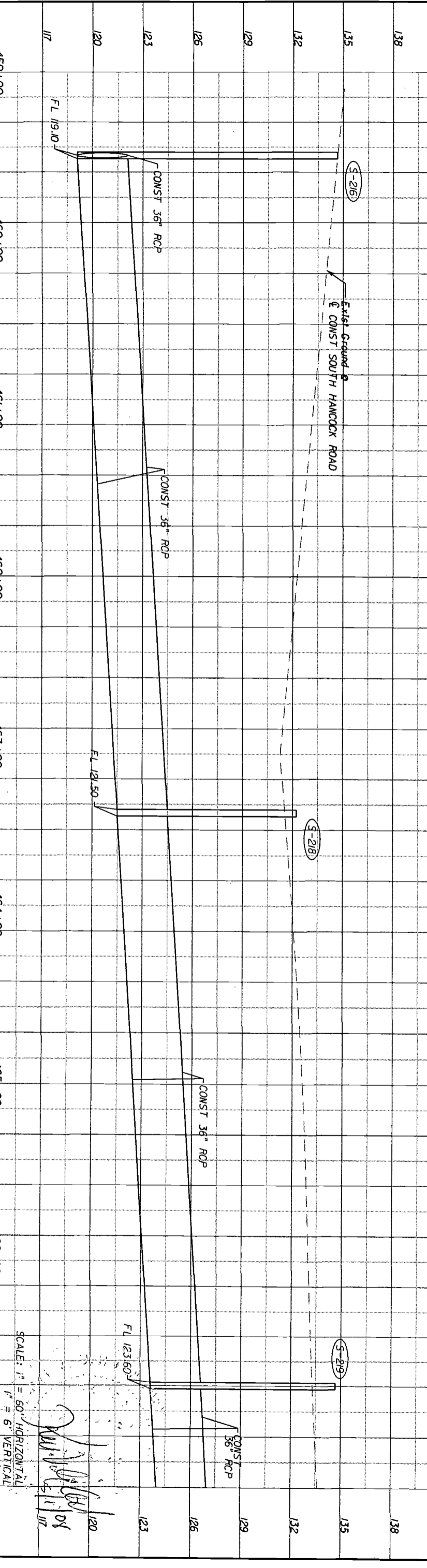
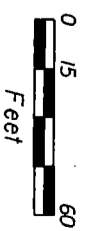
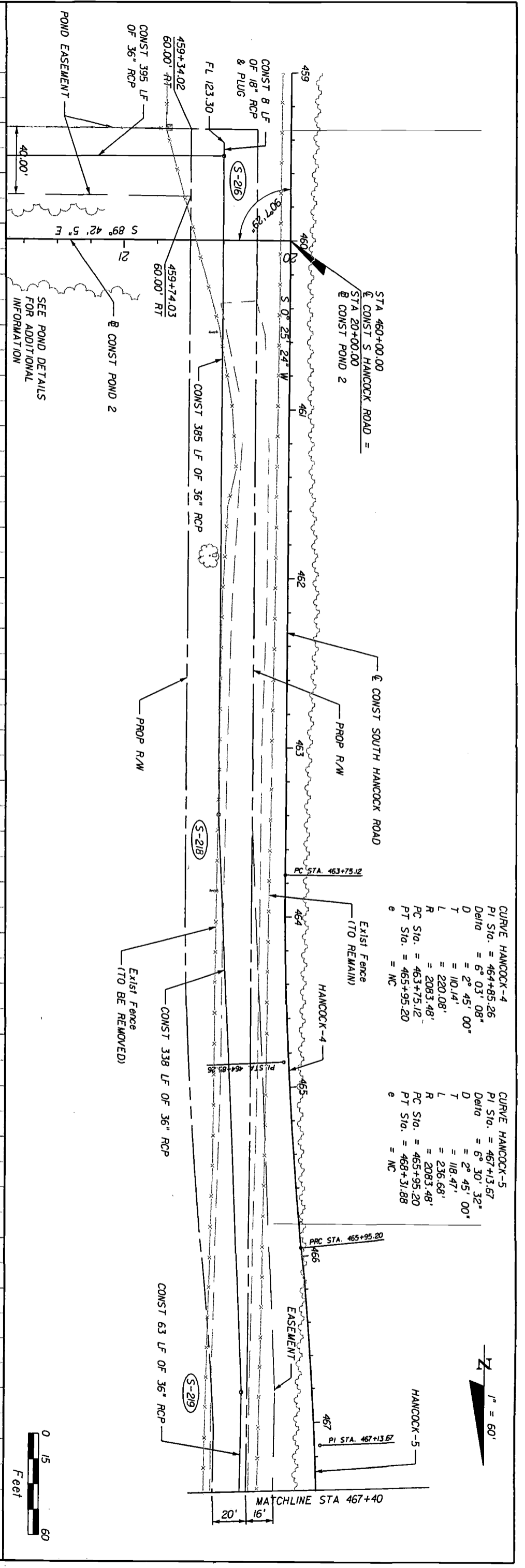
SHEET NO. **88**

5/1/2008 9:48:09 AM \\LAKWOOD\dmv\of\works\1561-Phase I\156100001\Drawings\Road\01.dwg



CURVE HANCOCK-4
 PI Sta. = 464+85.26
 Delta = 6° 03' 08"
 D = 2° 45' 00"
 T = 110.14'
 L = 220.08'
 R = 2083.48'
 PC Sta. = 463+75.12
 PT Sta. = 465+95.20
 e = NC

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



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

Handwritten signature and date: 11/17

DATE	BY	REVISIONS
		DESCRIPTION

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

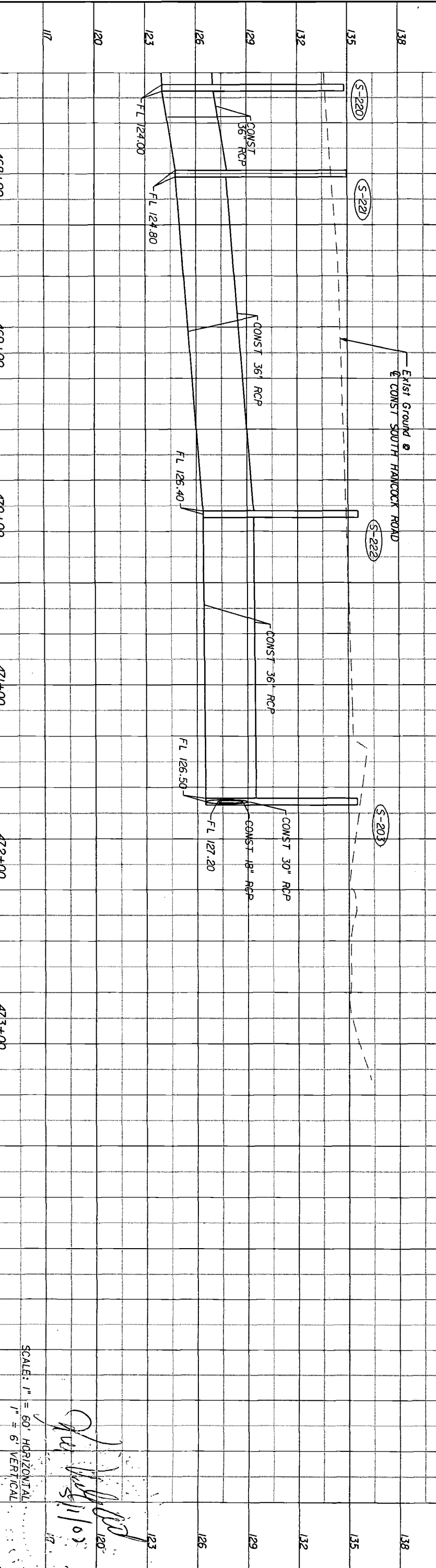
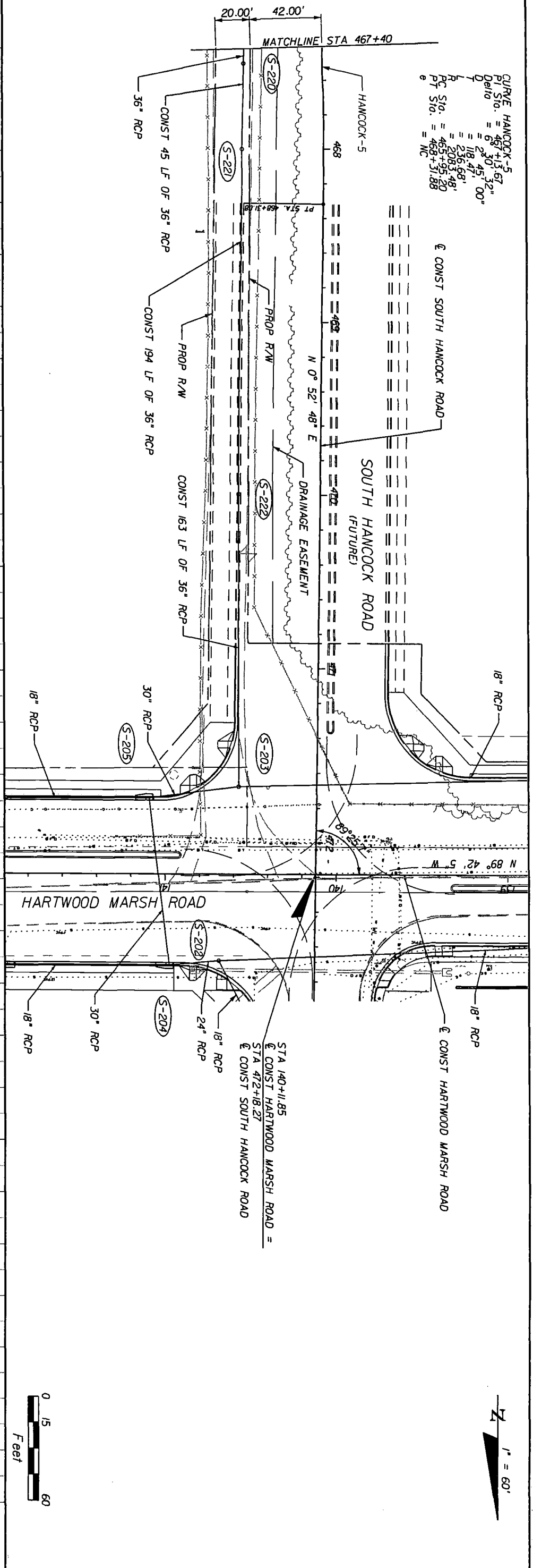
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

PLAN AND PROFILE
 POND 2 OUTFALL

SHEET NO. 89

CURVE HANCOCK-5
 PI Sta. = 467+13.67"
 Del'd = 6° 30' 32"
 D = 2845.00'
 T = 118.47'
 L = 236.68'
 PC Sta. = 465+95.20'
 PT Sta. = 468+31.88'
 = NC



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

Handwritten signature and date: 5/11/08

DATE	BR	REVISIONS	DESCRIPTION

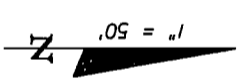
HNTB HNTB CORPORATION 300 PRIMAVERA BLVD. SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN W. VAN DEN ANONT, P.E. FL. REGISTRATION NO. 44794	 LAKE COUNTY FLORIDA	HARTWOOD MARSH ROAD - PHASE I	PLAN AND PROFILE POND 2 OUTFALL
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SHEET NO.	90
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SEE LATERAL OUTFALL SHEETS FOR ADDITIONAL INFORMATION

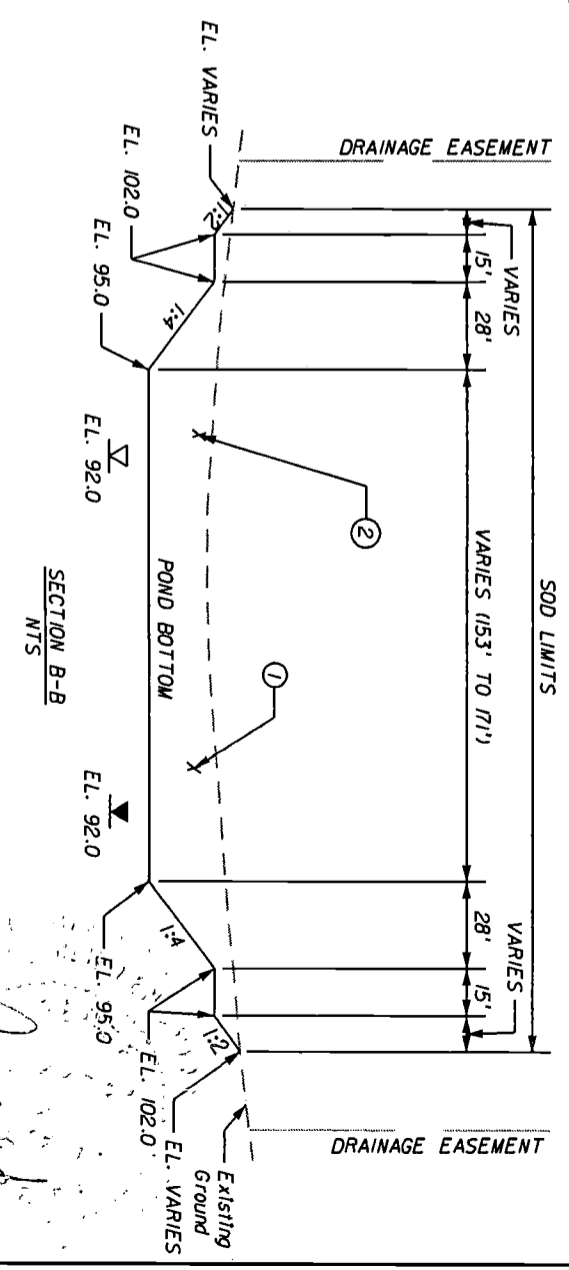
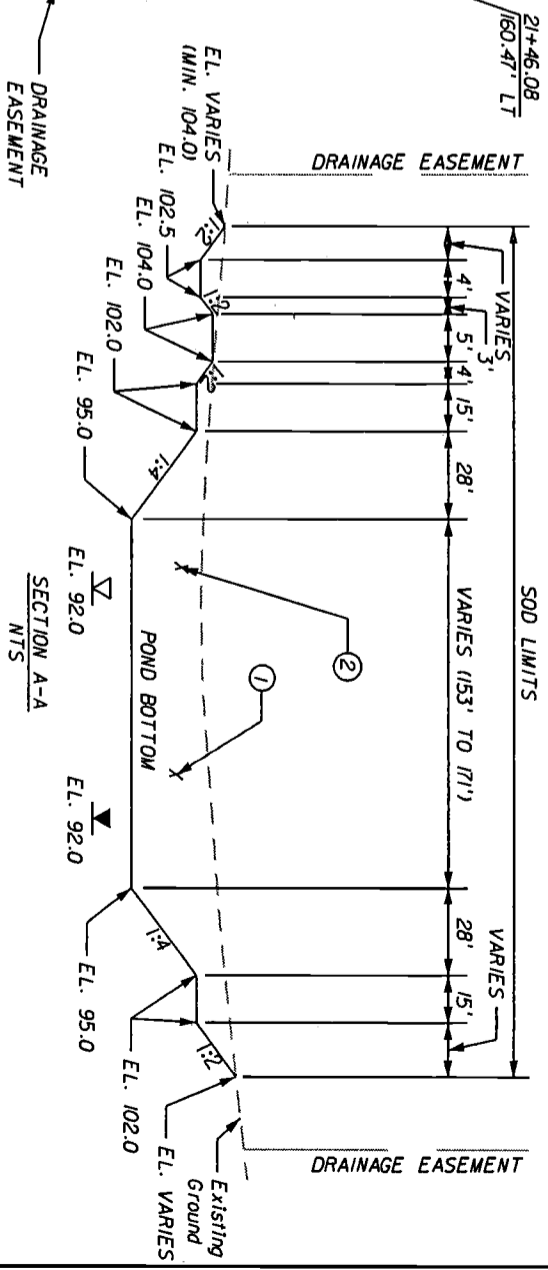
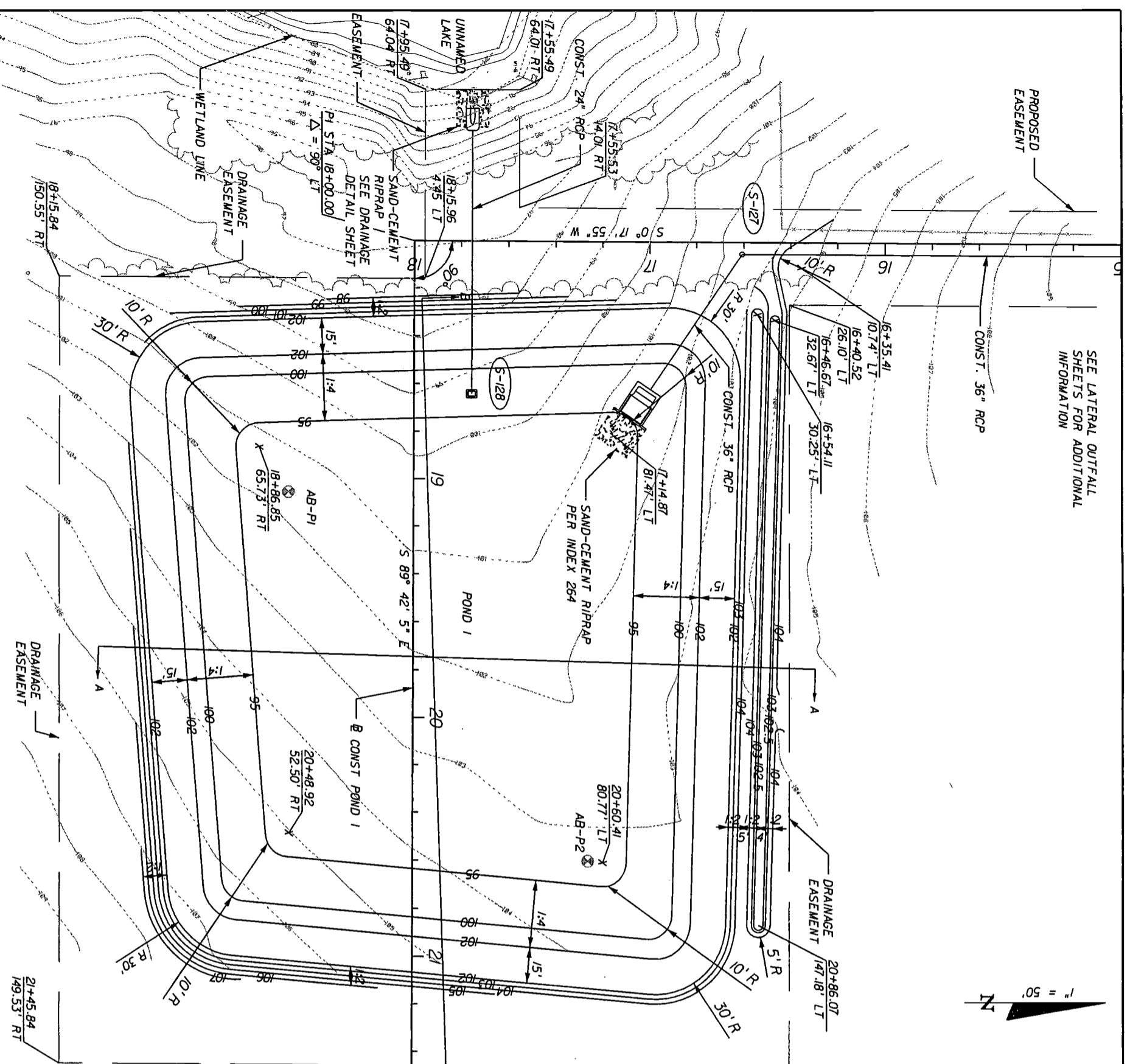
PROPOSED EASEMENT

CONST. 36" RCP



POND 1	
① WATER QUALITY	EL. 96.69
② 25 YR/96 HR DHW	EL. 99.15

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇
 2. AVERAGE ENCOUNTERED WATER TABLE
 3. APPROXIMATE LOCATION OF THE BORING
 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.



[Handwritten signature]

DATE	BR	REVISIONS DESCRIPTION

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

LAKE COUNTY
FLORIDA

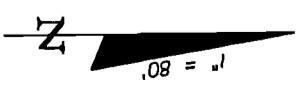
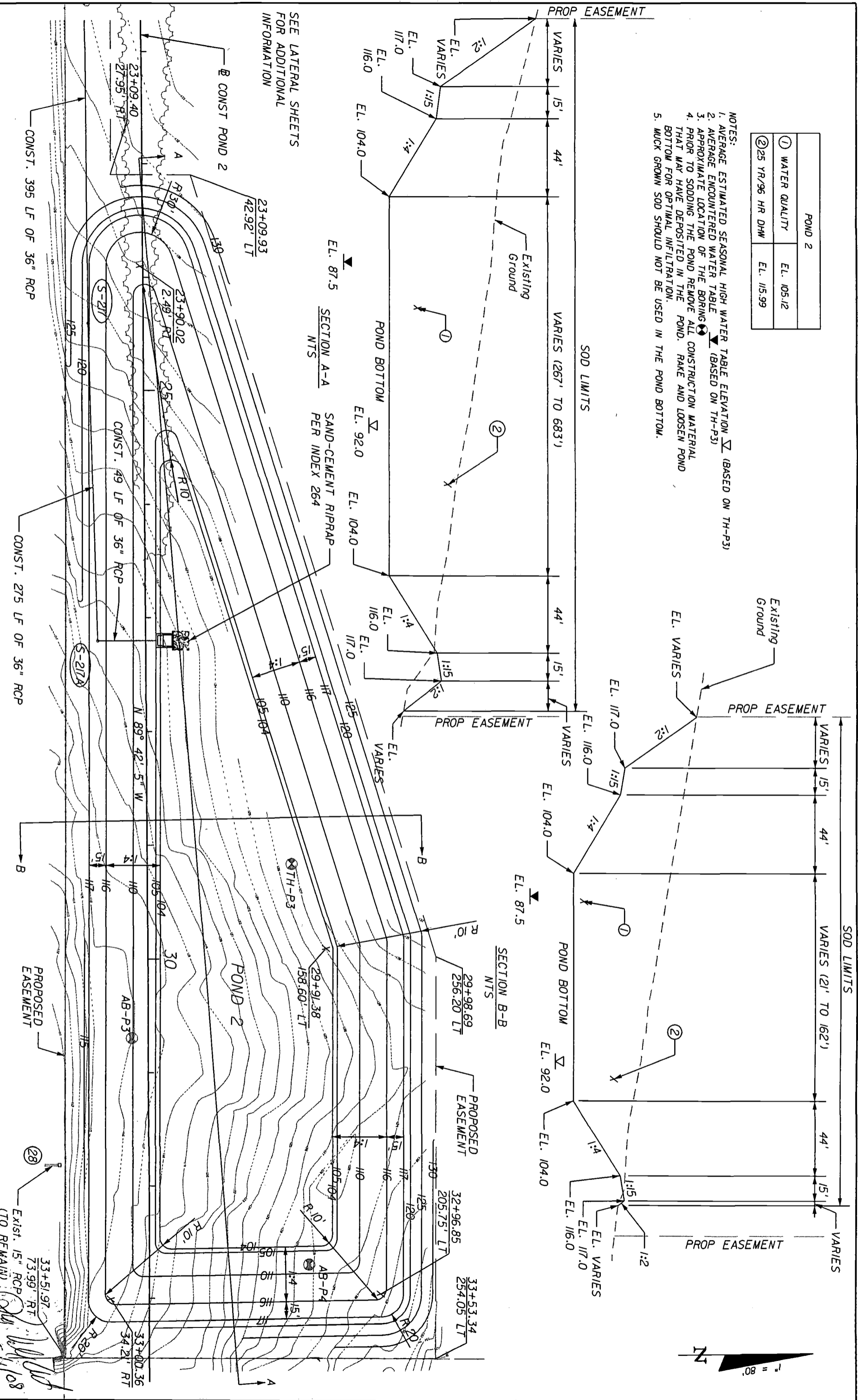
HARTWOOD MARSH
ROAD - PHASE I

POND DETAIL SHEET
POND 1

SHEET NO. 91

POND 2	
① WATER QUALITY	EL. 105.12
② 25 YR/96 HR DFM	EL. 115.99

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇ (BASED ON TH-P3)
 2. AVERAGE ENCOUNTERED WATER TABLE ∇ (BASED ON TH-P3)
 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.



SEE LATERAL SHEETS FOR ADDITIONAL INFORMATION

SECTION A-A SAND-CEMENT RIPRAP PER INDEX 264 NTS

SECTION B-B NTS

DATE	BR	DESCRIPTION

REVISIONS

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

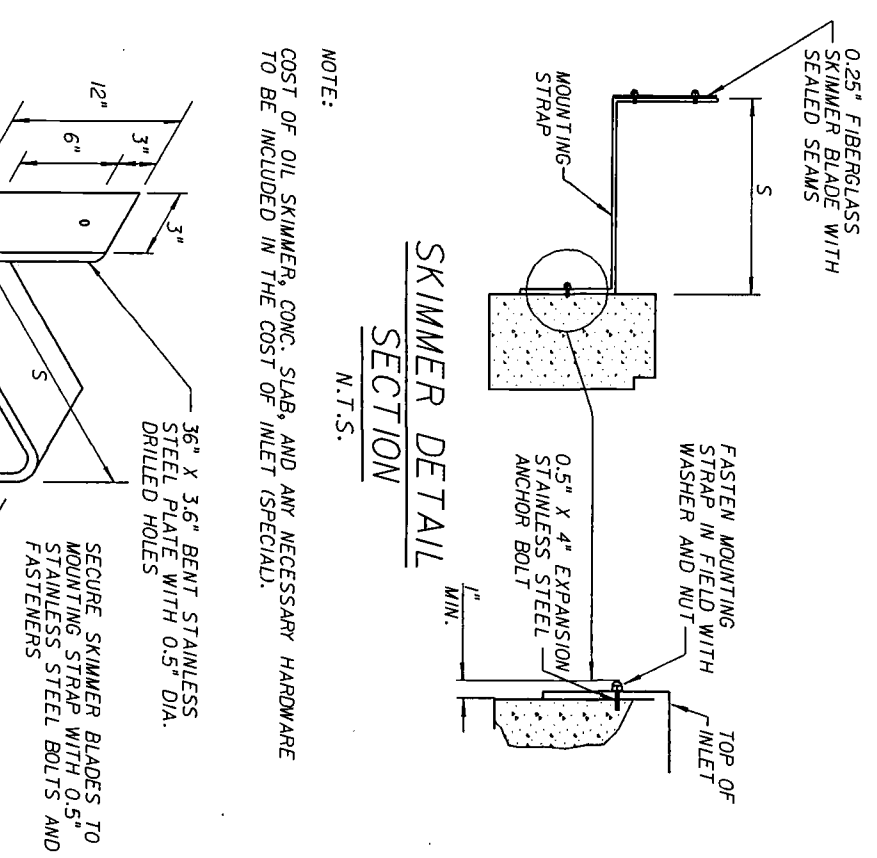
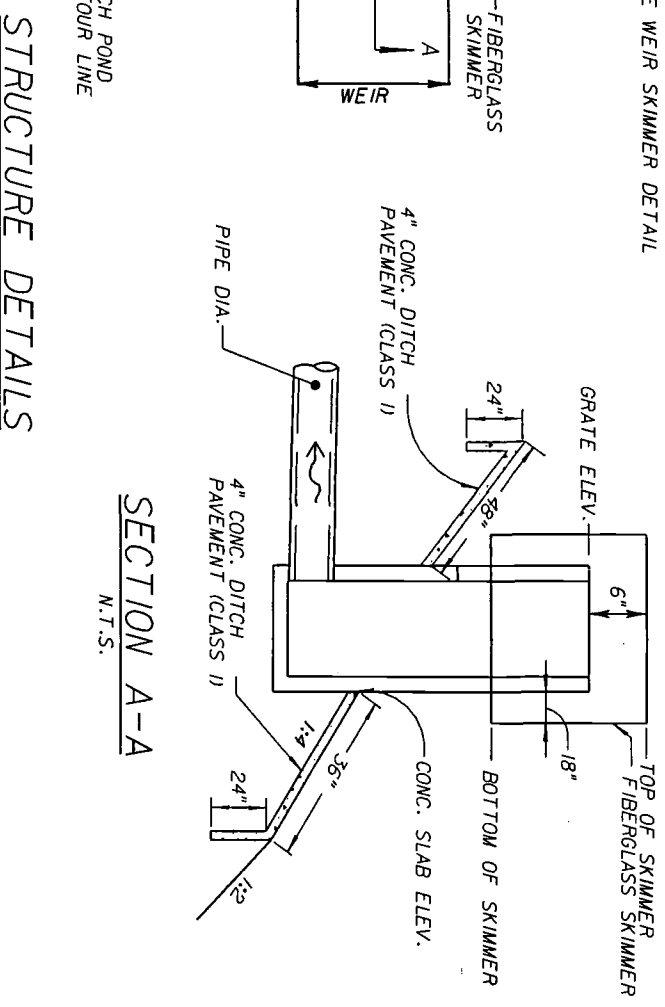
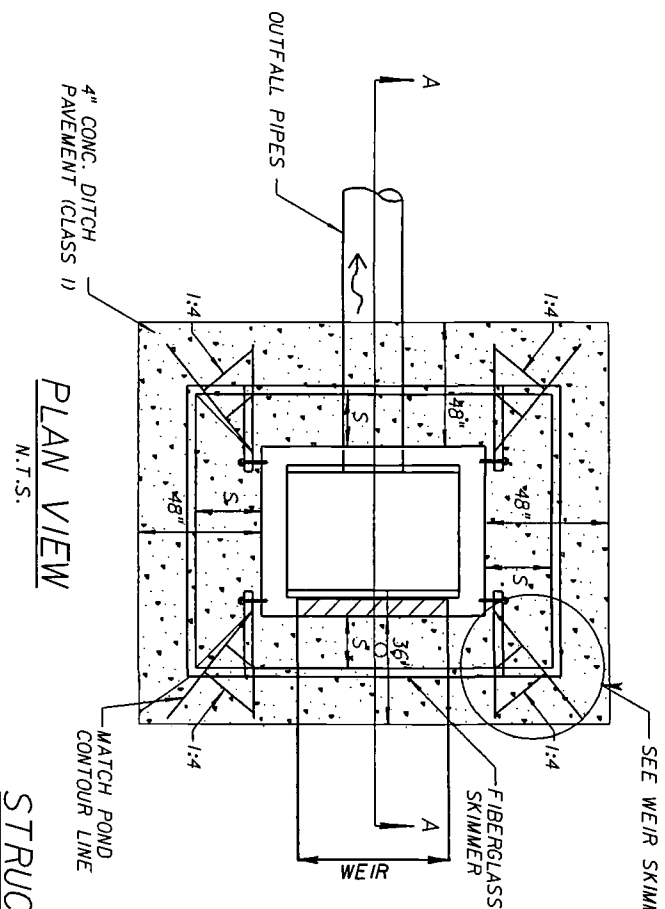
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

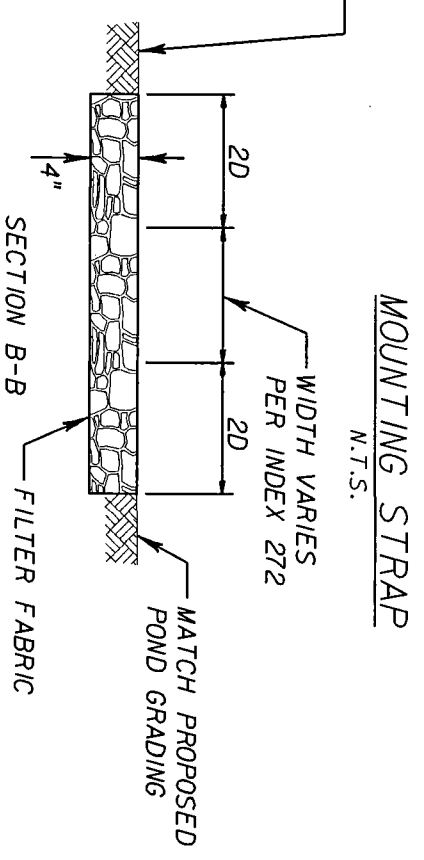
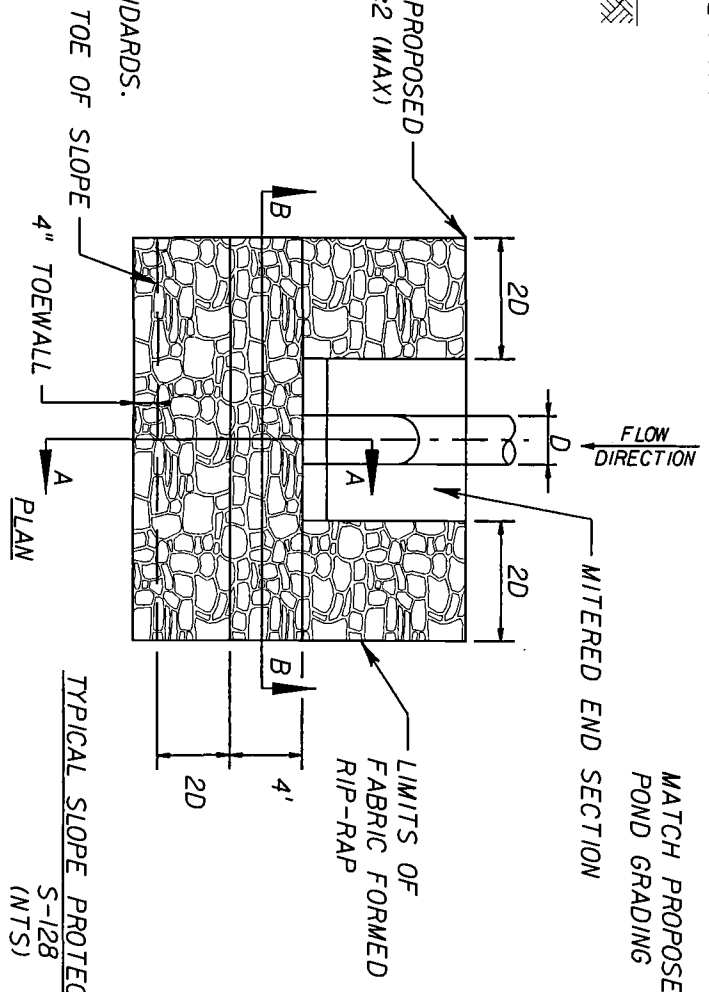
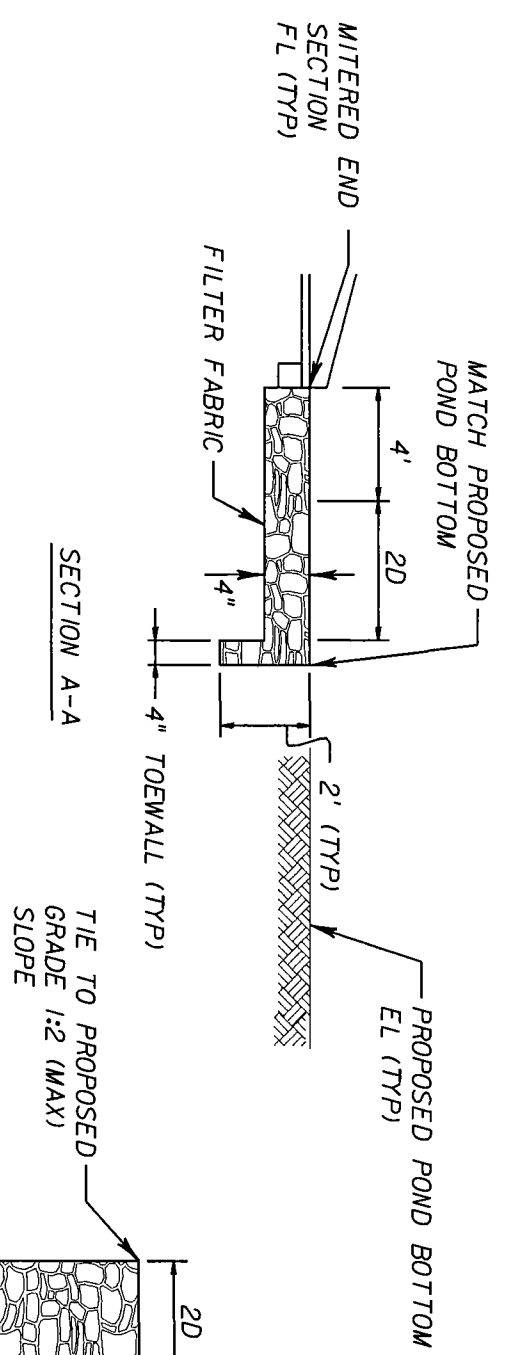
POND DETAIL SHEET
 POND 2

SHEET NO. 92

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)	CLASS I CONC. (SY)
		STATION	OFFSET												
S-128	1	17+75.50	64.13 (LT)	DBI TYPE "C" MODIFIED	18"	97.5	97.5	NA	NA	98.0	97.0	NA	NA	24"	10.4



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



*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
HNTB CORPORATION
300 PRIMERNA BLVD.
SUITE 200
LAKE WARE, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 5500
ENGINEER OF RECORD: KAREN M. VAN DEN ANONT, P.E.
FL REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

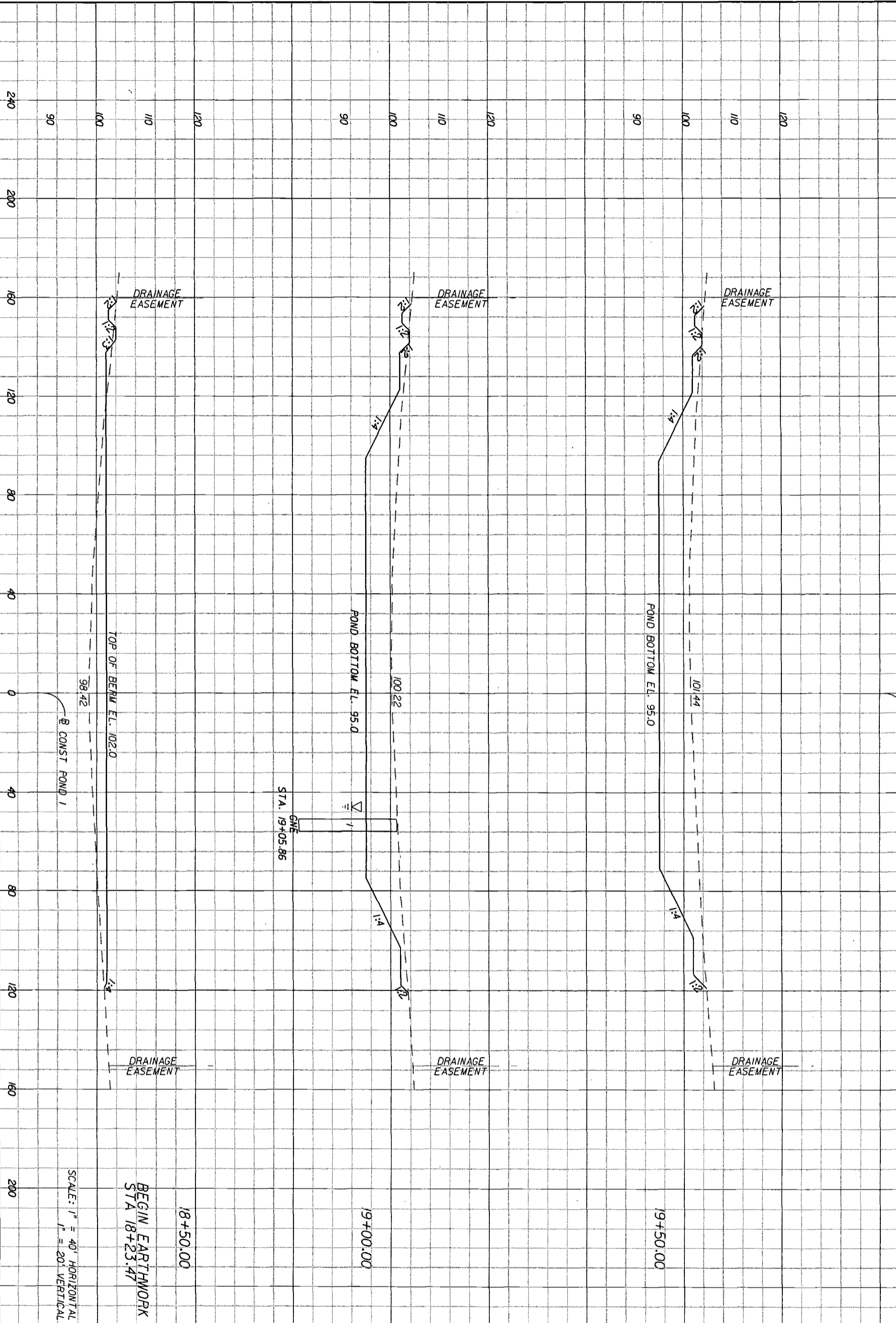
HARTWOOD MARSH
ROAD - PHASE I

DRAINAGE DETAILS

SHEET NO. **02A**

John W. Wolf
5/1/88

Regular Exc. Embankment
 A V A V



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

BEGIN EARTHWORK
 STA 18+23.47

STA. 19+05.86
 GATE

POND BOTTOM EL. 95.0

POND BOTTOM EL. 95.0

TOP OF BERM EL. 102.0

CONST POND 1

CONST POND 1

DATE	BR	REVISIONS
		DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PHOENIX BLVD.
 SUITE 200
 LAKE WALKER, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6590
 ENGINEER OF RECORD: KAREN M. VAN DEN ANOIT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

CROSS SECTIONS
POND 1

SHEET NO. 93

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 5/11/08

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Regular Exc. Embankment

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

END EARTHWORK
STA 21+23.15

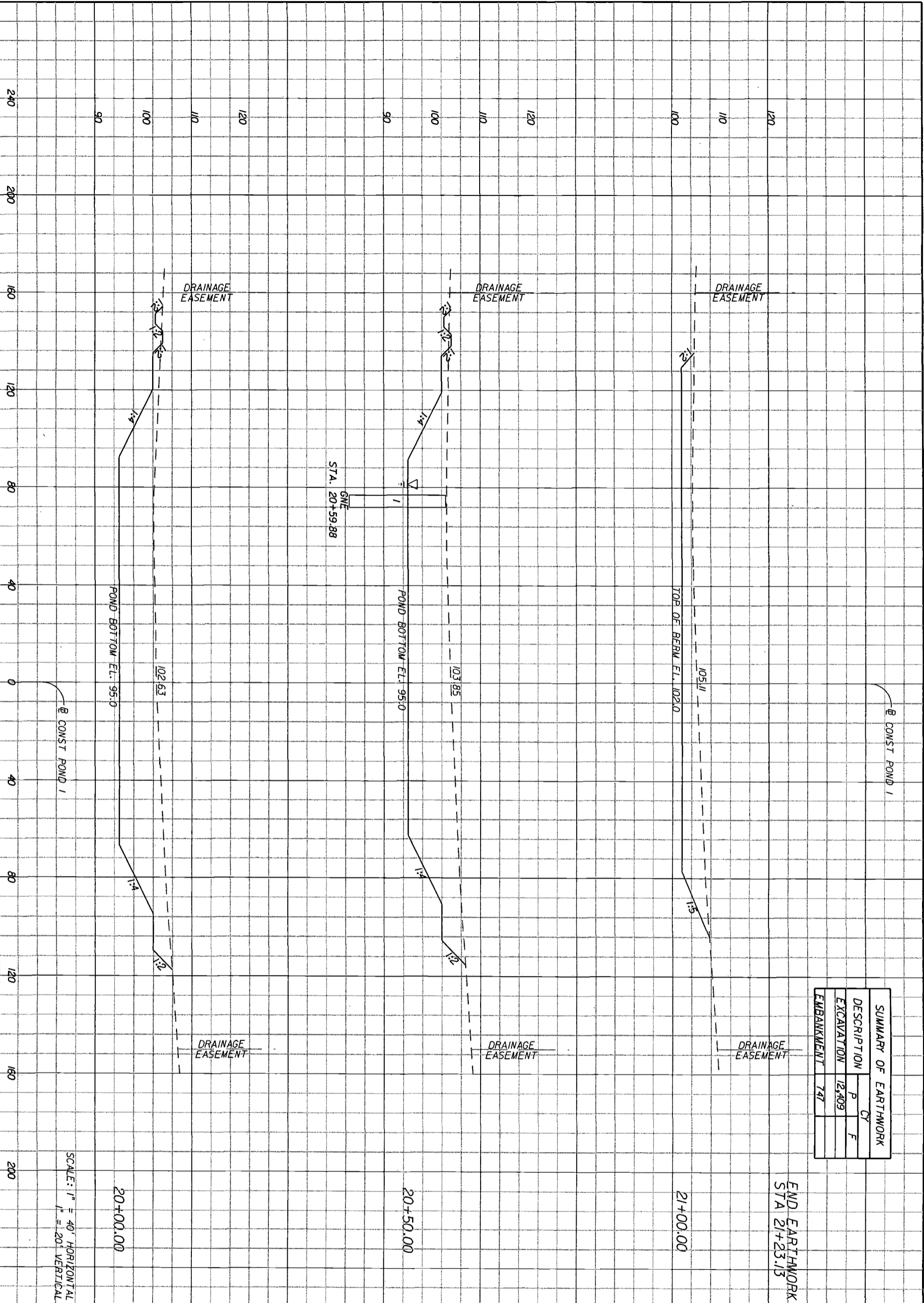
21+00.00

20+50.00

20+00.00

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

Station	Excavation (CY)	Embankment (CY)	Total (CY)
20+00.00	1641	2873	4514
20+50.00	1805	3191	4996
21+00.00	706	2325	3031



DATE	BY	REVISIONS DESCRIPTION

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

LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE I

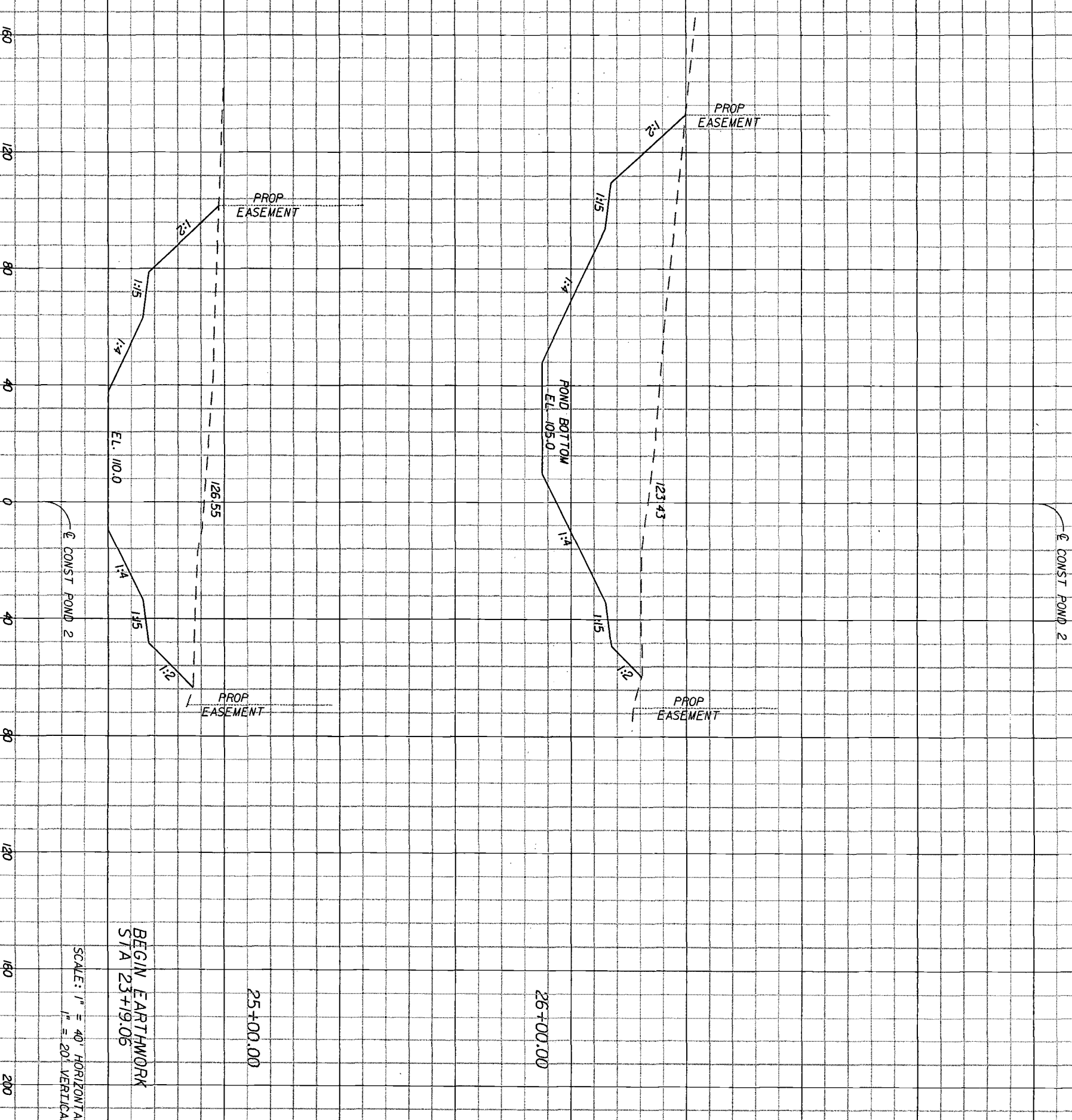
CROSS SECTIONS
POND 1

SHEET NO. 94

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Regular Exc.		Embankment	
A	V	A	V
0	0	0	0

2483	0	8290	0
25+00.00	0	6582	0
1994	0	0	0
0	0	0	0



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

BEGIN EARTHWORK
STA 23+19.06

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

LAKE COUNTY
FLORIDA

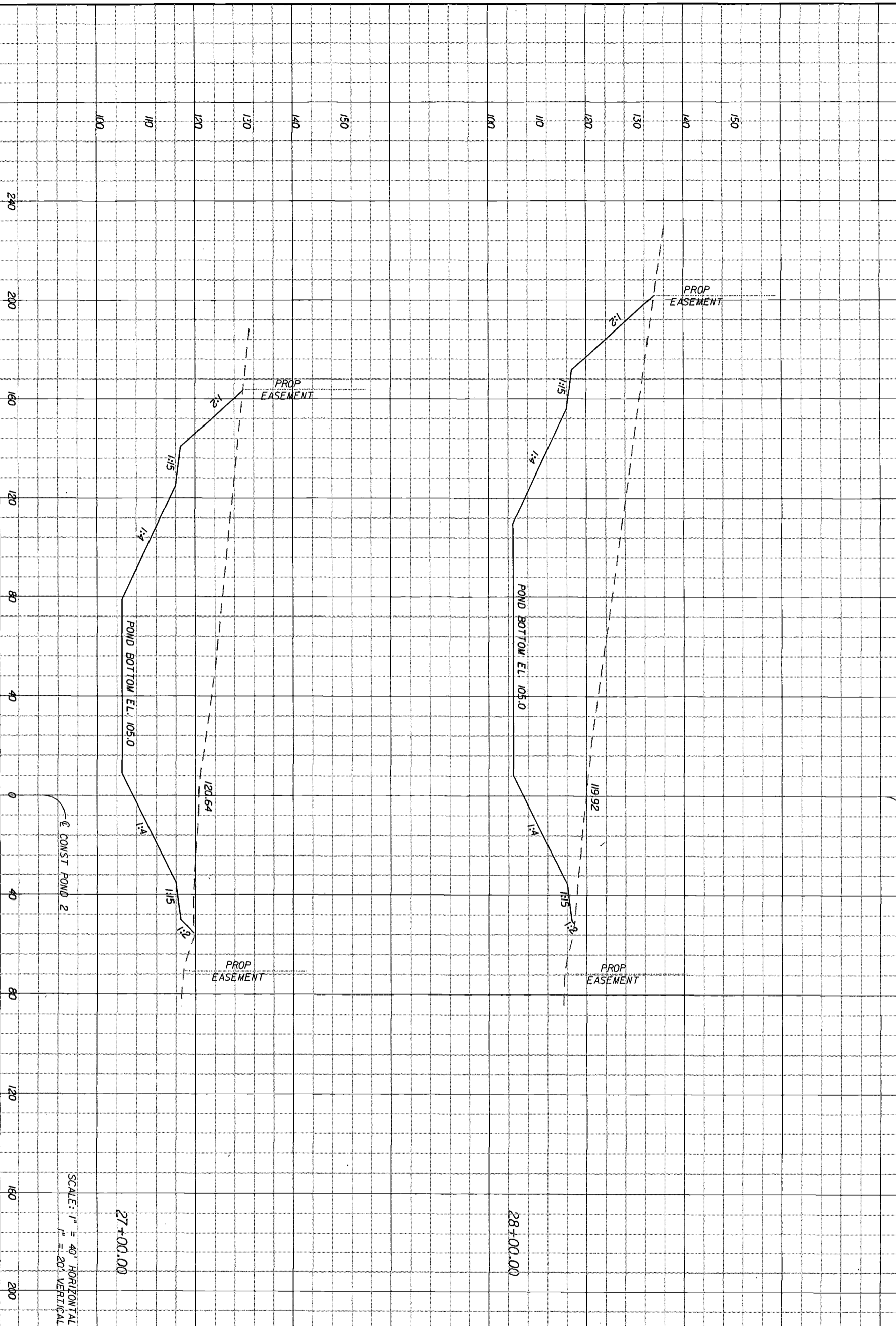
HARTWOOD MARSH
ROAD - PHASE I

CROSS SECTIONS
POND 2

SHEET NO. 95

DATE	BY	REVISIONS
		DESCRIPTION

Regular Exc.		Embankment	
A	V	A	V



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

27+00.00

28+00.00

2840

3619

9856

11961

0

0

0

0

DATE	BY	REVISIONS DESCRIPTION

HNTB
HNTB CORPORATION
300 PHOENIX BLVD.
SUITE 200
LAKE WALKER, FL 32746
(407) 805-0355
CENT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44294

LAKE COUNTY
FLORIDA

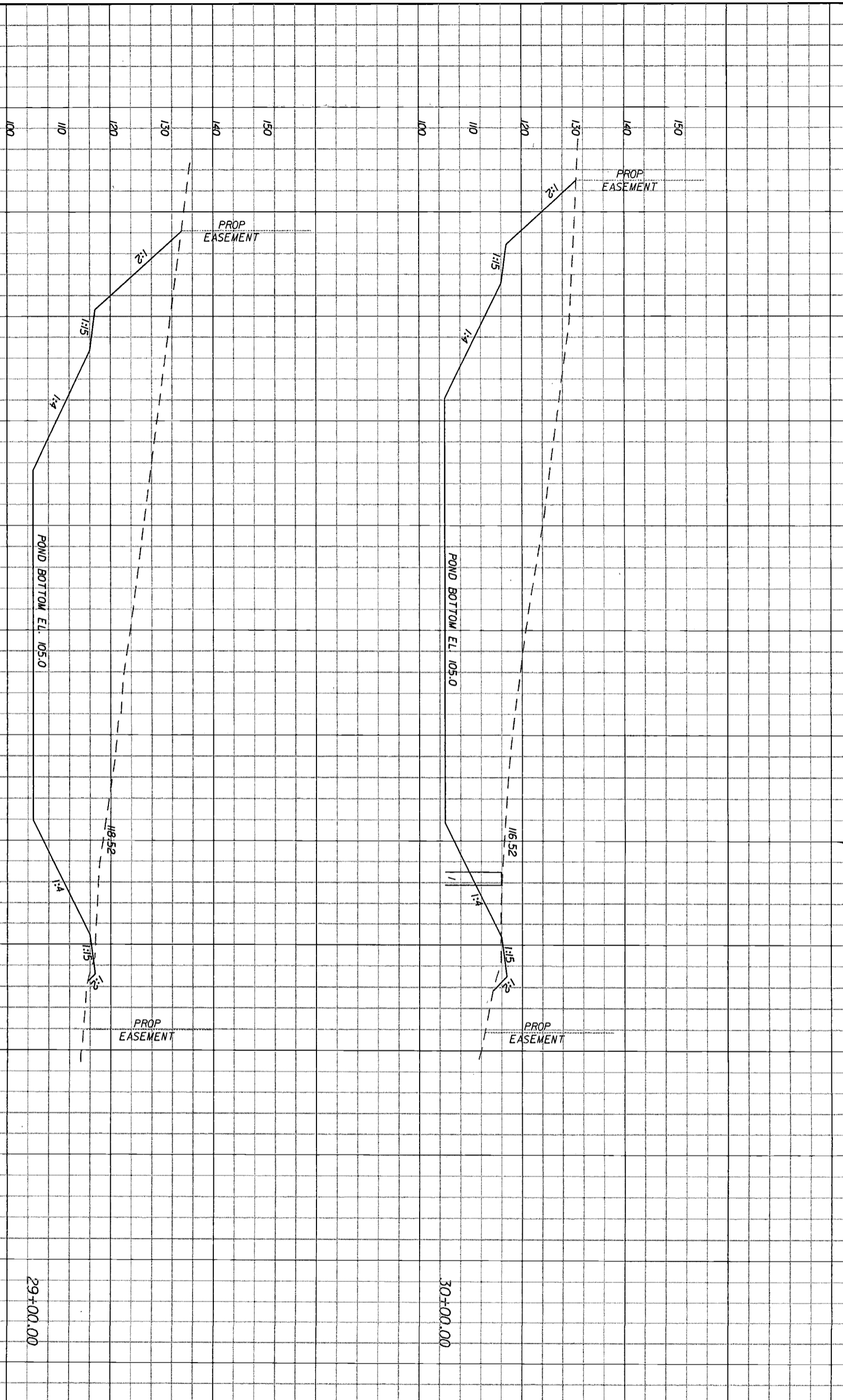
HARTWOOD MARSH
ROAD - PHASE I

CROSS SECTIONS
POND 2

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Regular	Exc.	Embankment
A	V	A V



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

DATE	BY	DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PENNACUA BLVD.
 SUITE 200
 LAKE WORTH, FL 32746
 (407) 865-7055
 CENT. OF ALTH. NO. 6500
 ENGINEER OF RECORD: KAREN M. VAN DEN AVONDT, P.E.
 FL REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

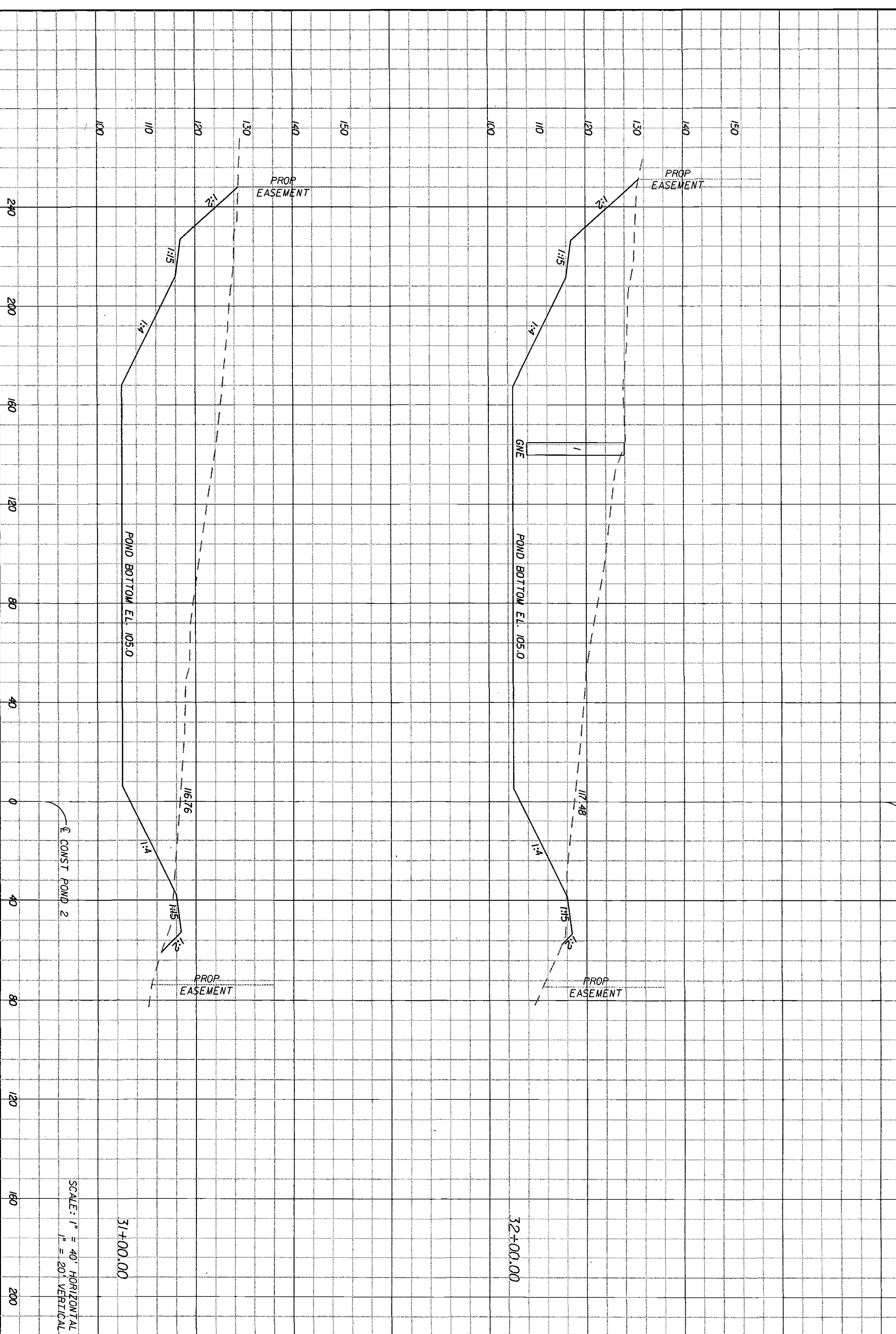
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 POND 2

SHEET NO. **97**

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Regular	Exc.	Embankment
A	V	A
		V



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

3772
14574
32
91

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32+00.00

439

14982

85

31+00.00

3772

14574

91

DATE	BY	REVISIONS	DESCRIPTION

HNTB
HNTB CORPORATION
300 PHOENIX BLVD.
SUITE 200
LAKE WALKER, FL 32746
(407) 805-0355
CENT. OF MATH. NO. 6500
ENGINEER OF RECORD: KAREN W. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE I

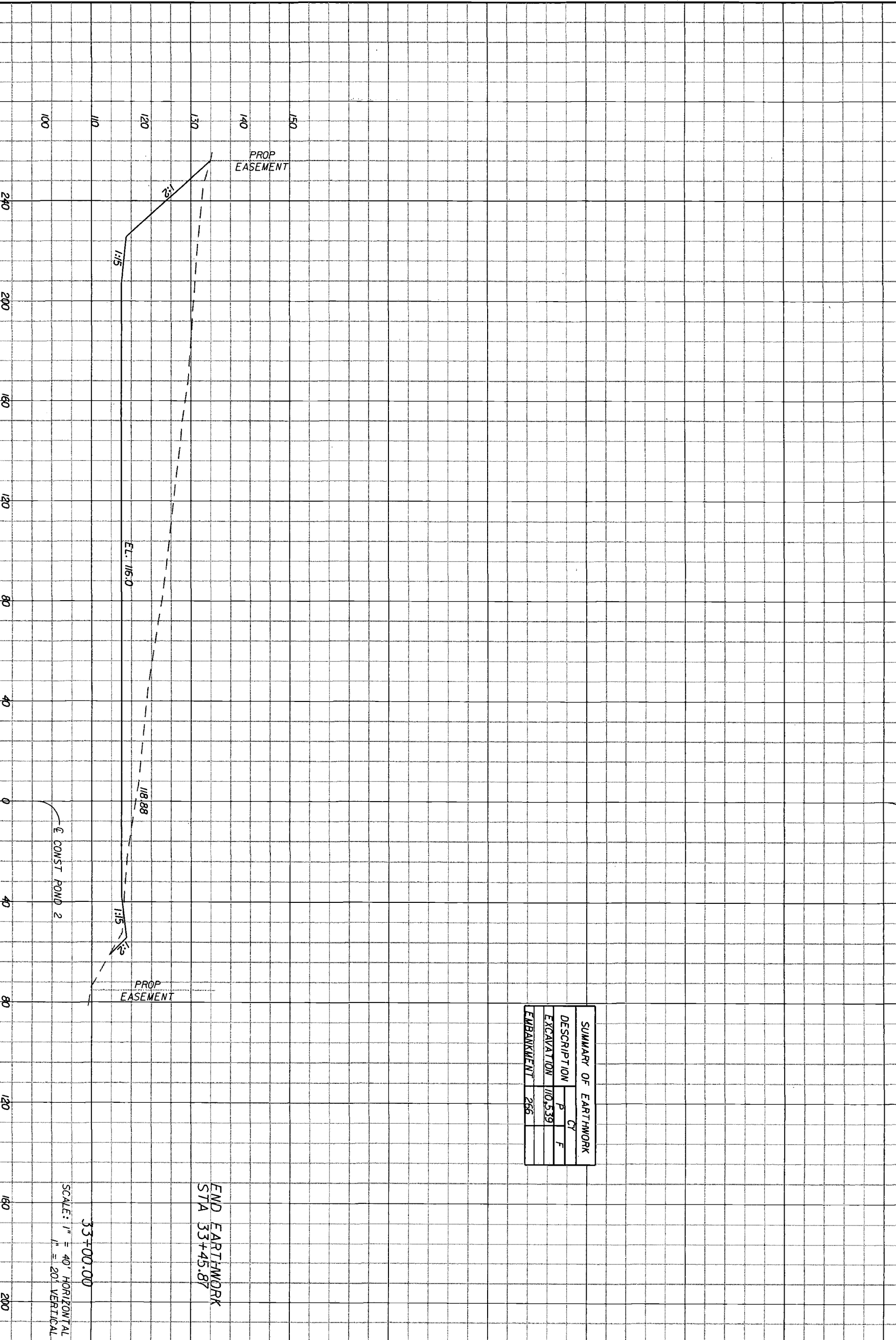
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POND 2

SHEET NO. **98**

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Regular Exc. Embankment
 A V A V

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



END EARTHWORK
 STA 33+45.87

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

2467

12566

44

[Handwritten Signature]
 4/1/08

DATE	BY	DESCRIPTION

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

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

CROSS SECTIONS
 POND 2

SHEET NO. 99

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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+21.72 CENTERLINE OF CONSTRUCTION, IN SECTIONS 9 & 10; TOWNSHIP 25 SOUTH; RANGE 26 EAST.

PROJECT DESCRIPTION
 THE CONSTRUCTION ACTIVITIES WILL TAKE PLACE OVER 1.19 MILE LENGTH OF HARTWOOD MARSH ROAD IN LAKE COUNTY. THE EXISTING ROADWAY BETWEEN US 27 AND 1500 FT. EAST OF S. HAMCOCK 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 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 ARDMAN & 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.

POND 1 DISCHARGES TO UNNAMED LAKE
 LATITUDE 28° 29' 51" LONGITUDE 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 "FOOT 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 SILING 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 "FOOT 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. STAGED 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
 --- BERMMS
 --- DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
 --- PIPE SLOPE DRAINS
 --- 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 DISCRETION 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 FOOT 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 "FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007), SECTION 104 AND "FOOT 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 FOOT 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.

DATE	BR	DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PRIMAVERA BLVD.
 SUITE 200
 LAKE WORTH, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6580
 ENGINEER OF RECORD: KAREN W. VAN DEN AMONT, P.E.
 FL. REGISTRATION NO. 44794



HARTWOOD MARSH
ROAD - PHASE I
 STORMWATER POLLUTION
PREVENTION PLAN

BEGIN PROJECT
STA. 103+29.11

STA. 109+66.25
= 0° 00' 00" RT

STA. 115+39.23
= 1° 00' 00" LT

SILT FENCE

CONST HARTWOOD MARSH ROAD

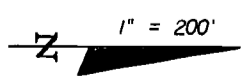
SILT FENCE

SILT FENCE

STAKED TURBIDITY BARRIER

UNNAMED LAKE

POND 1



MATCH LINE STA. 133+00

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



Handwritten signature and date: 5/11/08

DATE	BR	REVISIONS DESCRIPTION

HNTB
HNTB CORPORATION
300 PRUDERIA BLVD,
SUITE 300
LAKE HAVY, FL 32746
(407) 885-0355
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

EROSION CONTROL

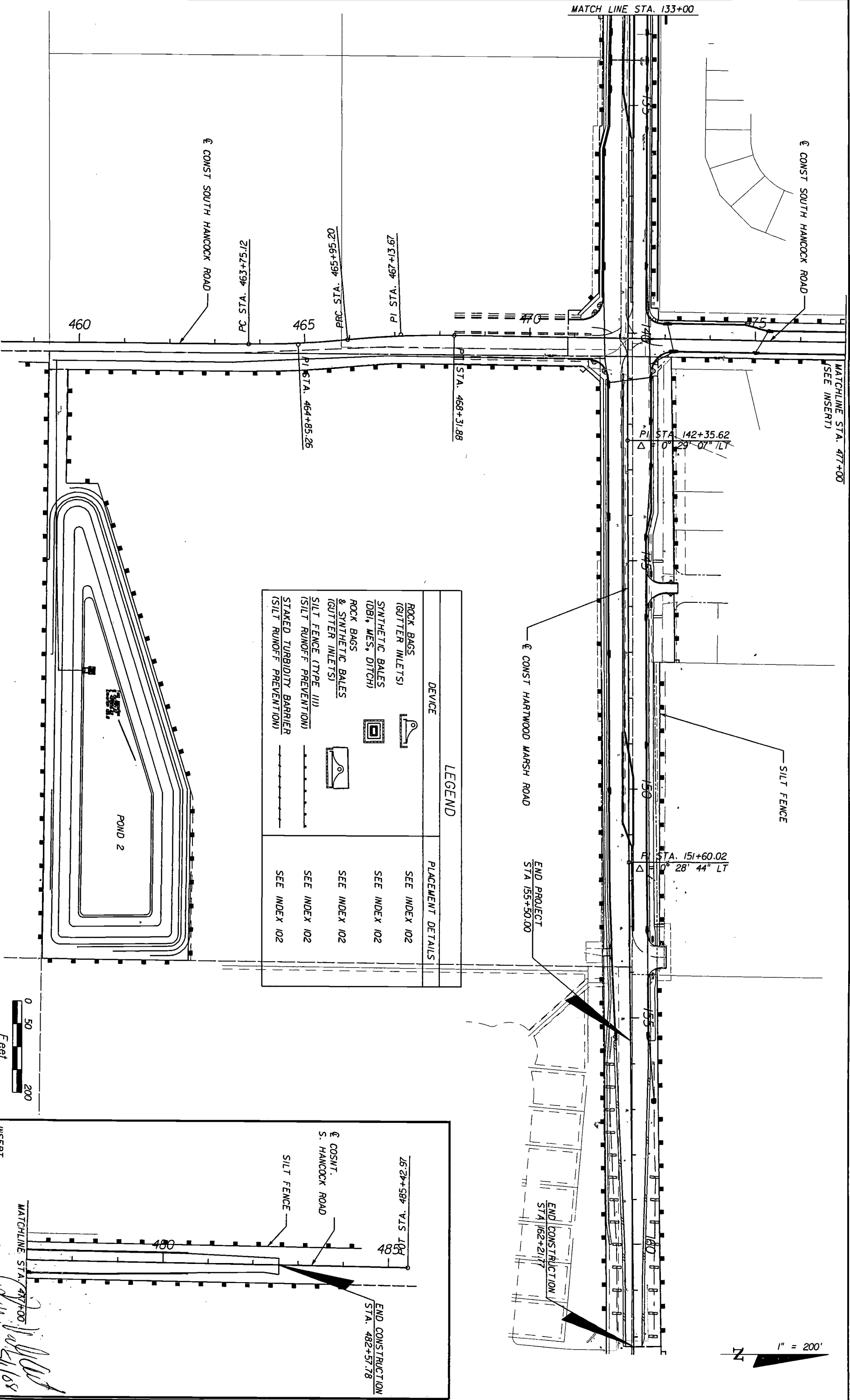
SHEET NO. 1009

5/11/2008 9:59:18 AM V:\KIM\7\00001\1\lake\1009-1\Phase I\EROSION\1009.dwg

MATCH LINE STA. 133+00

CONST SOUTH HANCOCK ROAD

MATCHLINE STA. 477+00
(SEE INSERT)



DEVICE	LEGEND	PLACEMENT DETAILS
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

CONST SOUTH HANCOCK ROAD

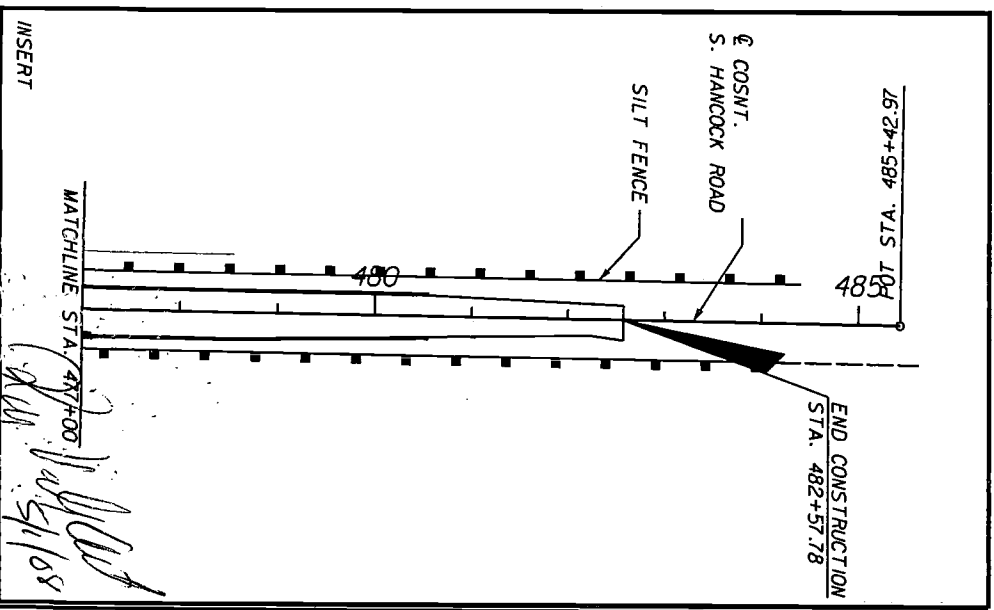
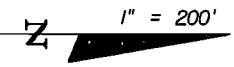
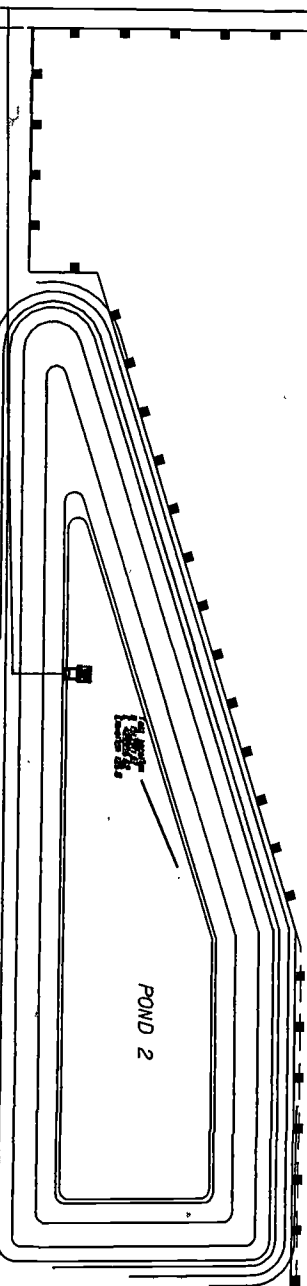
PC STA. 463+75.12

PRC STA. 465+95.20

PI STA. 467+13.67

PI STA. 464+85.26

STA. 468+31.88



DATE: 10/5/08

BY: [Signature]

DATE	BY	REVISIONS
		DESCRIPTION

HNTB

HNTB CORPORATION
300 PENNACCA BLVD.
SUITE 200
LAKE WORTH, FL 32746
407 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: KAREN W. VAN DEN AVONT, P.E.
FL. REGISTRATION NO. 44794

LAKE COUNTY

FLORIDA

HARTWOOD MARSH ROAD - PHASE I

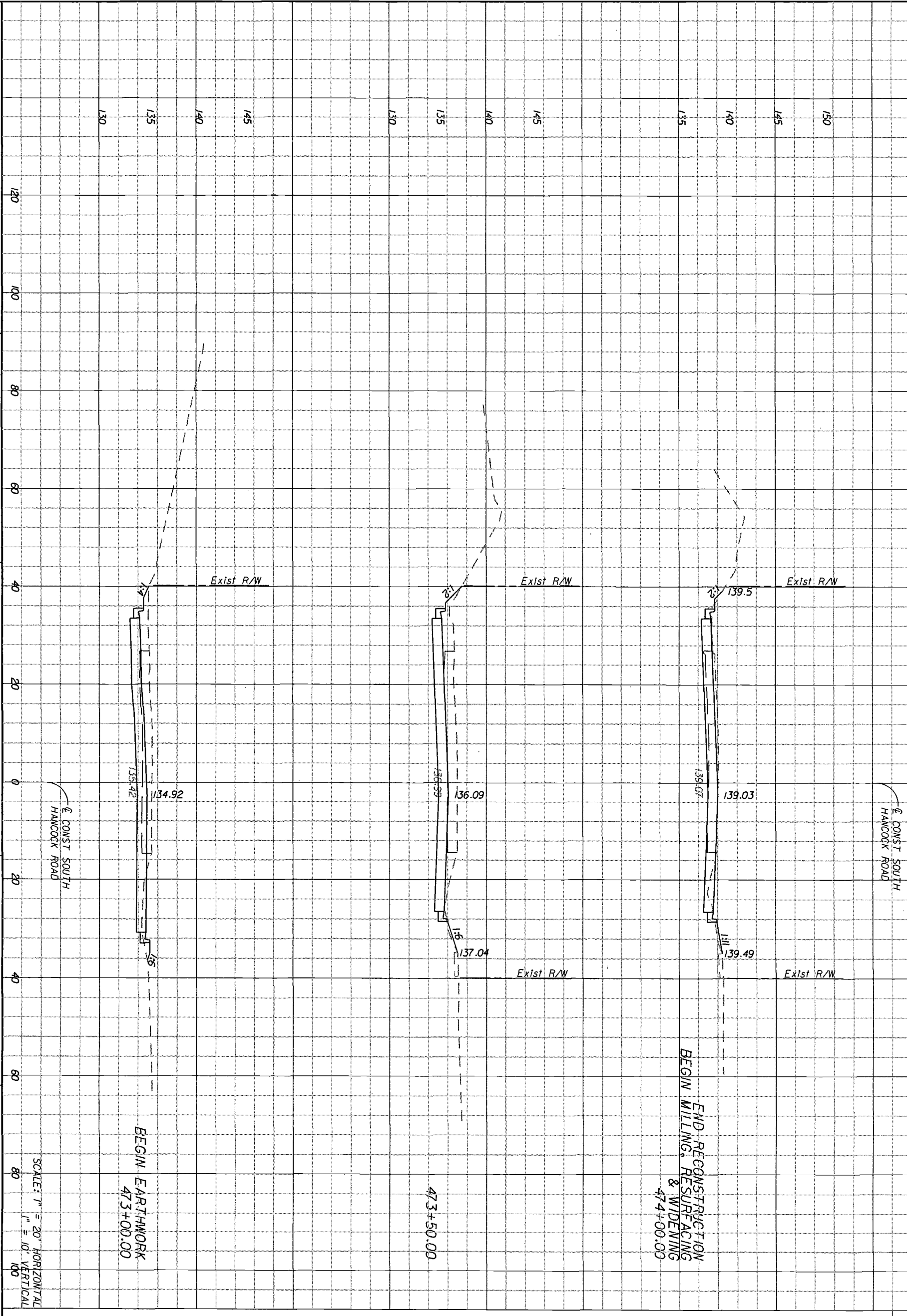
EROSION CONTROL

SHEET NO. 100B

5/11/2008

9:56:08 AM

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

100
122
206
176
2
1

Handwritten signature and initials

REVISIONS

DATE	BY	DESCRIPTION

HNTB
HNTB CORPORATION
300 PRIMA BLVD.,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6900
ENGINEER OF RECORD: KAREN M. VAN DEN NORT, P.E.
FL. REGISTRATION NO. 44794

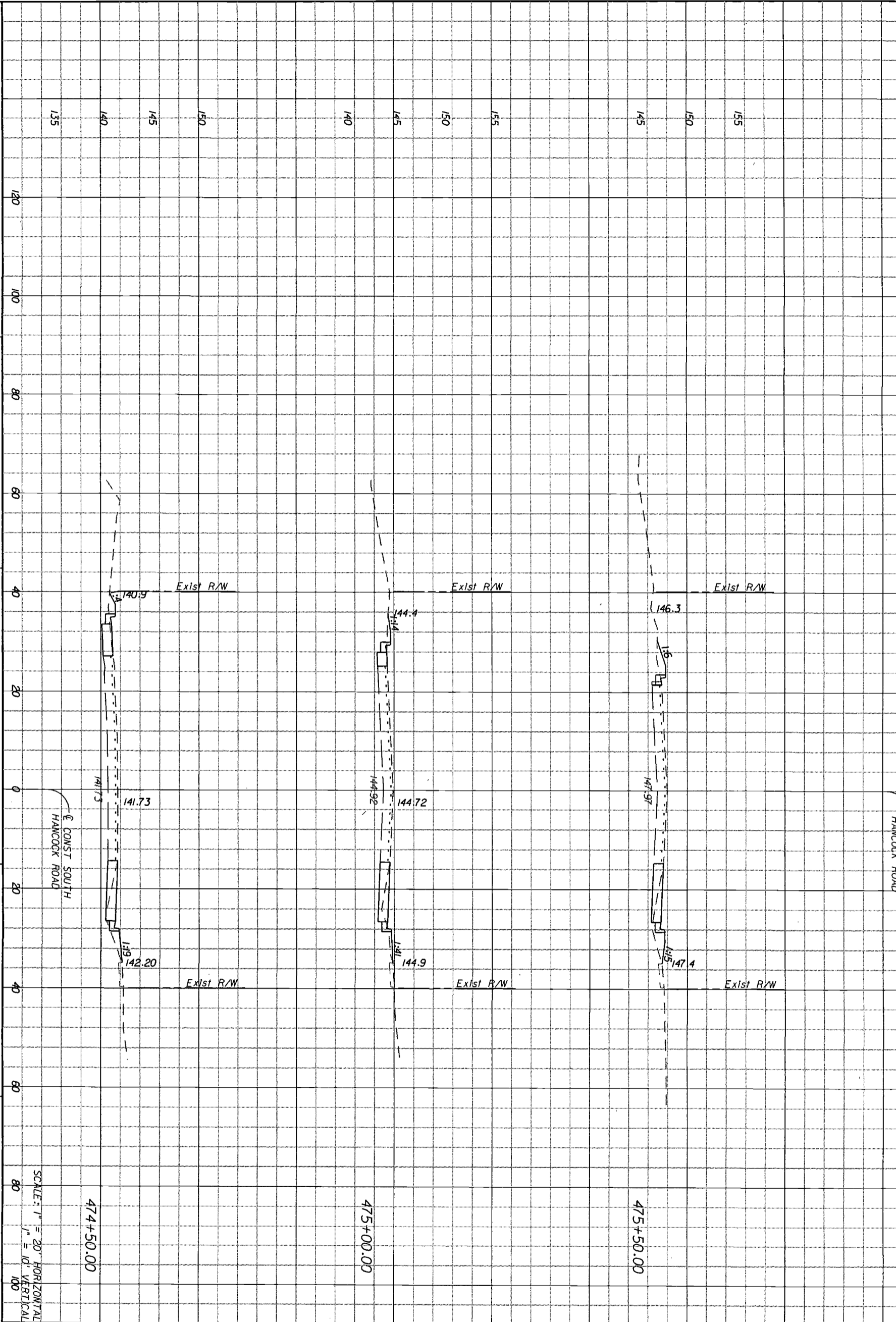
LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE I

CROSS SECTIONS
SOUTH HANCOCK ROAD
SHEET NO. 149

Regular Exc. Embankment

A V A V



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

DATE	BY	REVISIONS DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PALMERA BLVD.
 SUITE 200
 LAKE WALKER, FL 32746
 (407) 805-0355
 CERT. OF M/T/H. NO. 6500
 ENGINEER OF RECORD: KAREN W. VAN DEN ANONT, P.E.
 FL. REGISTRATION NO. 44794

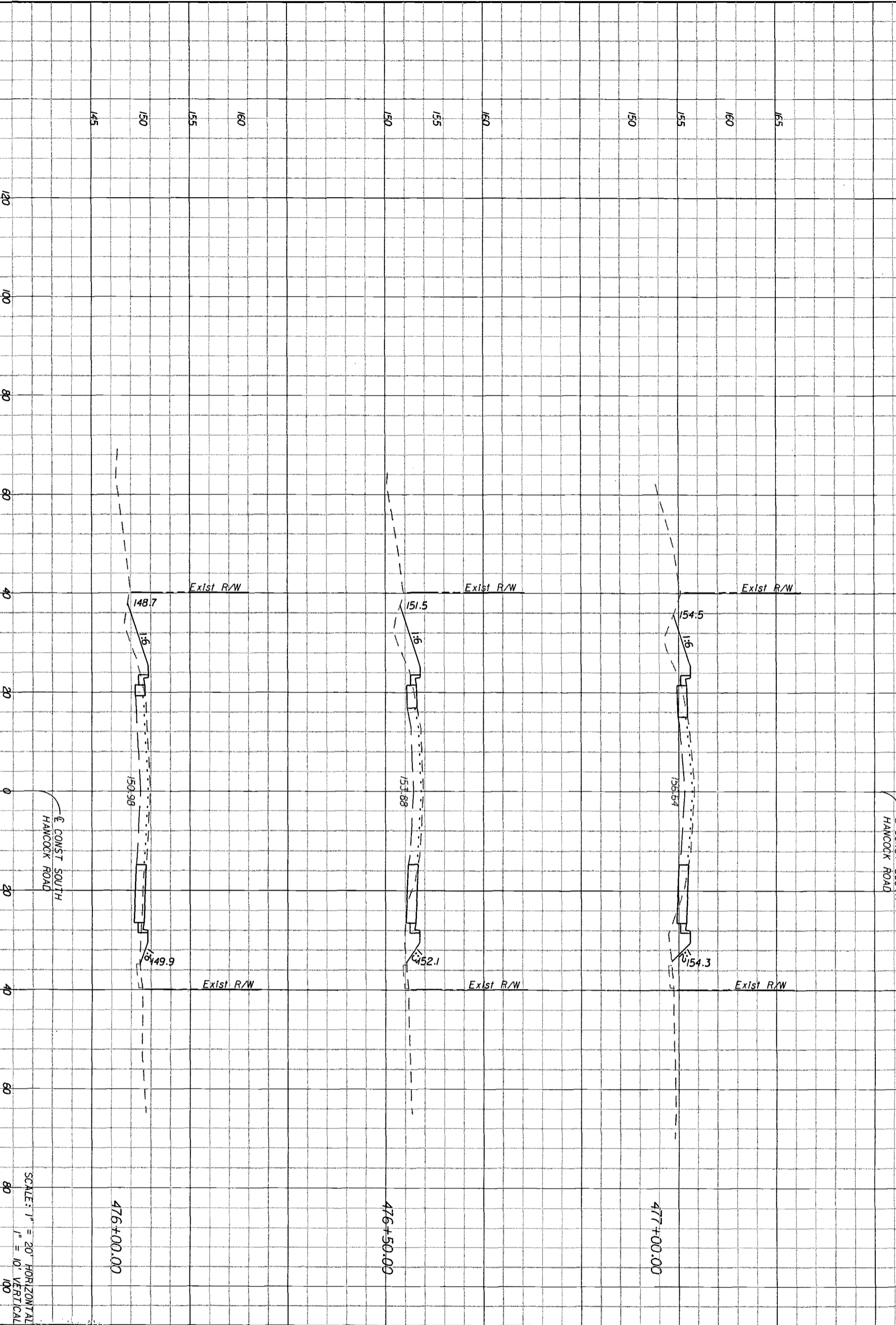
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

CROSS SECTIONS
 SOUTH HANCOCK ROAD
 SHEET NO. 150

Handwritten signature and date: 8/11/08

Regular Exc. Embankment
 A V A V



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

15
 19
 15
 22
 5/1/08

DATE	BY	REVISIONS DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PRIMAVERA BLVD.
 SUITE 200
 LAKE WORTH, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 65800
 ENGINEER OF RECORD: KAREN W. VAN DEN ANOIT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

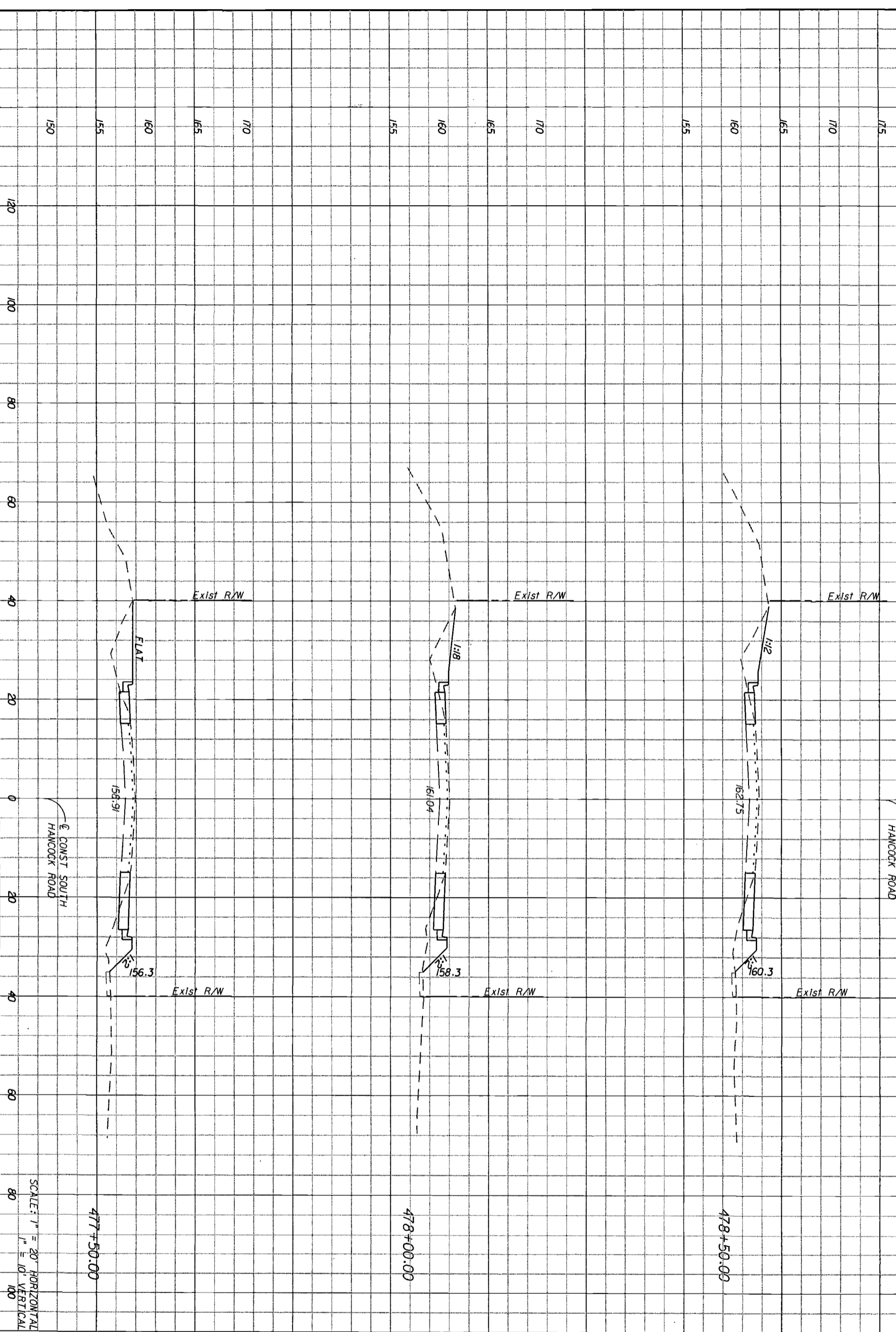
HARTWOOD MARSH
 ROAD - PHASE I

CROSS SECTIONS
 SOUTH HANCOCK ROAD

SHEET NO. 151

5/1/2008 9:41:36 AM \\LAKWOOD\dmort\c\l\bas\vis\51-1\Phase I\415501\8371\ROADWAY\ASBTE\50771\SAP

Regular Exc. Embankment
 A V A V



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

DATE: 5/1/2008
 BR: M/SCW
 REVISIONS: 17, 11/108

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

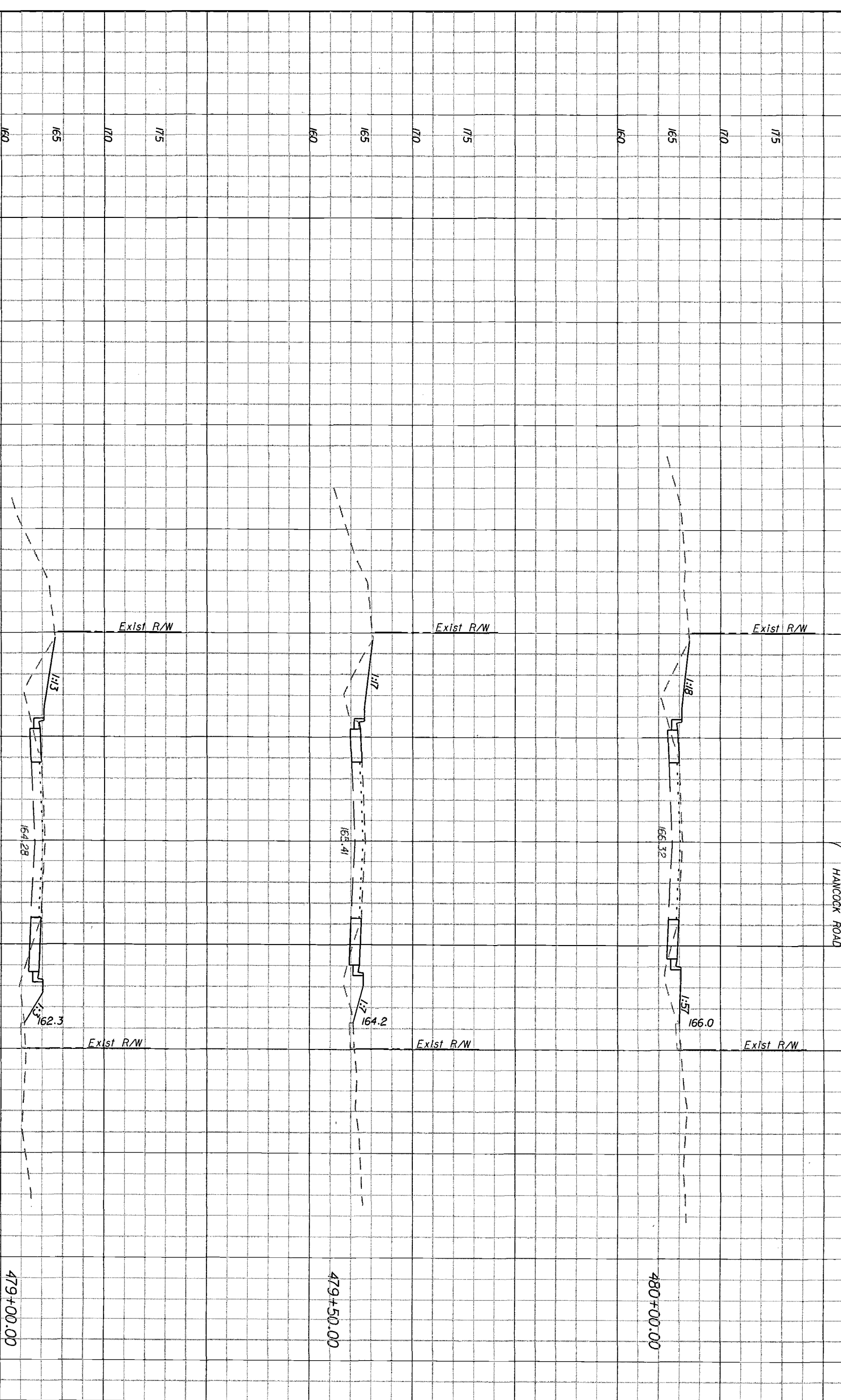
LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

CROSS SECTIONS
 SOUTH HANCOCK ROAD

SHEET NO. 152

Regular Exc. Embankment
 A V A V



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

62
 15
 35
 8

61
 17
 31
 10

58
 17
 31
 8

DATE	BY	REVISIONS
		DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PHOENIX BLVD.
 SUITE 200
 LAKE WORTH, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6560
 ENGINEER OF RECORD: KAREN W. VAN DEN ANWY, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

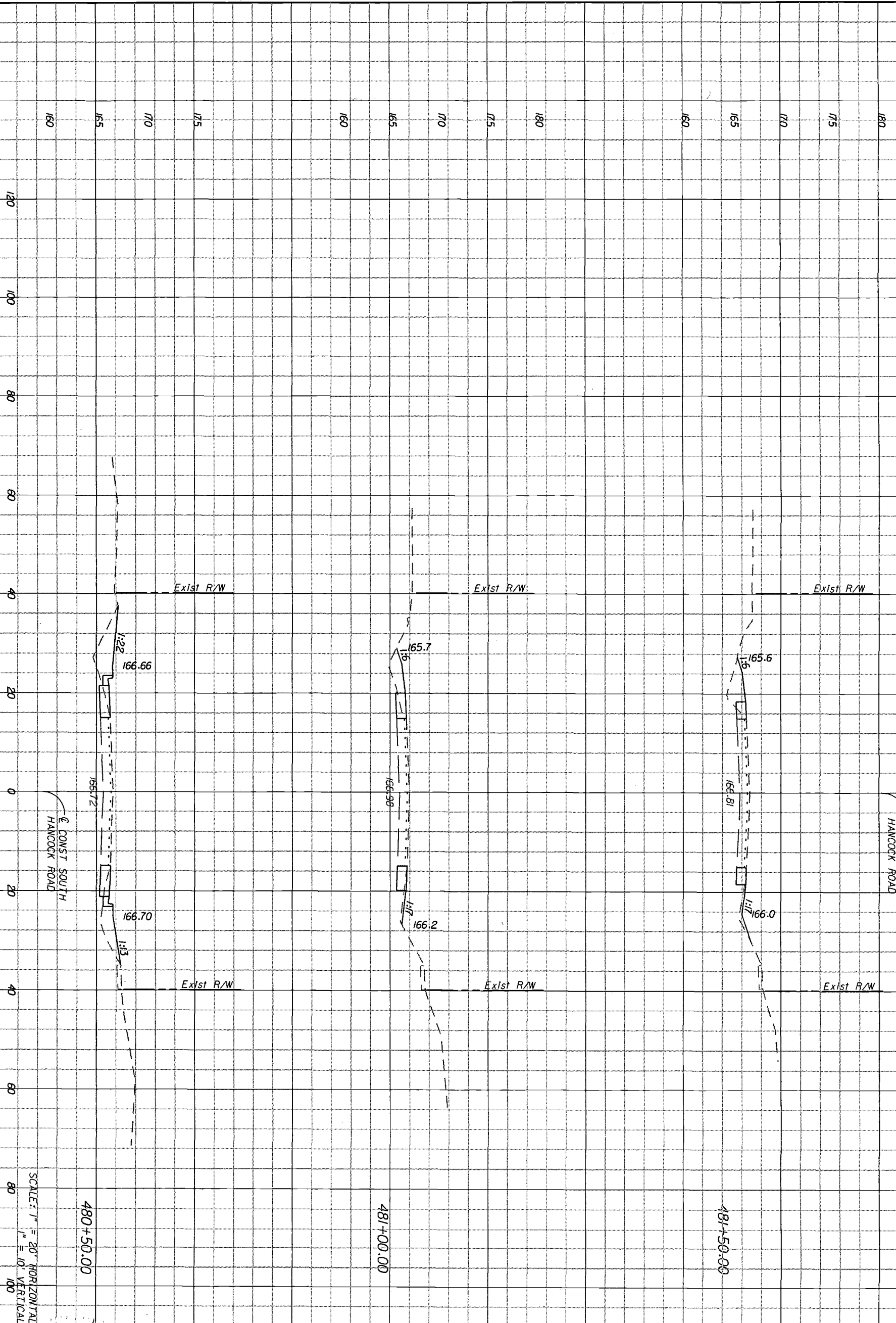
CROSS SECTIONS
SOUTH HANCOCK ROAD
 SHEET NO. 153

5/1/2008

9:41:41 AM

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Regular Exc. Embankment
 A V A V



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

54
 28
 16
 9
 14
 10
 35

DATE	BY	REVISIONS DESCRIPTION

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

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

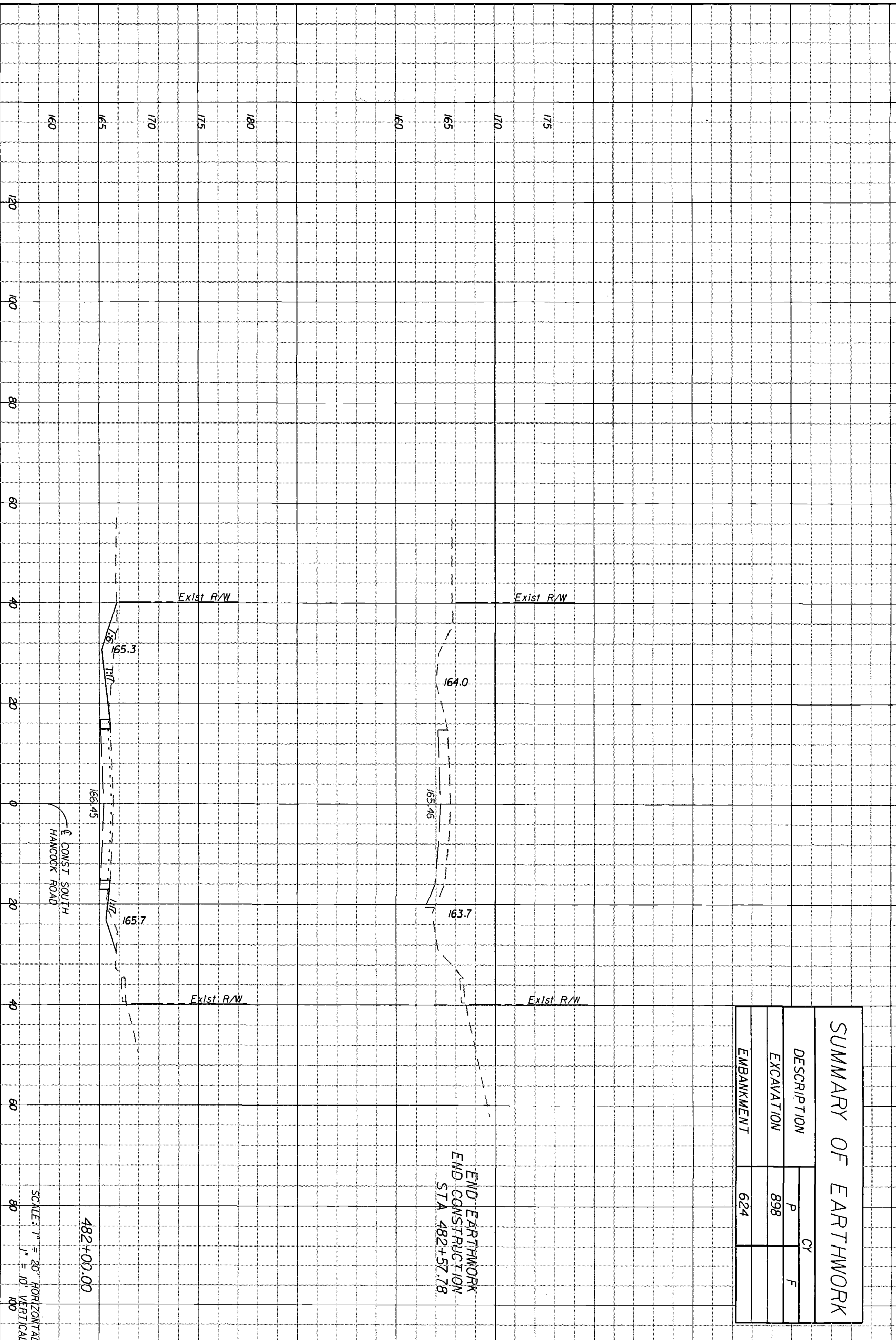
CROSS SECTIONS
 SOUTH HANCOCK ROAD

SHEET NO. 154

Regular Exc. Embankment
 A V A V

SUMMARY OF EARTHWORK

DESCRIPTION	CY	
	P	F
EXCAVATION	898	
EMBANKMENT	624	



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

482+00.00

END EARTHWORK
 END CONSTRUCTION
 STA 482+57.78

114354-1

22
 25
[Handwritten signature]
 12

DATE	BY	DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PHOENIX BLVD.
 SUITE 200
 LAKE WALKER, FL 32746
 (904) 805-7035
 CENT. OF ALTH. NO. 6500
 ENGINEER OF RECORD: KAREN W. VAN DEN AVONT, P.E.
 FL. REGISTRATION NO. 44794

LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE I

CROSS SECTIONS
 SOUTH HANCOCK ROAD

SHEET NO. 155

5/11/2008 9:41:45 AM \\LAKWOOD\mhw\114354-1\DWG\114354-1.dwg