

# CONSTRUCTION DOCUMENTS

ATTACHMENT #2

APPLICANT'S COPY

## FOR Fonvielle Farm Control Structure

PREPARED FOR

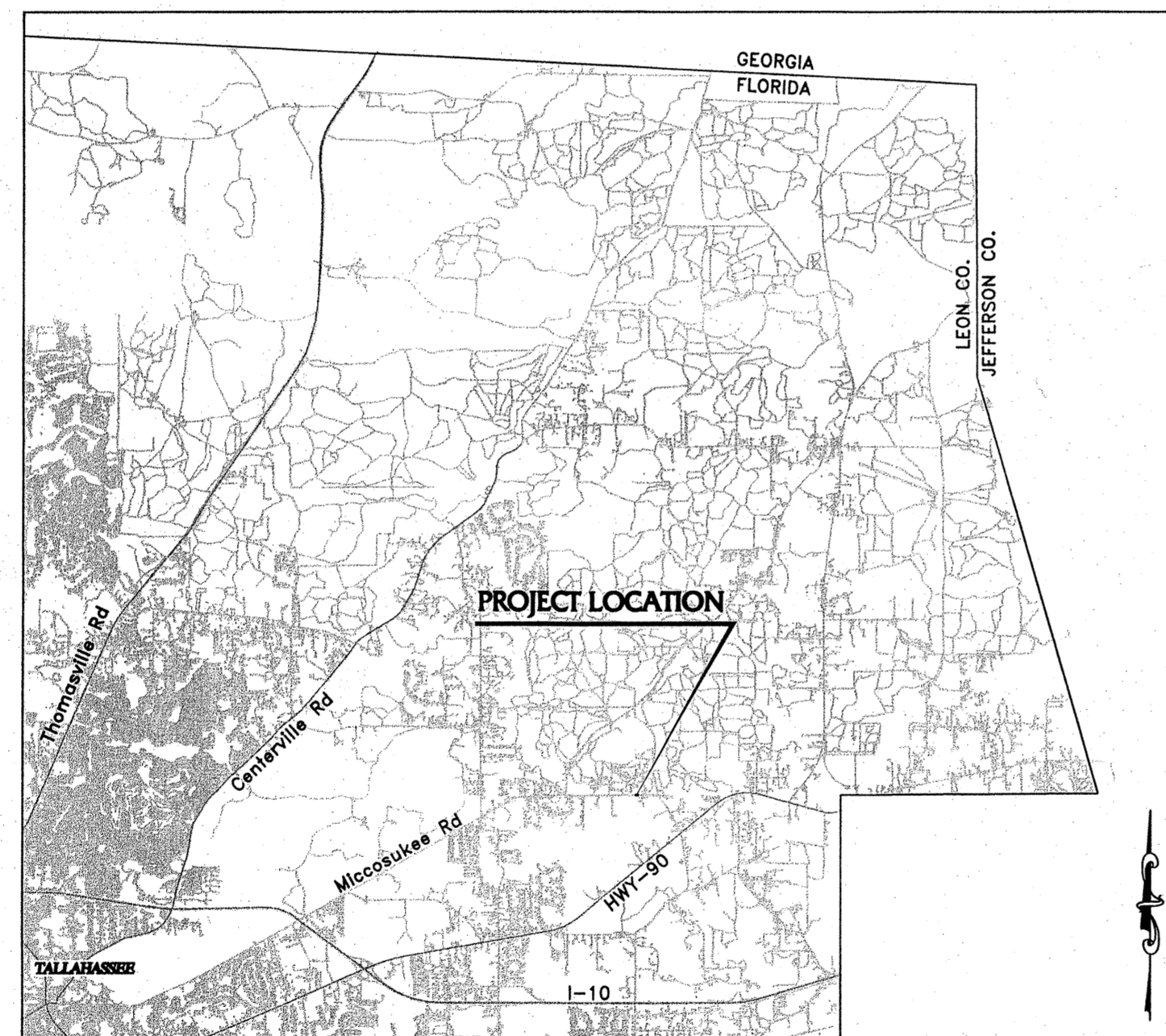


LEON COUNTY  
PUBLIC WORKS

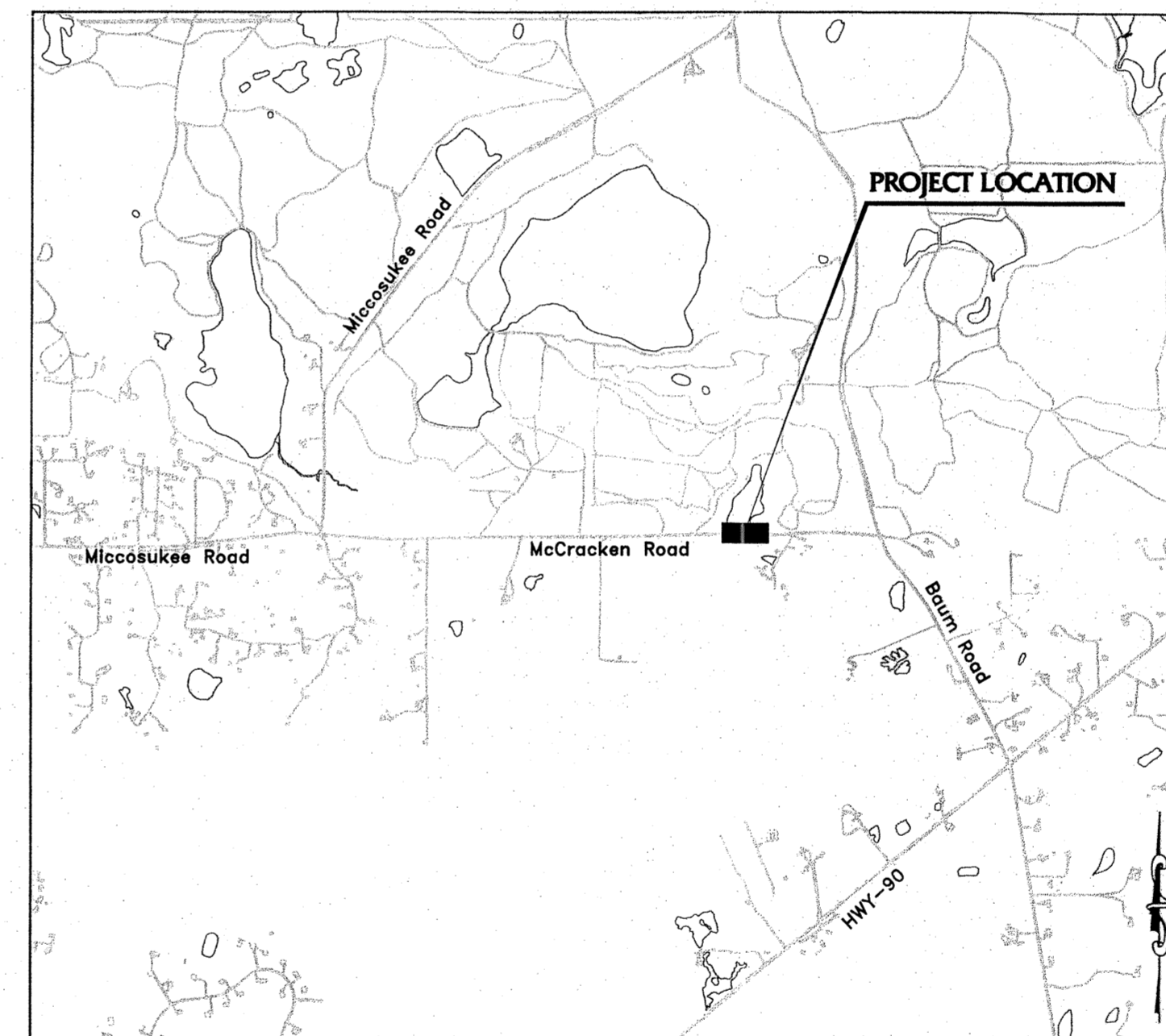
2280 Miccosukee Road  
Tallahassee, FL 32308  
Ph: 850-606-1500 Fax: 850-606-1501

### GENERAL NOTES

- ELEVATIONS WITHIN THE ROADWAY RIGHT-OF-WAY SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY BY CAPITAL ENGINEERING AND SURVEYING, INC. DATED OCT. 26, 2010.
- VERTICAL SURVEY DATUM—NGVD 29.
- AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE WHO IS CERTIFIED IN EROSION AND SEDIMENTATION CONTROL AND SHALL BE CAPABLE OF BEING REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
- THE CONTRACTOR WILL DESIGNATE A STORMWATER MANAGEMENT CONTROL OFFICER PRIOR TO THE PRECONSTRUCTION MEETING, AND WILL INFORM THE ENVIRONMENTAL INSPECTOR.
- EXISTING UTILITIES HAVE BEEN LOCATED USING THE BEST AVAILABLE INFORMATION; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND PROVIDE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL (1-800-432-4770), 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VERTICAL CONTROL IS PROVIDED FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE SODDED. PROBLEM AREAS SHALL BE SODDED AS DIRECTED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR.
- THE CONTRACTOR SHALL SUBMIT A POST-CONSTRUCTION CERTIFICATION, REPRODUCIBLE RECORD DRAWINGS, AND ELECTRONIC FILE (AUTOCAD 2007) TO THE ENGINEER PRIOR TO INSPECTION AND ACCEPTANCE. THE RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE LEON COUNTY ENVIRONMENTAL MANAGEMENT PERMIT.
- THE CONTRACTOR SHALL NOT SUBSTITUTE ANY ARTICLE, DEVICE, PRODUCT, MATERIAL OR FIXTURE, OR ANY FORM OR TYPE OF CONSTRUCTION, FOR THAT WHICH IS INDICATED IN THE APPROVED PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE COUNTY ENGINEER OR THE COUNTY ENGINEER'S DESIGNATED FIELD REPRESENTATIVE.



VICINITY MAP  
N.T.S.



LOCATION MAP  
N.T.S.

### SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	1
EXISTING CONDITIONS	2
BASIN MAP	3
SITE PLAN	4
CONSTRUCTION DETAILS	5
LANDSCAPE PLAN	L1

RECORD DRAWINGS AND COMPLIANCE REPORT REQUIRED PRIOR TO REQUESTING FINAL INSPECTION.

PRE-CONSTRUCTION CONFERENCE REQUIRED PRIOR TO ANY LAND CLEARING. CALL LEON COUNTY ENVIRONMENTAL INSPECTION 606-1300 TO SCHEDULE A MEETING.

### EXHIBIT A

APPLICANT'S COPY

APPROVED: *John Krueger*  
 PERMIT # LEM 10-00100  
 DATE: 11/19/10  
 Special Conditions Exist For This Permit. Refer to Exhibit(s):  
Attachment A  
Exhibits A, B, C-1, C-2 & D.

PREPARED BY:

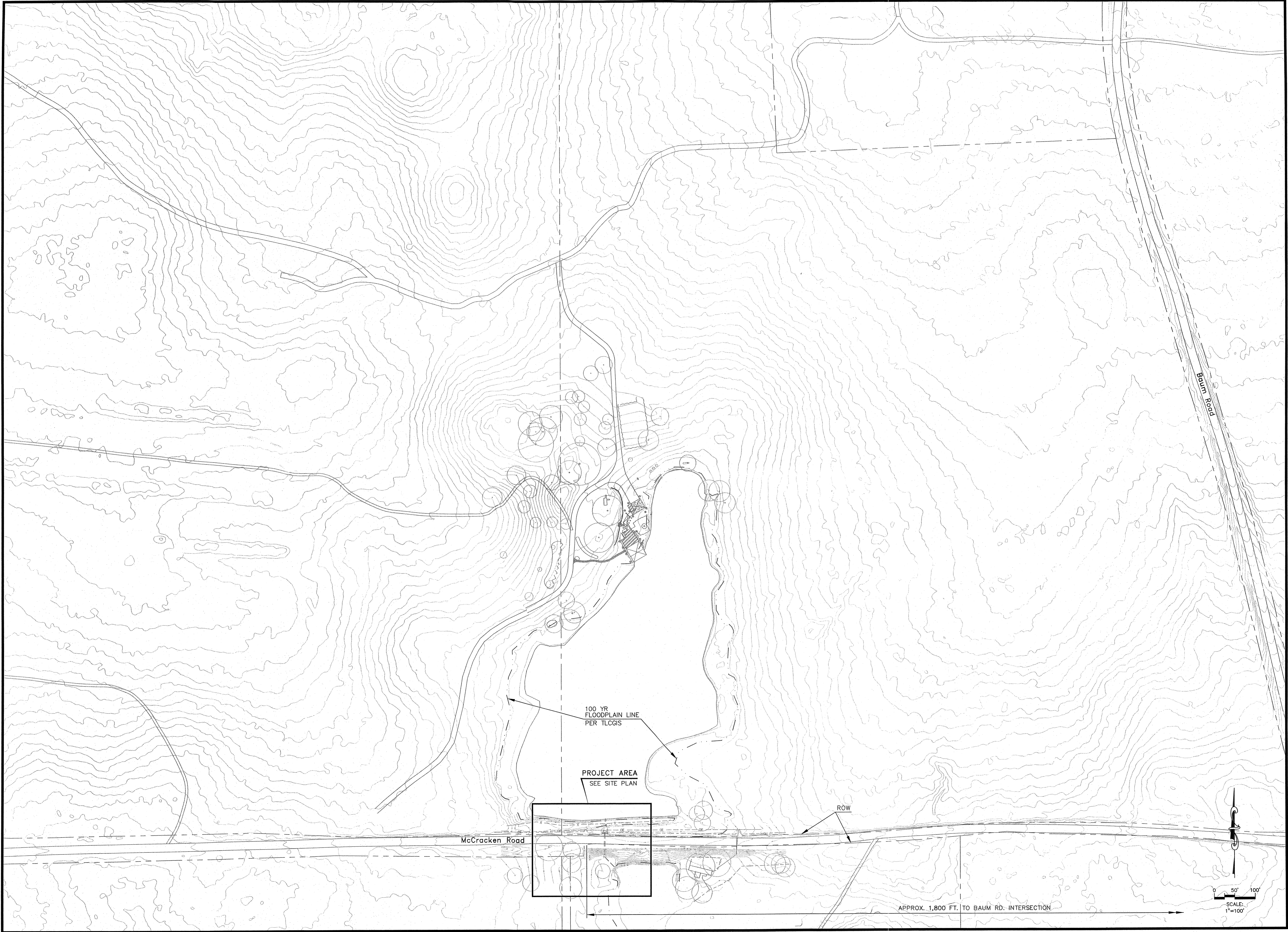
**PBS&J**  
 an Atkins company  
 2639 N. Monroe St.  
 Building C  
 Tallahassee,  
 Florida 32303  
 (850) 575-1800  
 FBPR Certificate of  
 Authorization No. 24

DECEMBER 2010

ENGINEER OF RECORD:  
 PBS&J  
 BENJAMIN RYAN FREEMAN  
 P.E. NO. 71520

SURVEYOR OF RECORD:  
 DAVID W. HUTCHESON  
 P.S.M. NO. 5051  
 CAPITAL ENGINEERING & SURVEYING, INC.  
 318 NORTH MONROE STREET  
 TALLAHASSEE, FL 32301  
 (850) 422-7510

Author: 11554  
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**PBS&J**  
an Atkins company

2639 N. Monroe St.  
Tallahassee,  
Florida 32303  
(850) 975-1800  
PBR Certificate of  
Authorization No. 24



CLIENT

PROJECT  
**FONVILLE FARM  
CONTROL STRUCTURE  
AT MCCRACKEN RD.**

TASK  
**EXISTING CONDITIONS**

ORIGINAL: DECEMBER 2010

REVISIONS:	1	2	3	4	5

BENJAMIN RYAN FREEMAN  
P.E. NO. 71520

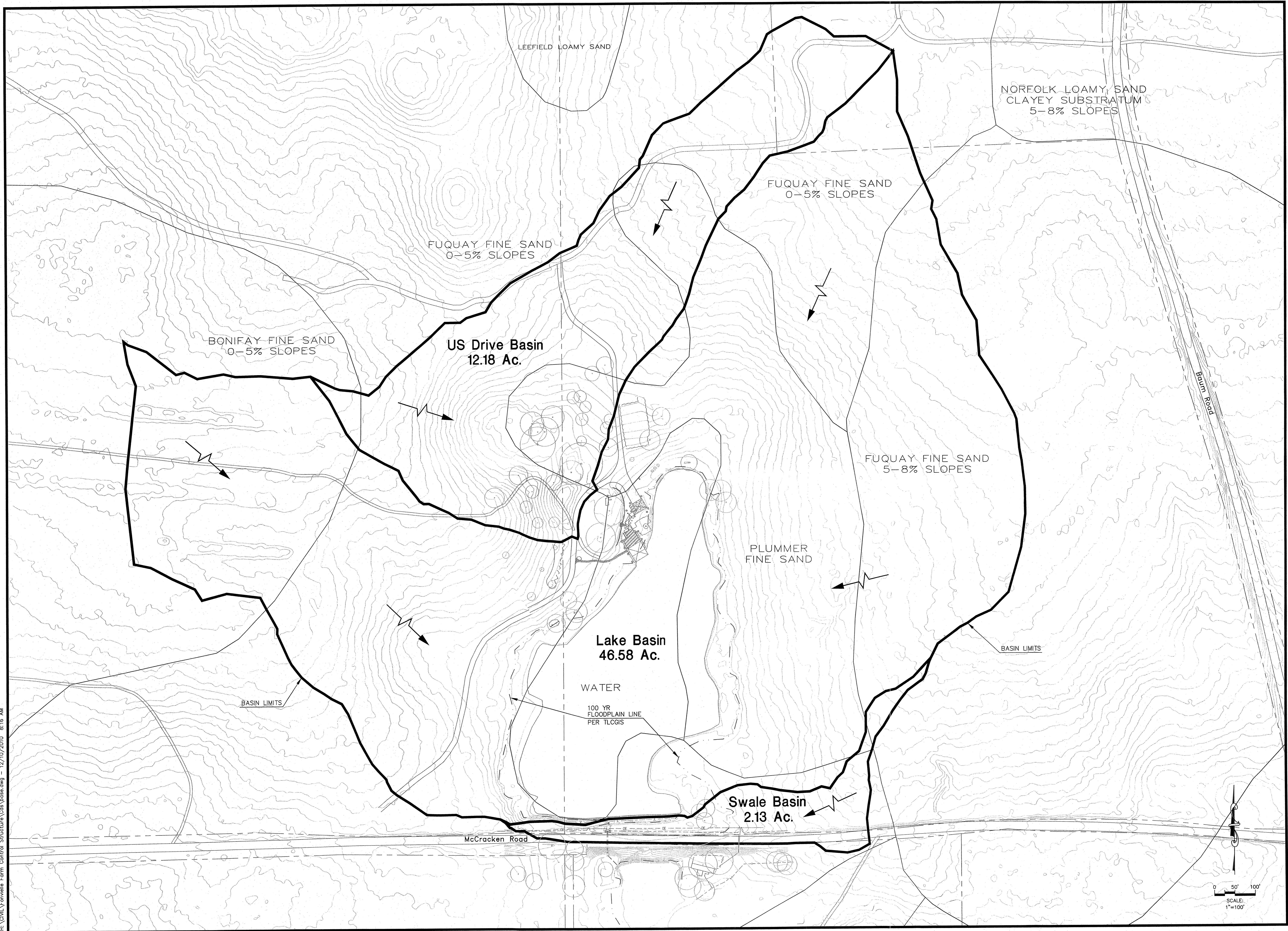
NOT VALID FOR CONSTRUCTION  
UNLESS SIGNED BY THIS ENGINEER

JOB NO. 10007411

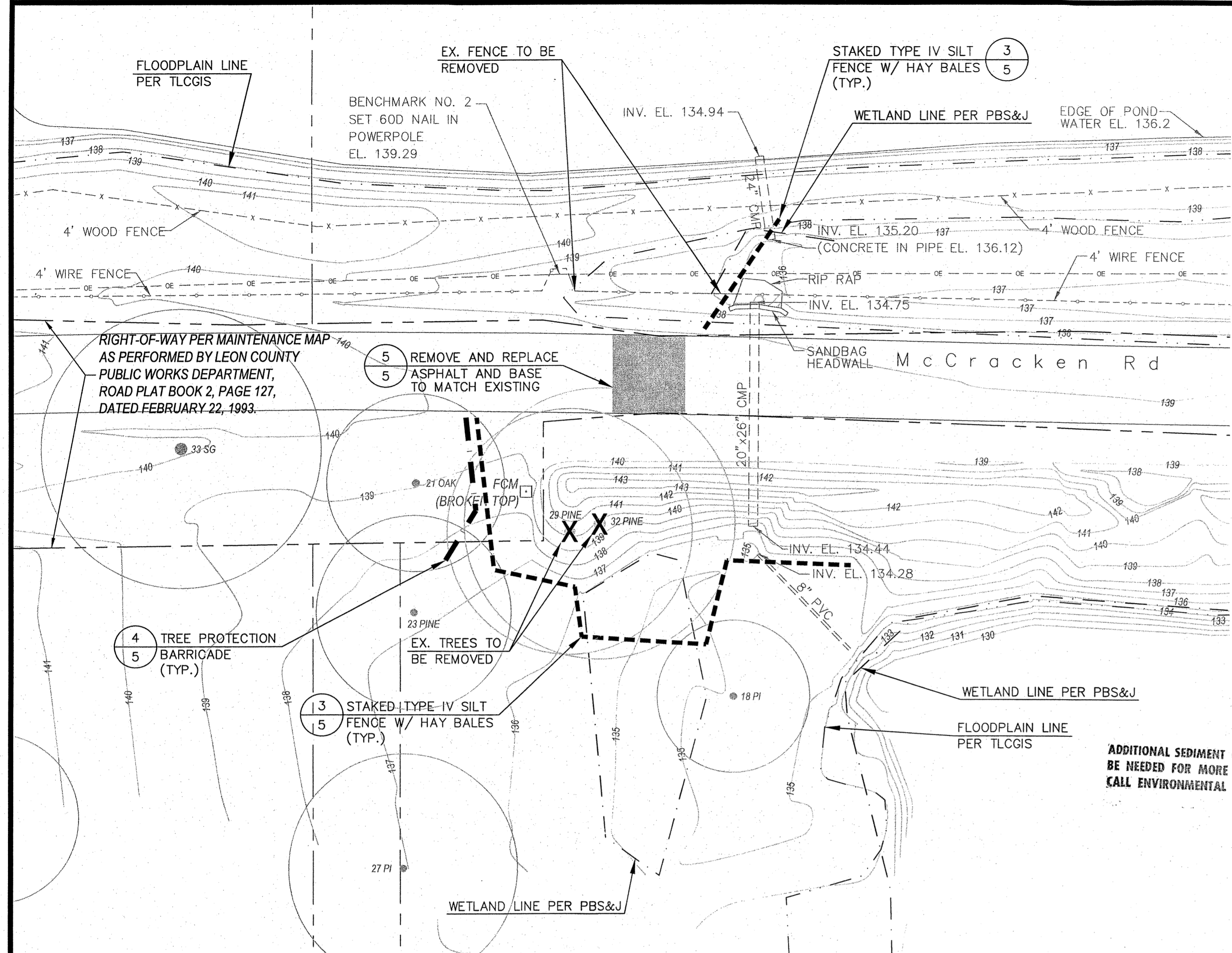
DRAWN	MR/KN
DESIGNED	JF
CHECKED	KB
QC	OC

SHEET 2

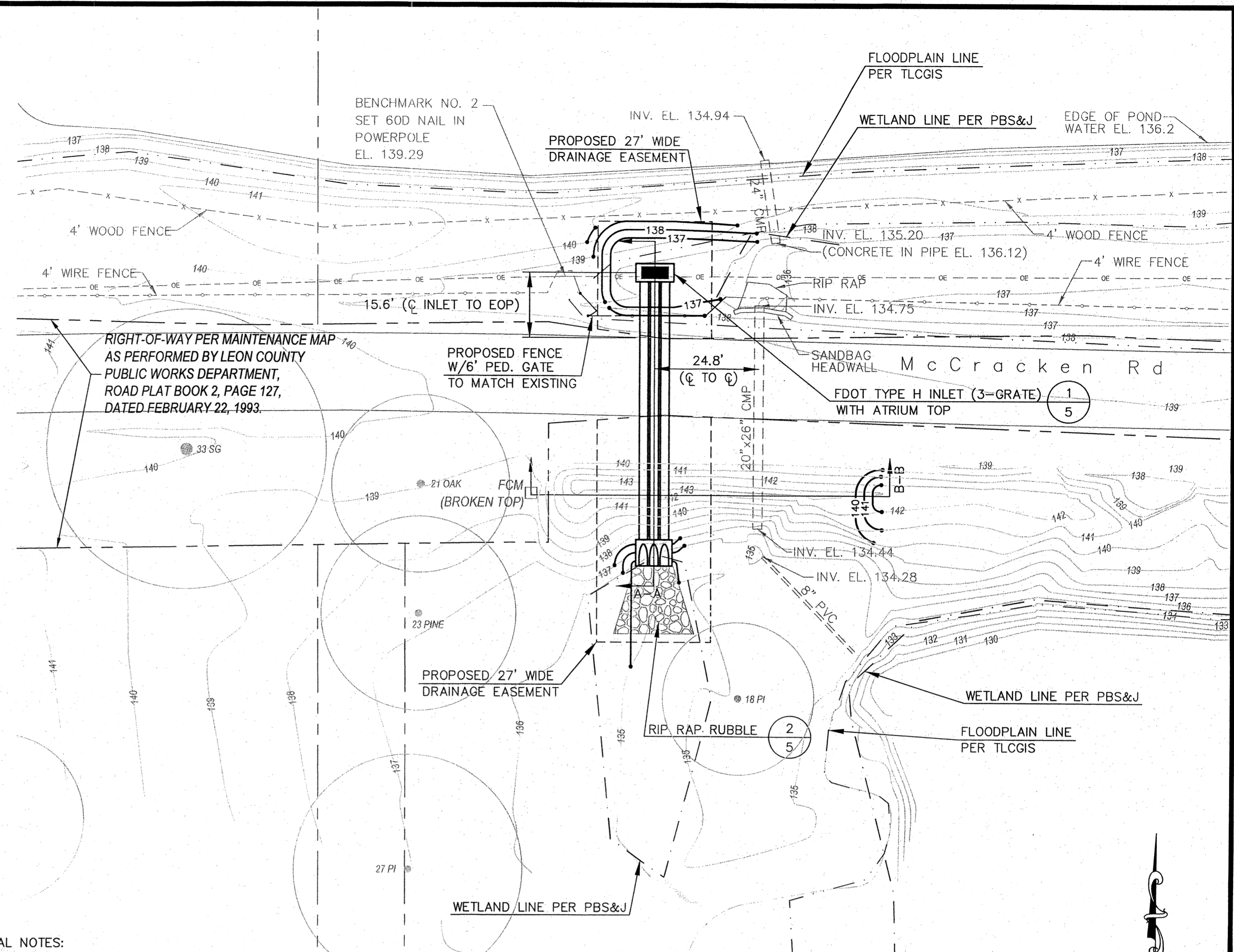
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JOB NO. 10007411 DRAWN JMR/JN DESIGNED JF CHECKED KB OC SHEET 3	BENJAMIN RYAN FREEMAN P.E. NO. 71520 	ORIGINAL DECEMBER 2010
		REVISIONS: 1 _____ 2 _____ 3 _____ 4 _____ 5 _____
<b>BASIN MAP</b>		
<b>FONVILLE FARM CONTROL STRUCTURE AT McCracken Rd.</b>		
CLIENT 2639 N. Monroe St. Tallahassee, Florida 32303 (850) 575-1800 FBPR Certificate of Authorization No. 24		



DEMOLITION AND EROSION CONTROL PLAN



GRADING PLAN

M.O.T. GENERAL NOTES:

- CONTRACTOR SHALL MAINTAIN ONE 10' WIDE TRAVEL LANE OPEN DURING DAYTIME OPERATIONS (AFTER 9AM), AND PROVIDE ADDITIONAL TEMPORARY SHOULDER PAVEMENT AS NEEDED. PROVIDE SIGNAGE AND FLAGMEN PER FDOT INDEX 603.
- TWO WAY TRAFFIC SHALL BE RESTORED ONE HOUR BEFORE SUNSET.

Speed (mph)	A	B	C	D
40 or less	200	200	200	100
45	300	350	350	175
50	500	500	500	250
55 or greater	2640	1640	1000	500

Speed (mph)	Max. Distance Between Devices (ft.)	
	Type I or Type II Cones or Tubular Markers	Type I or Type II Barricades or Vertical Panels or Drums
25 to 45	20	20
50 to 75	20	50

Speed (mph)	Dist. (ft.)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

**GENERAL NOTES**

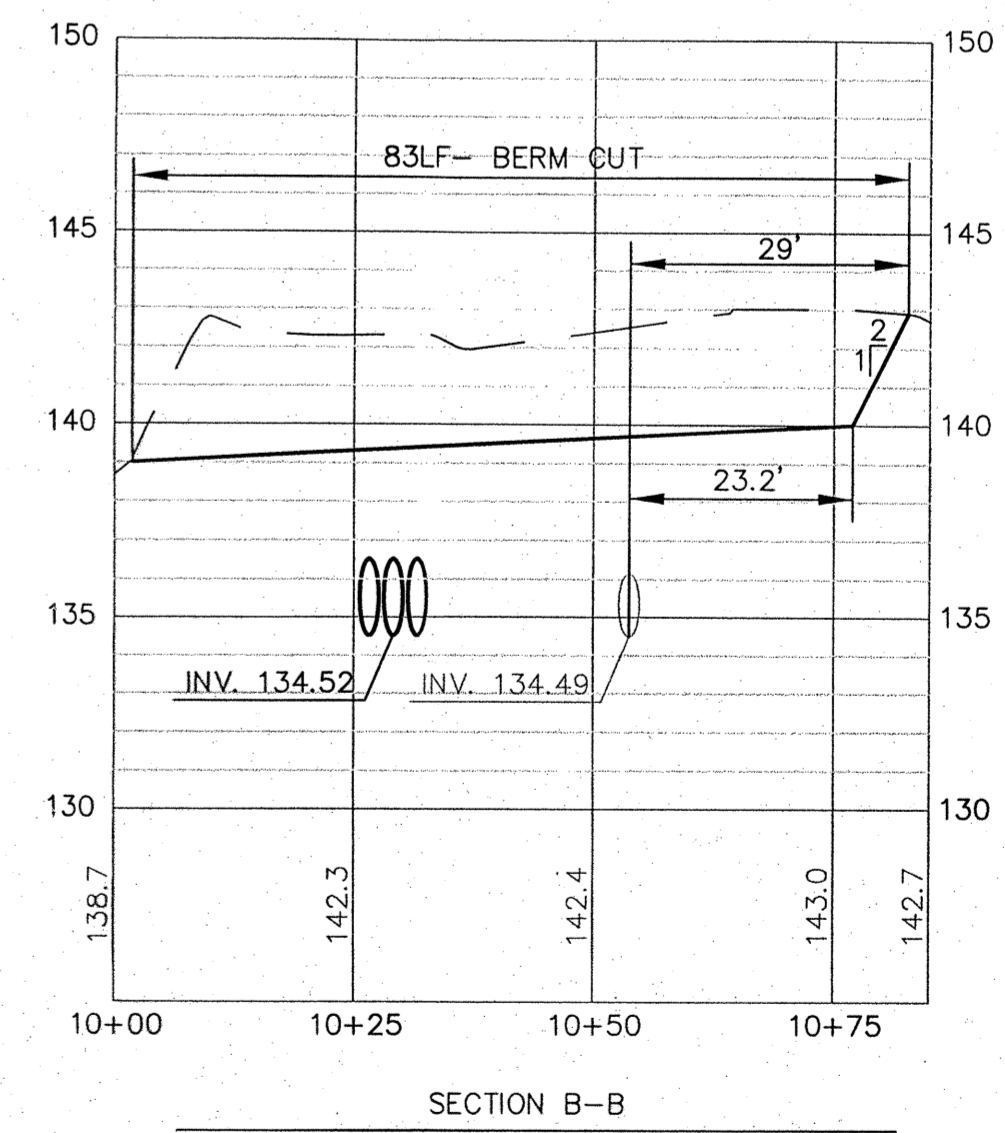
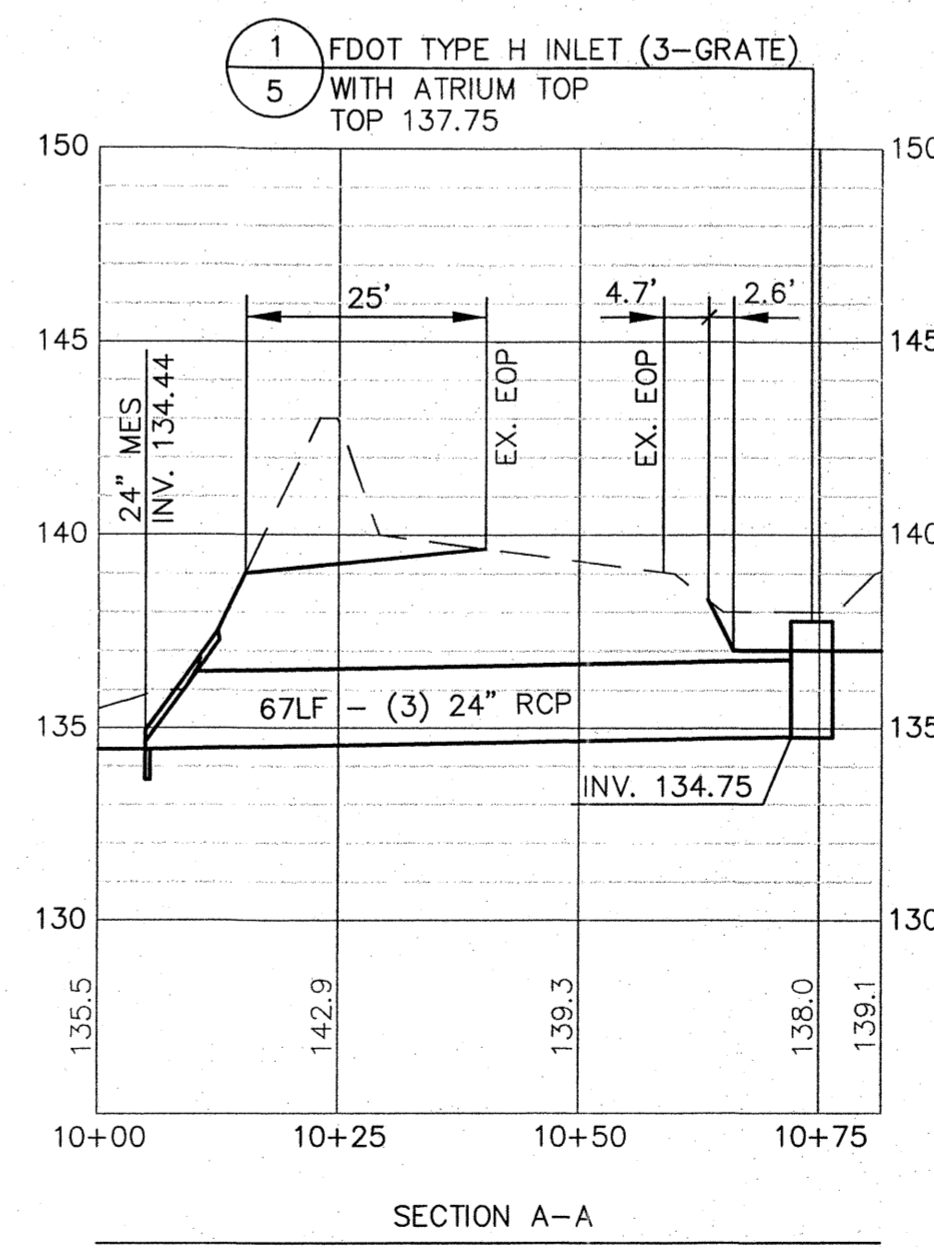
- Work operations shall be confined to one traffic lane, leaving the opposite lane open to traffic.
- Additional one-way control may be effected by the following means:
  - Flag-carrying vehicles (2) Official vehicles
  - Pilot vehicles (2) Traffic signals
- The ONE-LANE ROAD signs are to be fully covered and the FLAGGER signs either removed or fully covered when no work is being performed and the highway is open to two-way traffic.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TTC indexes.

**DURATION NOTES**

- ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
  - Work operations are 60 minutes or less.
  - Speed limit is 45 mph or less.
  - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space.
- Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- Volume and complexity of the roadway has been considered.

**CONDITIONS**

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.



NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

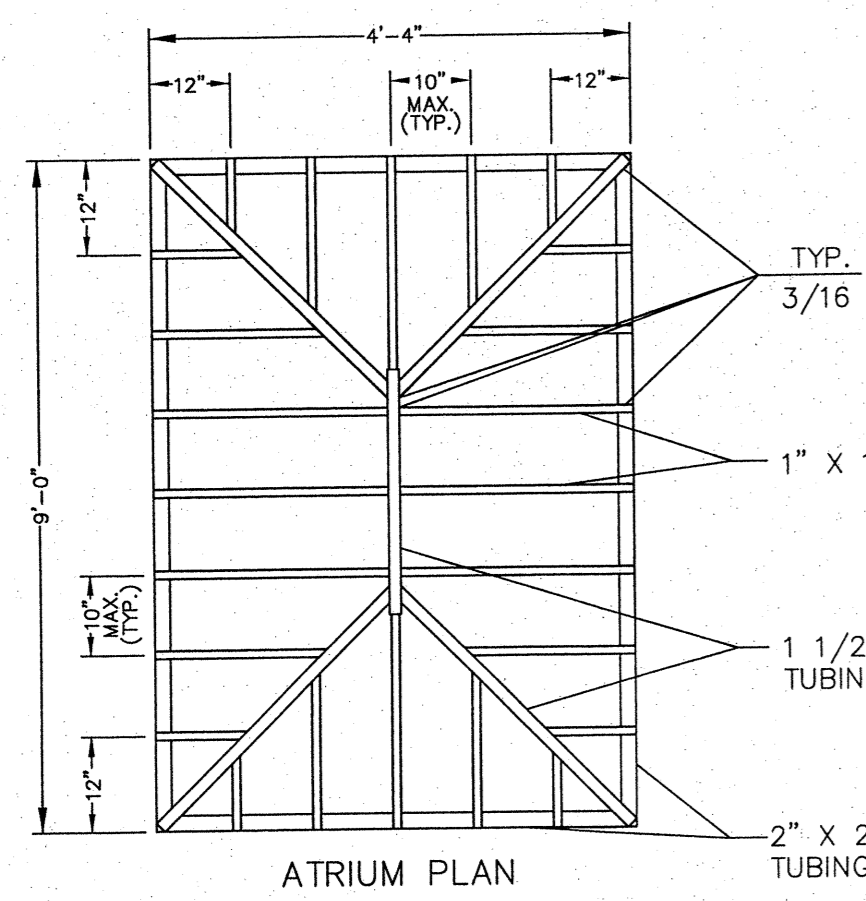
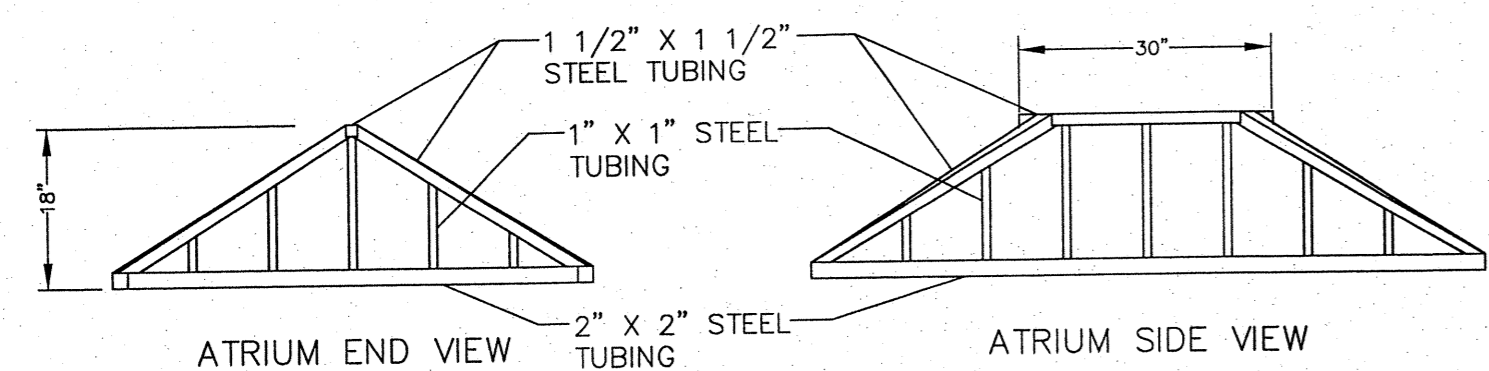
TASK  
 PROJECT  
 CLIENT

FONVILLE FARM  
 CONTROL STRUCTURE  
 AT MCCRACKEN RD.



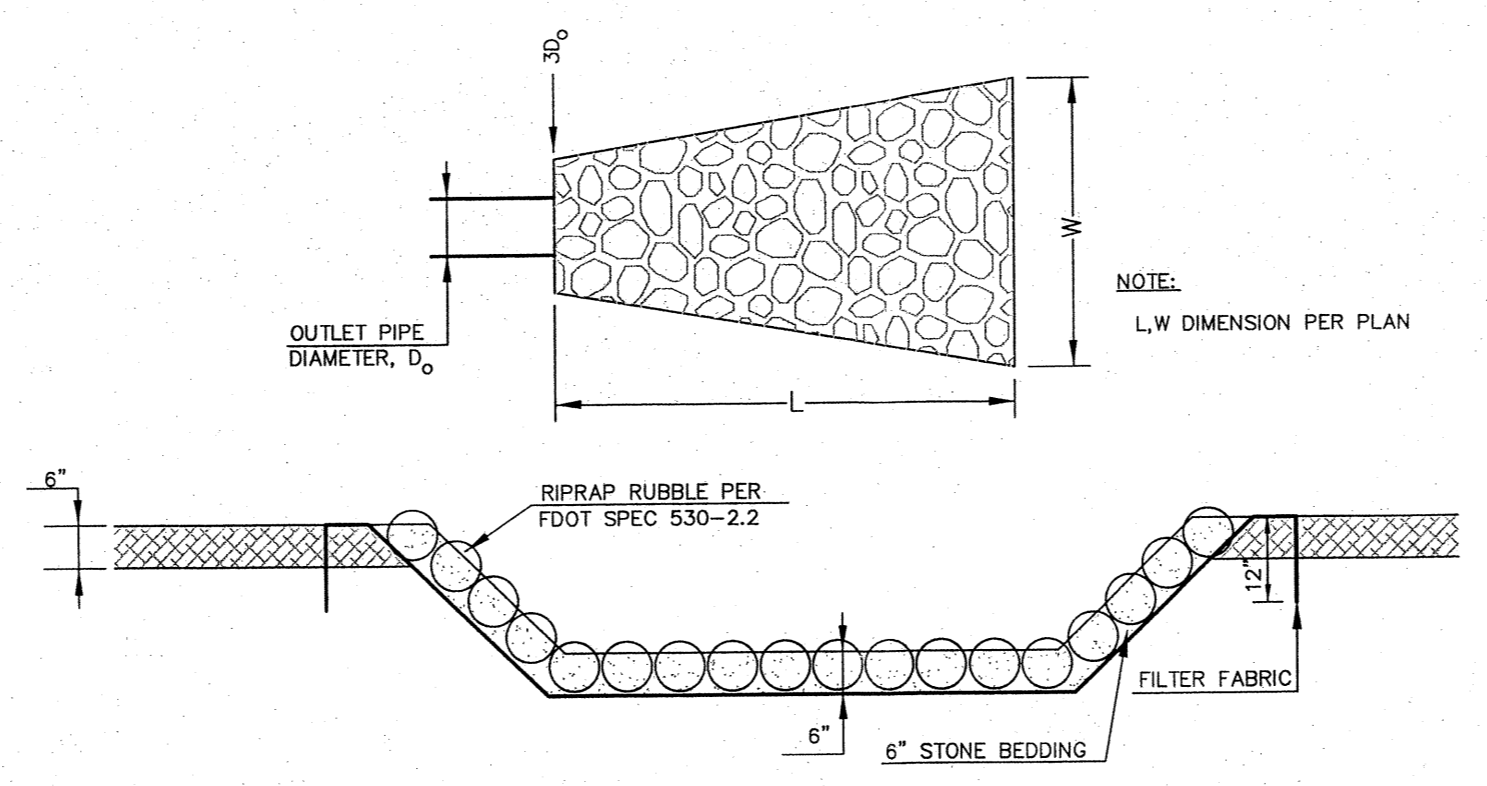
2639 N. Monroe St.  
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 Tallahassee,  
 Florida 32303  
 (850) 575-1800  
 Fax: (850) 575-1804  
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**PBS&J**  
 an Atkins company

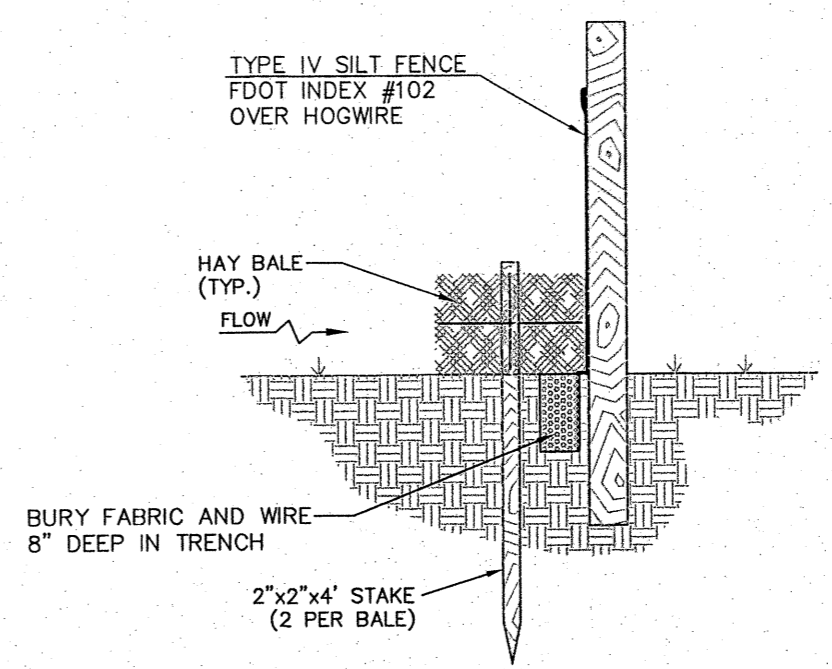


- ATRIUM NOTES**
1. ATRIUM IS TO BE ASSEMBLED USING SQUARE STEEL TUBING.
  2. ALL CONNECTIONS ARE TO BE WELDED.
  3. EXPOSED ENDS OF TUBING ARE TO BE SEALED WITH FABRICATED STEEL CAPS WELDED IN PLACE.
  4. ATRIUM IS TO BE BLACK POWDER COATED AFTER FABRICATION.

1  
5  
**ATRIUM TOP**  
NTS



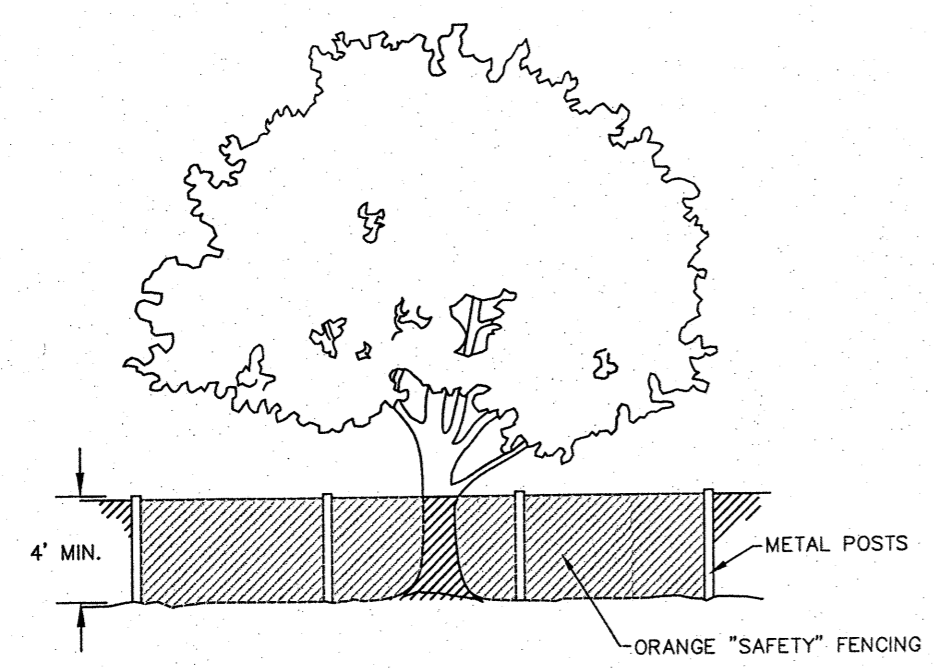
2  
5  
**RIPRAP RUBBLE**  
NTS



- MAINTENANCE NOTES**
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
  2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
  3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
  4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEED.
  5. NO TRENCHING SHALL OCCUR WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED OR DESIRABLE TREE.

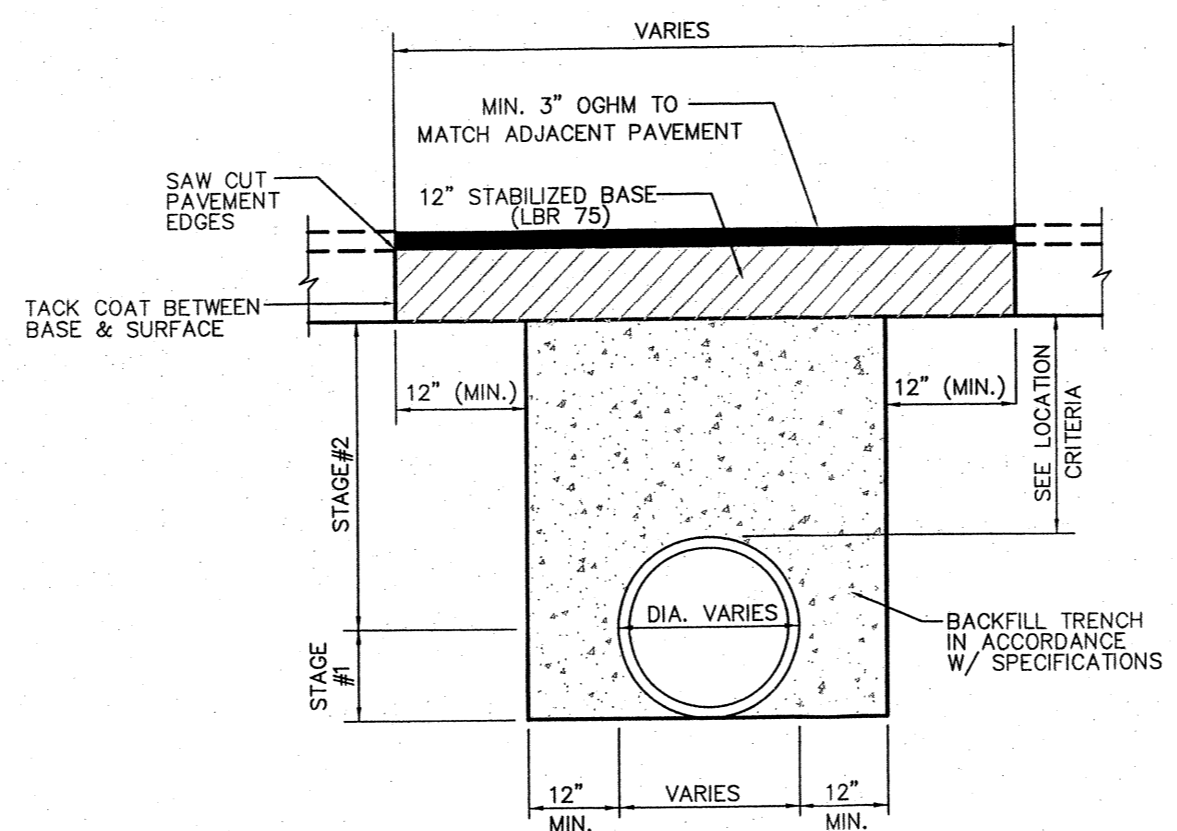
ADDITIONAL SEDIMENT CONTROL MEASURES MAY BE NEEDED FOR MORE INFORMATION. CALL ENVIRONMENTAL MGT. SECTION

3  
5  
**STAKED TYPE IV SILT FENCE WITH HAY BALES**  
NTS



- NOTES:**
1. THE TREE PROTECTION BARRICADES ARE TO BE INSTALLED ALONG THE ENTIRE LIMITS OF CONSTRUCTION FOR THIS PROJECT, AS SHOWN ON THE APPROVED CONSTRUCTION PLANS, AND IN ACCORDANCE WITH THE AGRICULTURAL MITIGATION PLAN.
  2. THE AREA WITHIN BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.

4  
5  
**TREE PROTECTION BARRICADE**  
NTS



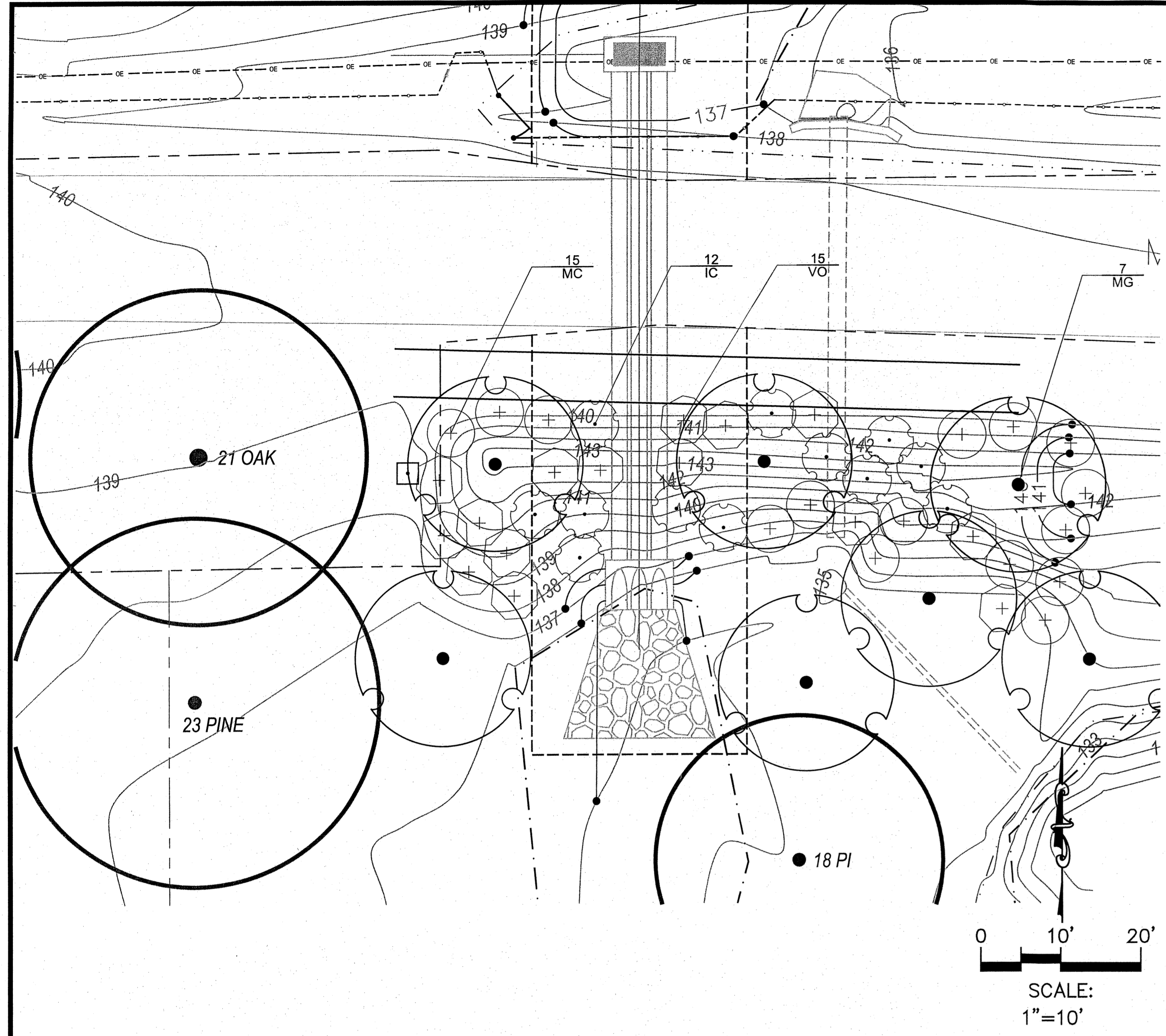
- DENSITY PROCEDURES:**
1. THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
  2. THE BASE WILL BE COMPACTED TO MIN. 98% OF THE STANDARD PROCTOR MAX. DRY DENSITY FOR LBR 78.
- STAGE #1**  
 THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.
- STAGE #2**  
 THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

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5  
**PAVEMENT REPLACEMENT FOR PIPE INSTALLATION & PIPE REMOVAL**  
NTS

**SHIELD FLOW APPLICATION: SILT FENCE**

- GENERAL NOTES**
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
  2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED AS DESCRIBED IN ITEM NO. 8 BELOW.
  3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
  4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. TRENCHING SHALL NOT BE ALLOWED WITHIN THE CPZ OF TREES TO REMAIN.
  5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WREDED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WREDED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
  8. WHEN ATTACHING TWO SILT FENCES TOGETHER, PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS AT LEAST 180 DEGREES ON A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FILTER FABRIC. DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAP.
  9. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
  10. WHEN USED TO CONTROL SEDIMENTS FROM A STEEP SLOPE, SILT FENCES SHOULD BE PLACED AWAY FROM THE TOE OF THE SLOPE FOR INCREASED HOLDING CAPACITY.
  11. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.



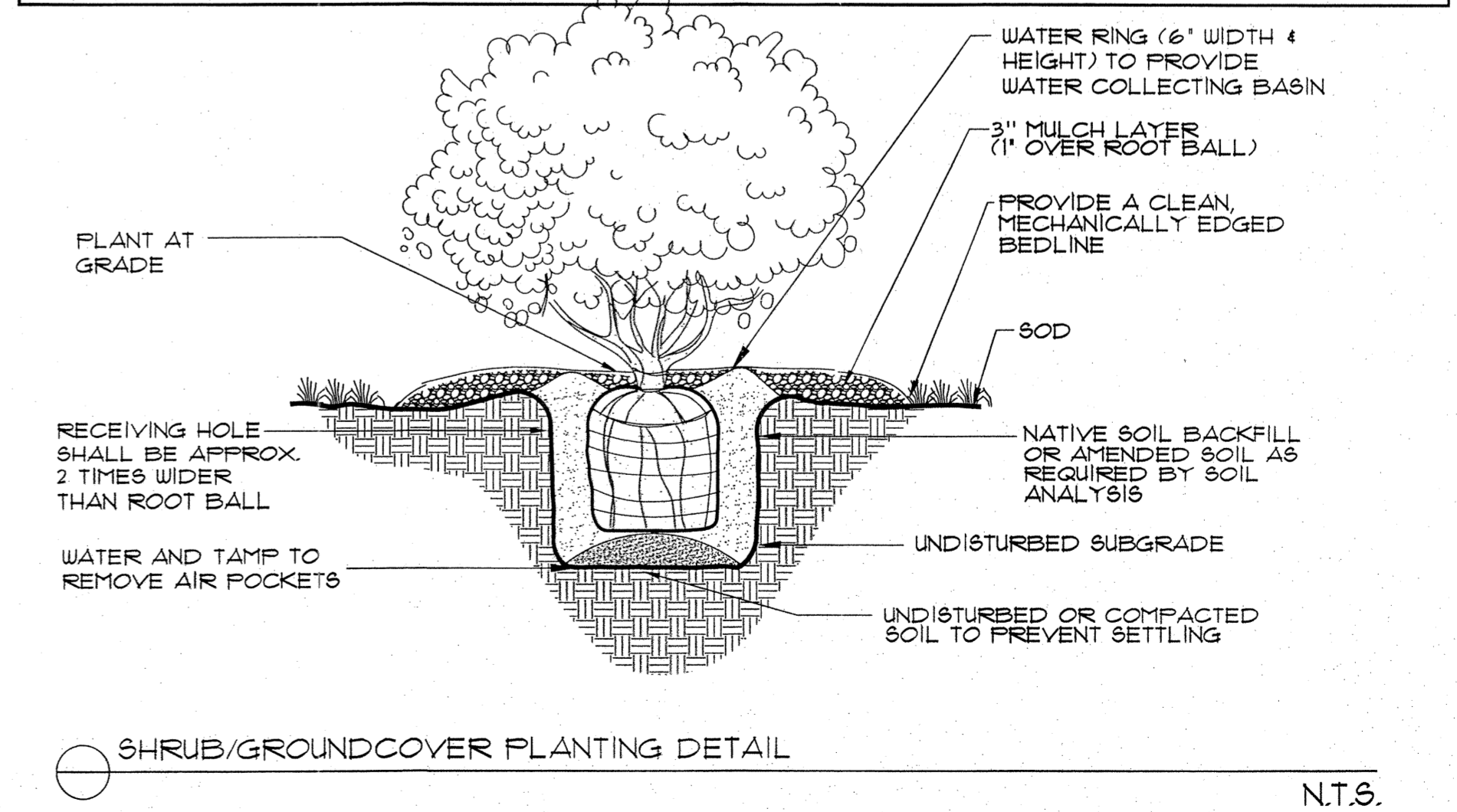
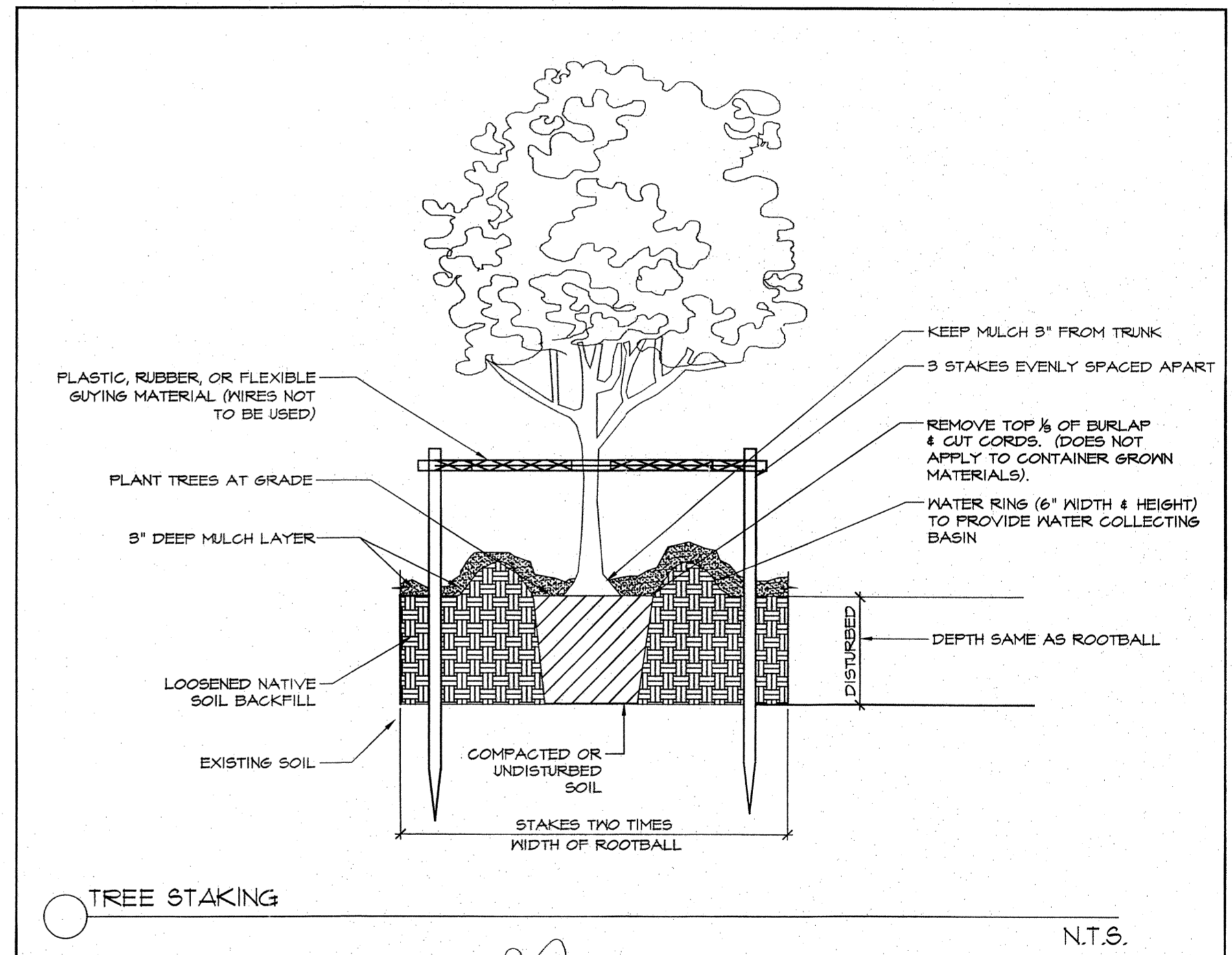


**PLANT LIST**

	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION
<b>TREES</b>				
MG	7	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	FG/RPG; 14'-16' HT.; 3" CAL. MIN.
<b>SHRUBS</b>				
IC	12	ILEX CASSINE	DAHON HOLLY	7 GAL.; 4' HT. MIN.; FULL
MC	15	MYRICA CERIFERA	WAX MYRTLE	7 GAL.; 4' HT. MIN.; FULL
VO	15	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	7 GAL.; 4' HT. MIN.; FULL
	3	CY PINE STRAW MULCH	3" DEPTH	CLEAN; NO STICKS, VINES OR INVASIVES

TREE DEBITS		TREE CREDITS	
REMOVED		PRESERVED	
29" PINE	10 DEBITS	18" PINE	6 CREDITS
32" PINE	10 DEBITS	REPLANTED	
		14 CREDITS (7 [3"] MG @ 2 CREDITS EACH)	
TOTAL DEBITS = 20		TOTAL CREDITS = 20	

- GENERAL NOTES:**
- LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
  - THE LANDSCAPE CONTRACTOR SHALL VERIFY THE EXISTENCE OF AND STAKE ALL UTILITIES PRIOR TO CONSTRUCTION. EXCAVATION OF PLANT PITS LOCATED WITHIN 5' OF UTILITIES SHALL BE PERFORMED BY HAND. ANY UTILITY/PLANT MATERIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OR ANY FIELD ADJUSTMENTS.
  - THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON ALL DRAWINGS. ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS AS SHOWN IN THE PLANT SCHEDULE. THE CONTRACTOR SHALL GUARANTEE PLANT HEALTH AND SURVIVABILITY FOR ONE YEAR FROM DATE OF PROJECT ACCEPTANCE. ANY MATERIAL NOT MEETING SPECIFICATIONS OR DISPLAYING POOR HEALTH SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
  - ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS SET FORTH IN 'GRADES AND STANDARDS FOR NURSERY PLANTS, SECOND EDITION' STANDARDS AND DESIGNATIONS. NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO PLANT DELIVERY TO SCHEDULE ON-SITE INSPECTION UPON DELIVERY. INSTALLED PLANT MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
  - THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE PLANTING BED FIELD CHANGES TO ACCOMMODATE SITE CONDITIONS AND TO ACHIEVE THE DESIGN INTENT. THE LANDSCAPE CONTRACTOR SHALL FLAG ALL TREE AND BEDLINE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION.
  - ALL PLANTS SHALL RECEIVE A 3" LAYER OF PINE STRAW MULCH. ALL TREES AND SHRUBS SHALL RECEIVE A LAYER OF MULCH FOUR FEET IN DIAMETER AND 3" THICK WITH MULCH PULLED 3" AWAY FROM TREE TRUNK.
  - THE LANDSCAPE CONTRACTOR SHALL CONDUCT REPRESENTATIVE SOIL ANALYSIS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE DESIGNER OF ANY IMPROPER SOIL CONDITION (NUTRITIONAL DEFICIENCIES, WETNESS, MUCK, DEBRIS, ETC.) AND SHALL RECOMMEND FOR APPROVAL, PRIOR TO INSTALLATION. ALL SOIL AMENDMENTS THAT MAY BE NECESSARY TO PROMOTE HEALTHY, VIGOROUS PLANT GROWTH.
  - THE LANDSCAPE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING VEGETATION DISTURBED BY PLANT MATERIAL INSTALLATION ACTIVITIES. THIS REPAIR/REPLACEMENT SHALL BLEND SEAMLESSLY WITH THE EXISTING LANDSCAPE. ALL DISTURBED AREAS WILL BE SODDED.
  - CONTRACTOR SHALL PROVIDE DRAWINGS OF IRRIGATION SYSTEM FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF SYSTEM.
  - THE LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN PREPARING PLANTING AREA FINAL GRADE ELEVATIONS.
  - LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO COMPLETION TO SCHEDULE FINAL WALK THROUGH. A FINAL WALK THROUGH SHALL NOT BE PERFORMED IF PREVIOUS PUNCH LISTS ARE NOT COMPLETED.



JOB NO. 10007411  
 DRAWN PF  
 DESIGNED PF  
 CHECKED BF  
 OC  
 SHEET L-1

ROBERT L. FARLEY, P.L.L.  
 FL. LICENSE NO. LA666894

ORIGINAL: DECEMBER 2010  
 REVISIONS:  
 1  
 2  
 3  
 4  
 5

TASK  
**LANDSCAPE PLAN**

PROJECT  
**FONVILLE FARM  
 CONTROL STRUCTURE  
 AT MCCrackEN RD.**



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Author: 16546  
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