

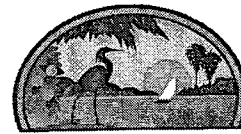
INDEX OF ROADWAY PLANS

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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.

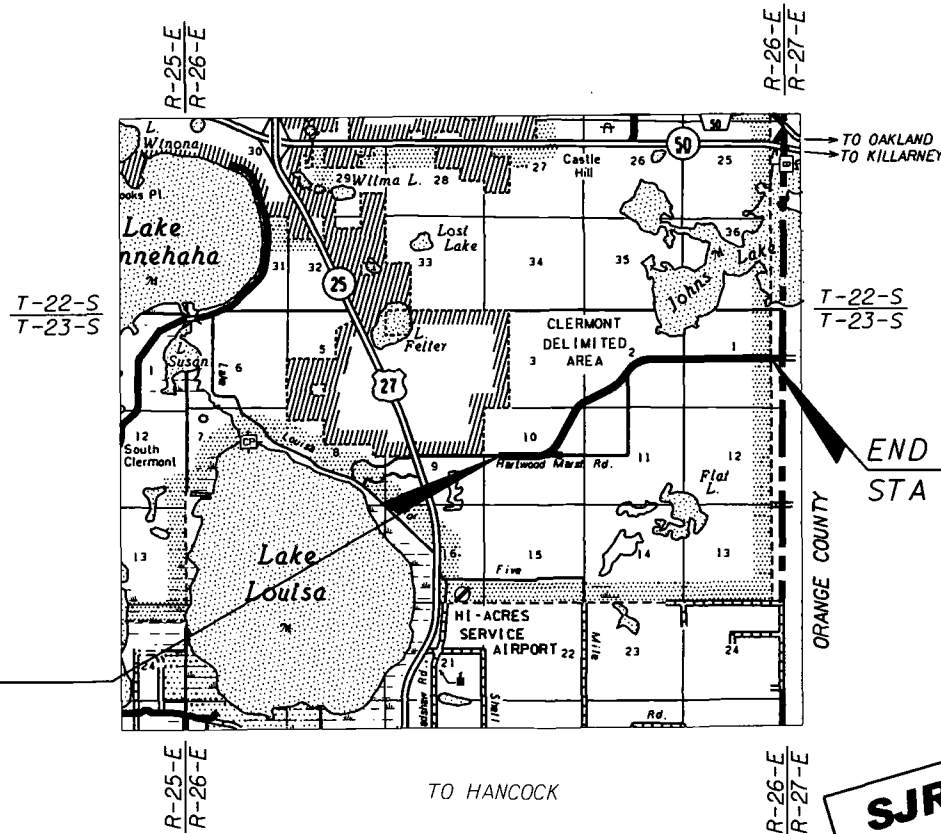
APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-09

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 II
 FROM SOUTH HANCOCK TO ORANGE COUNTY LINE

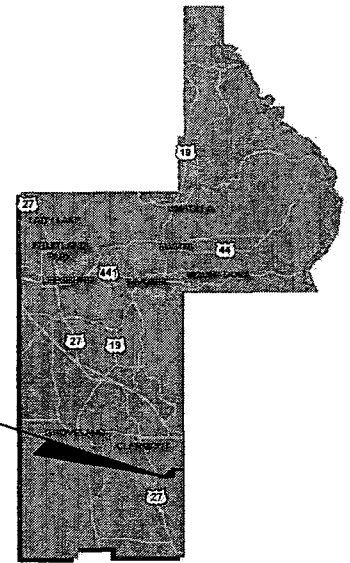


BEGIN PROJECT
 STA 155+50.00

END PROJECT
 STA 322+98.06

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**SJRWMD RAI SUBMITTAL
 MAY 2009**

PROJECT LOCATION



COUNTY MANAGER:
 CINDY HALL

COUNTY COMMISSIONERS:
 JENNIFER HILL
 ELAINE RENICK
 JIMMY CONNER
 LINDA STEWART
 WELTON G. CADWELL

ROADWAY SHOP DRAWINGS
 TO BE SUBMITTED TO:

MICHAEL VERNON O'DONNELL, PE
 HNTB CORPORATION
 300 PRIMERA BOULEVARD, SUITE 200
 LAKE MARY, FLORIDA 32746

PLANS PREPARED BY:

HNTB

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

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

Michael Vernon O'Donnell
 S-14-09

ROADWAY PLANS
 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.

P.E. NO.: 67442

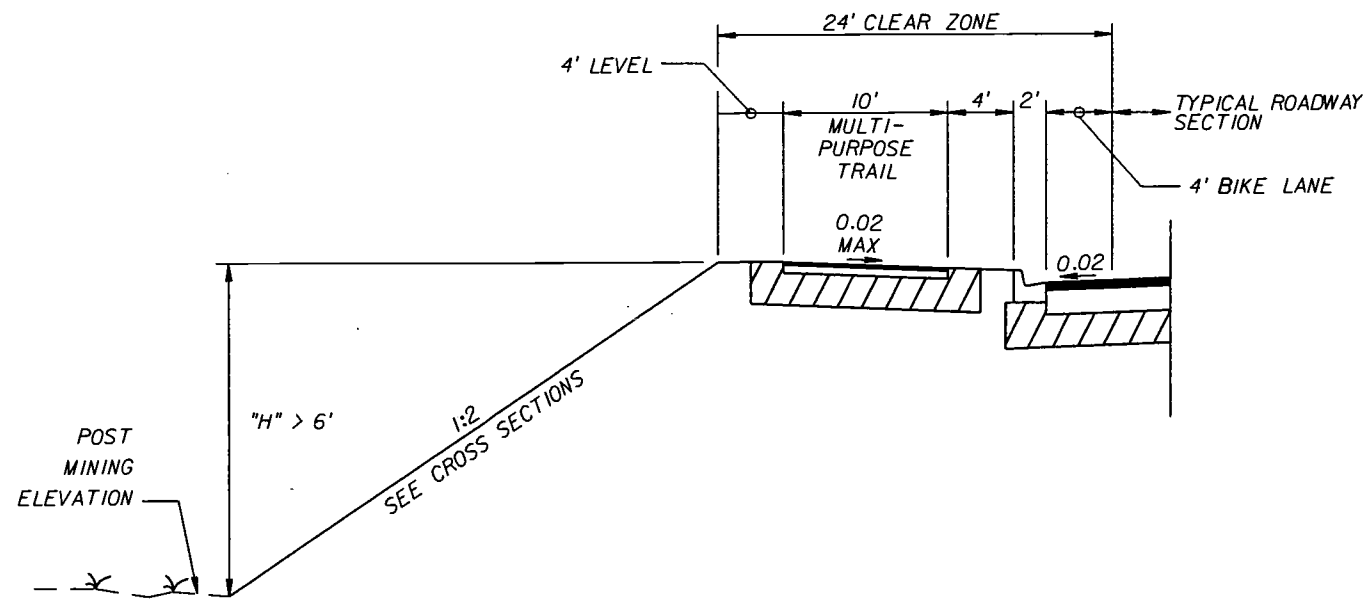
PROJECT LENGTH IS BASED ON $\frac{1}{4}$ OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	16,748.06	3.171
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	16,748.06	3.171
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	16,748.06	3.171

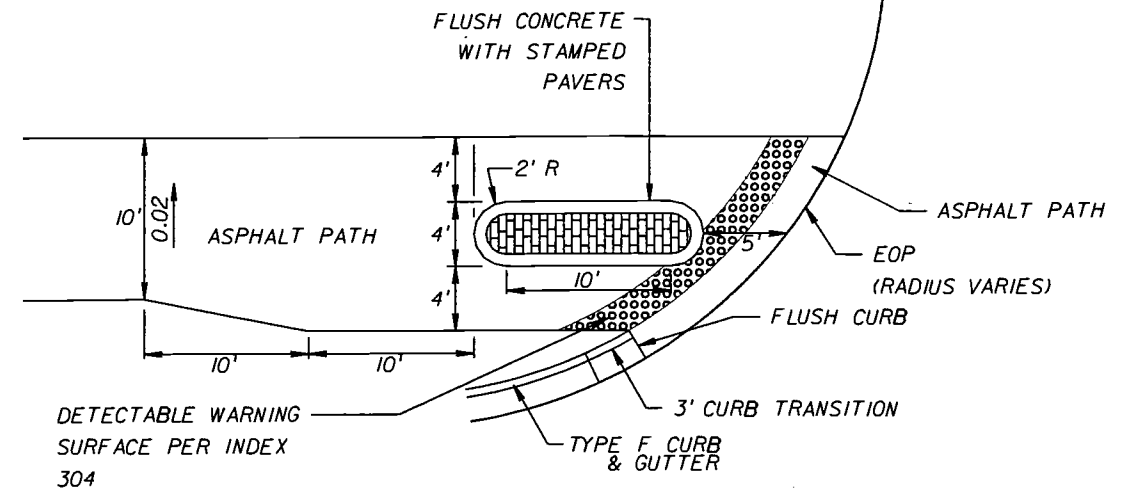
KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

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

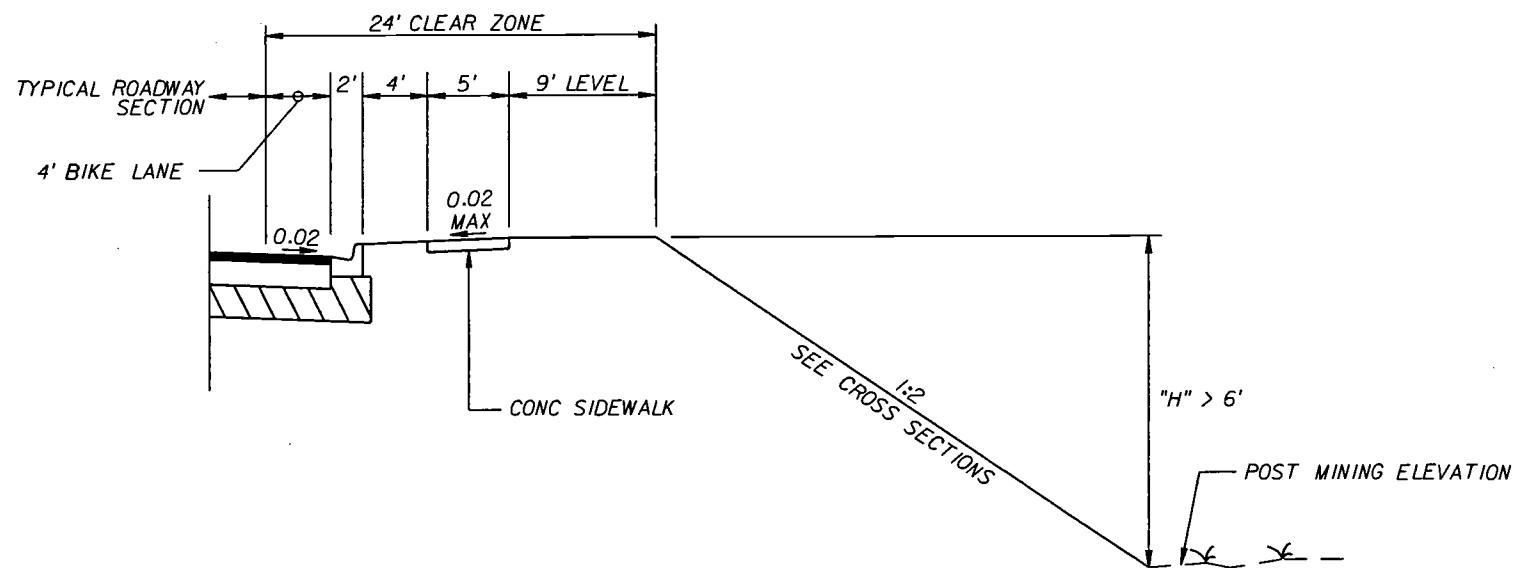
FISCAL YEAR	SHEET NO.
09	1



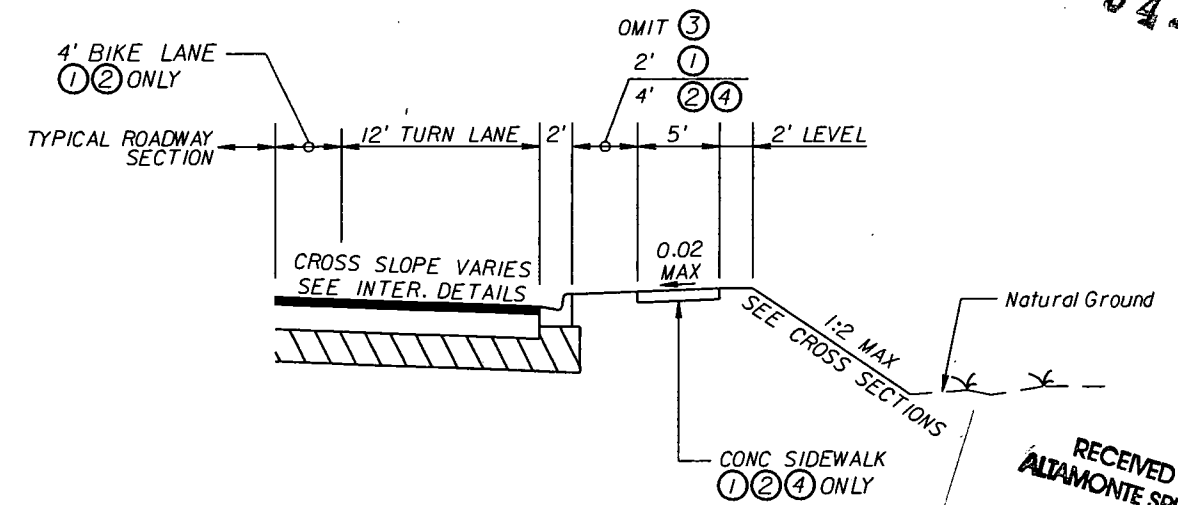
MINE SECTION DROPOFF BUFFER DETAIL LT
(STA 170+00.00 TO STA 256+00.00)



PATH SEPARATOR DETAIL



MINE SECTION DROPOFF BUFFER DETAIL RT
(STA 170+00.00 TO STA 256+00.00)



RIGHT TURN LANE DETAILS

- ① HARTWOOD MARSH RD AT MAJESTIC ISLE DR
- ② HARTWOOD MARSH RD AT OLD HARTWOOD MARSH RD
- ③ OLD HARTWOOD MARSH RD AT HARTWOOD MARSH RD
- ④ OLD HARTWOOD MARSH RD AT ARUBA BLVD

114354-2

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INFORMATION MGT.

Michael Vernon O'Donnell
S-14-09

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: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442


LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE II

TYPICAL SECTION

SHEET NO.
21

GENERAL NOTES

1. BEARINGS SHOWN HEREON ARE BASED ON THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 9, TOWNSHIP 23 SOUTH, RANGE 26 EAST, BEING N 00° 52' 56" E.
2. VERTICAL INFORMATION SHOWN HEREON REFERS TO A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SURVEY AND MAPPING SURVEY MARK 1997, DESIGNATED C465, BEING A BRASS DISC IN A CONCRETE MONUMENT, WITH AN ELEVATION OF 167.91' (NAVD 88).
3. GROUND INFORMATION FROM STA 170+00 TO STA 256+00 IS FROM 2008 LIDAR, PROVIDED BY LAKE COUNTY. THIS SITE IS AN ACTIVE SAND MINE AND GROUND CONDITIONS MAY BE DIFFERENT THAN SHOWN.
4. ALL CURB RAMPS SHALL HAVE TRUNCATED DOMES PER INDEX 304. THE COLOR SHALL BE YELLOW.
5. ALL MATERIALS, INSTALLATION, TESTING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF LAKE COUNTY, FLORIDA AND THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 EDITION AND F.D.O.T. DESIGN STANDARDS, 2008 EDITION. WHERE THE SPECIFICATIONS CONFLICT, THE MAXIMUM REQUIREMENTS OF EITHER SPECIFICATION SHALL APPLY, UNLESS OTHERWISE DIRECTED BY THE DIRECTOR OF ENGINEERING.
6. PAVEMENT SHALL MEAN ALL ASPHALT AND BASE ASSOCIATED WITH A DRIVING SURFACE AS SHOWN ON THE CONSTRUCTION PLANS.
7. THE ESTABLISHED CLEAR ZONE IS TEN (10) FEET FROM NEW EDGE OF TRAVELWAY. ALL ABOVE GROUND STRUCTURES SUCH AS MAIL BOXES, TRAFFIC CONTROL SIGNS, STREET SIGNS, FENCES, ETC., ARE TO BE REMOVED AND REPLACED OUTSIDE OF THE CLEAR ZONE. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF REMOVAL AND REPLACEMENT OF THESE STRUCTURES. DAILY ACCESS TO MAILBOXES SHALL BE MAINTAINED. THE DIRECTOR OF ENGINEERING MAY WAIVE SOME OF THESE REQUIREMENTS, IF NECESSARY.
8. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL SUCCESSFULLY ACCOMPLISH THE INTENDED DESIGN WITH MINIMAL IMPACT TO EXISTING CONDITIONS. ANY CONSTRUCTION ACTIVITY PERFORMED WITHOUT PRIOR WRITTEN APPROVAL FROM THE DIRECTOR OF ENGINEERING THAT IS DEEMED EXCESSIVELY DISRUPTIVE TO EXISTING CONDITIONS OF THE SURROUNDING AREA AND/OR SIGNIFICANTLY DEVIATES FROM THE LIMITS OF CONSTRUCTION AS SET FORTH BY THESE CONSTRUCTION PLANS SHALL BE CONSIDERED AS PART OF THE ORIGINAL WORK AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO RESTORE THE DISTURBED AREAS).
9. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION WITHIN A REASONABLE TIME FRAME, LESS THAN 48 HOURS AFTER DISCOVERED. ADVANTAGE WILL NOT BE TAKEN OF APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE DESIGN.

DRAINAGE

1. IN ALL PONDS THAT REQUIRE FILL, THE CONTRACTOR SHALL USE WELL GRADED SAND FILL NO MORE THAN 10% PASSING #200 SIEVE MATERIAL IN THE POND BANKS AND BOTTOM. A FIELD PERMEABILITY TEST SHALL BE PERFORMED FOR POND 3A PRIOR TO CONSTRUCTION TO ENSURE THE EXISTING SOIL HAS A MINIMUM PERMEABILITY OF 8 FT/DAY. THE FILL USED FOR POND 3A FROM THE POST MINING ELEVATION TO THE TOP OF THE BERM SHALL HAVE A MINIMUM PERMEABILITY OF 8 FT/DAY. AT NO TIME SHALL CLAYS/CLAYEY SOILS BE USED UNLESS AUTHORIZED BY THE DIRECTOR OF ENGINEERING OR HIS DESIGNEE. THE CONTRACTOR SHALL NOTIFY THE LAKE COUNTY CONSTRUCTION INSPECTOR 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY POND CONSTRUCTION TO COORDINATE THE INSPECTION OF THE PROPOSED CONSTRUCTION PRACTICES AND MATERIALS TO BE USED.
2. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES WITHIN THE RIGHT-OF-WAY SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
3. EXISTING DRAINAGE STRUCTURES AND PIPE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL PIPES, PIPE END TREATMENTS, AND DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION IN A DRY CONDITION OR AS APPROVED BY THE DIRECTOR OF ENGINEERING.

EROSION CONTROL

1. ALL INLETS, MITERED END SECTIONS AND END WALLS SHALL BE PROTECTED AS PER FDOT DESIGN STANDARDS INDEX NO. 102 AND AS SHOWN ON THE CONSTRUCTION PLANS.
2. LOCATIONS OF EROSION CONTROL MEASURES, SUCH AS STAKED TURBIDITY BARRIERS AND SILT FENCES, ARE SUMMARIZED ON THE EROSION CONTROL SHEETS. SEE FDOT DESIGN STANDARD INDEX NO. 102 FOR INSTALLATION.
3. SOIL TRACKING PREVENTION DEVICES SHALL BE CONSTRUCTED AS PER FDOT INDEX 106 AT POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO ROADS WHERE OFF SITE TRACKING OF MATERIAL COULD OCCUR.
4. SOD SHALL BE PLACED IMMEDIATELY AROUND NEW MITERED END SECTIONS AND AREAS SUBJECT TO EROSION TO FDOT SPECIFICATIONS.
5. ALL DISTURBED AREAS SHALL BE SODDED.
6. SOD SHALL BE REPLACED WITH ORIGINAL TYPE ON ALL RESIDENTIAL LOTS AND AS SHOWN IN THE PLANS.
7. CONTRACTOR SHALL DE-SILT ALL DRAINS, PIPES AND SWALES WITHIN THE PROJECT BOUNDARY AT COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR SHALL OBTAIN AN NPDES STORMWATER PERMIT PRIOR TO CONSTRUCTION.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION AND ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS SHALL BE FURNISHED AS NEEDED AT NO ADDITIONAL COST. MATERIALS FROM WORK ON THESE PROJECTS SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY PERIMETER AREAS OR IN WATERWAYS. SILT FENCES, TURBIDITY BARRIERS, AND OTHER ESSENTIAL EROSION CONTROL MEASURES MUST REMAIN IN PLACE AND IN GOOD CONDITION AT ALL LOCATIONS IN THE CONSTRUCTION PLANS OR AS REQUIRED UNTIL SOILS ARE STABILIZED, VEGETATION HAS BEEN ESTABLISHED AND THE CONTRACT IS COMPLETE. MEASURES SHOWN ARE THE MINIMUM REQUIRED, AND THE CONTRACTOR SHALL ENSURE THAT THERE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS INTO OFF SITE AREAS OR WATERWAYS ETC.. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF CONSTRUCTION.
10. PEGGED SOD SHALL BE PLACED ON ALL SLOPES 1:3 OR STEEPER.

UTILITY NOTES

1. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY AND MAY NOT BE ALL OF THE UTILITIES ON SITE. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE RELOCATION OF ALL UTILITIES AS REQUIRED.
4. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS AT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (1-800-432-4770) 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION ON PROJECT SITES. UTILITY CONTACTS ARE:

GENE LAINHART CITY OF CLERMONT P.O. BOX 120219 CLERMONT, FL 34712 352-394-7178 FAX 352-394-8776	KEITH LINEBACK BROADWING / LEVEL 3 1122 S. CAPTIAL OF TEXAS HWY AUSTIN, TX 78746 512-742-6676
--	---
5. CONSTRUCT ALL MITERED END SECTIONS PER FDOT INDEX 272.
6. ALL ROADWAY CROSSINGS FOR PROPOSED STORM WATER SYSTEMS SHALL BE REPAIRED PER SECTION 125 OF THE SPECIFICATIONS, WITH A MINIMUM PAVEMENT STRUCTURE OF OPTIONAL BASE GROUP 5 AND 1 1/2" ASPHALT.

SURVEY

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONTROL AND BENCHMARK DATA BEFORE CONSTRUCTION. DISCREPANCIES IN DATA SHALL BE BROUGHT TO THE ATTENTION OF THE LAKE COUNTY SURVEY MANAGER AT (352) 483-9085.
2. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
3. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED THE COUNTY SURVEYOR SHALL BE IMMEDIATELY NOTIFIED.

TREES AND LANDSCAPING

1. ALL TREES ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
2. CONTRACTOR SHALL REPLACE LANDSCAPING THAT IS REMOVED OR DESTROYED WITHIN THE LIMITS OF CONSTRUCTION.
3. REPLACED LANDSCAPING SHALL BE PLACED OFF OF THE RIGHT-OF-WAY. CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER PRIOR TO INSTALLING NEW LANDSCAPING OFF THE RIGHT-OF-WAY.
4. TREES TO REMAIN SHALL BE TRIMMED TO RIGHT-OF-WAY LINE OR WITHIN 8' OF EDGE OF PAVEMENT TO A HEIGHT OF 18', WHICHEVER IS LESS.

DRIVEWAYS

1. DRIVEWAYS SHALL NOT EXCEED 14% SLOPE.
2. CONCRETE APRONS SHALL BE CONSTRUCTED AT EXISTING DRIVEWAYS. CONCRETE SHALL BE A MINIMUM OF SIX (6) INCHES THICK, 3,000 PSI WITH 6 X 6 10/10 W/M.
3. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS DIRECTED BY THE DIRECTOR OF ENGINEERING.

PUBLIC NOTIFICATION

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO ALL RESIDENCES ADJACENT TO THE PROJECT LIMITS. WITHIN A MINIMUM OF 14 CALENDAR DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE TO THE COUNTY A COPY OF THE NOTIFICATION WITH A LIST OF THE PARTIES CONTACTED. THIS NOTICE SHALL INCLUDE, AT A MINIMUM, THE ANTICIPATED CONSTRUCTION SCHEDULE, MAINTENANCE OF TRAFFIC PLAN AND ANY IMPACTS, PERMANENT OR TEMPORARY, TO THE SUBJECT RESIDENCE AND ITS ADJACENT AREA. CONTRACTOR SHALL PROVIDE CONTACT INFO INCLUDING NAME OF PROJECT MANAGER AND TELEPHONE NUMBER.

BOB SINATRA
WATER CONSERV II
17498 MCKINNEY RD
WINTER GARDEN, FL 34787
407-656-2332 Ext: 225
FAX 407-877-0868

LARRY HENDERSON
BRIGHT HOUSE NETWORKS
211 ST. JOE PLAZA
PALM COAST, FL 32164
386-445-8804 Ext: 1308
FAX 386-445-6628

LARRY ENGLISH
FLORIDA CABLE, INC.
23505 SR 40
ASTOR, FL 32102
352-759-2788
FAX 352-759-3577

MIKE DUNN
LAKE UTILITY SERVICES, INC.
200 WEATHERSFIELD AVENUE
ALTAMONTE SPRINGS, FL 32714
407-869-8588
FAX 407-869-6961

DANIEL ALLEN
ORANGE COUNTY UTILITIES
109 E CHURCH STREET
ORLANDO, FL 32801
407-836-7000
FAX 407-836-5379

DANNY JOSEPH
SPRINT
P.O. BOX 490048
LEESBURG, FL 34749-0048
352-326-1620
FAX 352-326-1373

MIKE SHELL
SPRINT
33 N. MAIN STREET
WINTER GARDEN, FL 34787
407-814-5344
FAX 407-814-5320

MICHELLE JOHNSON
PROGRESS ENERGY
3300 EXCHANGE PL
LAKE MARY, FL 32746
407-942-9357
FAX 407-942-9202

ALEX WOSGEIN
LAKE APOPKA NATURAL GAS DISTRICT
1320 WINTER GARDEN- VINELAND RD
WINTER GARDEN, FL 34787
407-656-2734
FAX 407-877-3893

BOB BRUCK
CITY OF LEESBURG
2010 GRIFFIN RD
LEESBURG, FL 34748
352-728-9819
FAX 352-728-9809

ALAN KIMBLEY
SUMTER ELECTRIC COOPERATIVE, INC.
P.O. BOX 301
SUMTERVILLE, FL 33585
352-793-3801 Ext: 1284

meade
5-14-09

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INFORMATION

REVISIONS		
DATE	BY	DESCRIPTION

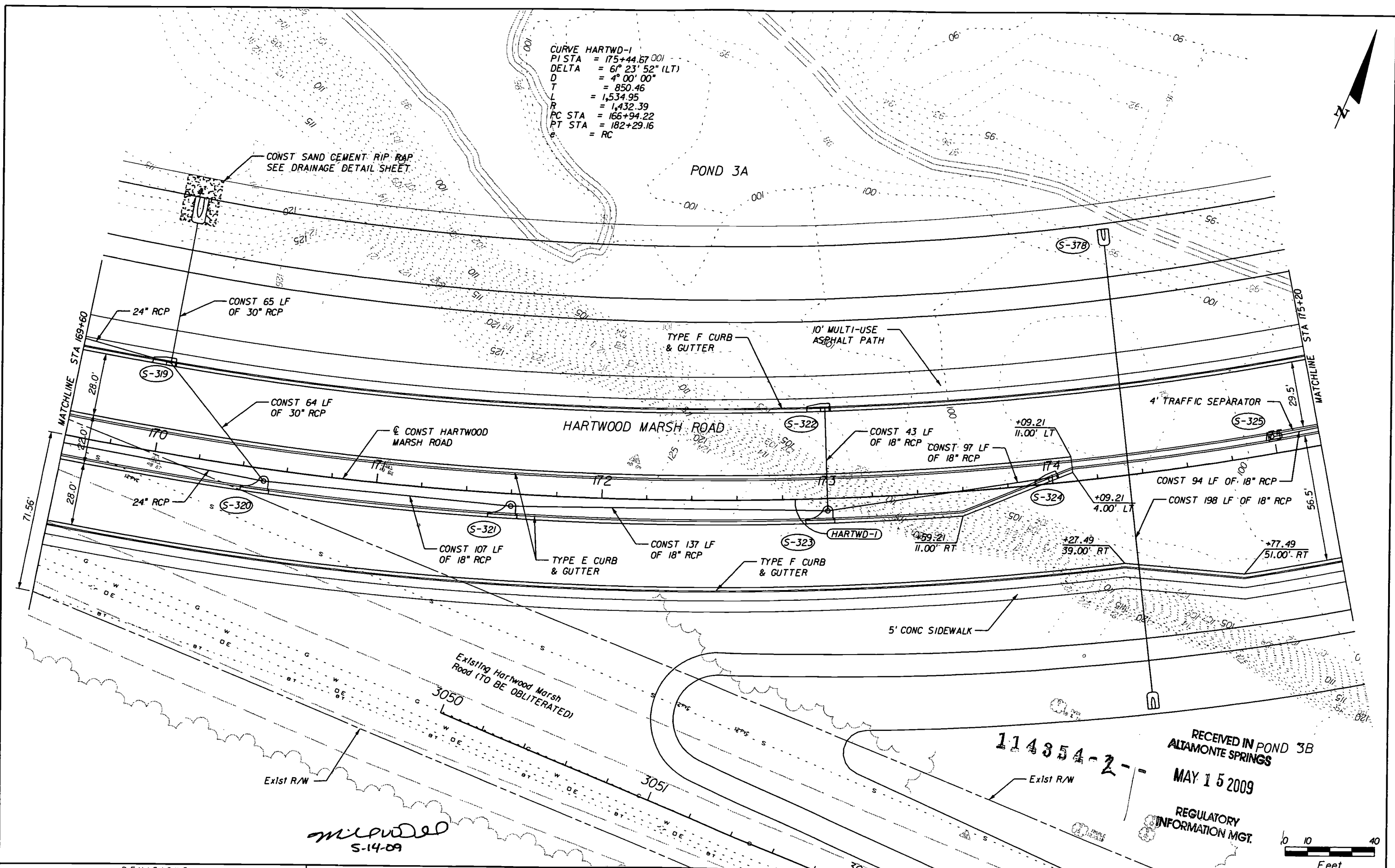
HNTB
HNTB CORPORATION
300 PRIMA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442


LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE II

GENERAL NOTES

CURVE HARTWD-1
 PI STA = 175+44.67 001
 DELTA = 6° 23' 52" (LT)
 D = 4° 00' 00"
 T = 850.46
 L = 1,534.95
 R = 1,432.39
 PC STA = 166+94.22
 PT STA = 182+29.16
 e = RC



MILWAUDD
 S-14-09

114854-2-
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DATE	BY	

HNTB

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

ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



LAKE COUNTY
 FLORIDA

HARTWOOD MARSH
 ROAD - PHASE II

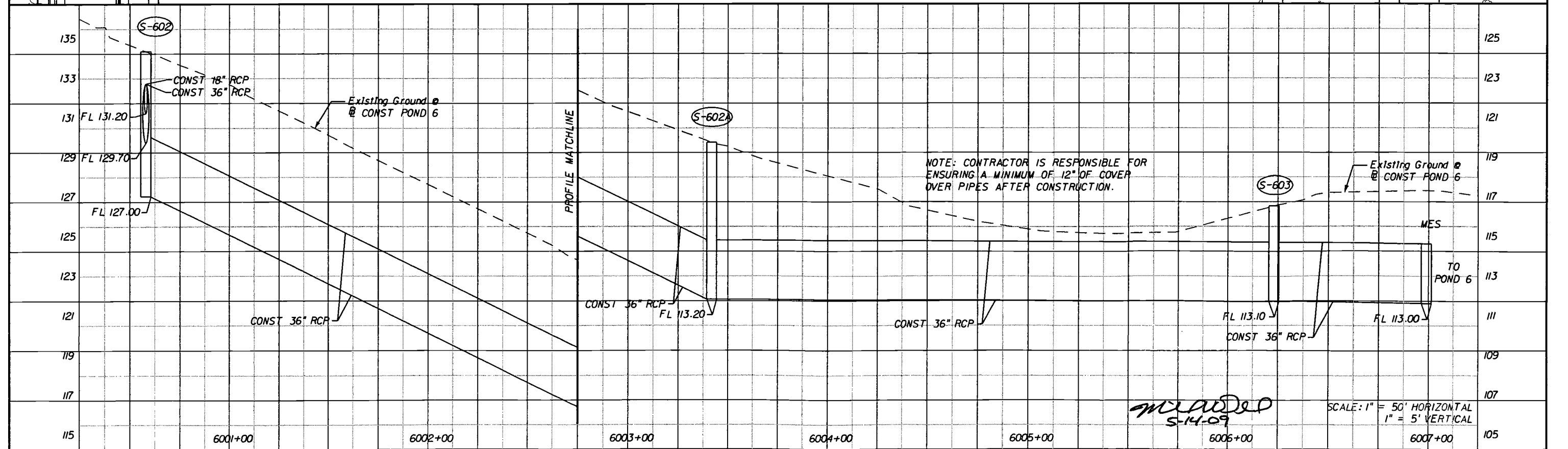
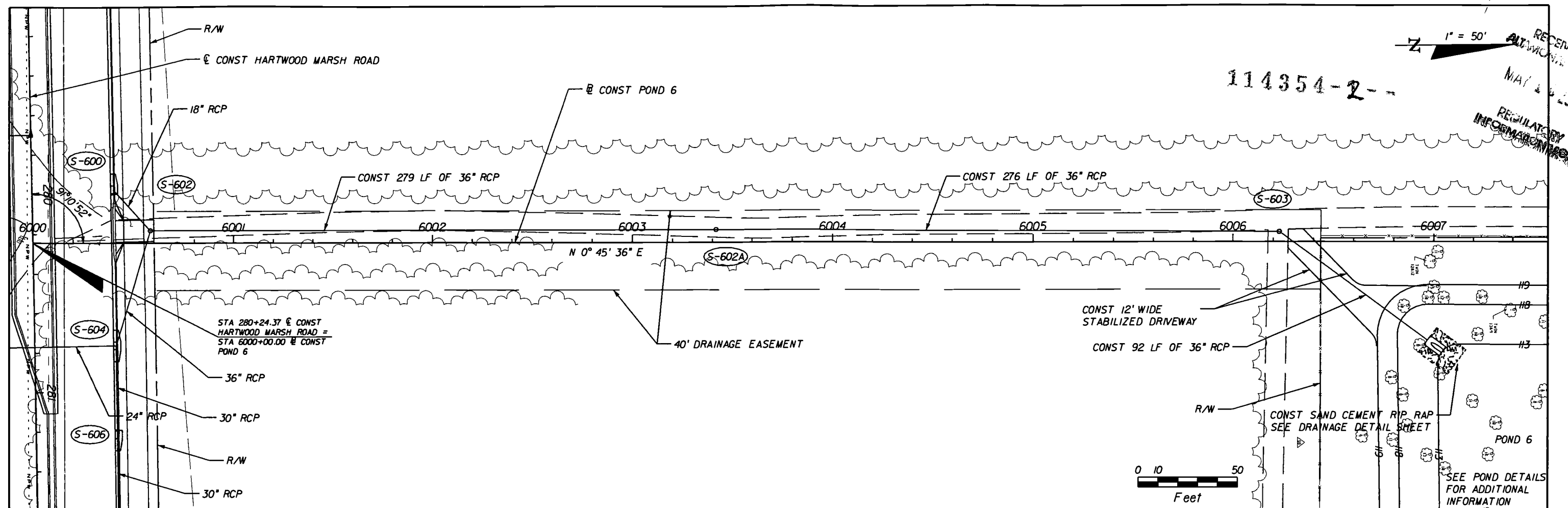
PLAN SHEET

SHEET
 NO.

29

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114354-2--



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DATE	DESCRIPTION

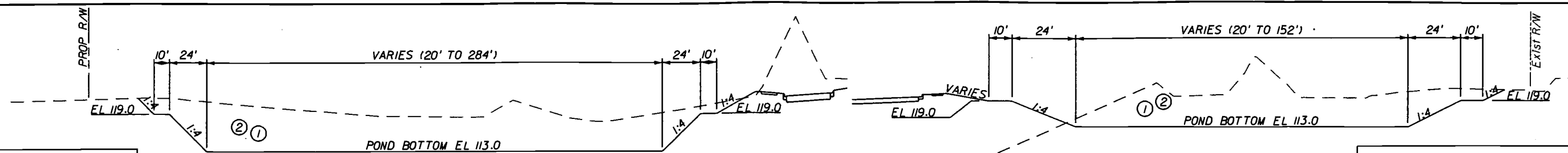
HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



HARTWOOD MARSH
 ROAD - PHASE II

PLAN AND PROFILE
 POND 6 OUTFALL

SHEET NO.
 910



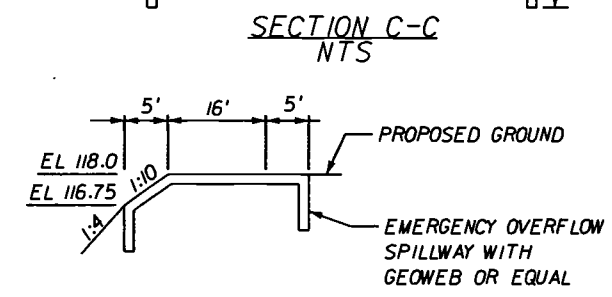
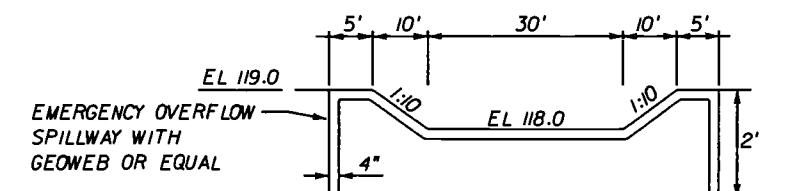
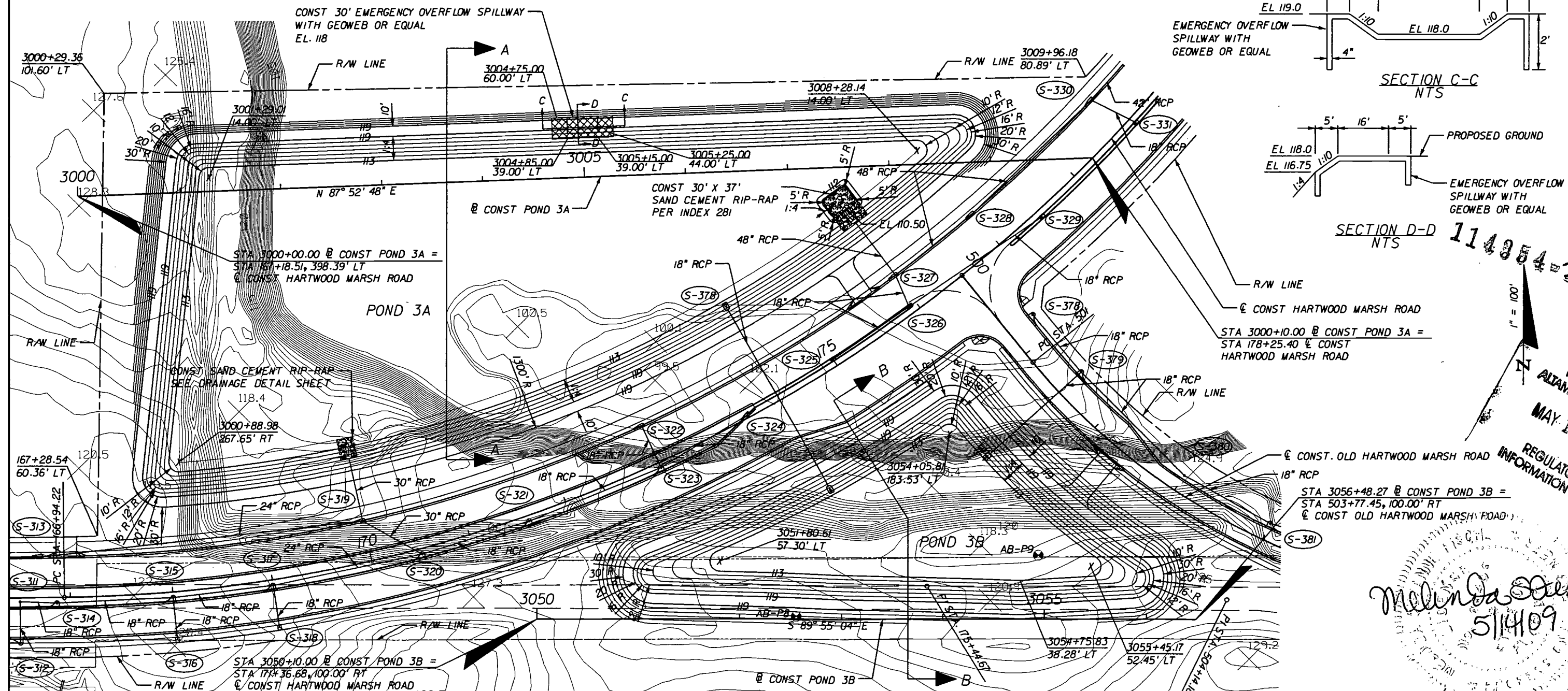
POND 3A	
① 25 YR DHW/24 HR	EL. 116.50
② 25 YR DHW/96 HR	EL. 118.23

SECTION A-A
NTS

SECTION B-B
NTS

POND 3B	
① 25 YR DHW/24 HR	EL. 116.50
② 25 YR DHW/96 HR	EL. 118.23

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇ (EL 103.80)
 2. AVERAGE ENCOUNTERED WATER TABLE ∇ (IGNE)
 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.



114954

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INFORMATION MGT.

Melinda Fischl
511409

DATE	BY	REVISIONS DESCRIPTION

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

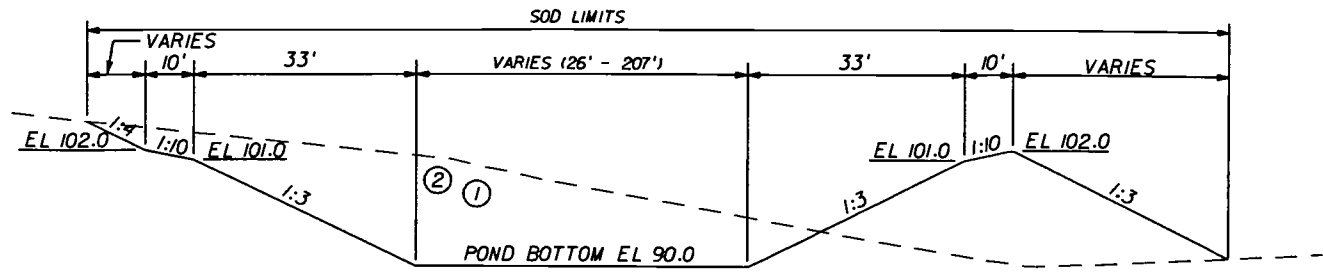
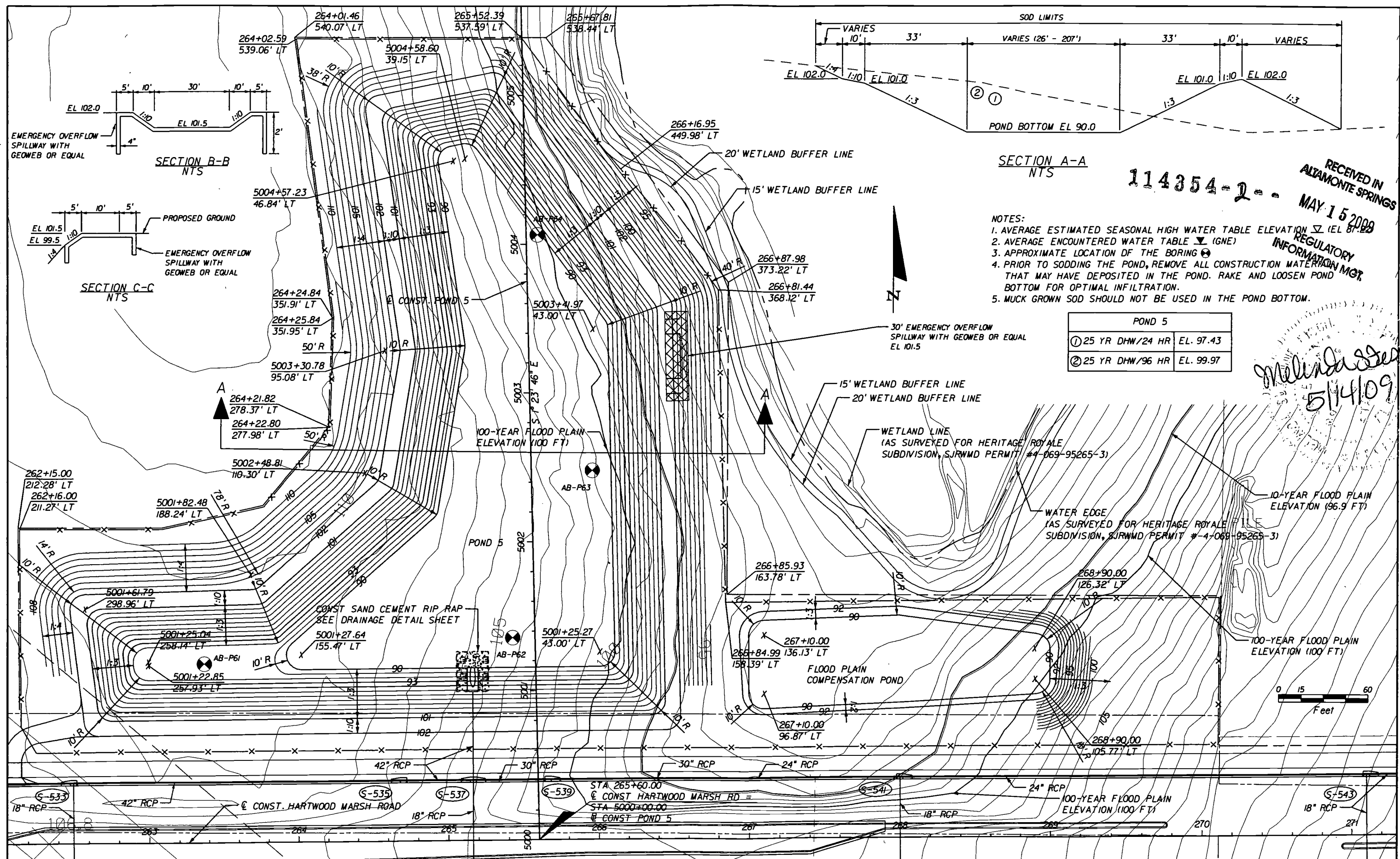
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

LAKE COUNTY
FLORIDA

**HARTWOOD MARSH
ROAD - PHASE II**

**POND DETAIL SHEET
POND 3A & 3B**

SHEET NO.
96A



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MAY 15 2008
REGULATORY
INFORMATION MGR

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇ (EL 87.8)
 2. AVERAGE ENCOUNTERED WATER TABLE ∇ (GNE)
 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.

POND 5	
① 25 YR DHW/24 HR	EL. 97.43
② 25 YR DHW/96 HR	EL. 99.97

Melinda Fischl
514109

DATE	BY	REVISIONS DESCRIPTION

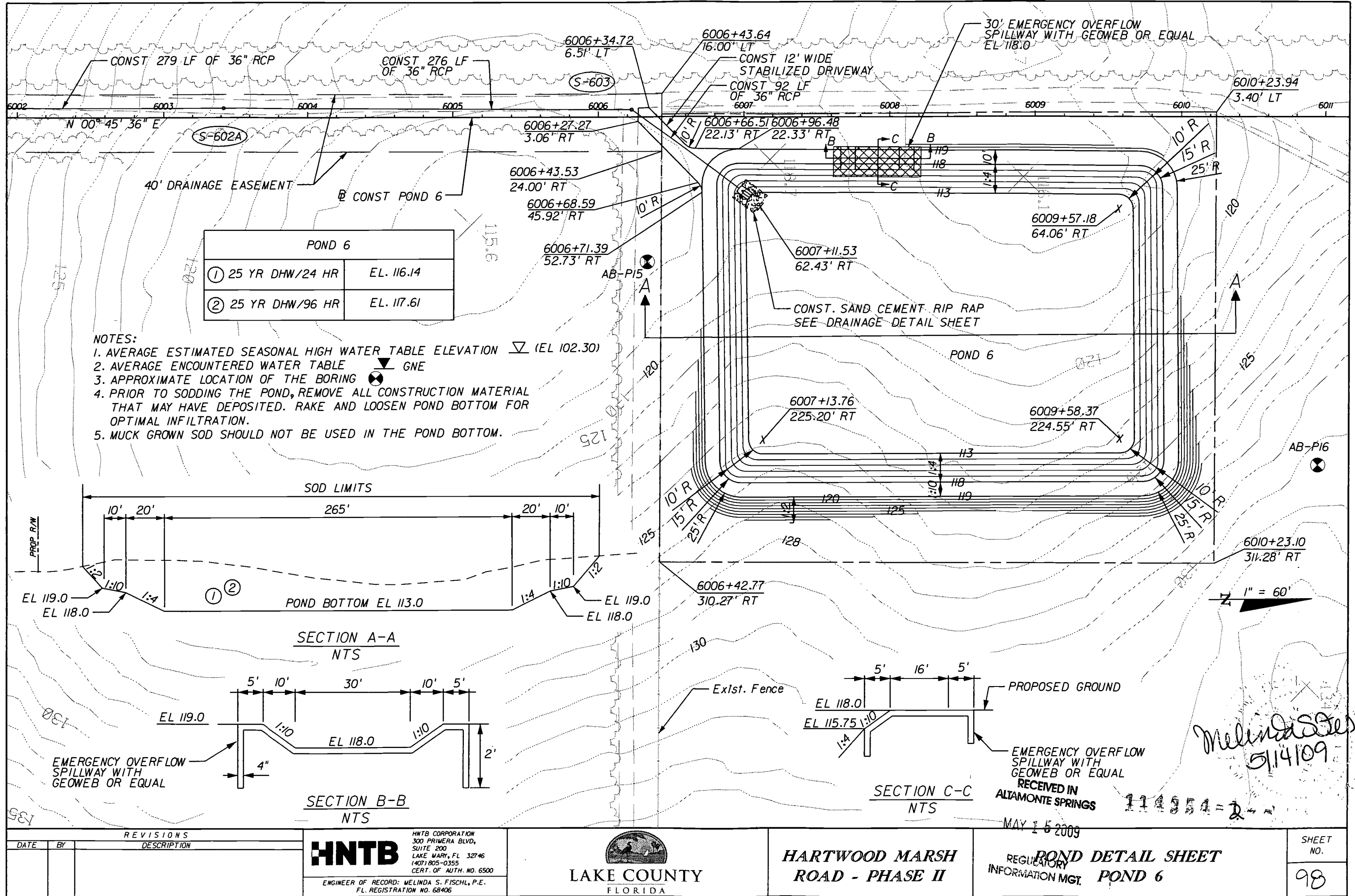
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

LAKE COUNTY
FLORIDA

**HARTWOOD MARSH
ROAD - PHASE II**

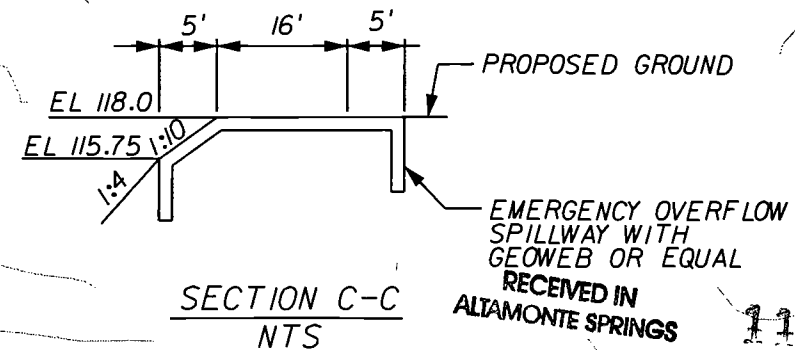
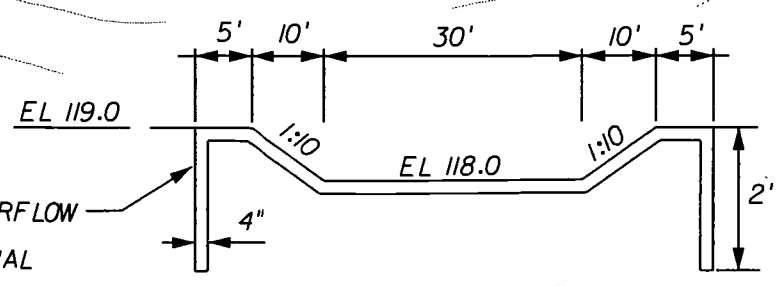
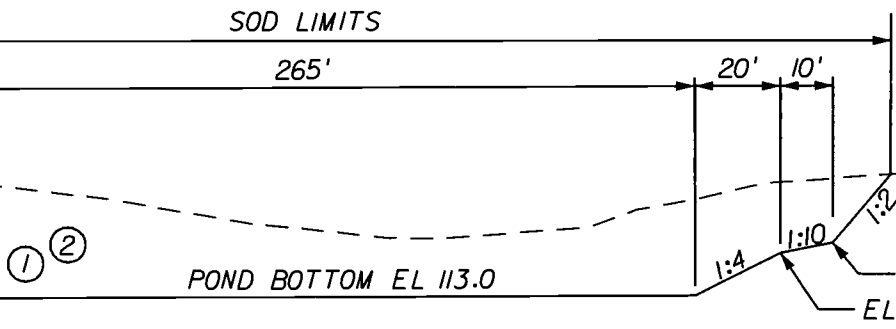
**POND DETAIL SHEET
POND 5**

SHEET NO.
97



POND 6	
① 25 YR DHW/24 HR	EL. 116.14
② 25 YR DHW/96 HR	EL. 117.61

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇ (EL 102.30)
 2. AVERAGE ENCOUNTERED WATER TABLE ∇ GNE
 3. APPROXIMATE LOCATION OF THE BORING \odot
 4. PRIOR TO SODDING THE POND, REMOVE ALL CONSTRUCTION MATERIAL THAT MAY HAVE DEPOSITED. RAKE AND LOOSEN POND BOTTOM FOR OPTIMAL INFILTRATION.
 5. MUCK GROWN SOD SHOULD NOT BE USED IN THE POND BOTTOM.



Melinda S. Fischl
5/14/09

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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: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

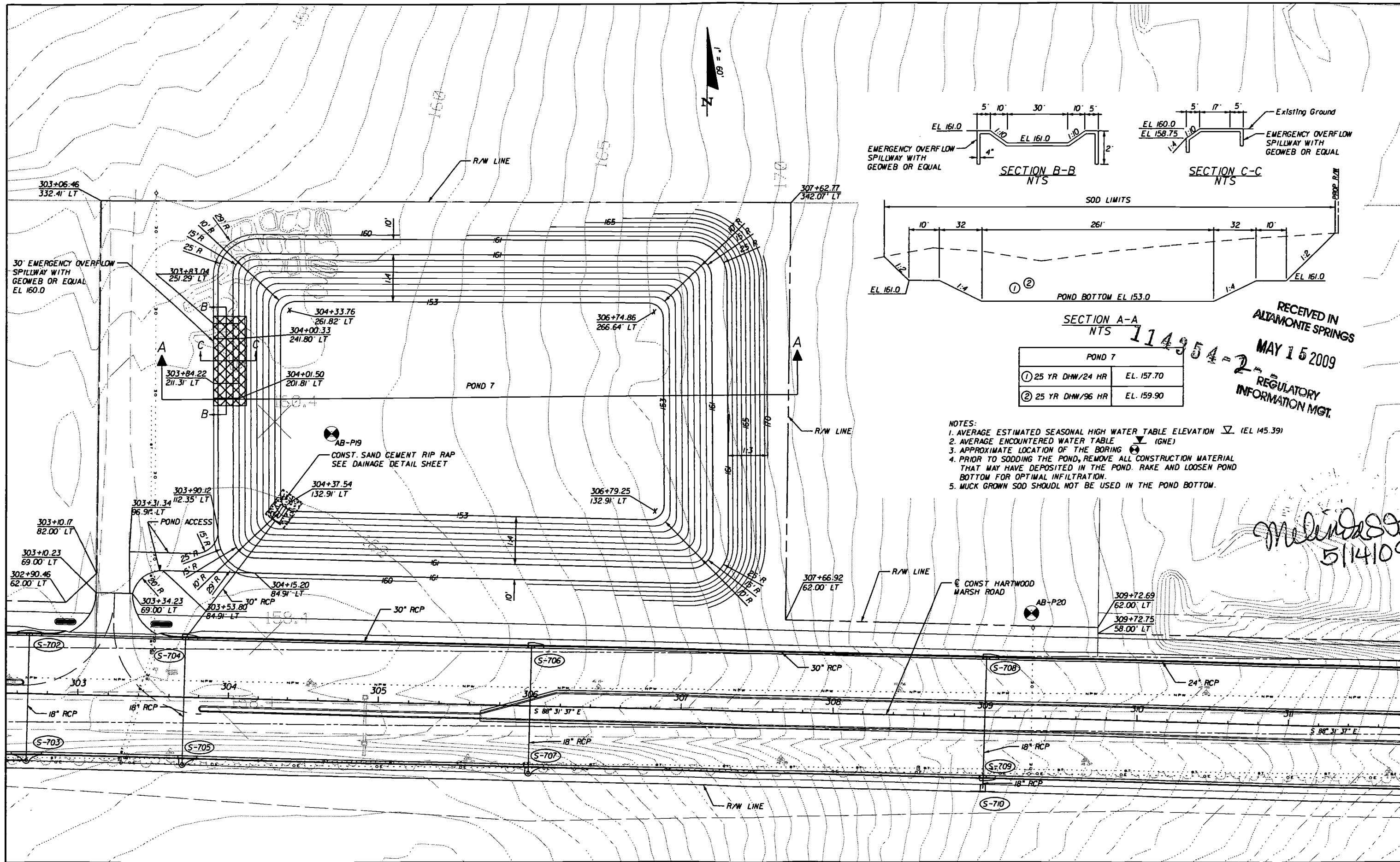
LAKE COUNTY
FLORIDA

**HARTWOOD MARSH
ROAD - PHASE II**

**POND DETAIL SHEET
POND 6**

REGULATORY
INFORMATION MGT.

SHEET
NO.
98



REVISIONS	
DATE	DESCRIPTION

HNTB

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SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

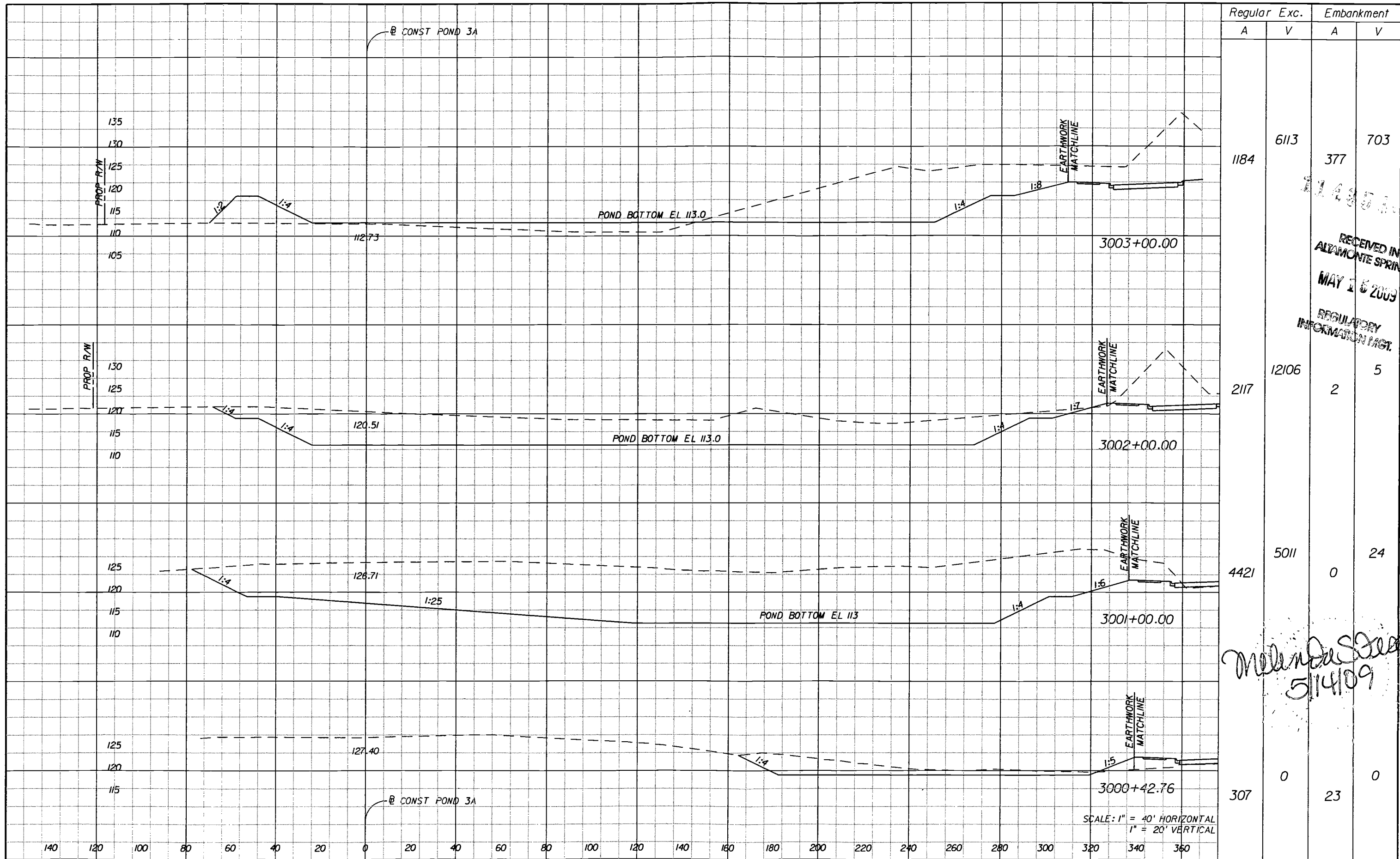
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

LAKE COUNTY
FLORIDA

**HARTWOOD MARSH
ROAD - PHASE II**

**POND DETAIL SHEET
POND 7**

SHEET NO.
99



Regular		Exc.		Embankment	
A	V	A	V	A	V
1184	6113	377	703		
2117	12106	2	5		
4421	5011	0	24		
307	0	23	0		

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INFORMATION PAST.

Melinda Steinhilber
5/14/09

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

REVISIONS	
DATE	DESCRIPTION

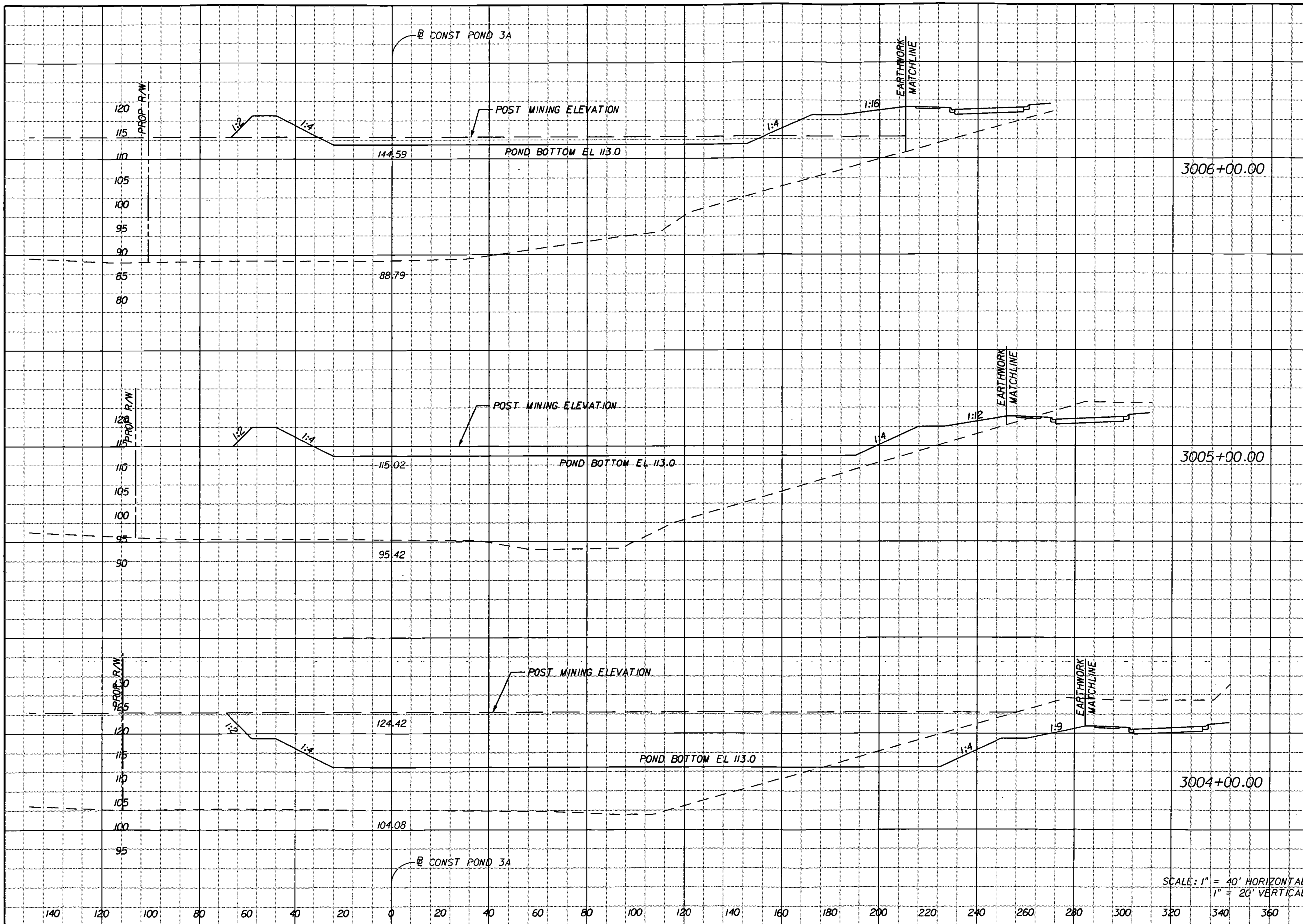
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406



**HARTWOOD MARSH
ROAD - PHASE II**

**POND CROSS SECTIONS
POND 3A**

SHEET NO.
101



Regular		Exc.		Embankment	
A	V	A	V	A	V
280	1350	339	1053		
449	7402	230	426		
3548	8763	699			

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INFORMATION MGT.

Melinda Steinhilber
5/14/09

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

REVISIONS	
DATE	DESCRIPTION

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

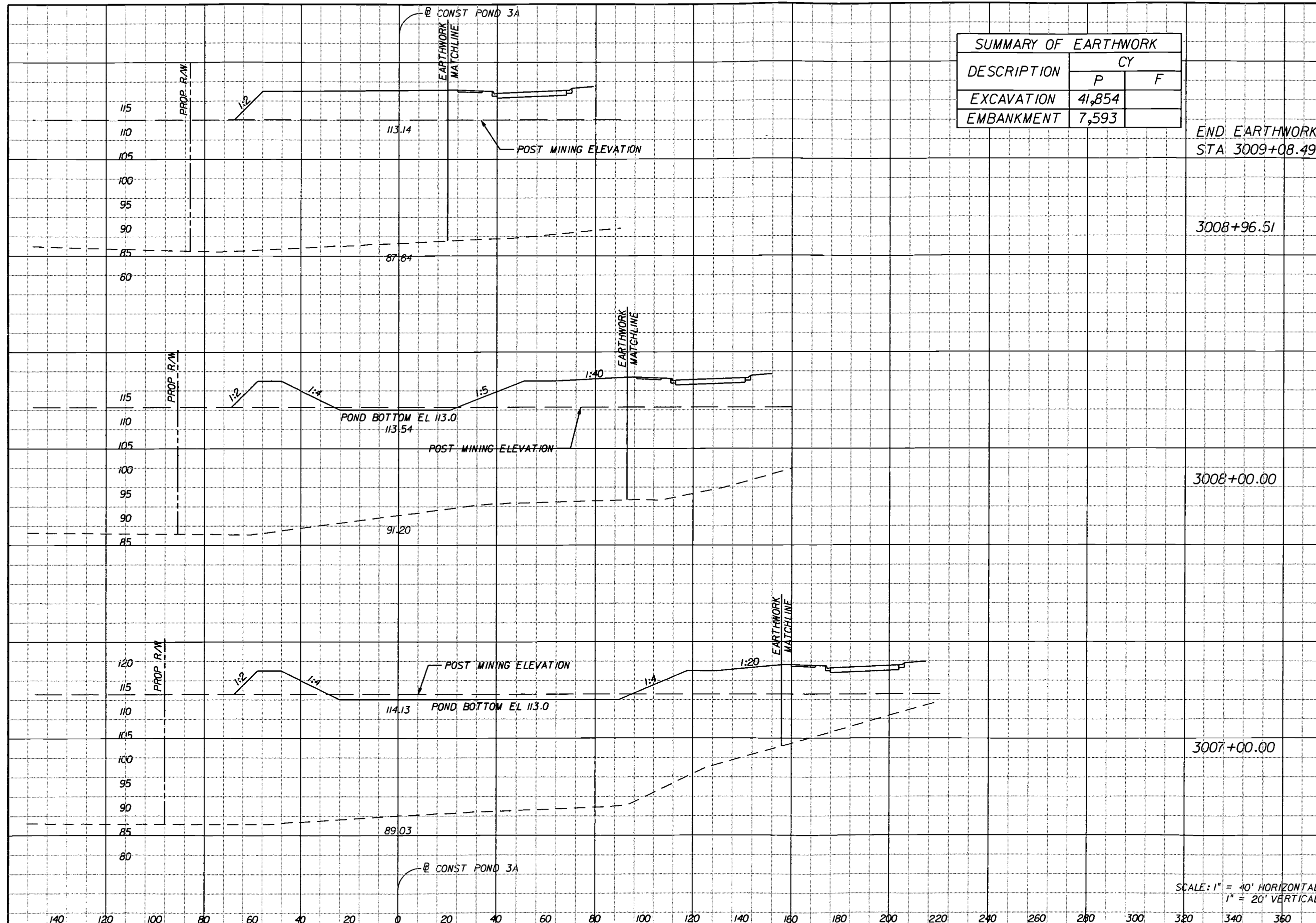
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
 FL. REGISTRATION NO. 68406



**HARTWOOD MARSH
 ROAD - PHASE II**

**POND CROSS SECTIONS
 POND 3A**

SHEET NO.
102



SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION	41,854	
EMBANKMENT	7,593	

Regular	Exc.		Embankment	
	A	V	A	V
0	0	0	109	
0	46		1698	
26	296	1460	1550	
134	767	378	1326	

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 INFORMATION MGT.
 Melinda Sturch
 5/14/09

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

REVISIONS	
DATE	DESCRIPTION

HNTB

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

ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
 FL. REGISTRATION NO. 68406



**HARTWOOD MARSH
ROAD - PHASE II**

**POND CROSS SECTIONS
POND 3A**

SHEET NO.
103

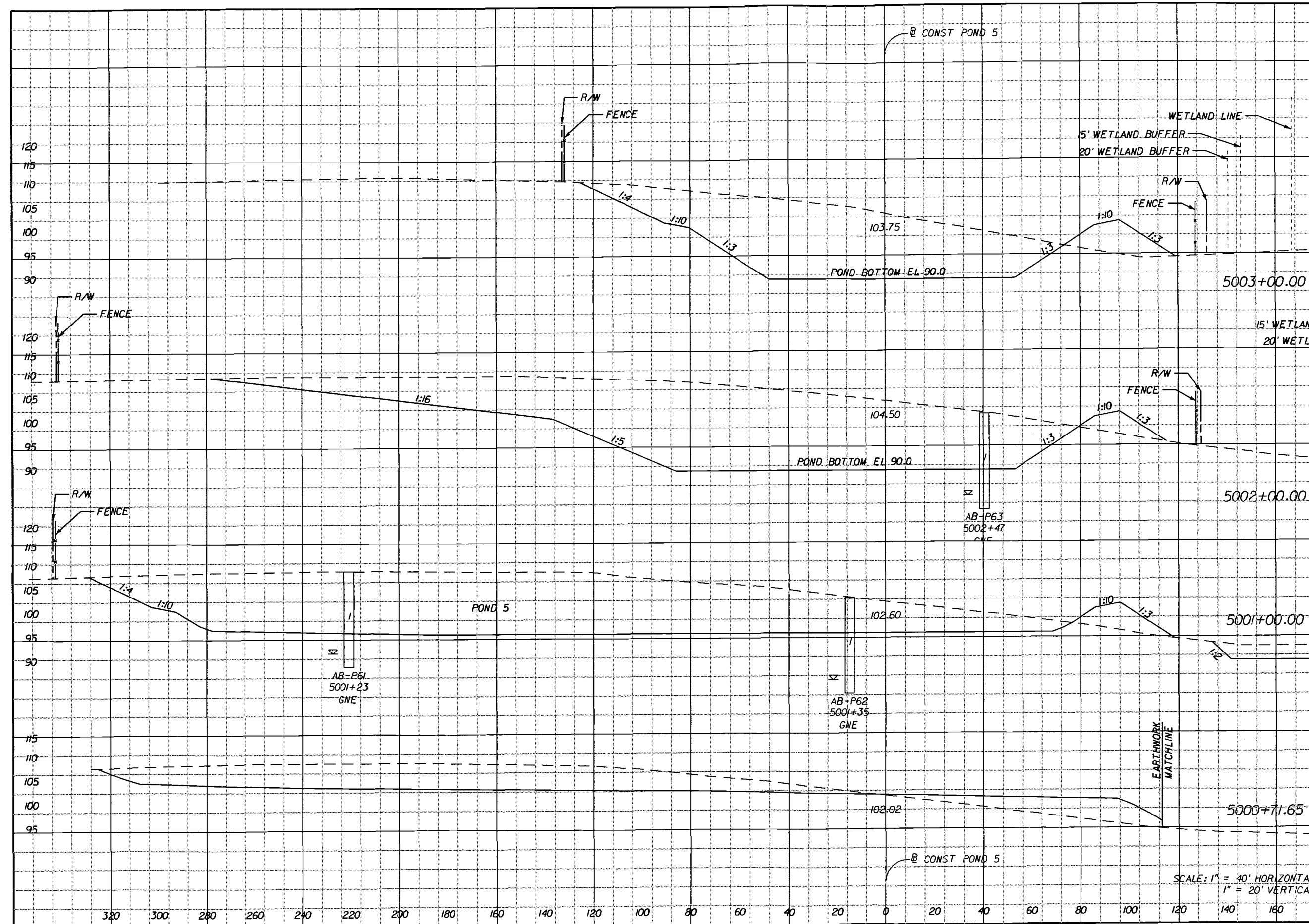
Regular Exc.		Embankment	
A	V	A	V

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REGULATORY
INFORMATION MGT.

2039	10455	182	508
3607	15869	93	412
4962	3270	130	229
1266	0	307	0

Melinda Fischl
5/14/09



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

REVISIONS		
DATE	BY	DESCRIPTION

HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406



**HARTWOOD MARSH
ROAD - PHASE II**

**POND CROSS SECTIONS
POND 5**

SHEET NO.
111

Regular Exc. Embankment
A V A V

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
EXCAVATION	39,766	
EMBANKMENT	2,866	

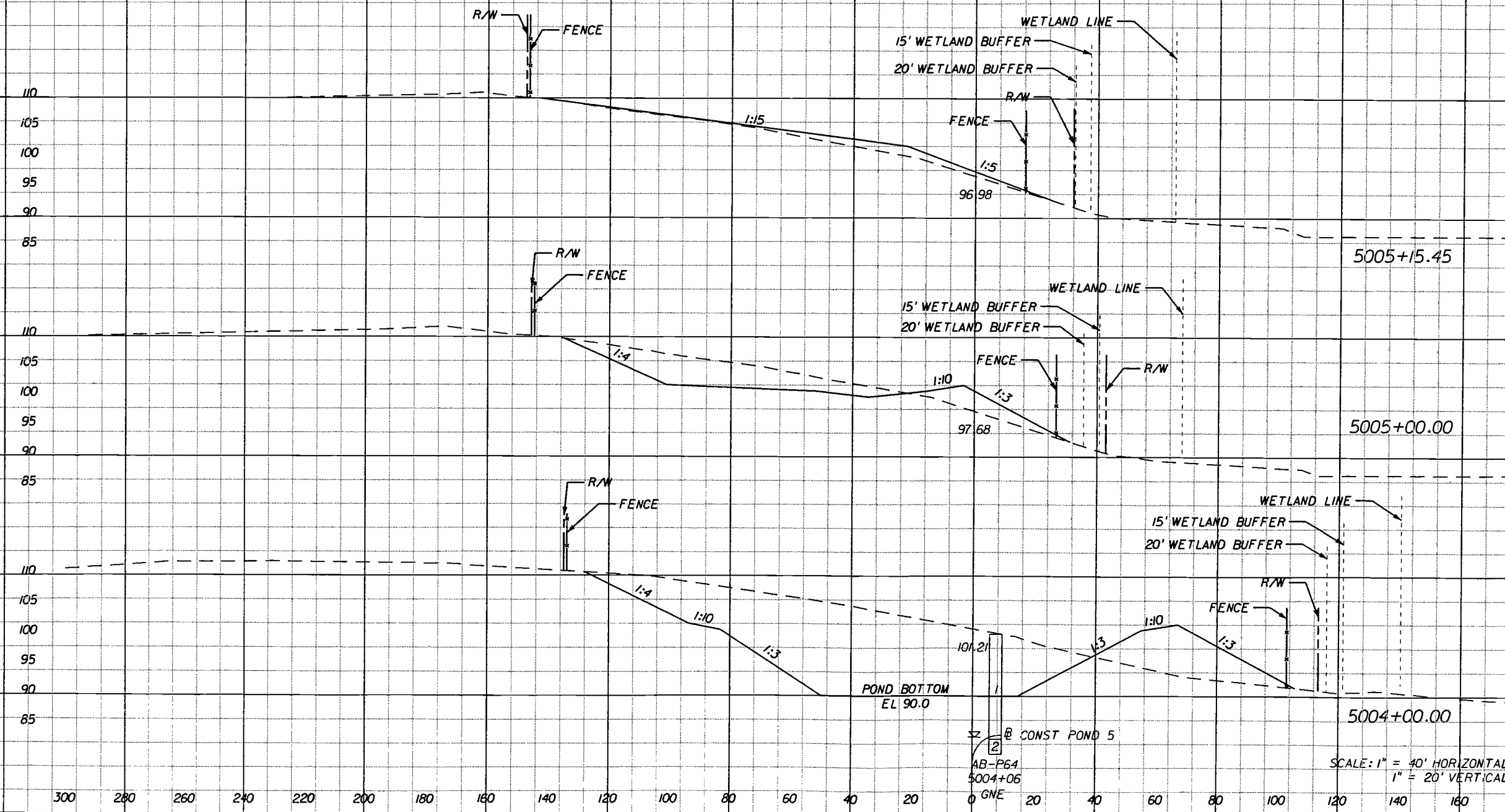
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REGULATORY
INFORMATION NO.

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END EARTHWORK
STA 5005+32.31

0 29 0 17



0 94 93 54

330 3442 95 743

1529 6607 306 903

Melinda Storch
5/14/09

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

300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 GNE 20 40 60 80 100 120 140 160

REVISIONS	
DATE	DESCRIPTION

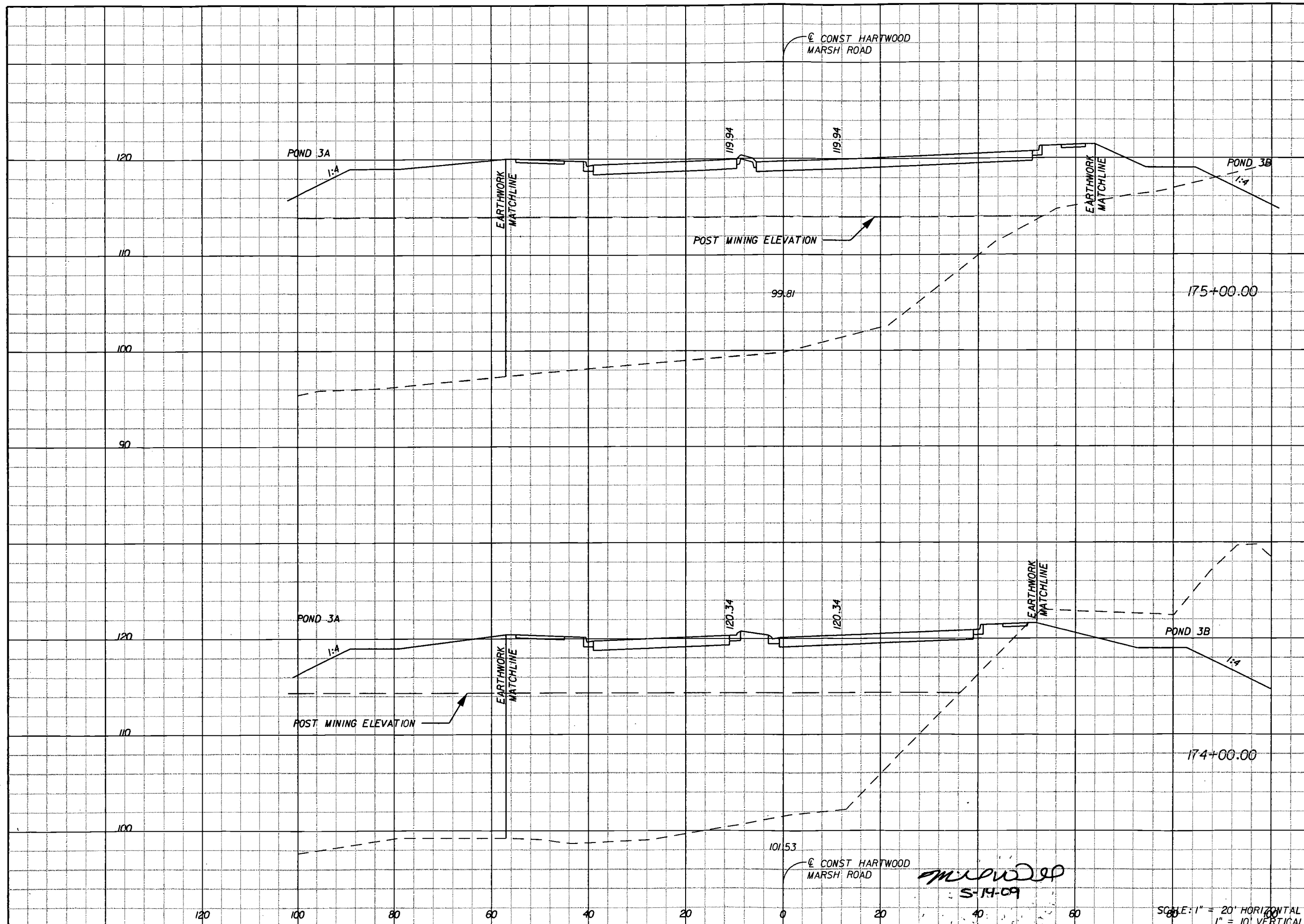
HNTB
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SUITE 200
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(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE II

POND CROSS SECTIONS
POND 5

SHEET
NO.
112



Regular Exc.		Embankment	
A	V	A	V
0	11	2354	7245
6	202	1558	4587

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Michael J. O'Donnell
 5-14-09

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

REVISIONS	
DATE	DESCRIPTION

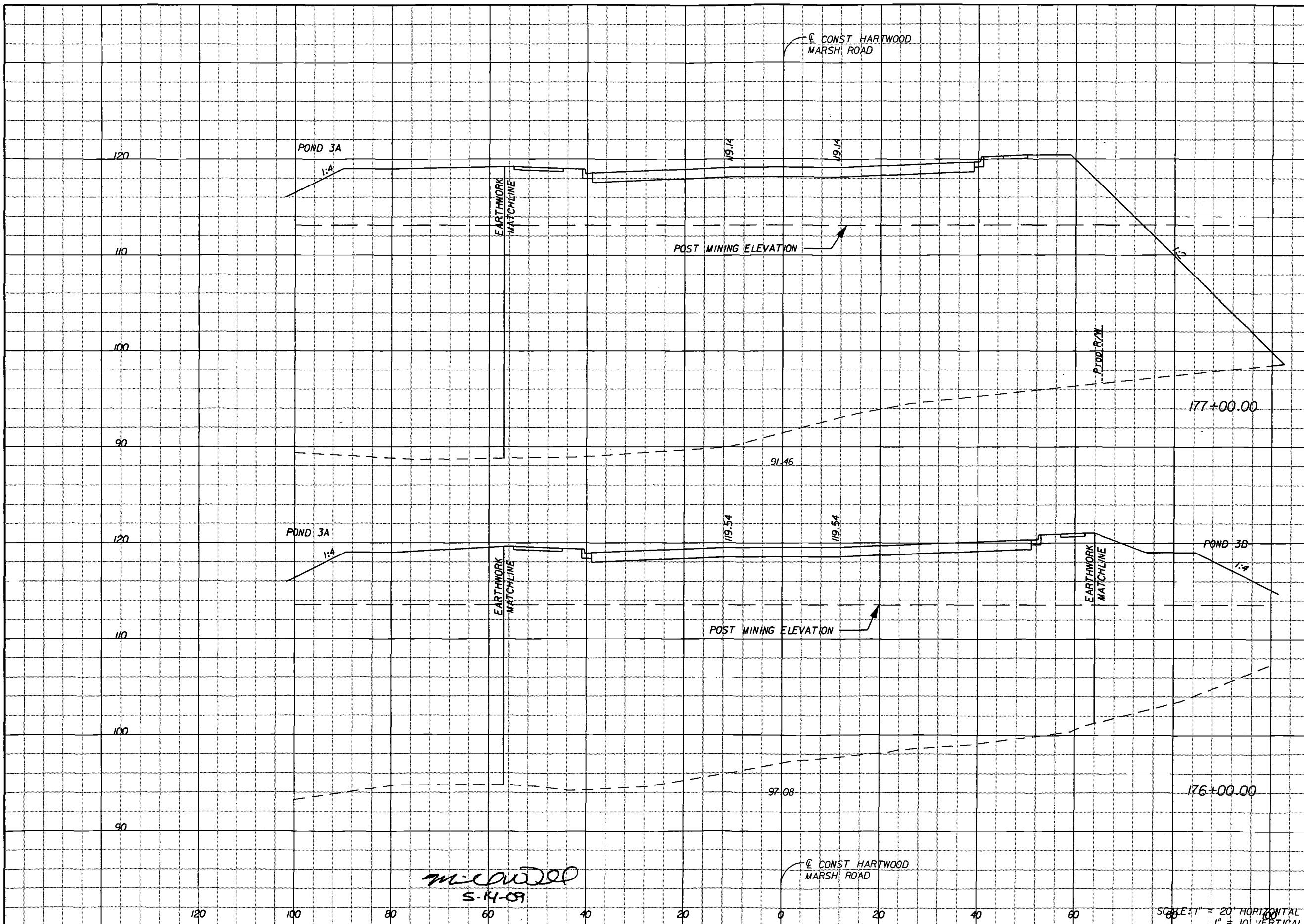
HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD.,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
 135



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	2890		10042	
0	0	2533		9050	

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Michael J. O'Connell
5-14-09

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

REVISIONS	
DATE	DESCRIPTION

HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE HART, FL 32746
1-877-805-0355
CERT. OF AUTH. NO. 6500

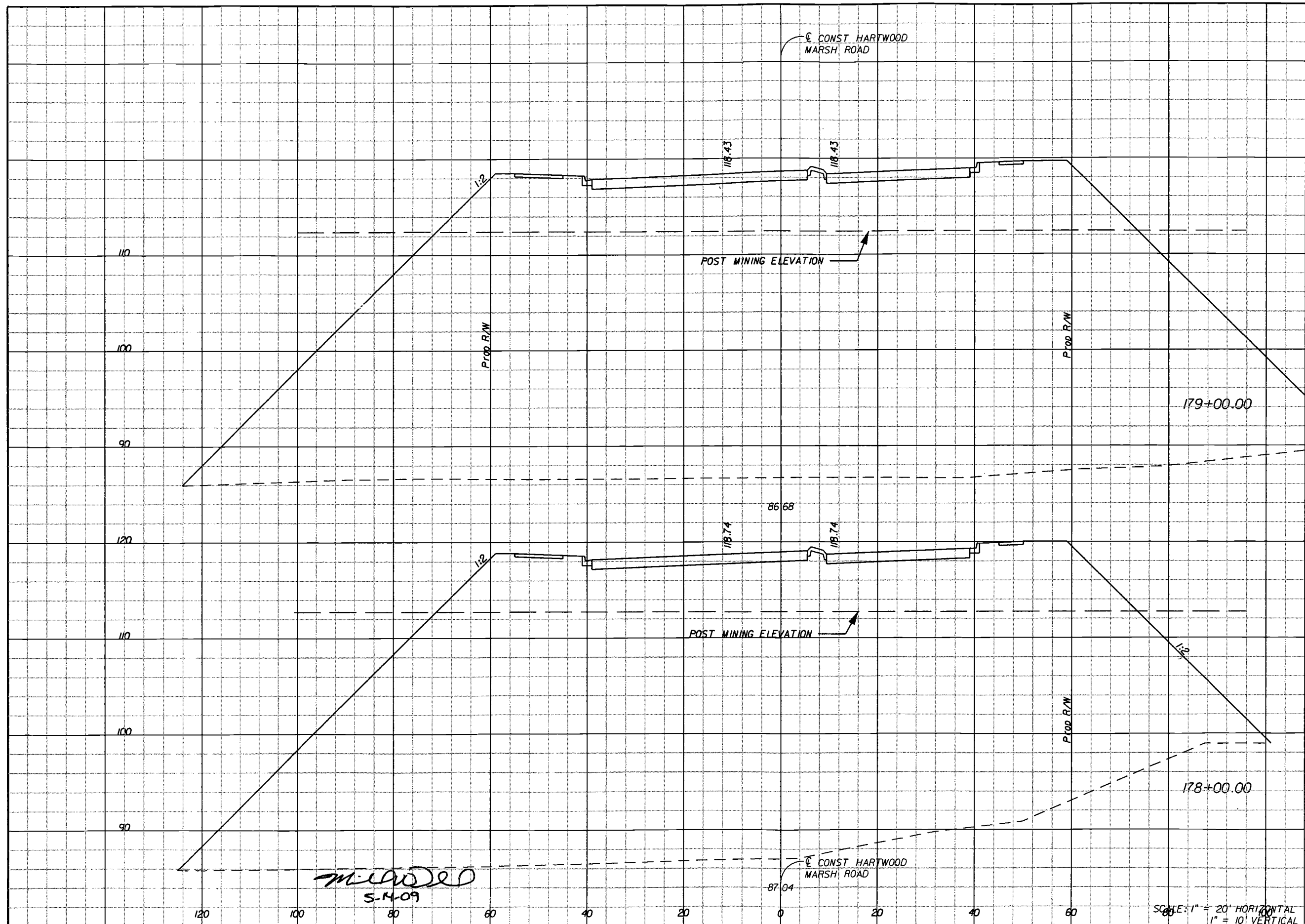
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET NO.
136



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	3246	0	12138	0
0	0	3309	0	11480	0

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INFORMATION NOT
114954-2

Michael
S.M.09

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

REVISIONS		
DATE	BY	DESCRIPTION

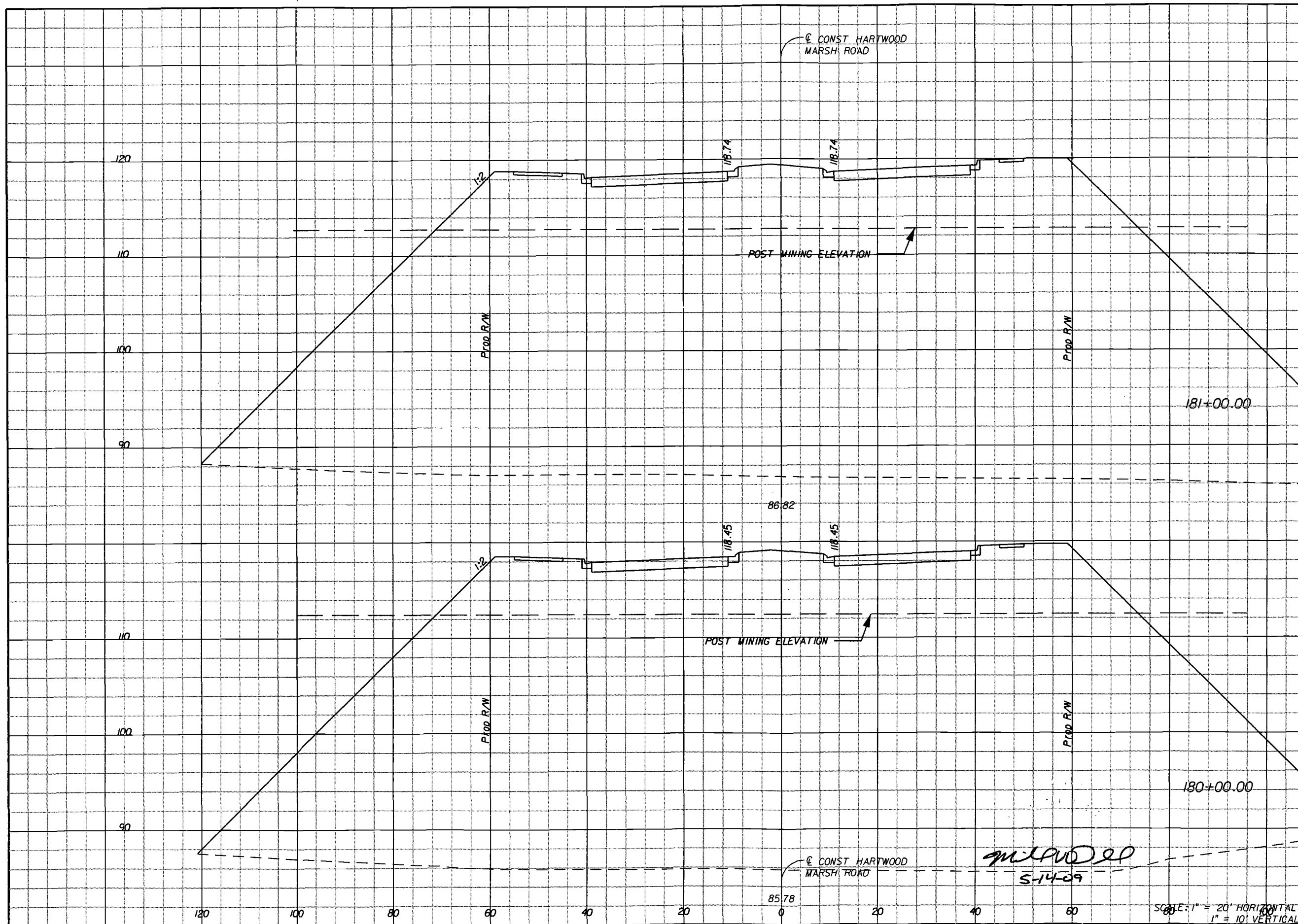
HNTB
HNTB CORPORATION
300 PRIMA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET NO.
137



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	3331	0	12227	0
0	0	3272	0	12070	0

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Michael Vernon O'Donnell
5-14-09

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

REVISIONS	
DATE	DESCRIPTION

HNTB
HNTB CORPORATION
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LAKE MARY, FL 32746
(407) 805-0355
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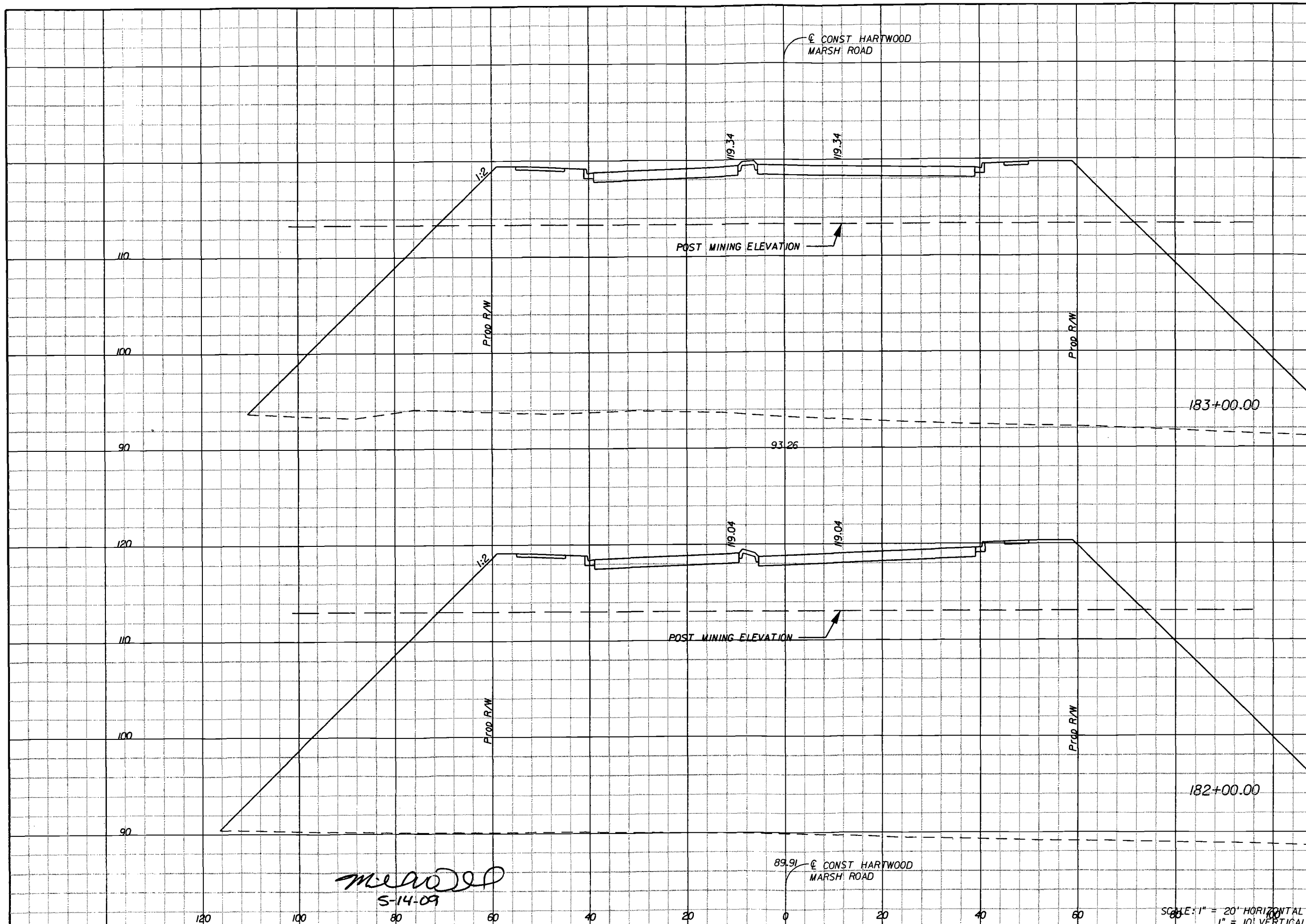
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET NO.
138



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	3359	12450
0	0	0	0	3364	12397

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114854-2
3359

Michael
5-14-09

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

REVISIONS	
DATE	DESCRIPTION

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

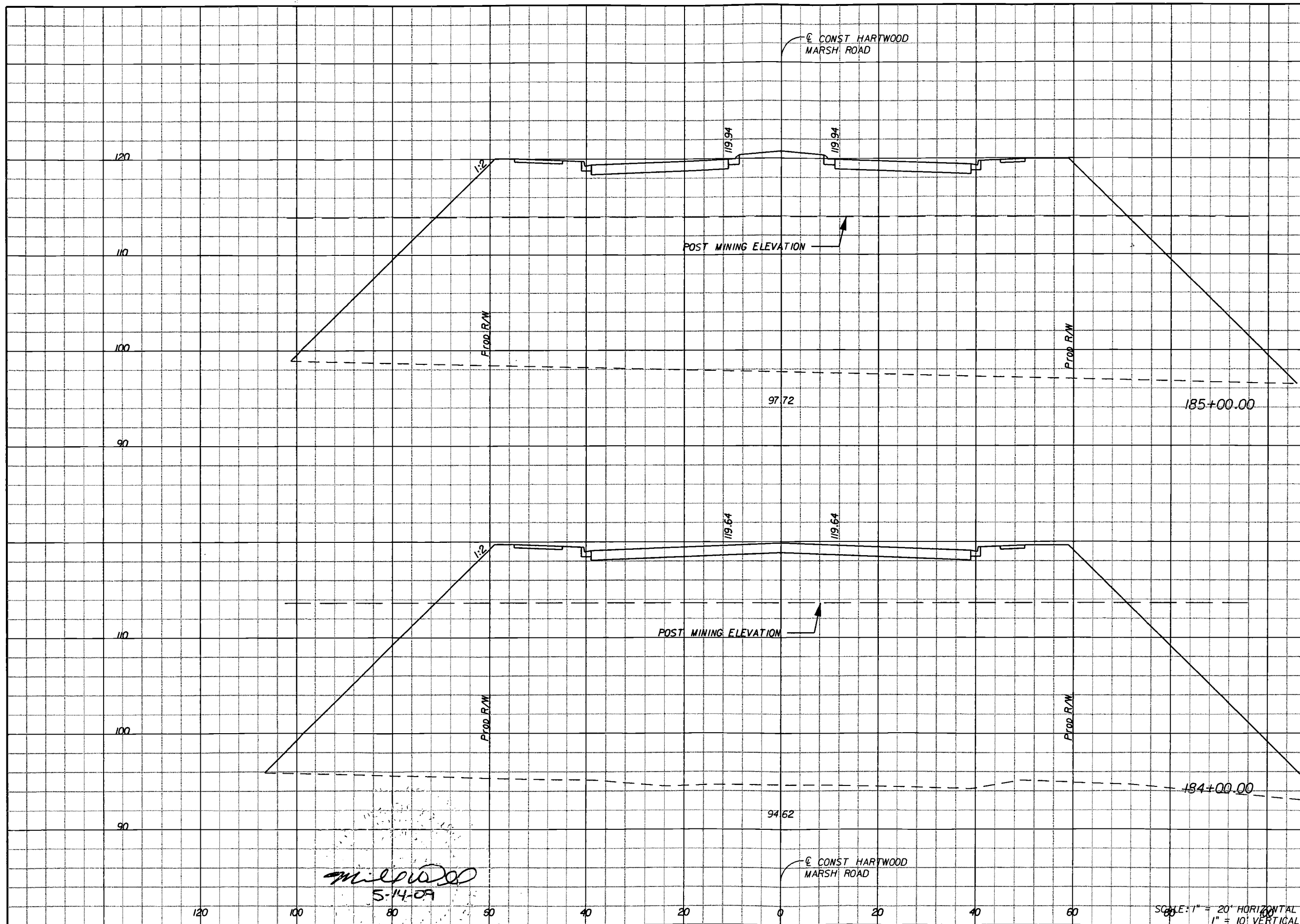
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET
NO.
139



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	12676	
0	0	3392	0	12502	

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 INFORMATION MGT.
 114554-2
 12676

Michael O'Donnell
 5-14-09

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

REVISIONS	
DATE	DESCRIPTION

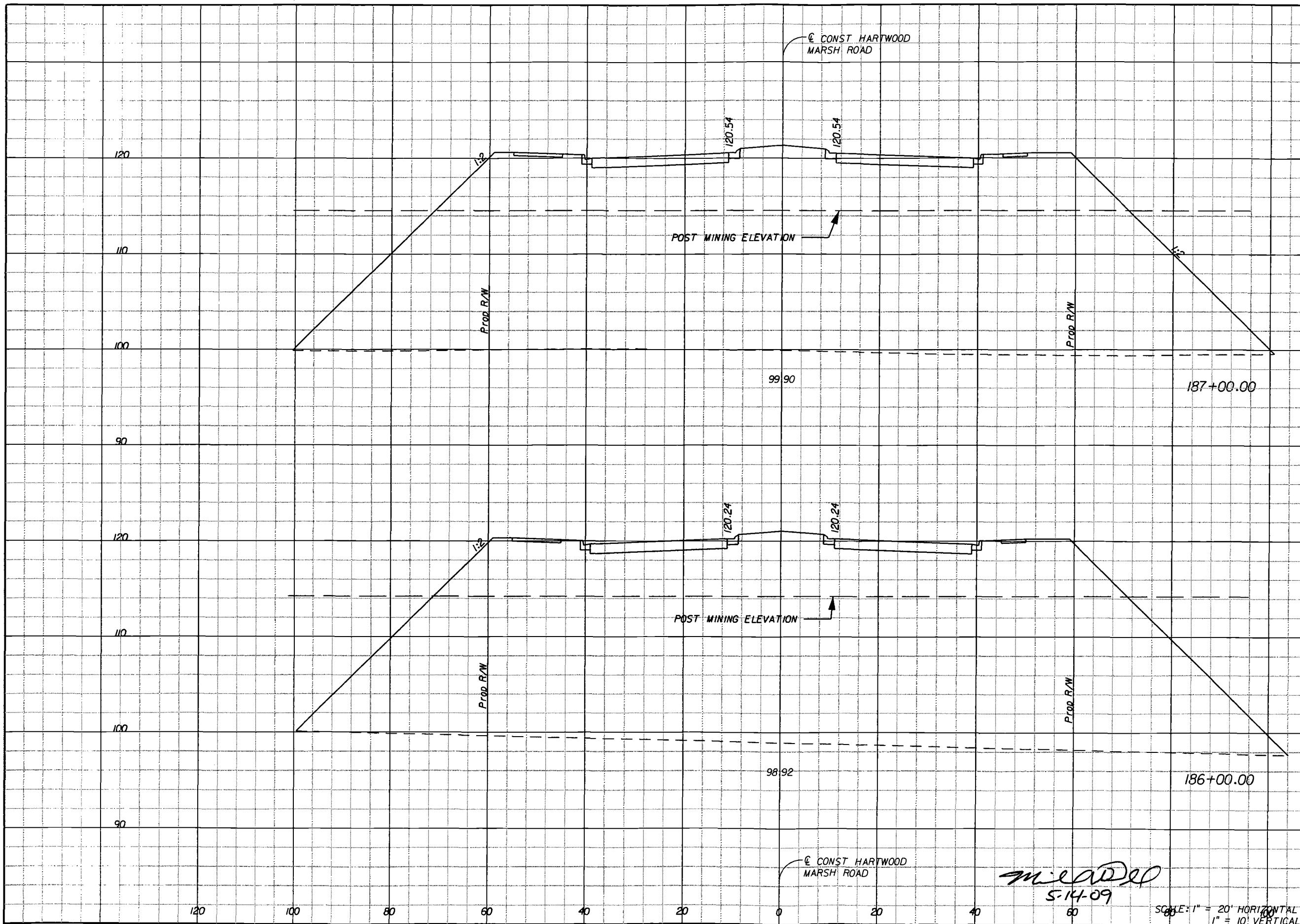
HNTB
 HNTB CORPORATION
 300 PRIMA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
140



Regular		Exc.		Embankment	
A	V	A	V	A	V
0					
0				3369	
		0			12634

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12250
09114954-2

Michael
5-14-09

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

REVISIONS	
DATE	DESCRIPTION

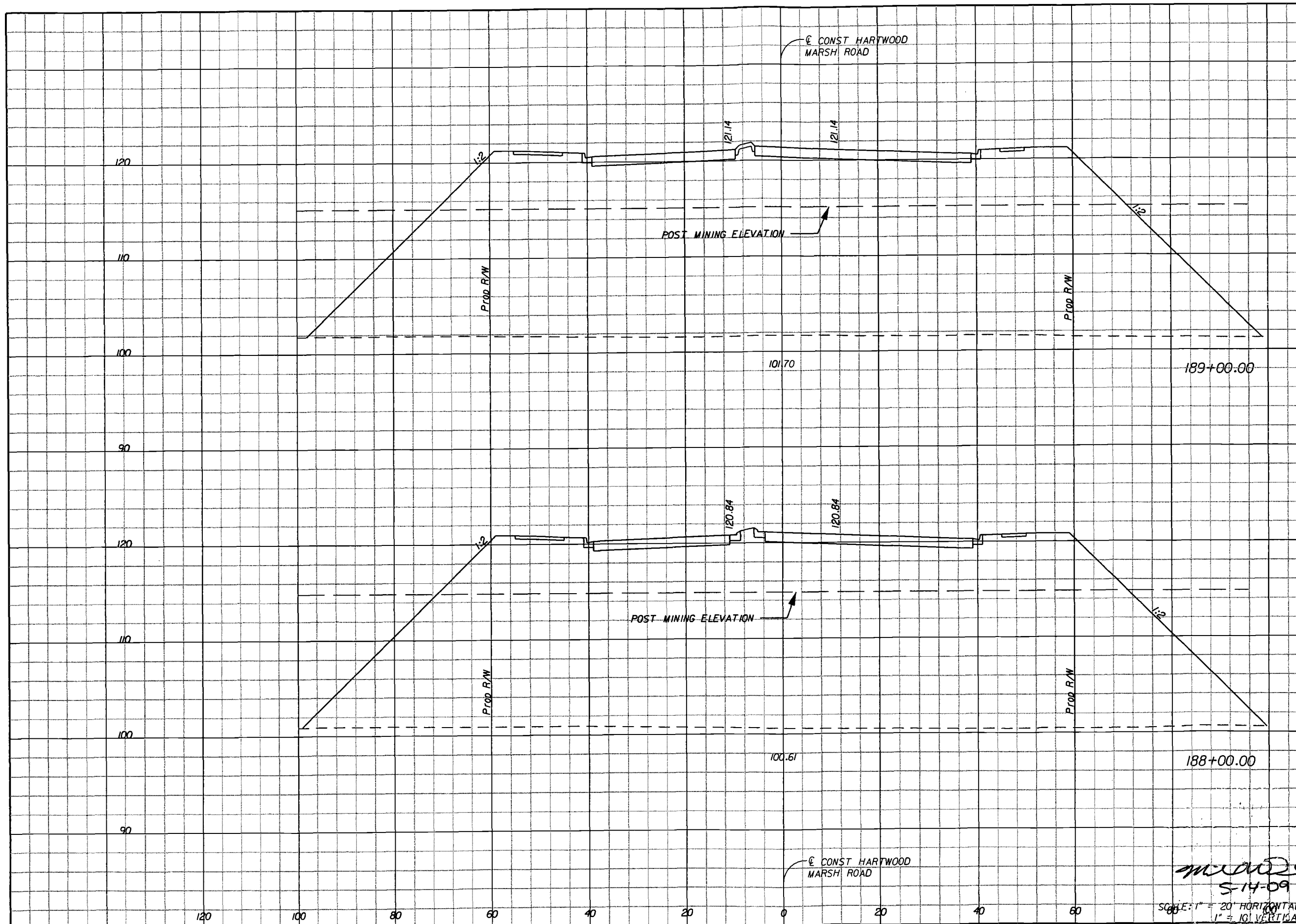
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET
NO.
141



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	2971	0
0	0	0	0	3100	11751

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 INFORMATION
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SCALE: 1" = 20' HORIZONTAL
 1" = 10' VERTICAL
 5-14-09

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DATE	DESCRIPTION

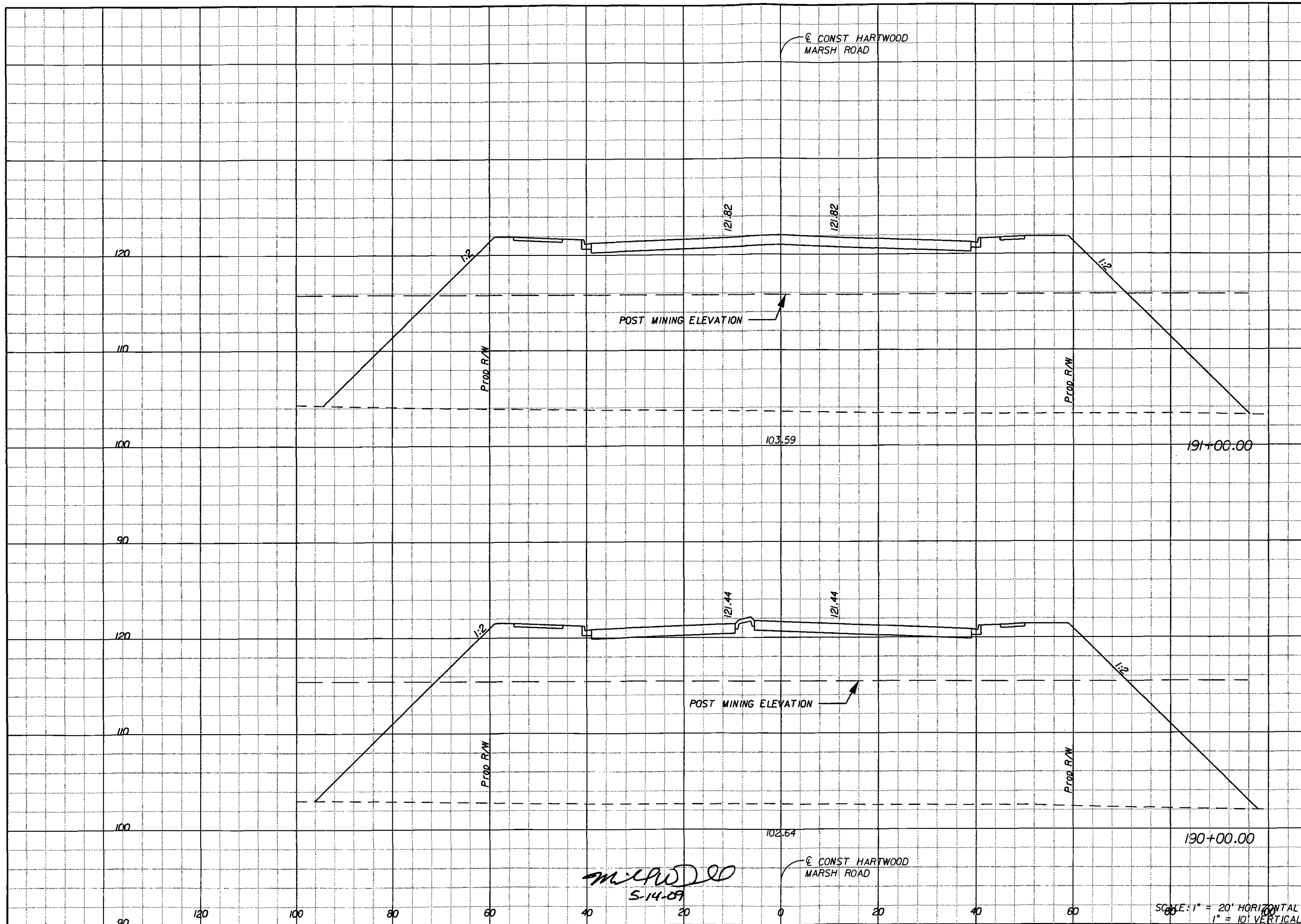
HNTB
 HNTB CORPORATION
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 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
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 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
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**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
 142



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	2712	0	10284	0
0	0	2841	0	10763	0

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114354-2

Michael Vernon O'Donnell
5-14-09

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

DATE	BY	REVISIONS DESCRIPTION

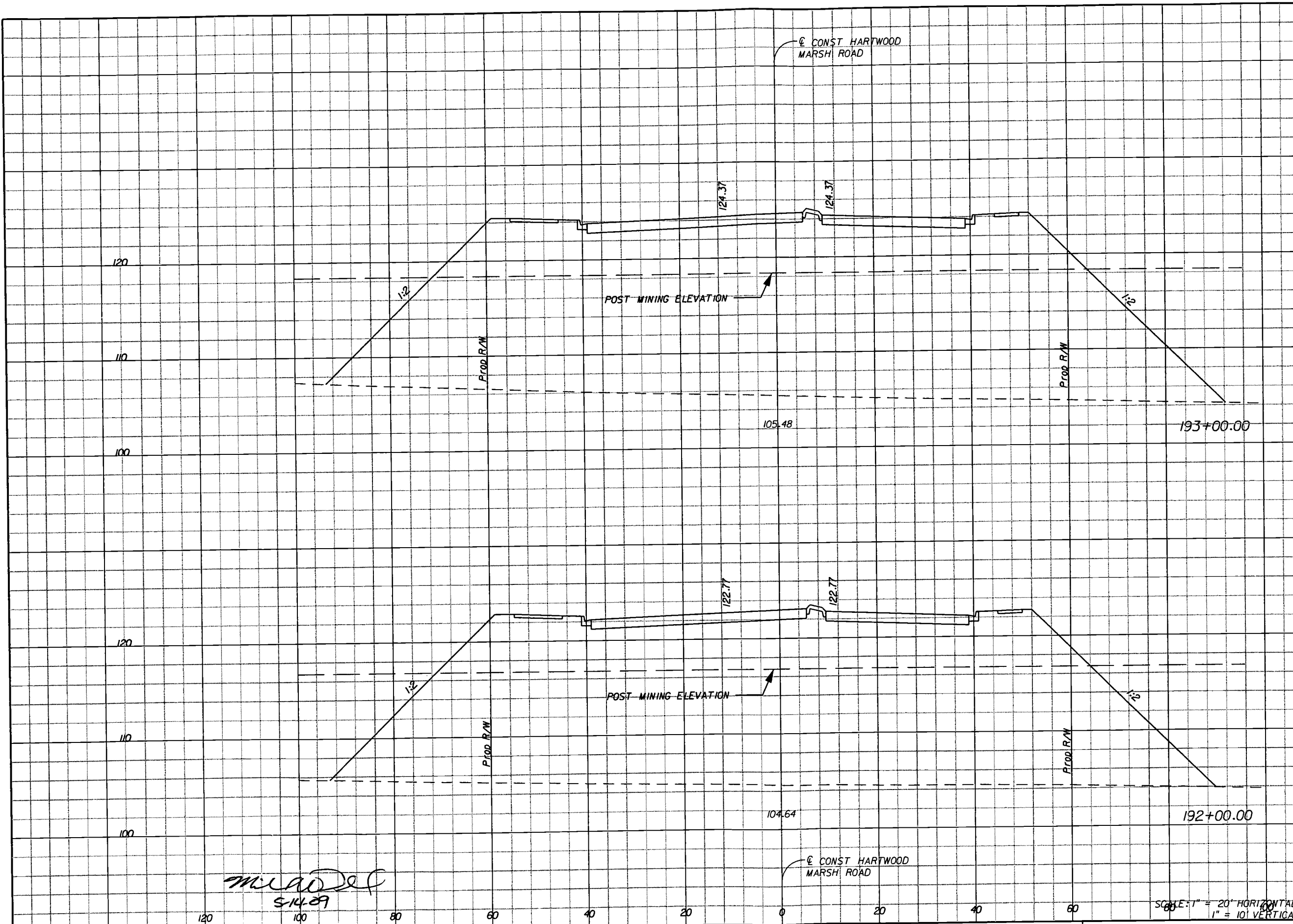
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



HARTWOOD MARSH ROAD - PHASE II

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET NO.
143



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	2696	0	9724	0
0	0	2555	0	9753	0

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 14254-2

Michael Vernon O'Donnell
 5/14/09

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

REVISIONS	
DATE	DESCRIPTION

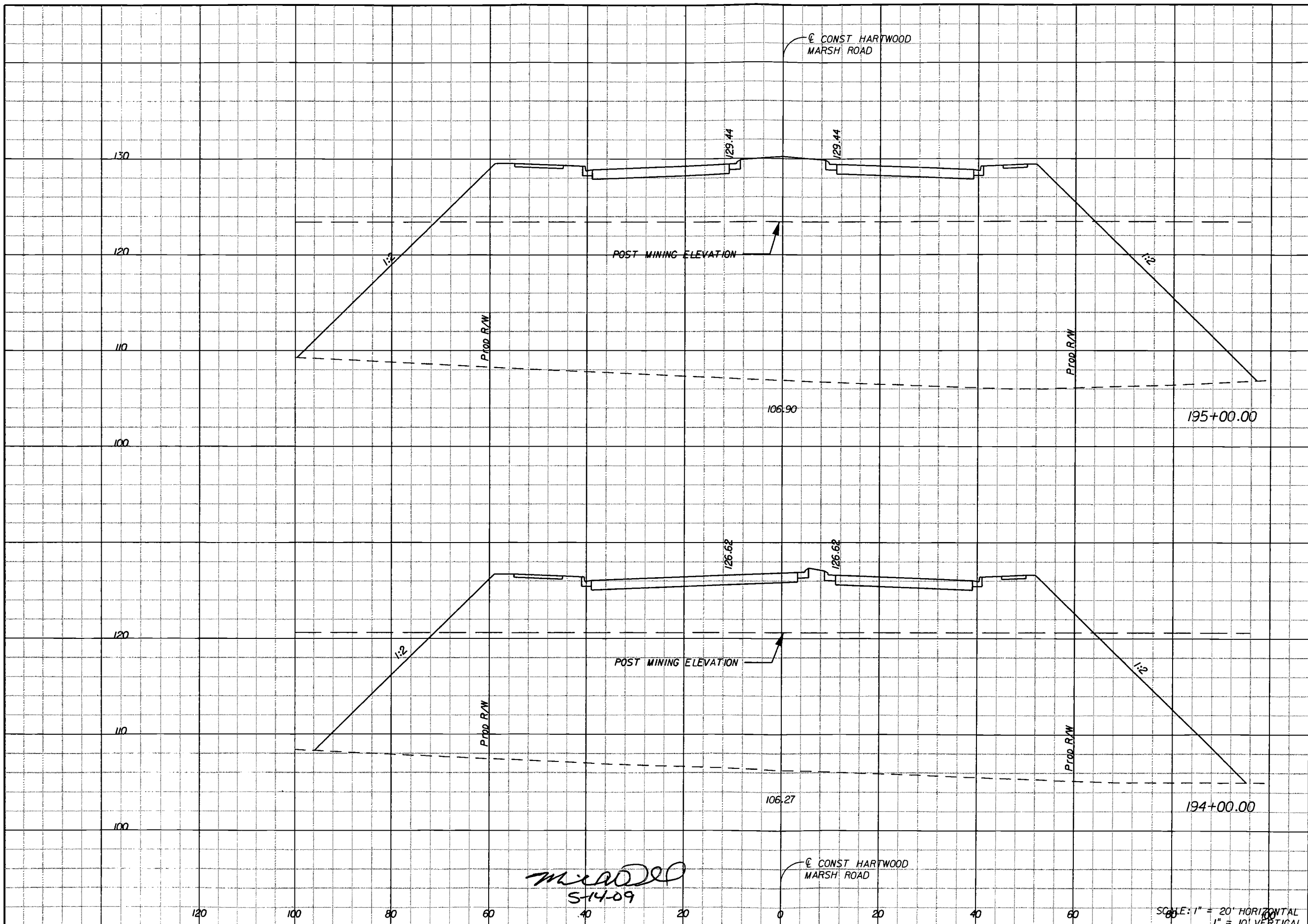
HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD.
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
 144



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	3375	0	11758	0
0	0	2974	0	10501	0

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

REVISIONS		DESCRIPTION
DATE	BY	

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

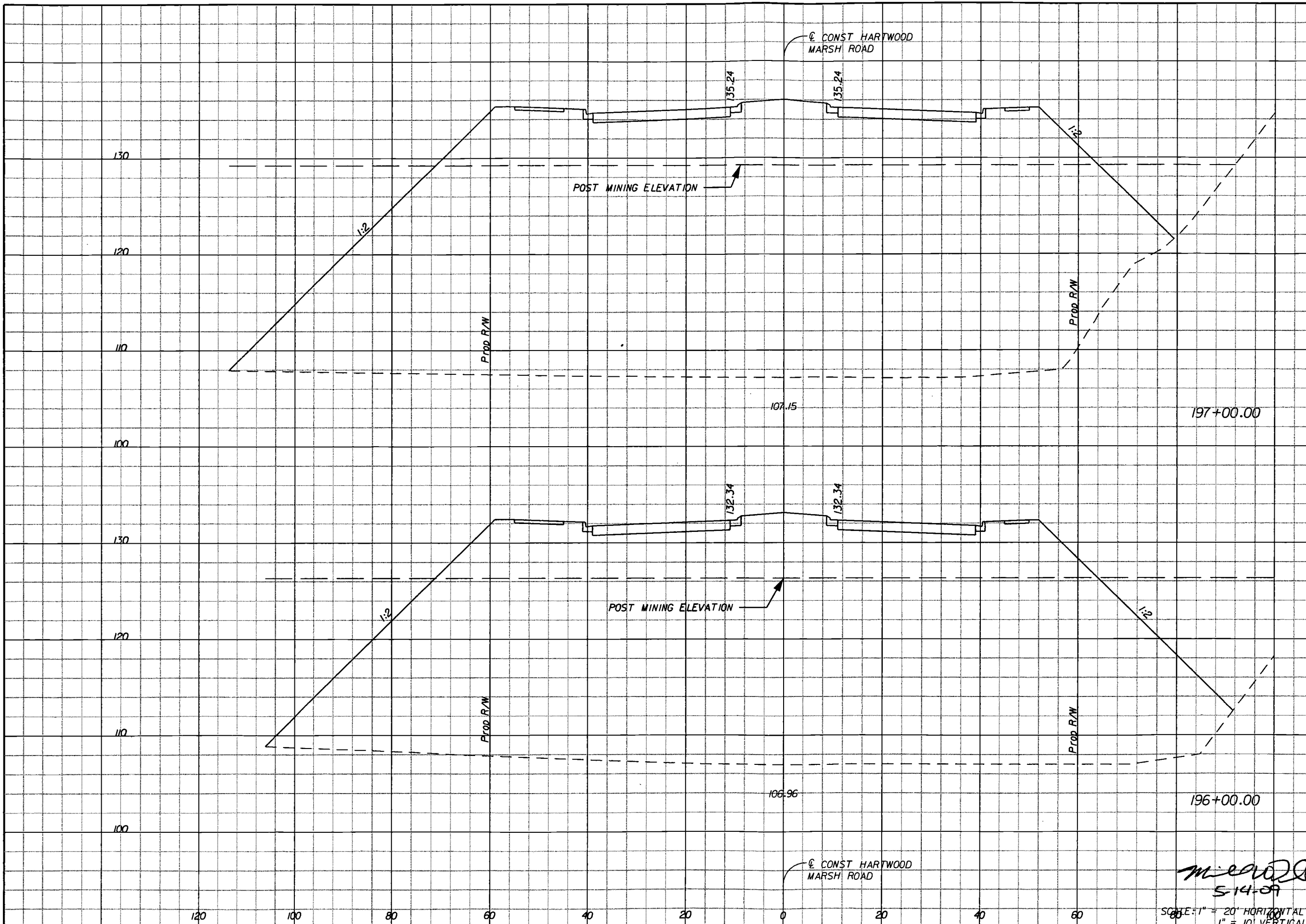
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
145



Regular		Exc.		Embankment	
A	V	A	V	A	V
0				412	
		0			14913
0				3881	
		0			13438

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INFORMATION MGT.
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Michael
5-14-09
SCALE: 1" = 20' HORIZONTAL
1" = 10' VERTICAL

REVISIONS	
DATE	DESCRIPTION

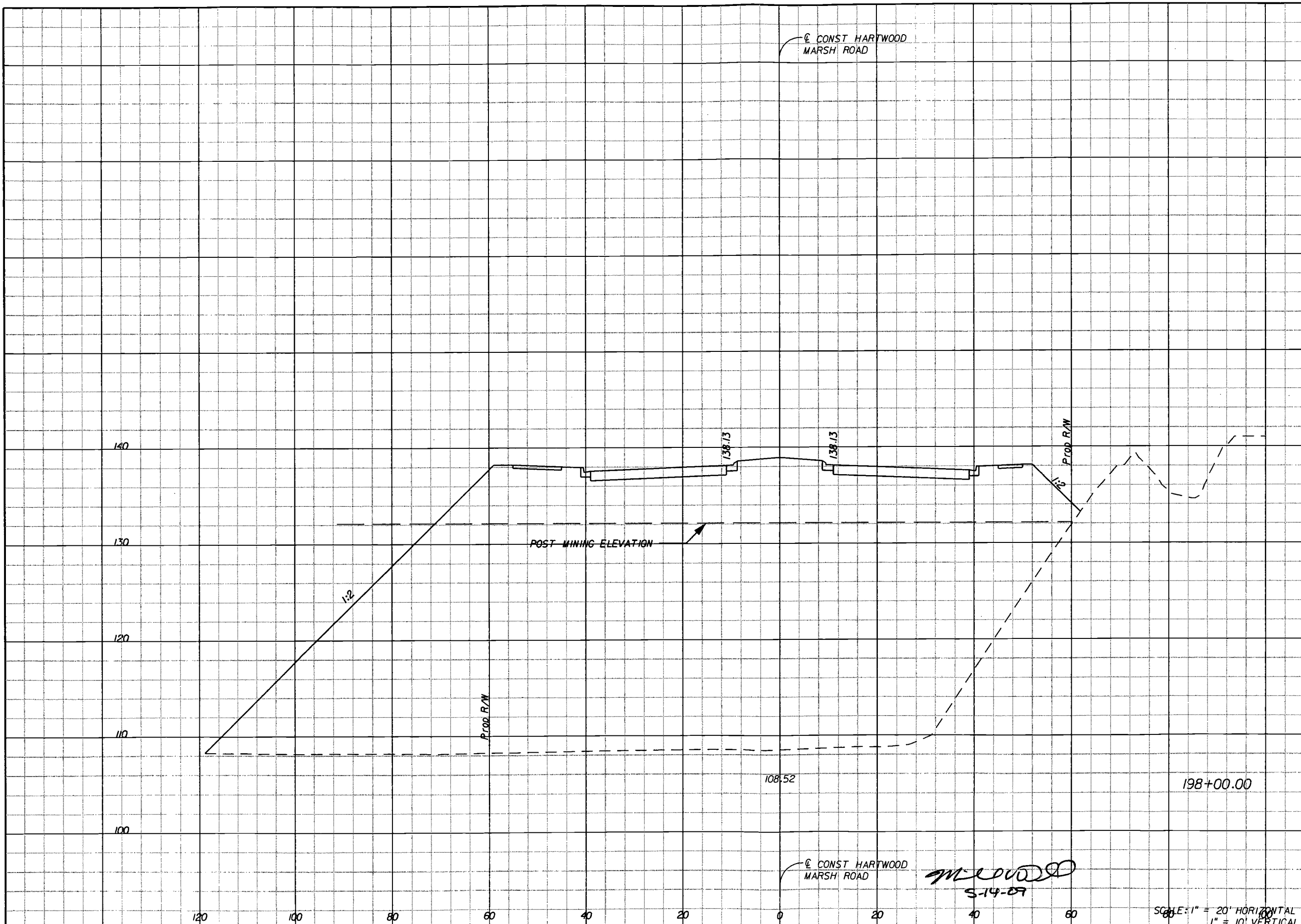
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
14071805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET NO.
140



Regular		Exc.		Embankment	
A	V	A	V	A	V
0				3969	
		0			15077

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114854-2

M. J. O'Donnell
5-14-09

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

REVISIONS	
DATE	DESCRIPTION

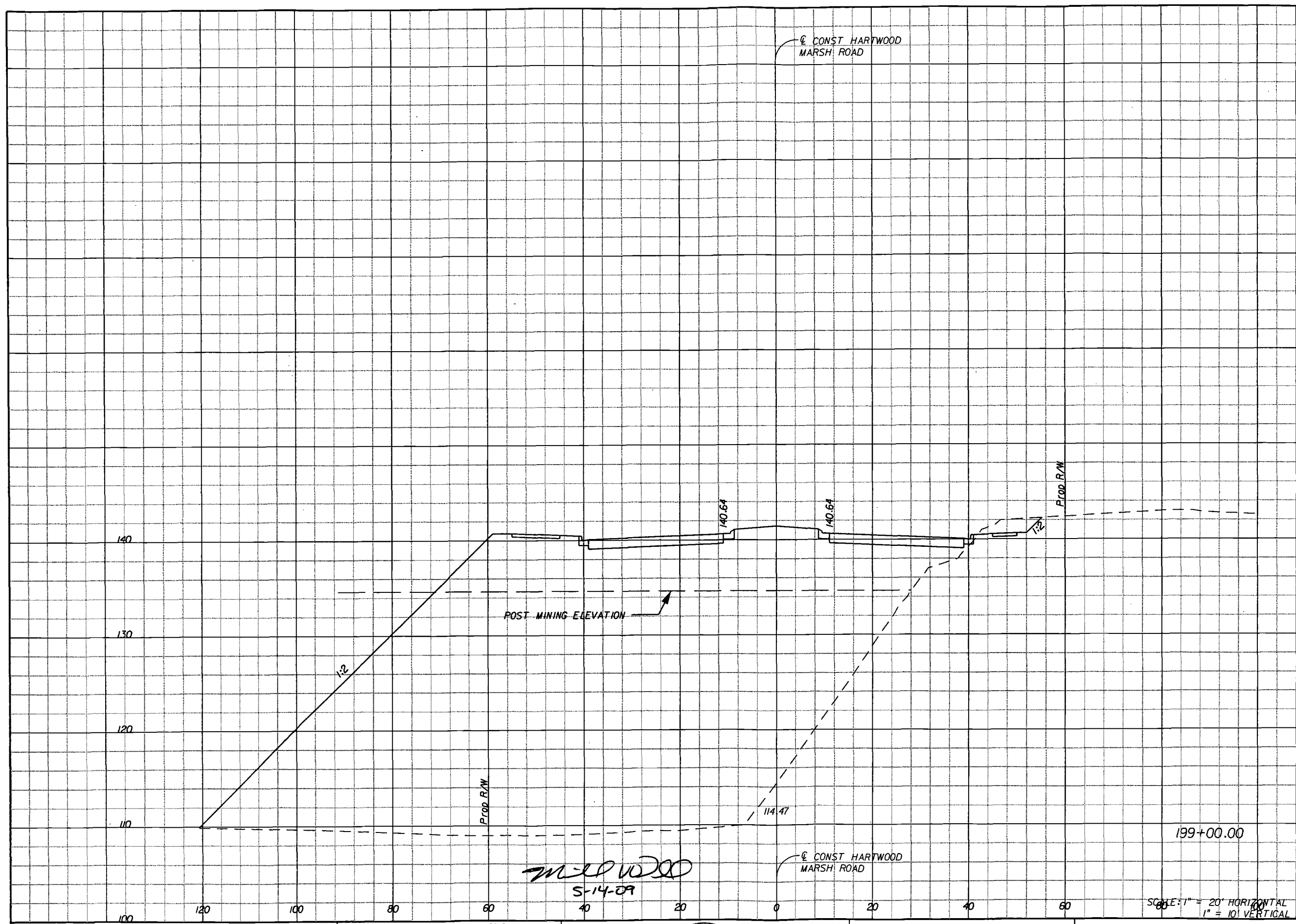
HNTB
HNTB CORPORATION
300 PRIMERA BLVD.,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
FL. REGISTRATION NO. 67442



**HARTWOOD MARSH
ROAD - PHASE II**

**CROSS SECTIONS
HARTWOOD MARSH ROAD**

SHEET NO.
147



Regular		Exc.		Embankment	
A	V	A	V	A	V
16				3230	
	29				13332

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REVISIONS	
DATE	DESCRIPTION

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

ENGINEER OF RECORD: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442



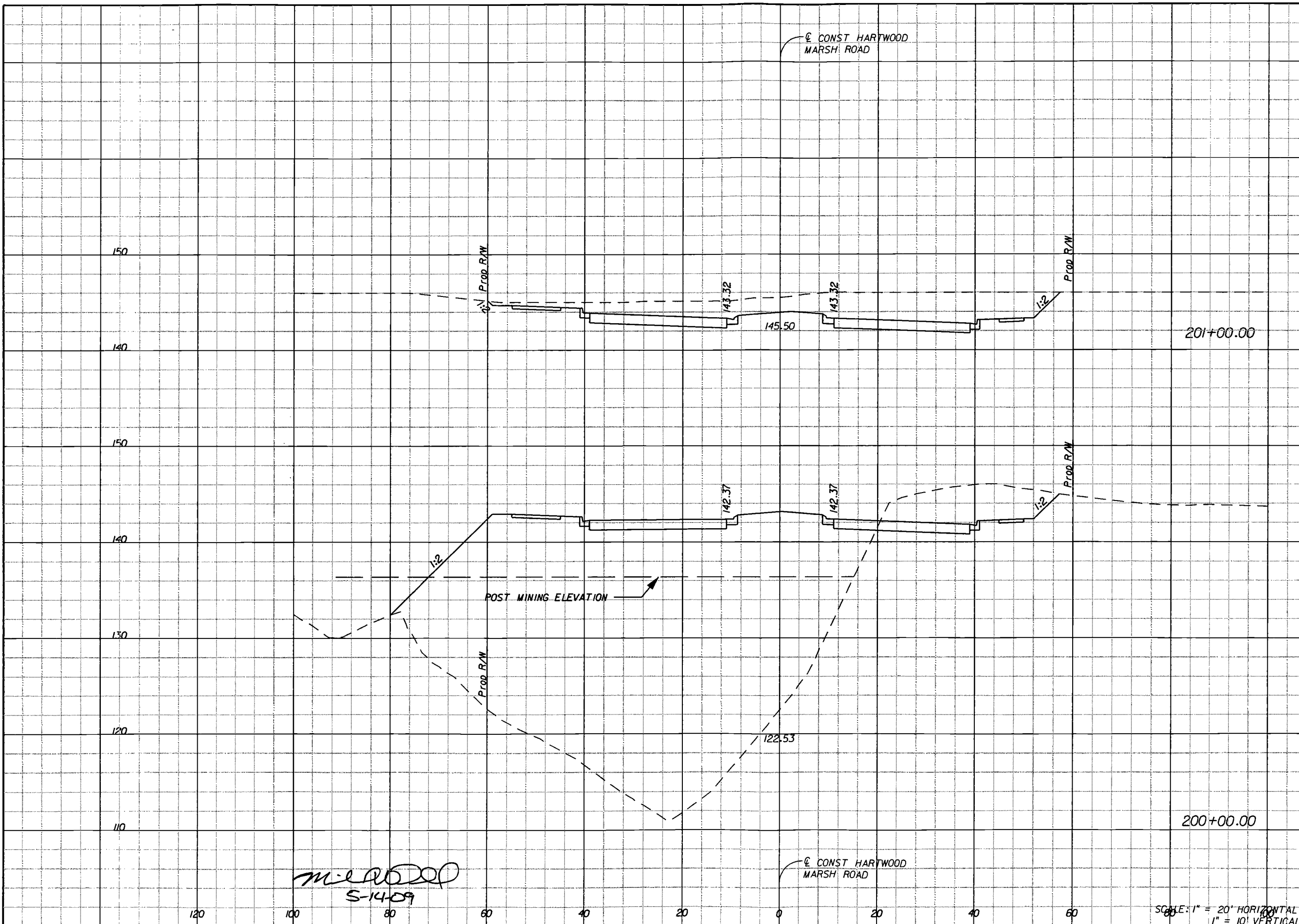
**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
 148

M. J. W. D. S.
 S-14-09

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



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
201+00.00	285	0	772	0	3599	0
200+00.00	132	1943	273	9580		

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SCALE: 1" = 20' HORIZONTAL
 1" = 10' 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: MICHAEL VERNON O'DONNELL, P.E.
 FL. REGISTRATION NO. 67442

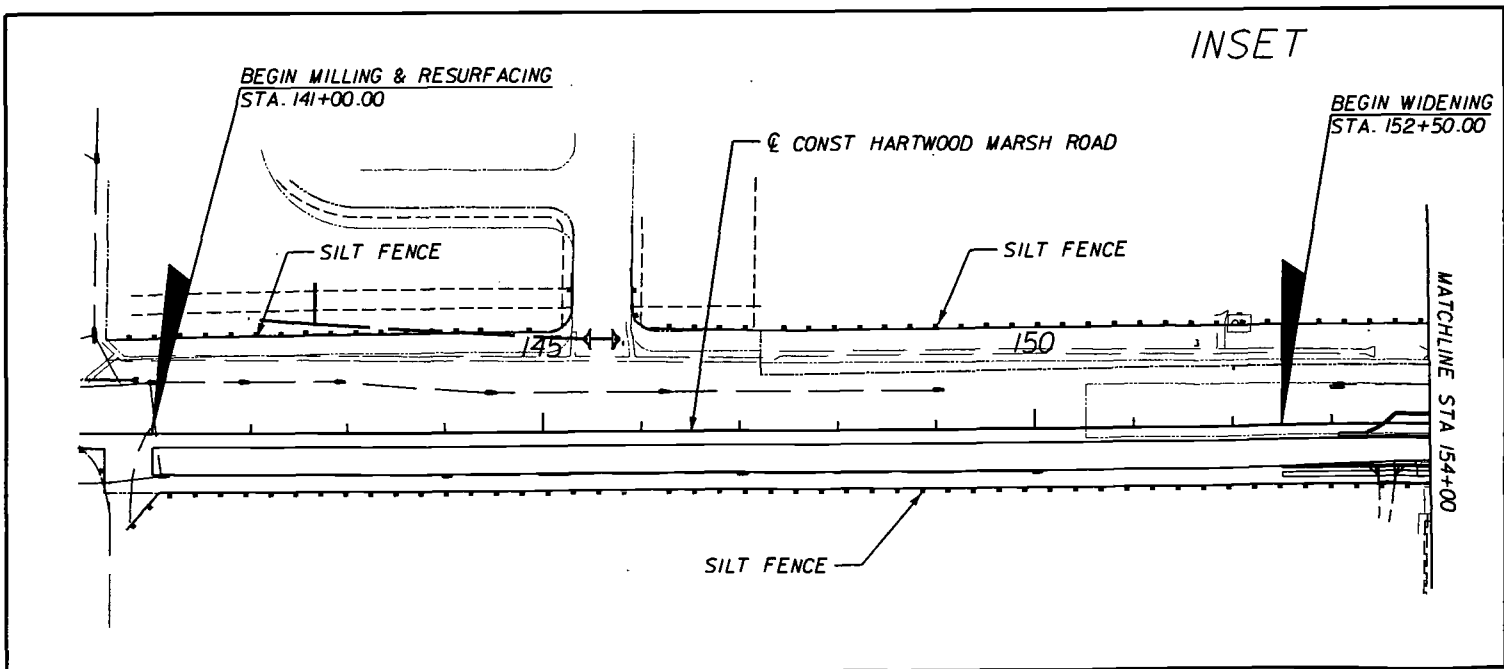
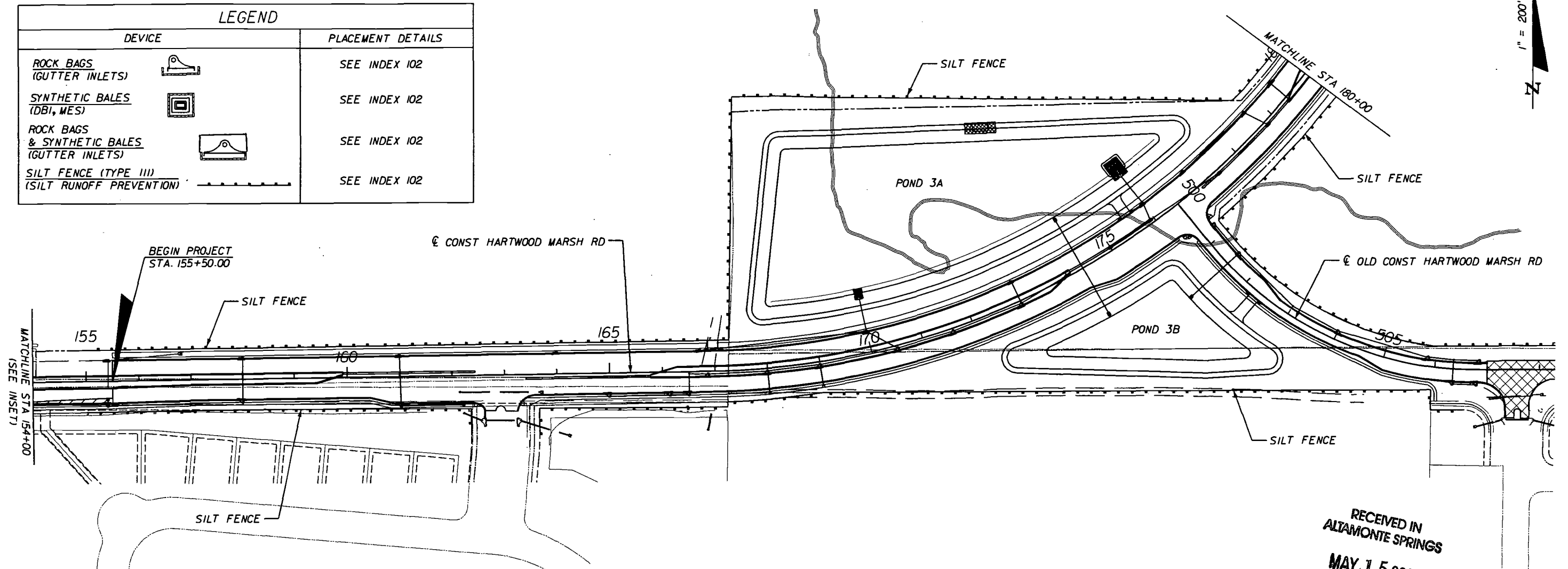


**HARTWOOD MARSH
 ROAD - PHASE II**

**CROSS SECTIONS
 HARTWOOD MARSH ROAD**

SHEET NO.
 149

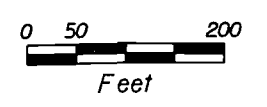
LEGEND		PLACEMENT DETAILS
DEVICE		
ROCK BAGS (GUTTER INLETS)		SEE INDEX 102
SYNTHETIC BALES (DBI, MES)		SEE INDEX 102
ROCK BAGS & SYNTHETIC BALES (GUTTER INLETS)		SEE INDEX 102
SILT FENCE (TYPE III) (SILT RUNOFF PREVENTION)		SEE INDEX 102



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5114109



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DATE	BY	DESCRIPTION

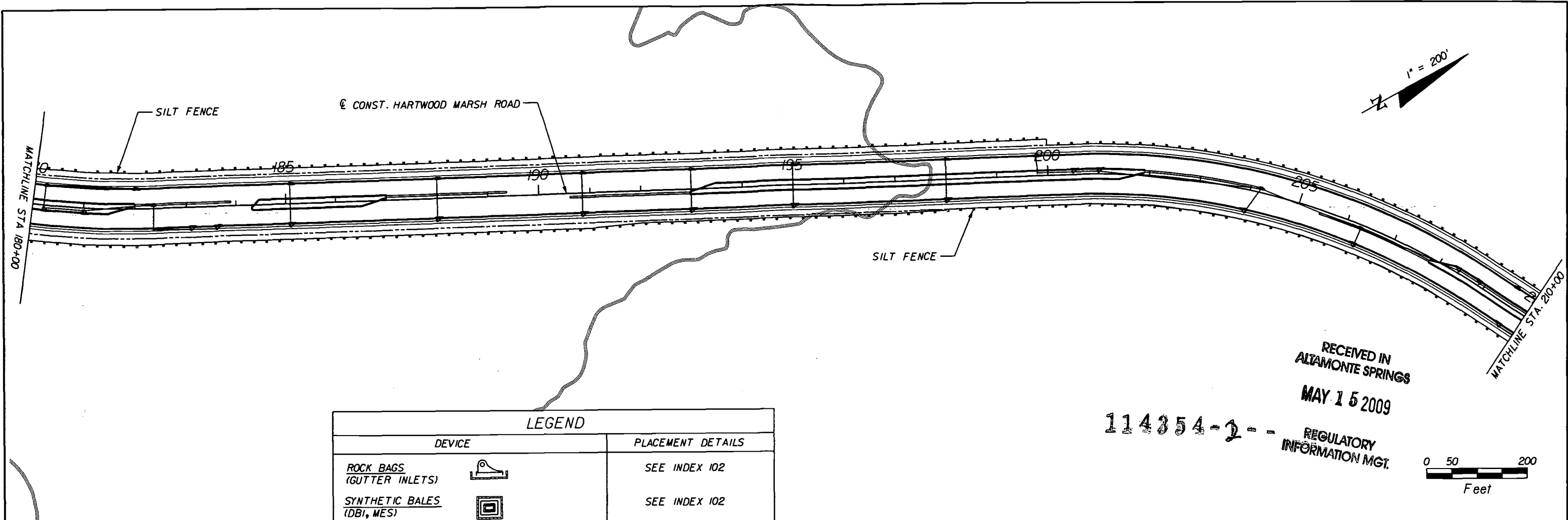
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406







**HARTWOOD MARSH
- ROAD - PHASE II**

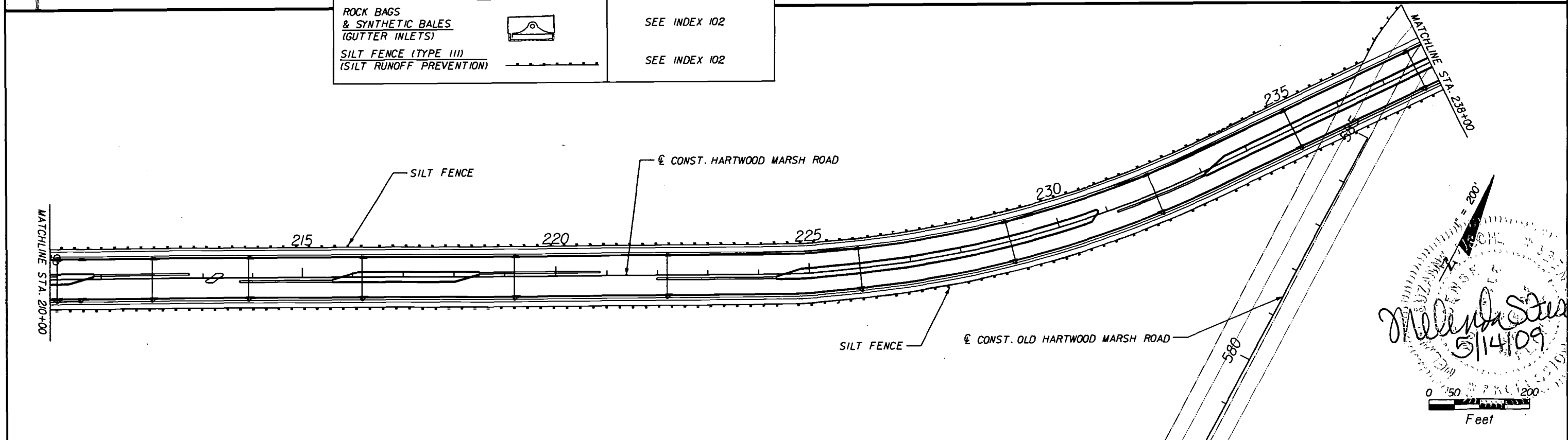
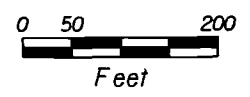
EROSION CONTROL

SHEET NO.
204



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

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Melinda Fischl
5/14/09
Professional Engineer
FLORIDA
REG. NO. 68406
114854-2-205

REVISIONS	
DATE	DESCRIPTION

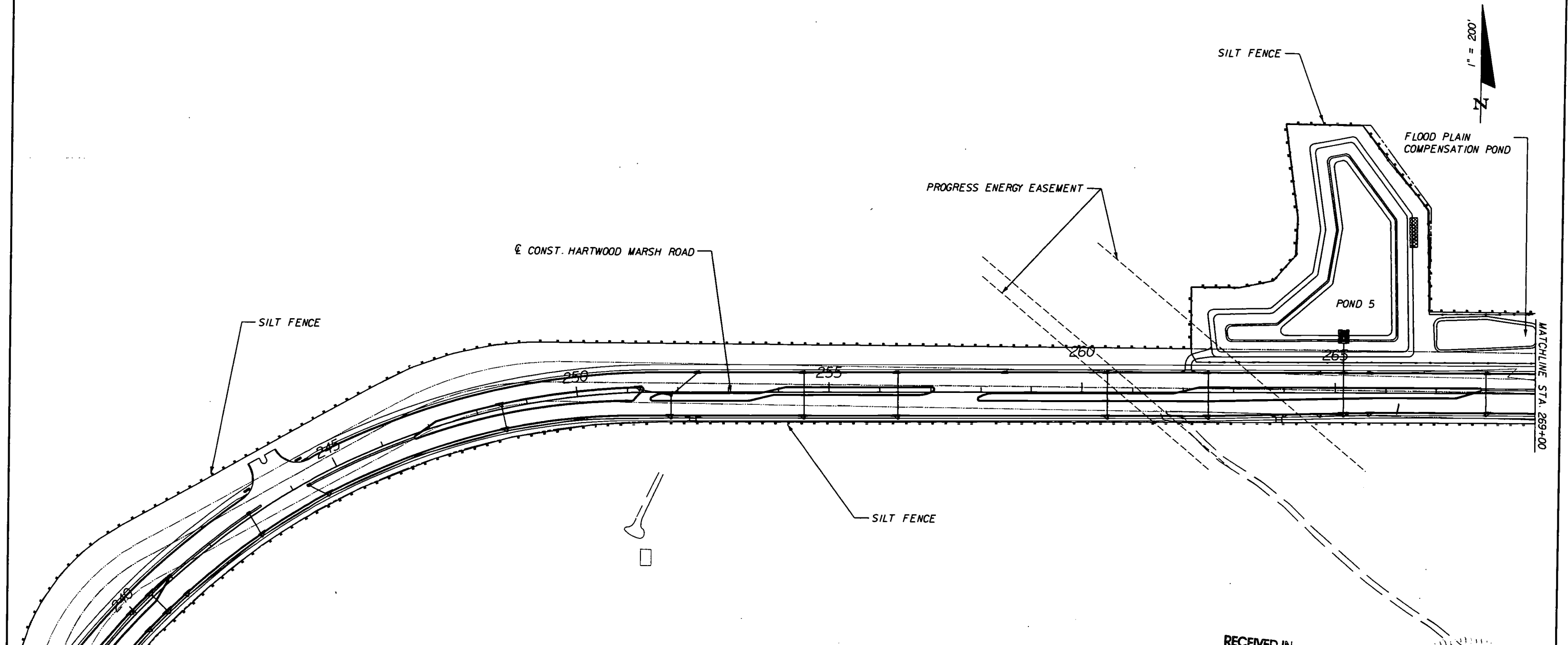
HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE WARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406


LAKE COUNTY
FLORIDA

**HARTWOOD MARSH
ROAD - PHASE II**

EROSION CONTROL

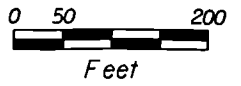
SHEET NO.
205



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

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DATE	BY	DESCRIPTION

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

ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

LAKE COUNTY
FLORIDA

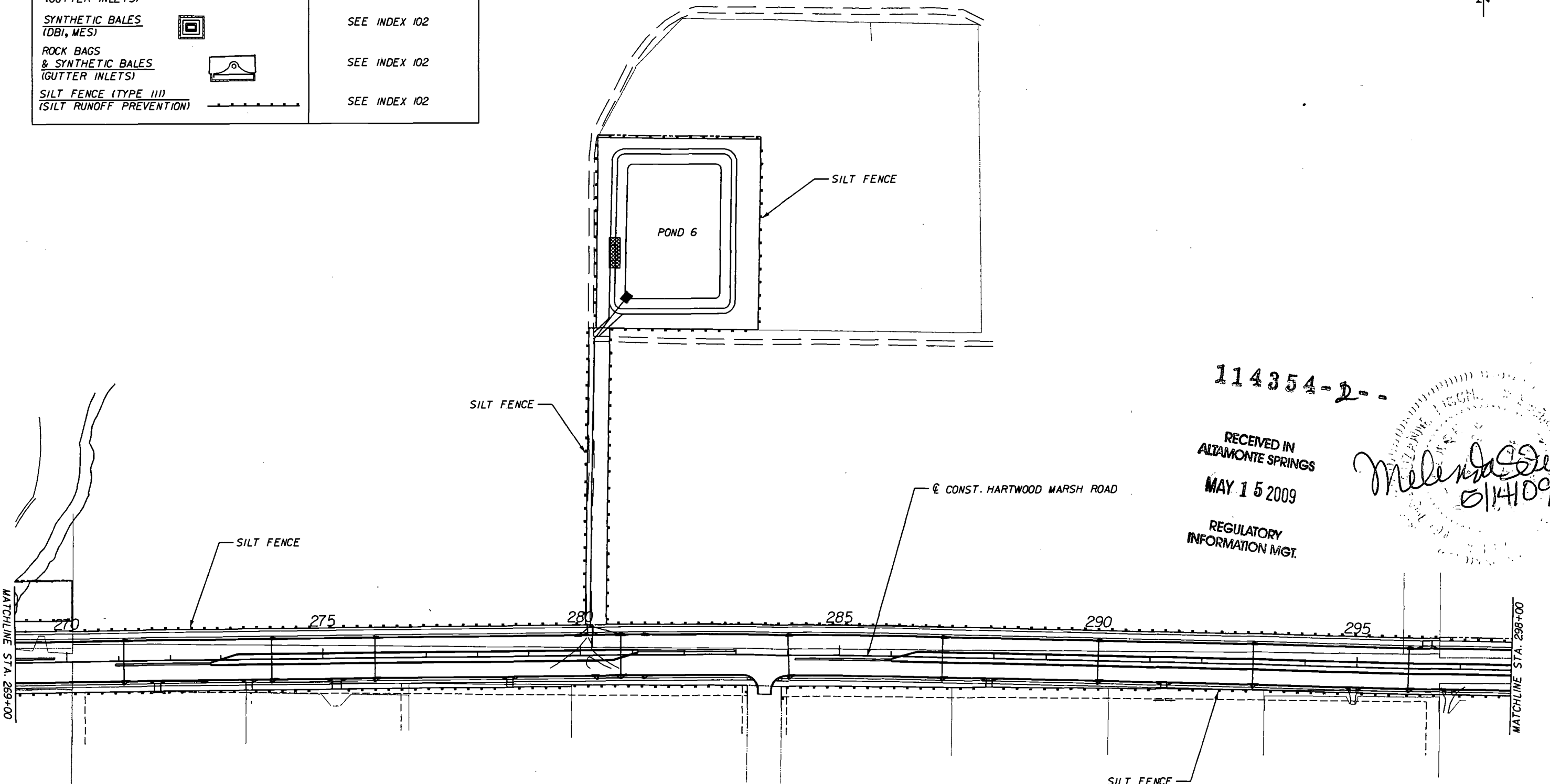
**HARTWOOD MARSH
ROAD - PHASE II**

EROSION CONTROL

SHEET
NO.
206



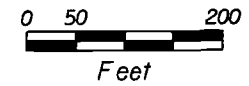
LEGEND		PLACEMENT DETAILS
DEVICE		
ROCK BAGS (GUTTER INLETS)		SEE INDEX 102
SYNTHETIC BALES (DBI, MES)		SEE INDEX 102
ROCK BAGS & SYNTHETIC BALES (GUTTER INLETS)		SEE INDEX 102
SILT FENCE (TYPE III) (SILT RUNOFF PREVENTION)		SEE INDEX 102



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0114109



REVISIONS		
DATE	BY	DESCRIPTION

HNTB
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE HAVY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406



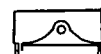



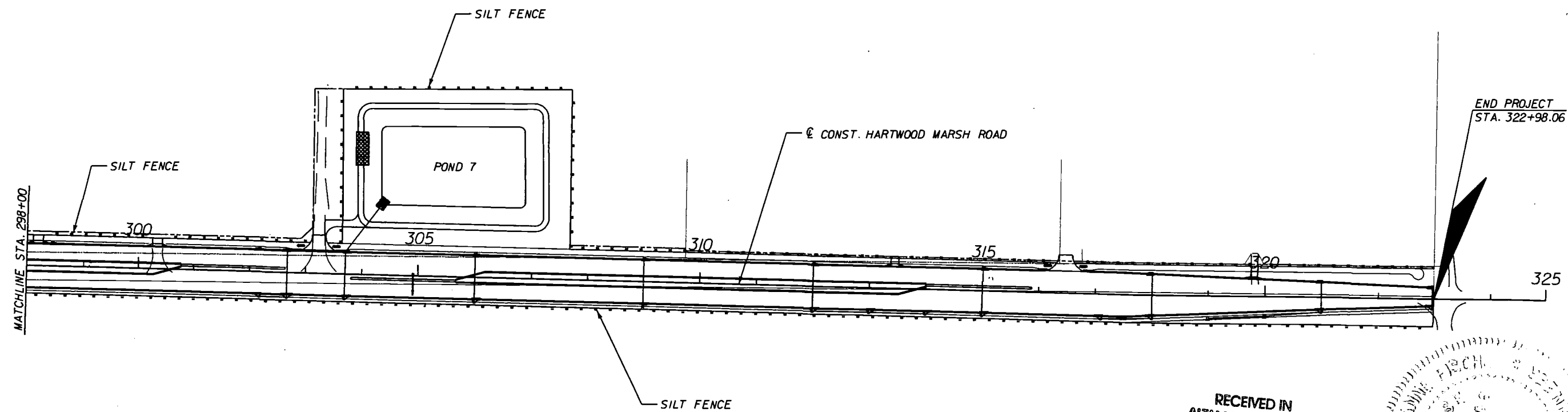
**HARTWOOD MARSH
ROAD - PHASE II**

EROSION CONTROL

SHEET NO.
207



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



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REVISIONS		
DATE	BY	DESCRIPTION

HNTB
 HNTB CORPORATION
 300 PRIMERA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 805-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
 FL. REGISTRATION NO. 68406



**HARTWOOD MARSH
ROAD - PHASE II**

EROSION CONTROL

SHEET
NO.
208