

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 AREA(S).
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 5% 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 19.50 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 19.50 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. CAPITAL OF TEXAS HWY AUSTIN, TX 78746 512-742-6876
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5. CONSTRUCT ALL MITERED END SECTIONS PER FDOT INDEX 272 & 273.
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 WWM.
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

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

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

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

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

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

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

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

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

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

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

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

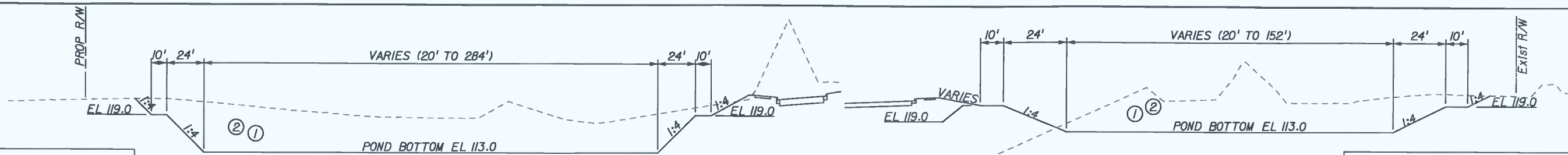

LAKE COUNTY
FLORIDA

HARTWOOD MARSH
ROAD - PHASE II

GENERAL NOTES

114354 - SHEET NO. 22

SEP 02 2009



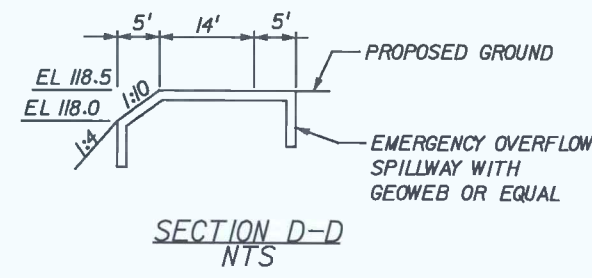
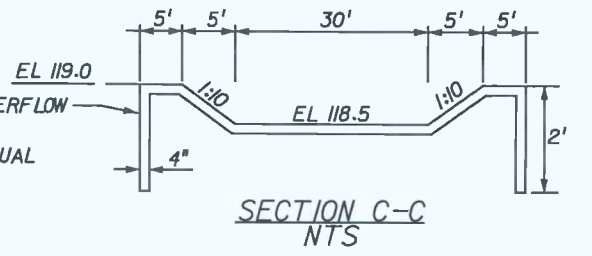
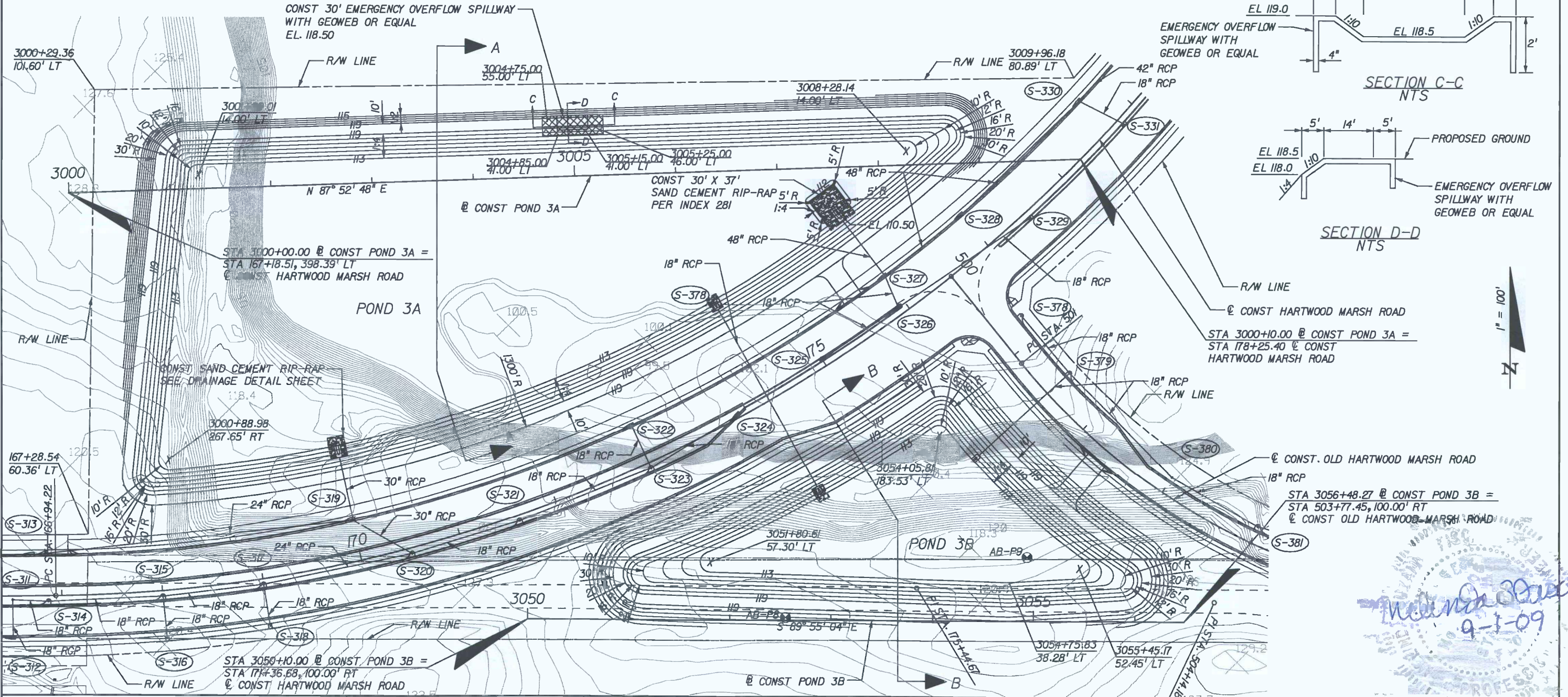
POND 3A	
① 25 YR DHW/24 HR	EL. 116.50
② 25 YR DHW/96 HR	EL. 118.23

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 ∇ (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.



Melinda Fischl
9-1-09

DATE	BY	DESCRIPTION

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

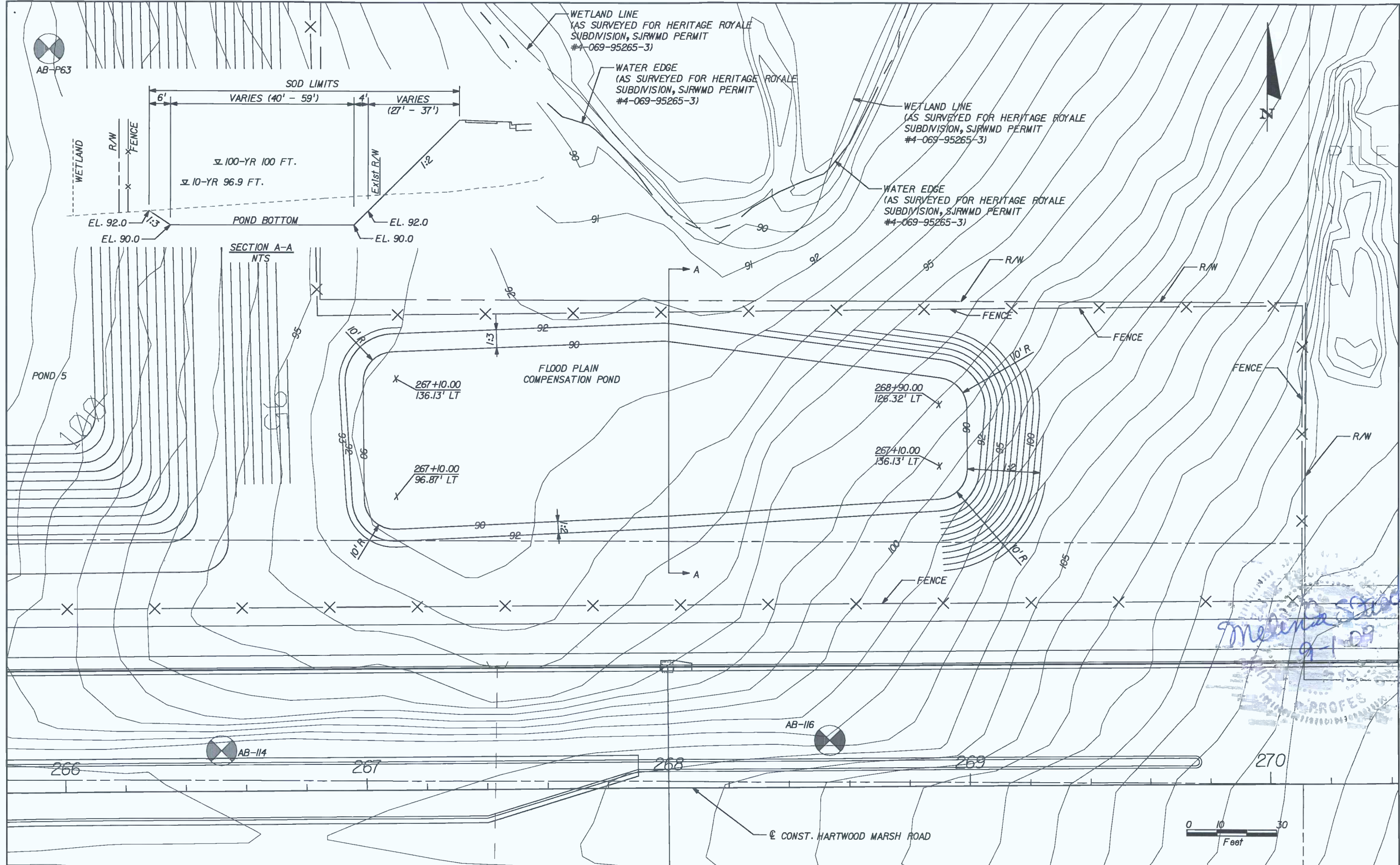
ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
FL. REGISTRATION NO. 68406

LAKE COUNTY
FLORIDA

**HARTWOOD MARSH
ROAD - PHASE II**

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

SHEET NO.
103



Melinda S. Fischl
 9-1-09
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 REG. NO. 12345

REVISIONS	
DATE	DESCRIPTION

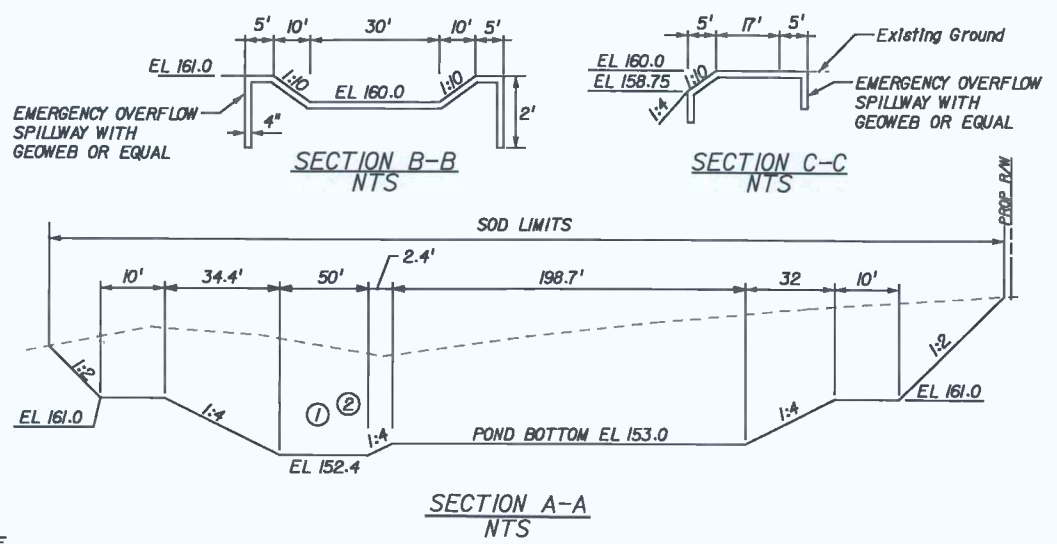
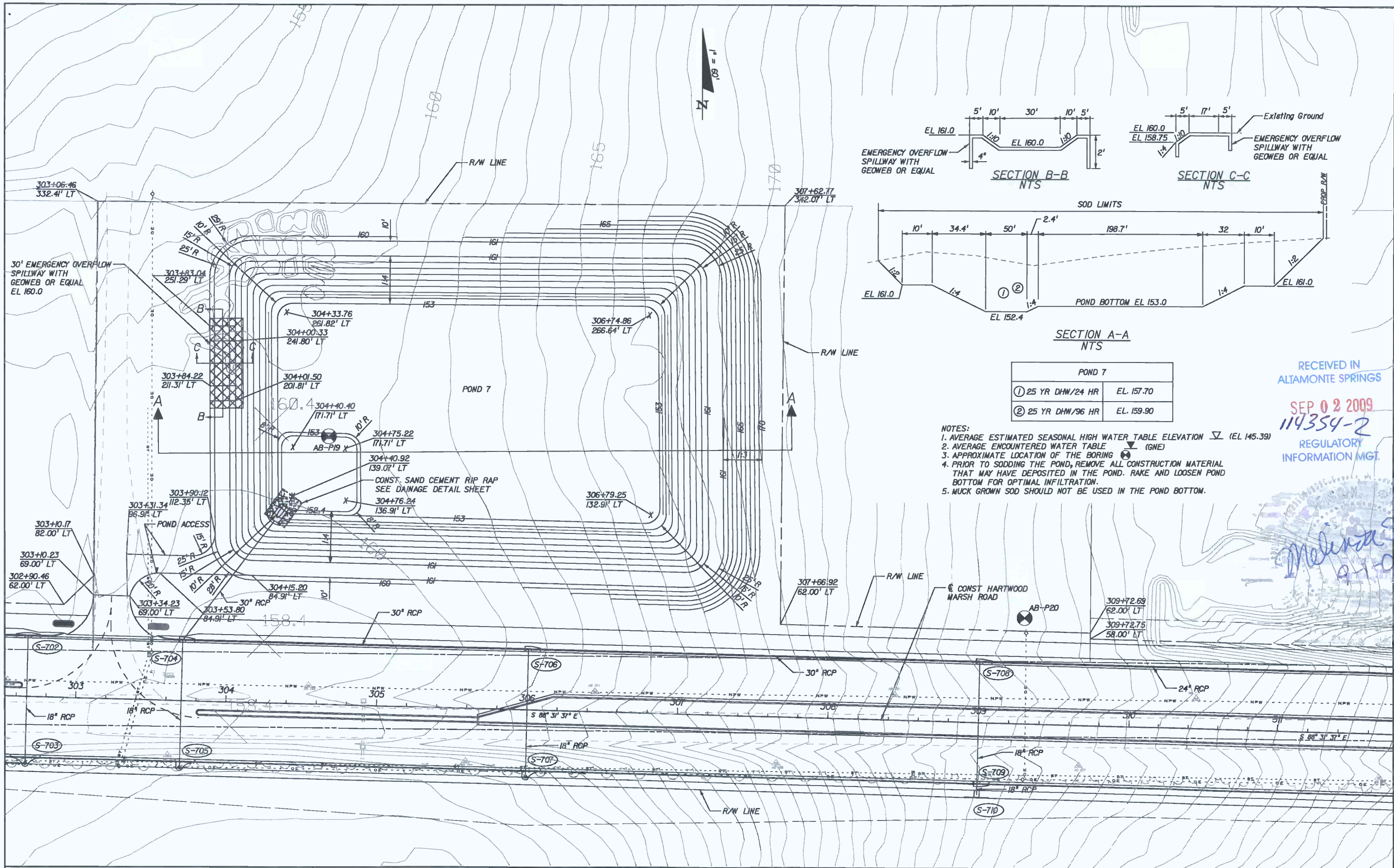
HNTB
 HNTB CORPORATION
 300 PRIMA BLVD,
 SUITE 200
 LAKE MARY, FL 32746
 (407) 905-0355
 CERT. OF AUTH. NO. 6500
 ENGINEER OF RECORD: MELINDA S. FISCHL, P.E.
 FL. REGISTRATION NO. 68406



**HARTWOOD MARSH
 ROAD - PHASE II**

**FLOOD PLAIN COMPENSATION
 BASIN 5**

SHEET NO.



POND 7	
① 25 YR DHW/24 HR	EL. 157.70
② 25 YR DHW/96 HR	EL. 159.90

- NOTES:
1. AVERAGE ESTIMATED SEASONAL HIGH WATER TABLE ELEVATION ∇ (EL 145.39)
 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.

RECEIVED IN
ALTIMONTE SPRINGS
SEP 02 2009
114354-2
REGULATORY
INFORMATION MGT.

Melinda Fischl
9-1-09

DATE	BY	REVISIONS 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 DETAIL SHEET
POND 7**

SHEET NO.
106