

APALACHEE REGIONAL PARK BALL FIELDS STORMWATER MITIGATION

Commissioners:

- Bill Proctor
District 1
- Jane G. Sauls
District 2
- John E. Dailey
District 3
- Bryan Desloge
District 4
- Kristin Dozier
District 5
- Nick Maddox
At-Large
- Akin Akinyemi
At-Large



Vince Long
County
Administrator

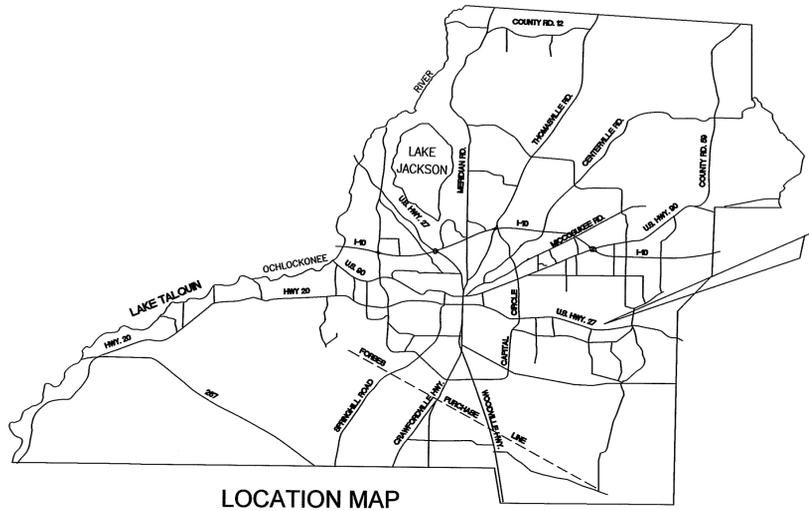
Herbert W. A.
Thiele
County Attorney

Tony Park, P.E.
Public Works
Director

CONSTRUCTION SEQUENCE:

1. The contractor shall request an on-site pre construction conference with Leon County Environmental Compliance Division, Leon County Construction Management, Northwest Florida Water Management District and Utility Service Providers prior to any construction activity.
2. The contractor shall first construct sedimentation/erosion controls and then clearly "flag" the limits of construction. Construction activity shall not commence until the sediment controls have been inspected and approved by the Leon County Environmental Inspector.
3. The contractor shall verify location of all above ground and underground utilities prior to commencement of construction. Call Sunshine Locate at 1-800-432-4770 or 811 to confirm underground utility lines 48 hours before digging.
4. Install traffic control devices and continuously maintain all traffic control devices as per FDOT and maintenance of traffic plan.
5. Construct stormwater management facilities, gravel parkings and gravel driveway.
6. Pave the parking areas, including the existing gravel parking area.
7. Clean up job site and demobilize construction equipment.
8. Contractor is responsible to provide as-built survey to Leon County Public Works for Engineer of Record to submit as-built certification to the permitting agencies.

PROJECT LOCATION



GENERAL NOTES:

1. A sufficient labor force shall be maintained to undertake the scope of work that is to be performed. Prior to the start of each days work, the on-site inspector shall approve the personnel provided by the contractor to insure that an adequate number of workers are available as well as capable of providing the skills necessary to perform the necessary task. If at any time, during the working day, the inspector feels that adequate personnel are not being provided, he may stop all work activities until the contractor corrects the situation. The contractor's superintendent shall be free at all times to supervise and coordinate the work in progress with the on-site inspector without being required to personally operate the equipment of the project.
2. Leon County shall reserve the right to sample any or all materials to determine that materials meet specifications. Failure to meet specifications shall be cause for cancellation of delivery, rejection of materials provided for partial or full payment deduction as determined by the county representative.
3. The contractor shall maintain access to all existing park entrances throughout project construction. This project anticipates the need for traffic control devices listed in the Manual for Uniform Traffic Control Devices and Florida Department of Transportation Roadway Standard Indices.
4. The contractor shall furnish, erect, and maintain all necessary barricades, warning, danger, and detour signs suitable and adequate lights, provide flagmen where necessary to direct traffic, and take all other precautions to protect the work and the public. Streets, which are closed to traffic by authority of Leon County, shall be adequately barricaded and marked with warning and detour signs, and lights at all intersections and crossings along the detours. Street closing and detour routing shall be requested of and receive approval from the engineer or his designee, prior to implementation. The temporary detour shall be adequately marked throughout its length. All detour routes shall be maintained by the contractor in a safe and passable condition at all times, and at such time as the detour is no longer necessary, the streets constituting the detour route shall be restored to a condition equal to the condition of such streets prior to their use for detours, all to the satisfaction of the engineer or his designee.
5. The contractor shall remove all equipment from the park roadway and access during non-working hours to ensure the least practicable interference with park traffic and pedestrians.
6. Working hours will normally be from 8:00 A.M. To 5:00 P.M., Monday through Friday, however, upon request of the contractor, the engineer or his designee, may consider an alternative to these working hours based on the time of the year, site, weather, and traffic conditions.
7. No night work shall be performed unless adequate lighting is provided and approval given by the engineer or his designee. If the existing lighting is not adequate, the contractor shall be responsible for providing artificial lighting that shall be approved by the engineer or his designee.
8. Obstructions and barricades shall be lighted at night and such lights shall be kept burning from sunset to sunrise. All such signing and traffic control within the limits of the project shall be done in accordance with the engineer or his designee, applicable OSHA regulations and MUTCD, part VI.
9. The exact location of all utilities in the vicinity of construction activities shall be determined by the contractor prior to construction. The contractor shall contact all utility companies prior to beginning of construction and coordinate schedules with utility owners during construction.
10. Post all applicable permits as required.
11. All disturbed areas shall be sodded, unless specified otherwise on plans or per owner's direction.
12. Contractor is responsible to maintain and replace stormwater sedimentation and erosion control devices as needed.
13. Stormwater Management Control Officer:
Leigh Davis, Director of Parks and Recreation
(850) 606-1542
14. Leon County Public Works Departments Parks and Recreation Division will monitor construction progress regularly and will submit Notice of Construction Commencement to Northwest Florida Water Management District (NWFWM) and the as-built certifications when the project is completed. The contact person is Dean Richards @ 528-6090.

Plans Index

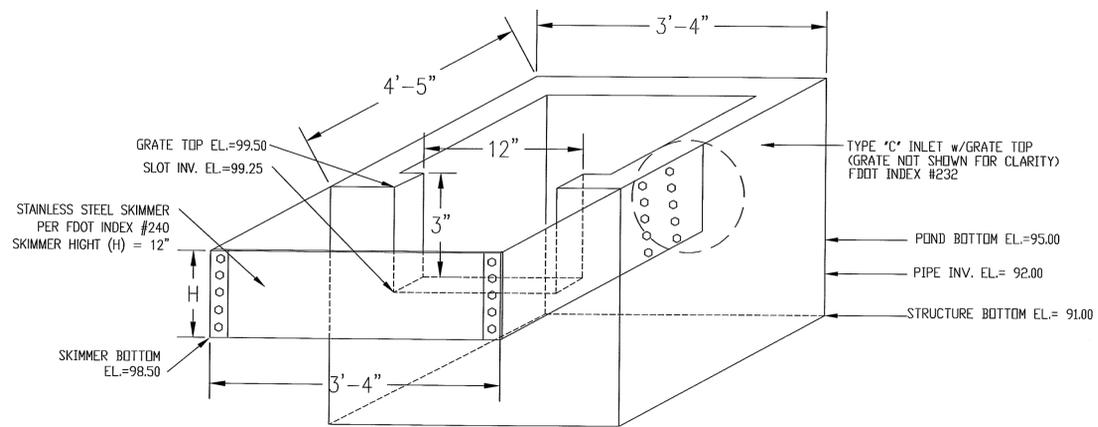
Sheet	Sheet Description
1	Cover Sheet
2	Typical & Details
3	Site Plan
4	Stormwater Pond
5	Construction Limits and Additional Details

LEON COUNTY
 Department of Public Works
 Division of Engineering Services
 Public Works Center
 2280 Miccosukee Road, Tallahassee, FL 32308-5310
 Ph: (850)606-1500 Fax: (850)606-1501
 Web: <http://www.leoncountyfl.gov>

GOVERNING STANDARDS AND SPECIFICATIONS:
 Florida Department of Transportation (FDOT) Design Standards dated January 2010,
 and Standard Specifications For Road and Bridge Construction dated 2010, as
 amended by contract documents.

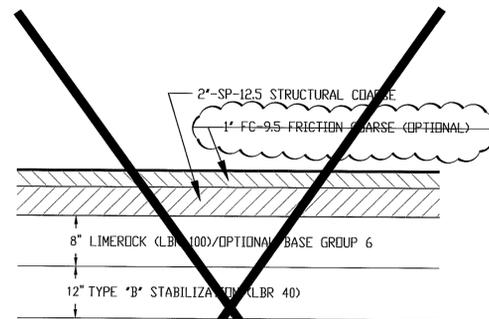
PLANS RELEASED FOR CONSTRUCTION

Engineer Of Record:
 Shinming George, P.E. #47120
 Date: 2/7/2013



OUTFALL STRUCTURE DETAILS

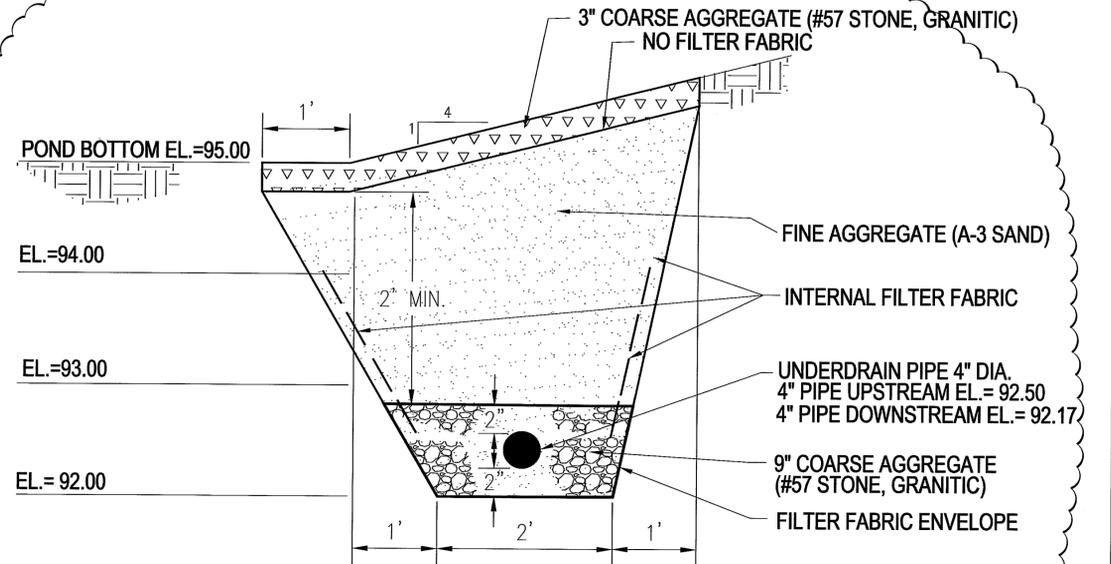
N.T.S.



ASPHALT PAVEMENT DETAILS

N.T.S.

NOTE: ASPHALT PARKING IS TO BE CONSTRUCTED IN FUTURE BY OTHERS.

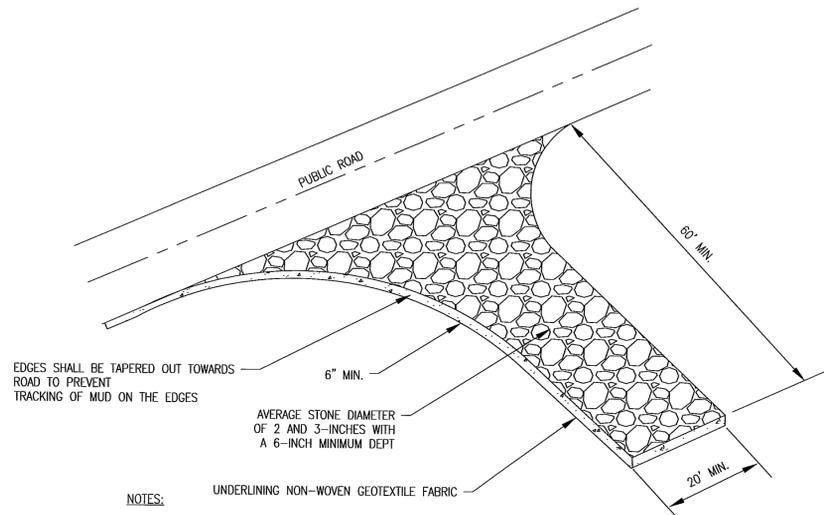


FILTER / UNDERDRAIN DETAILS

N.T.S.

NOTES:

- SEE FDOT "INDEX 286" FOR MORE DETAILS ON LOWER LIMIT "TYPE V a" UNDERDRAIN DESIGN.
- PROVIDE CLEANOUT AT UPSTREAM END OF PIPE PER DETAILS OF FDOT "INDEX 286."
- FILTER ENVELOPE SHOULD USE FDOT #57 STONE AND TYPE D-3 FILTER FABRIC.
- FILTER MEDIUM/FINE AGGRATE SHOULD BE WASHED QUARTZ AND LESS THAN 1% SILT, CLAY AND ORGANIC MATTER.
- FINE AGGRATE SHOULD HAVE A UNIFORMITY COEFFICIENT OF 1.5 OR GREATER BUT NO MORE THAN 4 AND AN EFFECTIVE GRAIN SIZE OF 2.9 - 0.55 MM DIAMETER. CONTRACTOR SHOULD SUBMIT SUPPORTING DOCUMENTS TO DESIGN ENGINEER FOR APPROVAL.

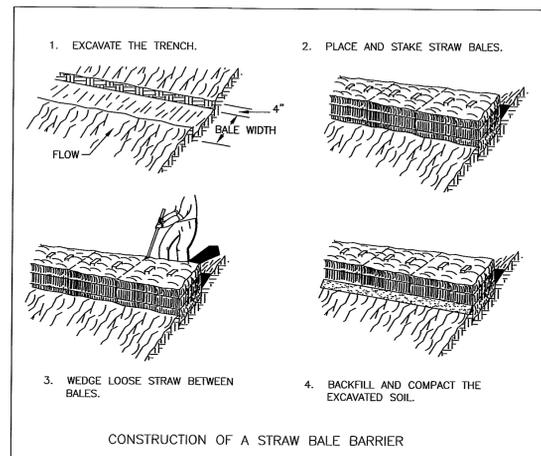


CONSTRUCTION ENTRANCE DETAILS

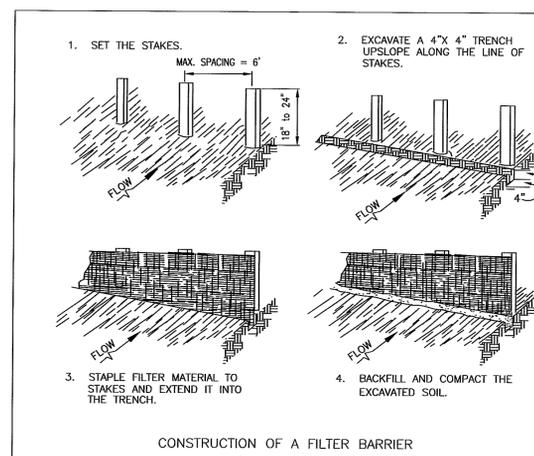
N.T.S.

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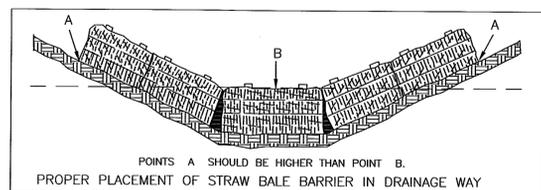
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- WASH OR REPLACE STONE WHENEVER ENTRANCE FAILS TO PREVENT MUD FROM BEING CARRIED OFFSITE BY VEHICLES.
- THIS IS A MODIFICATION TO SOIL TRACKING PREVENTION DEVICE PER FDOT INDEX #106.
- SEE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL FOR ADDITIONAL GUIDELINES AND DETAILS.



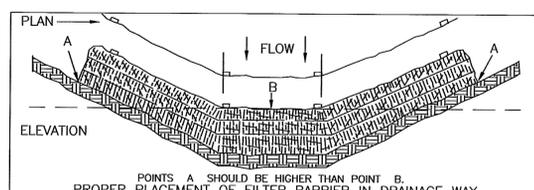
CONSTRUCTION OF A STRAW BALE BARRIER



CONSTRUCTION OF A FILTER BARRIER



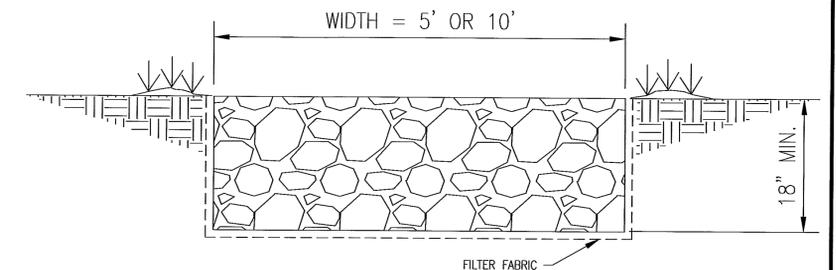
POINTS A SHOULD BE HIGHER THAN POINT B. PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B. PROPER PLACEMENT OF FILTER BARRIER IN DRAINAGE WAY

EROSION CONTROL

N.T.S.



NOTES:

- RIP-RAP SIZE @ D50=15".
- RIP-RAP SHALL BE INSTALLED SMOOTHLY FLUSHED WITH ADJACENT GROUND AND GROUTED WITH CEMENT.

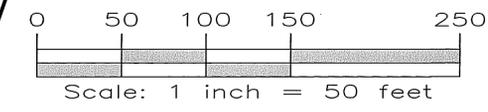
RIP-RAP TYPICAL DETAILS

N.T.S.

PLANS RELEASED FOR CONSTRUCTION

SEDIMENT AND EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ON SITE.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED WHEN DETERMINED NECESSARY BY STATE OR COUNTY INSPECTORS.
3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED REPAIRED OR REPLACED ON A ROUTINE BASIS. CONTRACTOR SHALL INSPECT ALL MEASURES AFTER EACH STORM EVENT.
4. CONTRACTOR IS RESPONSIBLE TO OBTAIN NPDES PERMIT OR EXEMPTION FROM FDEP FOR THE CONSTRUCTION.
5. SOIL TRACKING PREVENTION DEVICES SHALL BE CONSTRUCTED AT EACH CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET.
6. CONTRACTOR SHALL NOTIFY THE COUNTY AND STATE INSPECTORS IF A DISPOSAL SITE IS USED FOR ANY EXCAVATED MATERIAL.



LEGEND:	
	TREE (TO BE REMOVED BY OTHERS)
SF — SF	EROSION CONTROL

STOCK PILE NOTES:
 1. EROSION CONTROLS SHALL BE MAINTAINED TO PREVENT SEDIMENT WASHED OFF SITE.
 2. CONTRACTOR IS REQUIRED TO NOTIFY STATE AND COUNTY INSPECTORS THE PERMANENT DISPOSAL SITE FOR EXCAVATED MATERIAL.

BASIN #2
 APPOX. 4.79 ACRES
 (208,568 SF)

BASIN #1
 APPOX. 6.99 ACRES
 (304,786 SF)

SPILL CONTROL PRACTICES

THE FOLLOWING PARTIES WILL BE FOLLOWED FOR CHEMICAL SPILL PREVENTION AND CLEANUP:

1. MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF CLEANUP SUPPLIES.
2. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY AND CONTRACTOR WILL NOTIFY THE COUNTY AND STATE INSPECTORS FOR ANY TOXIC OR HAZARDOUS MATERIAL DISCHARGE.
3. CONTRACTOR SHALL PREPARE A SPILL PREVENTION PLAN AND KEEP IN THE POSSESSION OF CONSTRUCTION SUPERINTENDENT ONSITE AT ALL TIMES. THIS PLAN SHALL INCLUDE MEASURES TO PREVENT TYPES OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE REGULATORY AGENCIES.
4. CONSTRUCTION SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
5. CONTRACTOR SHALL COMPLY WITH ALL RELATED FEDERAL, STATE AND LOCAL REGULATIONS FOR USE AND STORAGE OF FUEL AND CHEMICALS ONSITE.

SITE DATA:

1. DRAINAGE AREA: 513,354 SF (or 11.78 AC) RUNOFF TREATMENT FOR 1.125" (REQUIRED)
2. TREATMENT VOLUME = 48,127 CF (REQUIRED)
3. EXISTING GRAVEL PARKING TO BE PAVED AREA = 27,912 SF.
4. PROPOSED IMPERVIOUS PARKING = 11,000 SF. (55' W x 200' L)
5. EXISTING BALLFIELDS = 196,427 SF. (GRASS)
6. STORMWATER TREATMENT VOLUME TO BE PROVIDED = 55,599 CF. (SHEET 4 of 5).
7. EXCESS STORMWATER TREATMENT VOLUME WILL BE = 7,472 CF.

LANDSCAPE ISLAND DESIGN DATA:

1. REQUIREMENT: 400 SF / 5,000 SF PARKING AND DRIVEWAY.
2. EXISTING GRAVEL PARKING = 27,912 SF PROPOSED NEW PARKING = 11,000 SF TOTAL PARKING AREA = 38,912 SF
3. REQUIRED LANDSCAPE AREA = 3,113 SF
4. PROVIDED 3,400 SF LANDSCAPE WITH 23 DRAKE ELM (7 GAL.) PLANTED 15 FEET APART ON CENTER AND PROVIDE 2" THICK MULCH. SEE SHEET 5 FOR PLANTING DETAILS.

TOPOGRAPHIC SURVEY NOTES:

1. TOPO SURVEY INFORMATION WAS PROVIDED BY BASKERVILLE - DONOVAN, INC. (850-656-1212), THE FIELD SURVEY WAS PERFORMED FROM 5/5/2011 THROUGH 5/6/2011 AND RECORDED IN FIELD BOOK T10/04, PAGE(S) 62-64. (PROJECT NO. 50922.01).
2. ELEVATIONS RELATIVE TO N.A.V.D. 1988, BASED ON BENCHMARK "S741 2010", ELEVATION 140.46 FEET.
3. CONTRACTOR MAY USE ONE-STORY BLOCK BUILDING SURVEYED CORNERS FOR CONSTRUCTION STAKE OUT.

PLANS RELEASED FOR CONSTRUCTION

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
 PHONE (850) 606-1500 * FAX (850) 606-1501

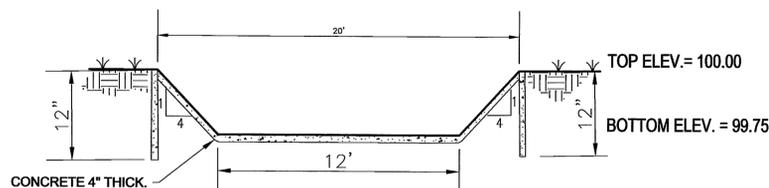
DRAWN BY:	BLR	NOTES	
DATE:	11/19/2012	ADD SURVEY NOTES	2/4/2013
SCALE:	1"=50'		
FIELD BOOK	N/A		

PROJECT: **APALACHEE REGIONAL PARK BALL FIELDS STORMWATER MITIGATION**

SHEET TITLE: **SITE PLAN**

Engineer of Record

 DATE: 7/5/03

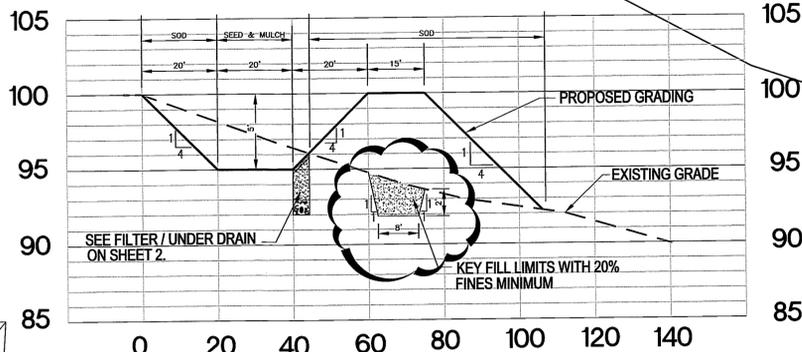


SECTION B-B : CONCRETE SPILLWAY DETAILS

NOTES:

1. STABILIZE SURFACE WITH 3000 PSI FIBER CONCRETE 4" THICK.
2. SPILLWAY INV. EL. = 99.75

N.T.S.



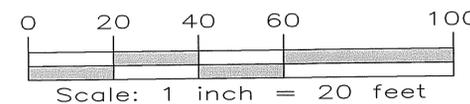
SECTION A-A : BERM KEY DETAILS

NOTES:

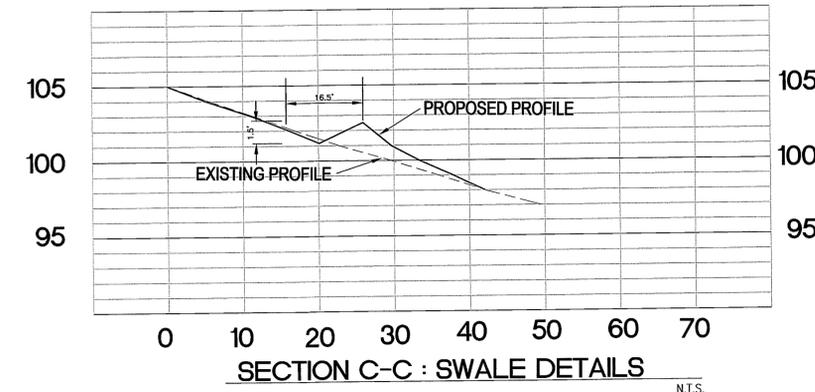
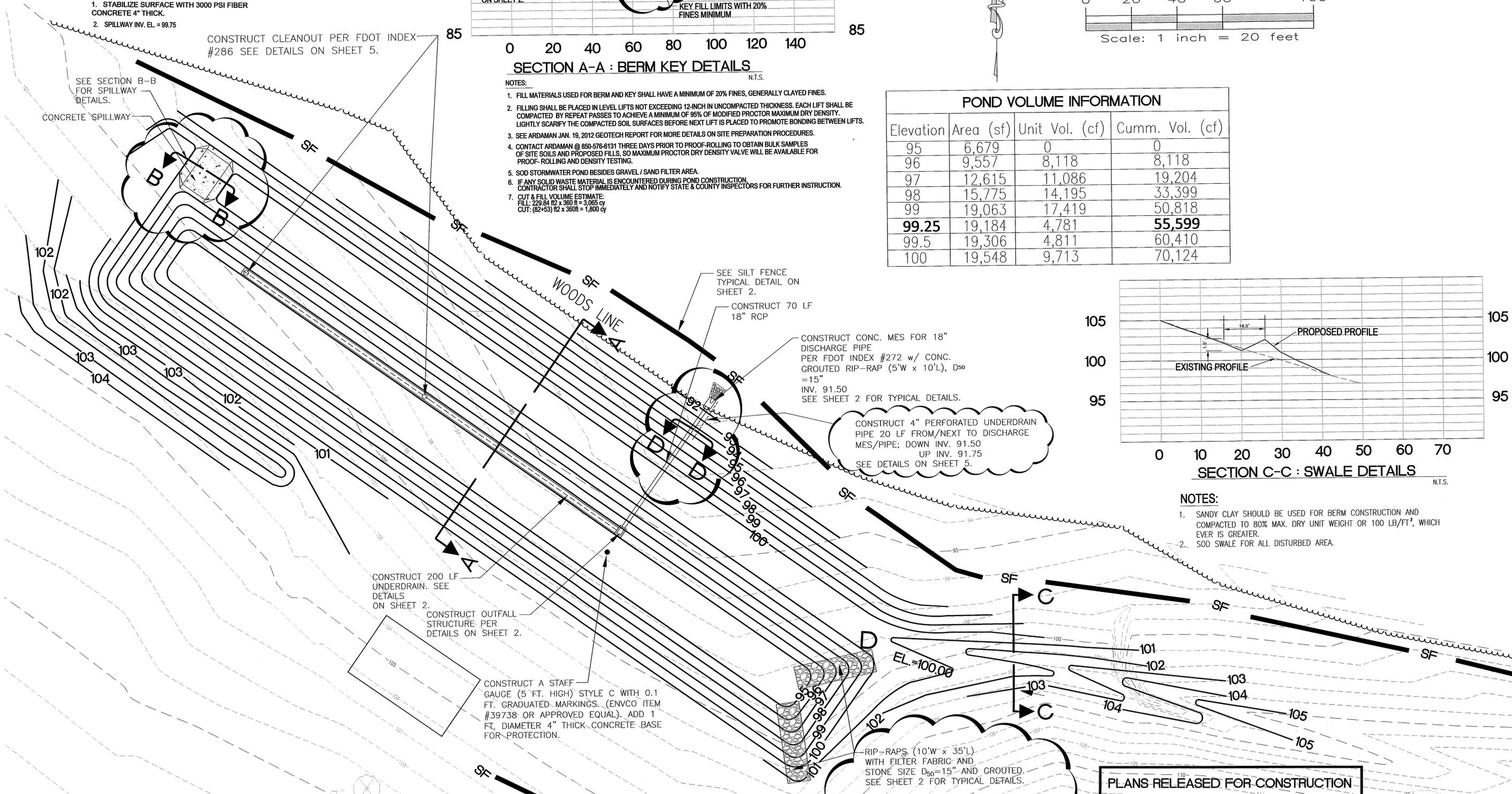
1. FILL MATERIALS USED FOR BERM AND KEY SHALL HAVE A MINIMUM OF 20% FINES, GENERALLY CLAYED FINES.
2. FILLING SHALL BE PLACED IN LEVEL LIFTS NOT EXCEEDING 12-INCH IN UNCOMPACTED THICKNESS. EACH LIFT SHALL BE COMPACTED BY REPEAT PASSES TO ACHIEVE A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. LIGHTLY SCARIFY THE COMPACTED SOIL SURFACES BEFORE NEXT LIFT IS PLACED TO PROMOTE BONDING BETWEEN LIFTS.
3. SEE ARDAMAN JAN. 19, 2012 GEOTECH REPORT FOR MORE DETAILS ON SITE PREPARATION PROCEDURES.
4. CONTACT ARDAMAN @ 850-576-6131 THREE DAYS PRIOR TO PROOF-ROLLING TO OBTAIN BULK SAMPLES OF SITE SOILS AND PROPOSED FILLS, SO MAXIMUM PROCTOR DRY DENSITY VALVE WILL BE AVAILABLE FOR PROOF-ROLLING AND DENSITY TESTING.
5. SOD STORMWATER POND BESIDES GRAVEL / SAND FILTER AREA.
6. IF ANY SOLID WASTE MATERIAL IS ENCOUNTERED DURING POND CONSTRUCTION, CONTRACTOR SHALL STOP IMMEDIATELY AND NOTIFY STATE & COUNTY INSPECTORS FOR FURTHER INSTRUCTION.
7. CUT & FILL VOLUME ESTIMATE:
FILL: 229.84 1/2 x 360 ft = 3,065 cy
CUT: (62+53) 1/2 x 360ft = 1,800 cy

N.T.S.

POND VOLUME INFORMATION			
Elevation	Area (sf)	Unit Vol. (cf)	Cumm. Vol. (cf)
95	6,679	0	0
96	9,557	8,118	8,118
97	12,615	11,086	19,204
98	15,775	14,195	33,399
99	19,063	17,419	50,818
99.25	19,184	4,781	55,599
99.5	19,306	4,811	60,410
100	19,548	9,713	70,124



P O N D

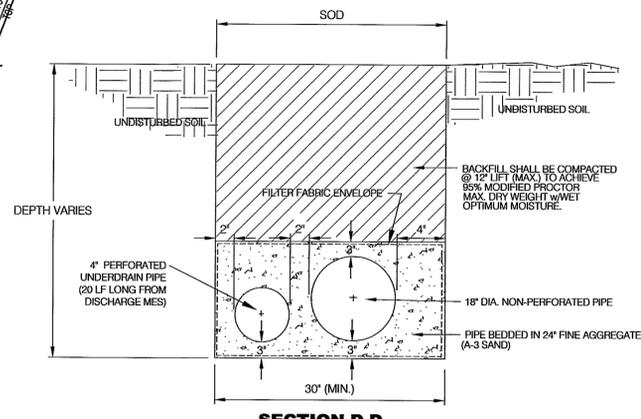
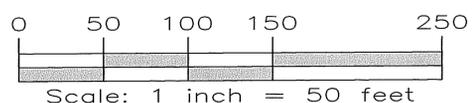
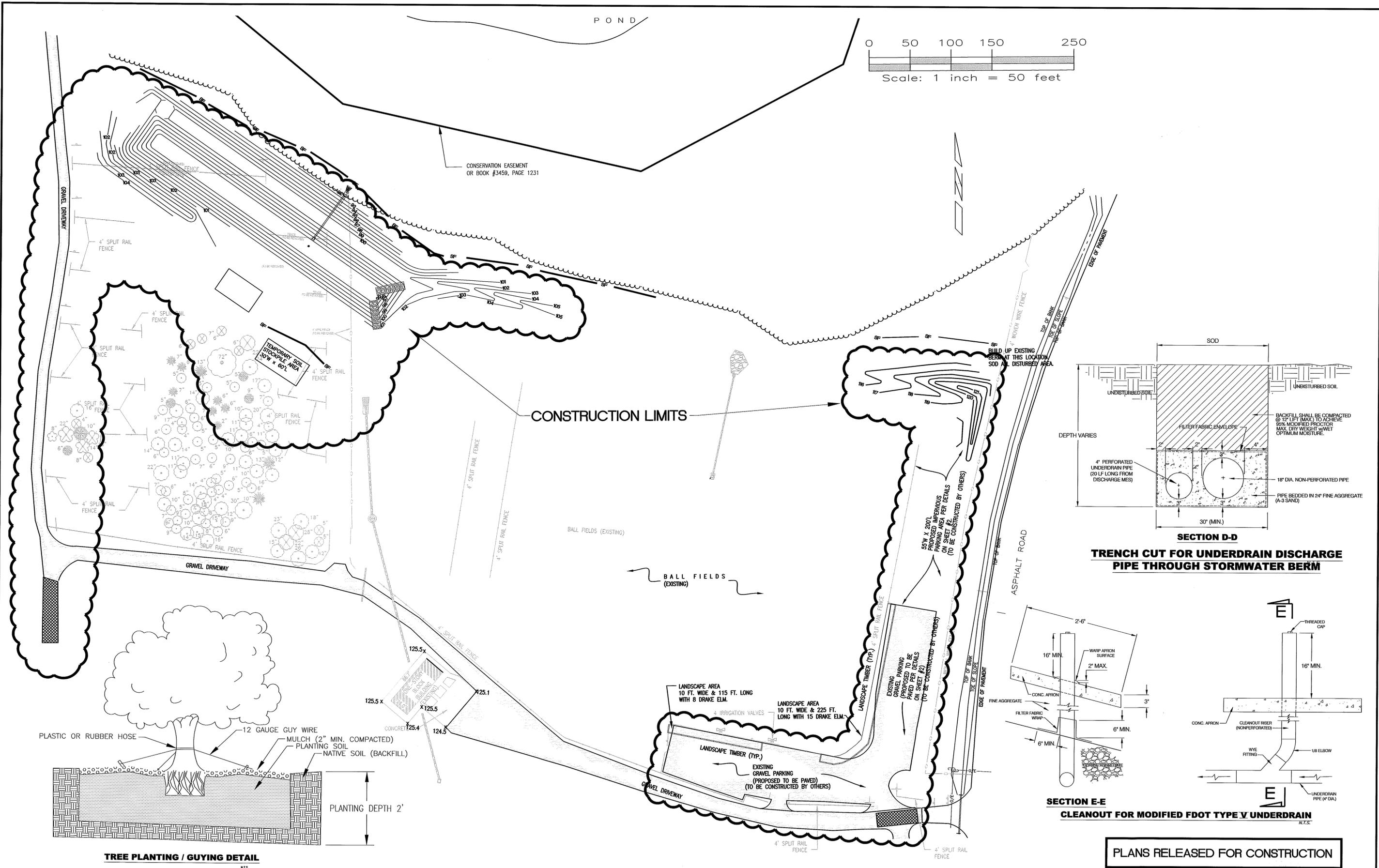


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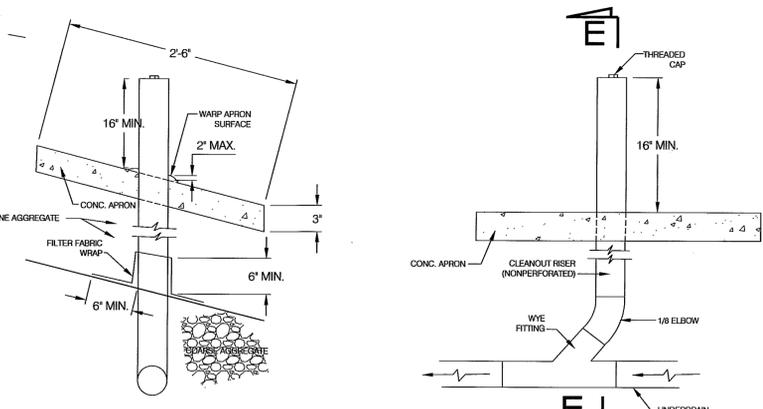
1. SANDY CLAY SHOULD BE USED FOR BERM CONSTRUCTION AND COMPACTED TO 80% MAX. DRY UNIT WEIGHT OR 100 LB/FT³, WHICH EVER IS GREATER.
2. SOD SWALE FOR ALL DISTURBED AREA.

N.T.S.

PLANS RELEASED FOR CONSTRUCTION



SECTION D-D
TRENCH CUT FOR UNDERDRAIN DISCHARGE PIPE THROUGH STORMWATER BERM



SECTION E-E
CLEANOUT FOR MODIFIED FDOT TYPE V UNDERDRAIN

PLANS RELEASED FOR CONSTRUCTION