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CCB0057

CCB0057

# REUSE TECHNOLOGY, INC.

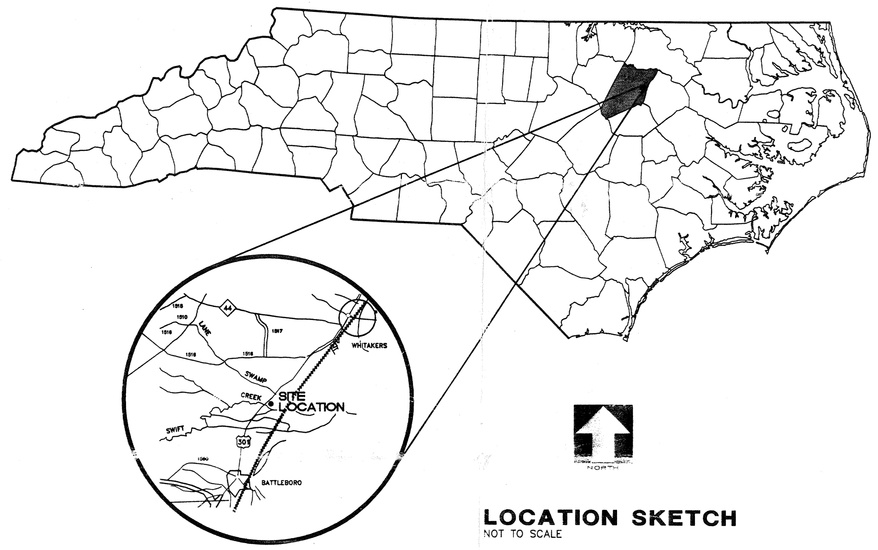
## SWIFT CREEK PROPERTY

## △ COAL COMBUSTION BY-PRODUCT FILL

## 15A NCAC 13B.1703 NOTIFICATION PLAN

### GENERAL NOTES

1. Location and topographical information for the 7.88-Acre tract was taken from an actual field survey performed by Joyner, Keeny & Associates dated June 27, 2001. Reference Datum is MSL. The remaining property boundary lines are taken from Map by Joyner, Keeny & Associates for ReUse Technology, dated December 12, 1991.
2. All signs, pavement markings, and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices, latest edition as amended, and are the Contractor's responsibility.
3. The contractor shall be responsible for all work zone traffic control in or adjacent to NCDOT right-of-way. All methods shall conform to the Manual on Uniform Traffic Control Devices (MUTCD) and NCDOT standards.
4. Work within the NCDOT right-of-way shall conform to NCDOT standards and specifications.
5. Contractor shall comply with all pertinent provisions of the "Manual of Accident Prevention in Construction" issued by AGC of America, Inc., and the Safety and Health Regulations for Construction issued by the U.S. Department of Labor.
6. Existing utility locations shown, if any, are approximate and shall be verified in the field prior to beginning work. Contractor shall contact NC One Call Center at 1-800-632-4949 for locations of existing utilities prior to beginning construction.
7. All disturbed areas shall be landscaped and seeded within 15 days of completion of construction.
8. Property is located in a FEMA mapped flood area or Flood Hazard zone per FEMA Map Panel No. 370278 0050 B.
9. Owner is responsible for determination or discovery of existing underground storage tanks (UST), septic tanks, abandoned utility lines, graves or cemeteries that may exist on the site.
10. Contractor shall exercise extreme caution when working under, around, and/or adjacent to existing power lines.
11. Site disturbance is more than 1 acre therefore an erosion control permit has been applied for. No work shall begin on site until an approved copy of the erosion control permit has been obtained from the review agency. All additional erosion control items that are installed that are not shown on the plans, shall be approved by the local agency or the Engineer before installing in order to approve for payment. Items not approved will be installed at the contractor's expense.
12. This site is not located within a Watershed Protected Zone.
13. The site has been delineated for 404 wetlands by a wetlands specialist from our office and the wetlands delineation confirmed by the US Army COE. The total wetland impact is less than 1/10 acre.
14. Boundary information is shown for reference only. Consult Professional Land Surveyor for boundary data.
15. Unless noted otherwise, all trees not marked to be removed are not to be disturbed. They are to be protected from damage by equipment during construction.
16. The contractor shall be responsible for the repair of any pavement or existing utilities that may be damaged due to construction activity. Exercise caution.
17. It is common for revisions to occur to the sealed drawings during the permitting phase. As a result, only plans signed and dated by the Engineer of Record in the "Approved for Construction" certificate (in addition to the signature and date over the seal) and, if applicable, also bearing the signature and date of the applicable local government authority reviewing and approving the plans, will be considered the Approved Construction Drawings. These plans only are to be used for construction. Work either staked or constructed from plans stamped "Preliminary" or with the signature missing from the "Approved for Construction" certificate will be considered unacceptable for construction. The contractor shall be responsible for remediating and correcting all conflicts created by him at his own expense, which may be at variance with the Approved Construction Drawings.
18. All construction debris shall be disposed of off-site in a state permitted landfill.
19. The location of the topsoil stockpile shall be coordinated with Developer.




**LOCATION SKETCH**
NOT TO SCALE

### INDEX

△ CE-1 COAL COMBUSTION BY-PRODUCT FILL
15A NCAC 13 B. 1703 NOTIFICATION PLAN

### DEVELOPED BY:

**REUSE TECHNOLOGY, INC.**
**665 MOLLY LANE, SUITE 100**
**WOODSTOCK, GA 30189**
**1-800-827-3873**

### CONSULTANTS:

SURVEYING:
**JOYNER, KEENY, & ASSOCIATES**
**209 NORTH PEARL STREET**
**ROCKY MOUNT, NC 27804**
**(252) 977-3124**

### SITE PLAN LEGEND

- EX. CURB & GUTTER TO REMAIN
- PRO. CURB & GUTTER
- PRO SPILL LIP
- EX. AREA LIGHT
- PROPOSED AREA LIGHT
- CONCRETE
- EX. ELEC. LINE
- PROP. UNDER-GROUND ELECTRIC
- EX. SANITARY SEWER
- EX. WATER MAIN
- 950 — EXISTING CONTOUR
- 950 — PROPOSED CONTOUR
- 950.00 — EXISTING GRADE
- + 950.00 — PROPOSED FINISHED GRADE

### SITE INFO.

TRACT ACREAGE: 7.88 Ac.
ZONE: ID
AREA DISTURBED 1.14 Ac.

NORTH CAROLINA PROFESSIONAL SEAL 8421 ENGINEER BOBBY L. JOYNER

11-1-01

BEFORE YOU DIG CALL TOLL FREE 1-800-632-4949 NORTH CAROLINA ONE-CALL CENTER

**REVISIONS**

| NO. △ | DATE: | DESCRIPTION: | BY: | CAD: |
|---|---|---|---|---|
| 1 | 10-10-01 | OWNER COMMENTS | PS | CH |

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CONSULTING ENGINEERS, PA
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES

APPIAN CONSULTING ENGINEERS, P.A.
* Rocky Mount:
641 South Wesleyan Blvd. Rocky Mount, N.C. 27804 – Phone: (252) 972-7703 – Fax: (252) 972-7638 – Email: appian@eocentral.com
* World Wide Web: www.appianengineers.com

REUSE TECHNOLOGY INC – SWIFT CREEK PROPERTY / JN 01-06( / D-

C:\Chris\01060-1 IHC\01060-s1.DWG, 10/30/01 03:18:32 PM, 1:100, PLOT BY CH

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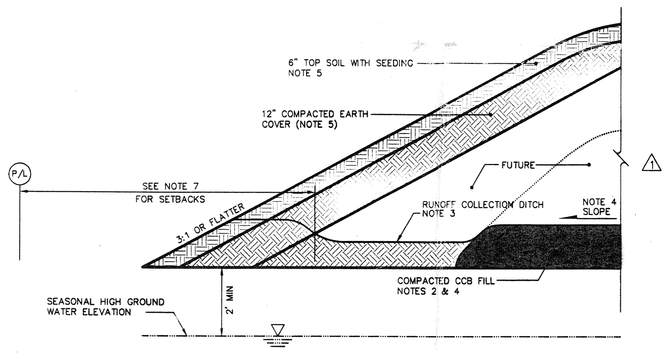
## GENERAL NOTES FOR TYPICAL COAL COMBUSTION BY-PRODUCT (CCB) FILL PLACEMENT

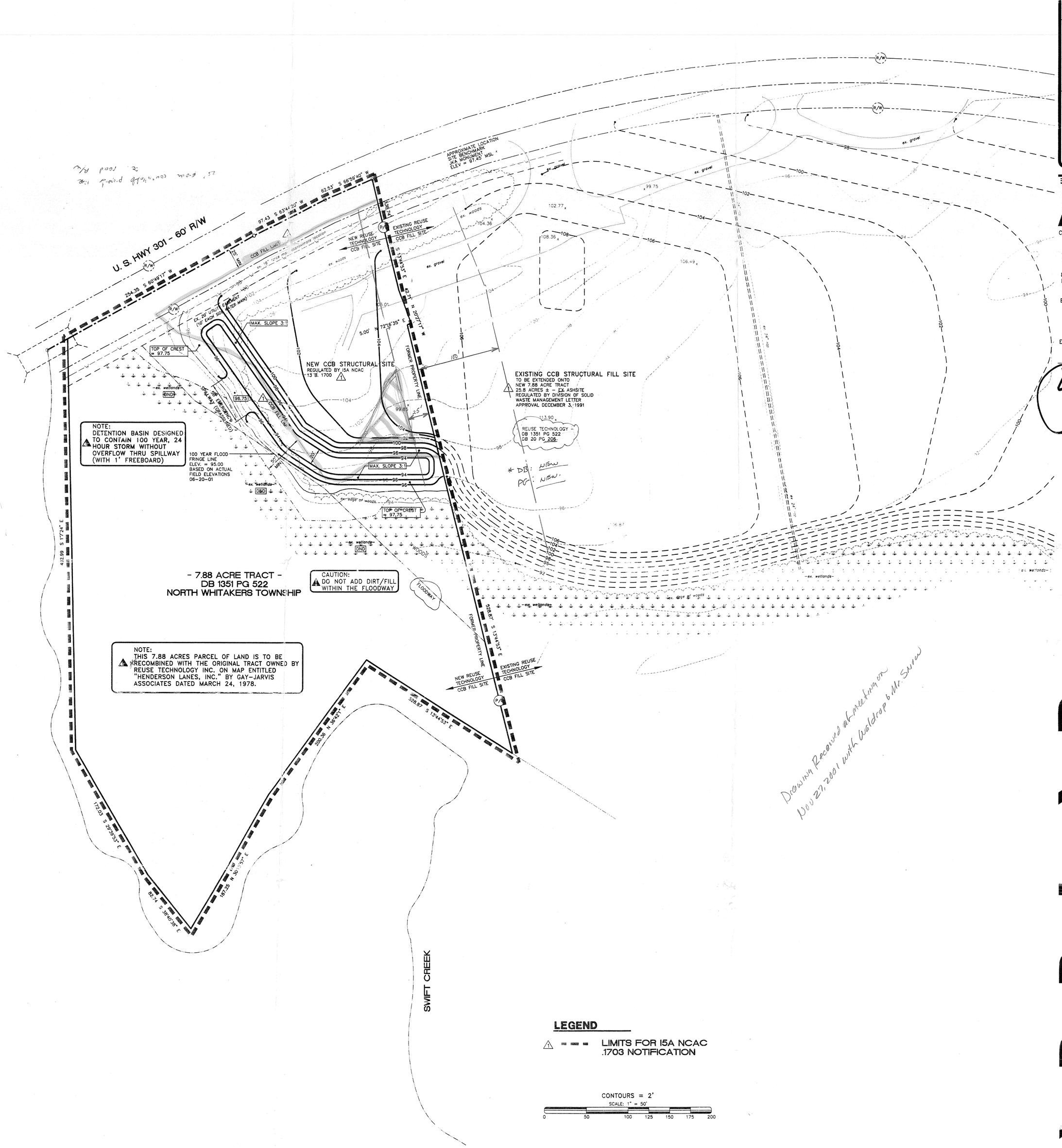
1. All organic material, unsuitable fill or soft material shall be removed and the exposed subgrade compacted with a vibratory roller (10 ton minimum). Where heaving is observed, over excavation will be required at the direction of the Engineer or Project Manager before the placement of CCB fill.
2. CCB's shall be bladed in 8 inch layers and compacted with a smooth steel wheeled vibratory roller (10 ton minimum) to a minimum 95% of the maximum dry density at its optimum moisture content per ASTM D-698. A field compaction test shall be taken for each 5000 cubic yards placed.
3. Run-off from the CCB fill shall be contained by ditch and/or sump to prevent discharge. Sump water may be pumped into a water truck for use in conditioning CCB's.
4. During construction, the CCB fill shall be graded (max. 5%) and a smooth surface maintained to provide for sheet flow run-off and prevent dusting.
5. All CCB fill shall be covered with 12" compacted earth and 6" of topsoil. Seeding shall be in accordance with schedule provided on erosion control plan. Any excess on-site material may be placed in fill slope.
6. Finish grades shown as proposed is finished grade exclusive of earth cover.
7. The following are the setbacks for CCB fill placement:
   a. Maintain 50' (horizontal) between CCB application area and top of the bank of a perennial stream or other surface water body.
   b. Maintain 50'(horizontal) from jurisdictional wetland areas.
   c. Maintain 100' (horizontal) from any source of drinking water, such as a well, spring, or other groundwater source of drinking water.
   d. Outside of the 100-year flood plain, unless it can be demonstrated to the NCDENR - Division of Waste Management that the facility will be protected from inundation, and washout, and the flow of water is not restricted and the storage volume of the flood plain will not be significantly reduced.
   e. Maintain 25' from any property boundary.
   f. Maintain 25' from bedrock outcrop.
   g. Maintain 2' from the seasonal high ground water table

It is the Contractor's responsibility to verify that the above setbacks are the latest and most current per NCDENR - Division of Waste Management regulations.




**TYPICAL COAL COMBUSTION BY-PRODUCT FILL SECTION**

NOT TO SCALE




**LEGEND**

△ - - - LIMITS FOR 15A NCAC .1703 NOTIFICATION

CONTOURS = 2'
SCALE: 1" = 50'
0 50 100 125 150 175 200

BEFORE YOU DIG CALL TOLL FREE 1-800-632-4949 NORTH CAROLINA ONE-CALL CENTER

These plans are for bidding purposes only and are not to be used as Construction drawings unless initialed and dated as approved for Construction below by the Engineer.

Approved for Construction:

_____ Date:_____

**RECORD DRAWINGS:**
These drawings are believed to be a correct representation of actual field conditions but are not warranted as such.

By: _____ Date: _____

**BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.**

**COLORED COVER SHEETS**
In an effort to maintain quality design and construction, Appian has established a plan cover sheet protocol to ensure that the involved parties are all working from the most recent plan revision. Appian has assigned colors to the plan cover sheet to correspond with stages of the design / construction process: White for agency review/ preliminary phase; BLUE for the bidding phase; and GOLD for the construction phase. Contractor should note that the only set of plans to be used for construction are those with a gold cover. Contractor is to contact the project engineer to obtain the most current plan.

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"This certifies that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act as determined by the undersigned on this date. If there is a change in the law or our published regulations, this determination of Section 404 jurisdiction may be relied upon for a period not to exceed five years from this date. This determination was made utilizing the 1987 Corps of Engineers Wetlands Delineation Manual."

NAME: _____
TITLE: _____ DATE: _____

| WRK SCALE: | AS NOTED | DATE: | 8-15-01 | DESIGN: Pete Sokolski | | |
|---|---|---|---|---|---|---|
| VSR SCALE: | AS NOTED | DRAWN BY: | Chris Herron | CHKD: | | |

**REVISIONS**

| NO. | DATE | DESCRIPTION: | BY: | CHD. |
|---|---|---|---|---|
| 1 | 10-11-01 | OWNER COMMENTS | PS | CH |

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FAX: (252) 972-7638
EMAIL: appian@eastcentral.com
- WAKE FOREST: -
331 S. WHITE ST.
WAKE FOREST, N.C. 27587
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appian.wf@mindspring.com
ENVIRONMENT: (919) 562-4673
appianwfe@mindspring.com
FAX: (919) 562-4675
WORLD WIDE WEB: -
www.appianengineers.com

NORTH CAROLINA PROFESSIONAL SEAL 8421 ENGINEER GARY L. JONES

11.1.01

Drawn Received at meeting on Nov 27, 2001 with backup by Mr. Surey

# 15A NCAC 13 B. 1703 NOTIFICATION PLAN for Hwy. 301 - Swift Creek Property Nash County, North Carolina

| | |
|---|---|
| JOB NO. | 01-060 |
| | D-0000 |
| | CE-1 |

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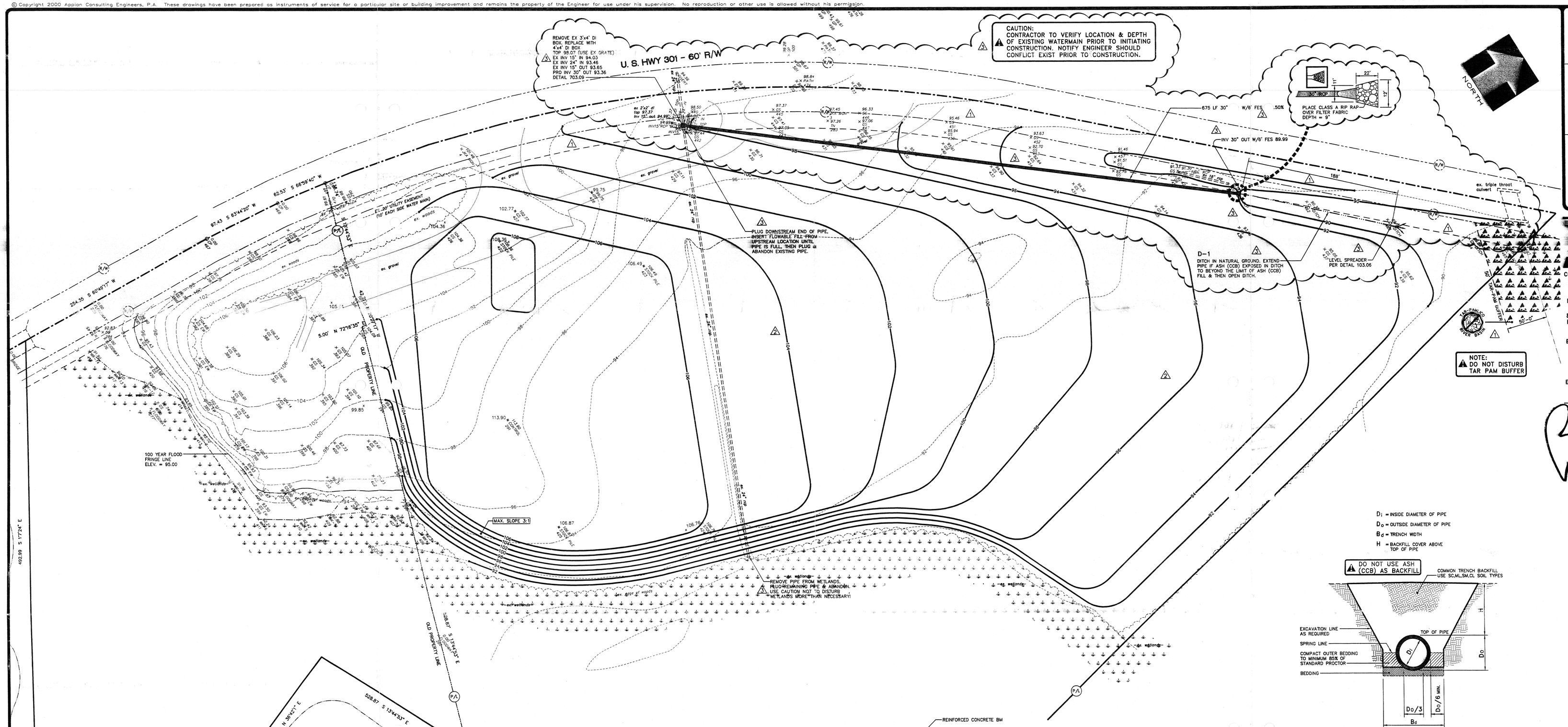
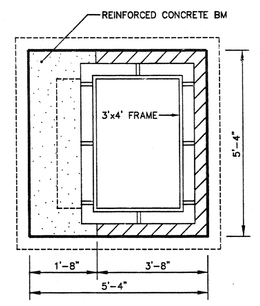
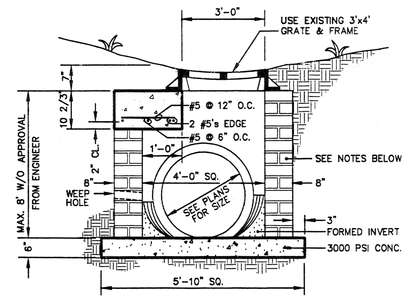



## TOP VIEW

NOT TO SCALE




## 703.09 - SECTION OF 4' x 4' BOX

NOT TO SCALE 12/21/92

NOTES:

1. USE EITHER CONC. BUILDING BRICK-ASTM C55, GRADE N, TYPE 1 OR CLAY BRICK-ASTM C32, GRADE MS.
2. MORTAR TO BE TYPE M.
3. CONCRETE PIPE TO BE CLASS III

$D_i$ = INSIDE DIAMETER OF PIPE

$D_o$ = OUTSIDE DIAMETER OF PIPE

$B_d$ = TRENCH WIDTH

H = BACKFILL COVER ABOVE TOP OF PIPE

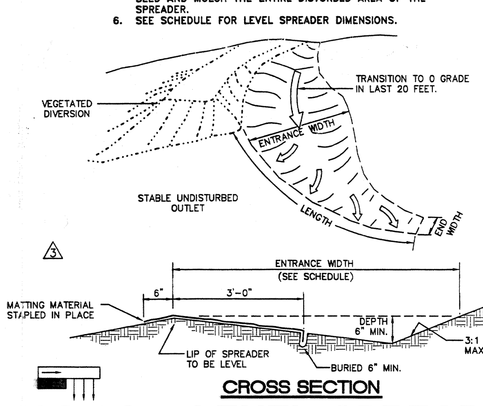



## TRENCH INSTALLATION FOR CONCRETE PIPE

NOT TO SCALE

### CONSTRUCTION SPECIFICATIONS

1. FIBERGLASS MATTING, 4.0' WIDE, SHOULD EXTEND 6" OVER THE LEVEL LIP AND BE BURIED 6" DEEP AT THE LOWER EDGE.
2. ENSURE THAT THE SPREADER LIP IS LEVEL THROUGHOUT ITS LENGTH.
3. CONSTRUCT THE LEVEL SPREADER ON UNDISTURBED SOIL (NOT ON FILL)
4. CONSTRUCT A TRANSITION SECTION FROM THE DIVERSION TO BLEND SMOOTHLY TO THE WIDTH AND DEPTH OF THE SPREADER.
5. IMMEDIATELY AFTER CONSTRUCTION, APPROPRIATELY SEED AND MULCH THE ENTIRE DISTURBED AREA OF THE SPREADER.
6. SEE SCHEDULE FOR LEVEL SPREADER DIMENSIONS.




CROSS SECTION

## 103.06 - LEVEL SPREADER

NOT TO SCALE REV. 5-15-00

CONTOURS = 2'

SCALE: 1" = 50'

0 50 100 125 150 175 200

BEFORE YOU DIG CALL TOLL FREE 1-800-632-4949 NORTH CAROLINA ONE-CALL CENTER

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Approved for Construction:

_____ Date: _____

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By: _____ Date: _____

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NAME: _____

TITLE: _____ DATE: _____

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE: | DESCRIPTION: | BY: |
| 1 | 10-2-01 | NCDOW COMMENTS | CAD |
| 2 | 10-4-01 | OWNER COMMENTS | PS |
| 3 | 4-30-02 | DRAINAGE REVISIONS | CH |
| | | | PS |
| | | | CH |

HOR. SCALE: AS NOTED DRAWN BY: Chris Herron DATE: 8-15-01 DESIGN: Pete Sokolski

VER. SCALE: AS NOTED CHKD: Bobby Joyner

APPLAN

CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES

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841 SOUTH WESLEYAN BLVD.
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FAX: (252) 972-7638
EMAIL: applan@ncsentral.com
– WAKE FOREST: –
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WAKE FOREST, N.C. 27587
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applanwf@mindspring.com
ENVIRONMENT: (919) 562-4673
applanwfe@mindspring.com
FAX: (919) 562-4675
WORLD WIDE WEB: –
www.applanengineers.com

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 8421 BOBBY L. JOYNER

6 May 02

# GRADING PLAN for Hwy. 301 - Swift Creek Property Nash County, North Carolina

01-060

D-0657

CE-1

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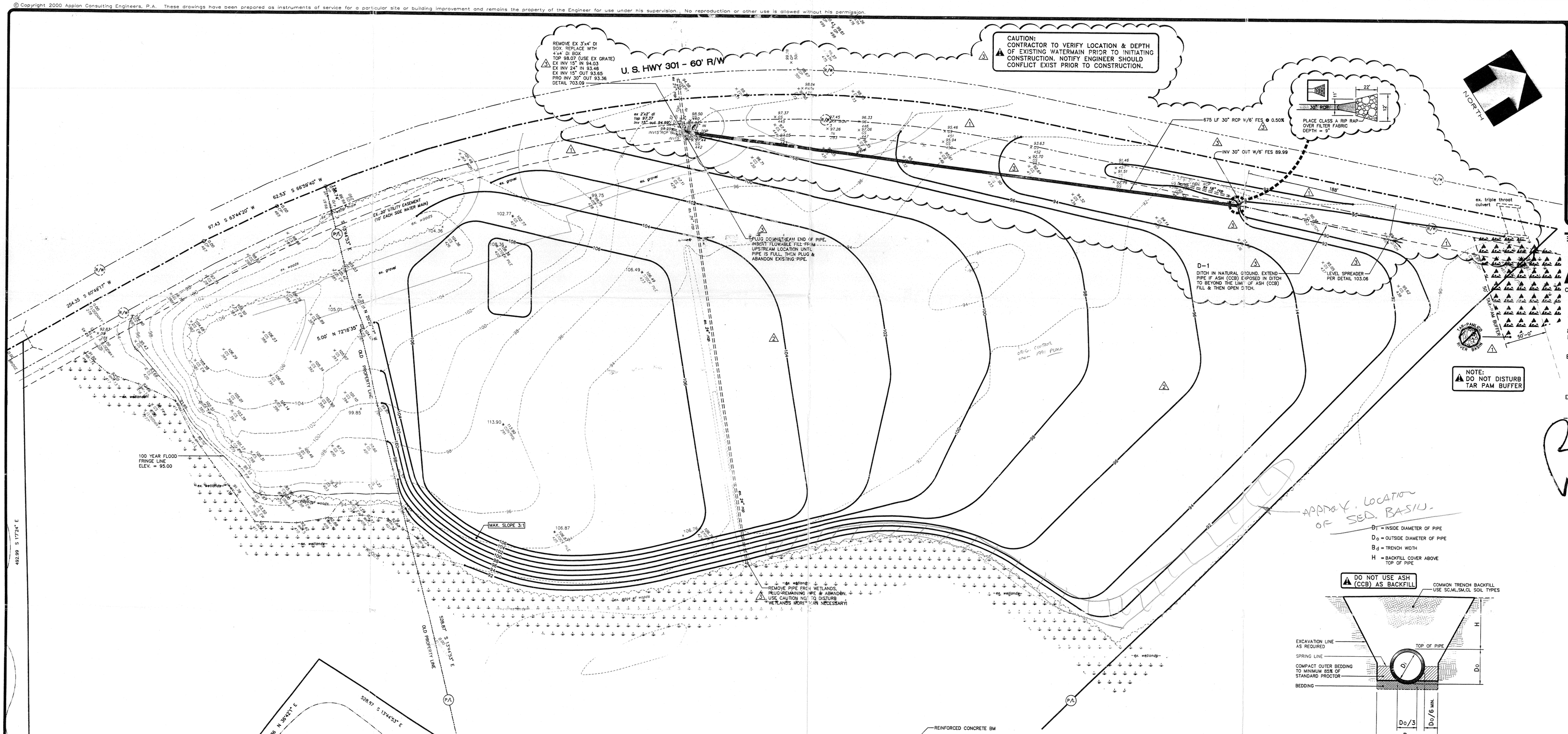


| | | | |
|---|---|---|---|
| HOR. SCALE: AS NOTED | DATE: 8-15-01 | DESIGN: Pete Sakalski | |
| VER. SCALE: AS NOTED | DRAWN BY: Chris Herron | CHKD: Bobby Joyner | |

**REVISIONS**

| NO. | DATE: | DESCRIPTION: | BY: | CHK: |
|---|---|---|---|---|
| 1 | 10-2-01 | INCORP. COMMENTS | PS | DH |
| 2 | 10-4-01 | OWNER COMMENTS | PS | DH |
| 3 | 4-30-02 | DRAINAGE REVISIONS | PS | DH |

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NORTH CAROLINA PROFESSIONAL SEAL 8421 ENGINEER BOBBY L. JOYNER

10 May 02

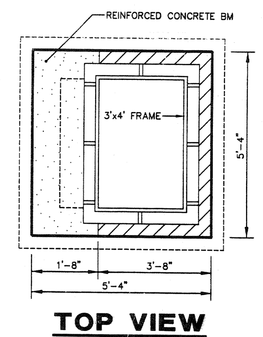
$D_i$ = INSIDE DIAMETER OF PIPE
$D_o$ = OUTSIDE DIAMETER OF PIPE
$B_d$ = TRENCH WIDTH
H = BACKFILL COVER ABOVE TOP OF PIPE

DO NOT USE ASH (CCB) AS BACKFILL



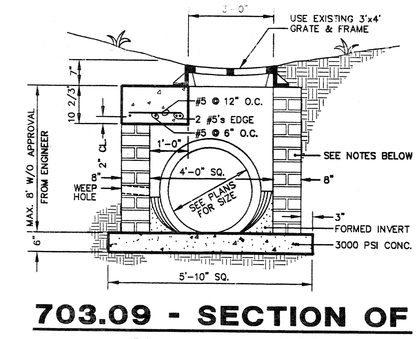

## TRENCH INSTALLATION FOR CONCRETE PIPE

NOT TO SCALE




## TOP VIEW

NOT TO SCALE

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3. CONCRETE PIPE TO BE CLASS III

CONTOURS = 2'
SCALE: 1" = 50'
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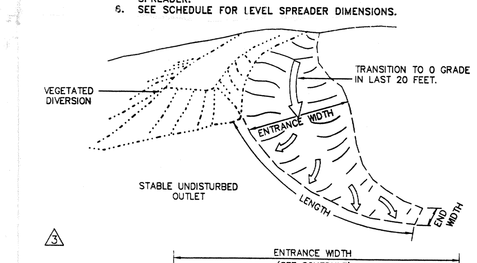
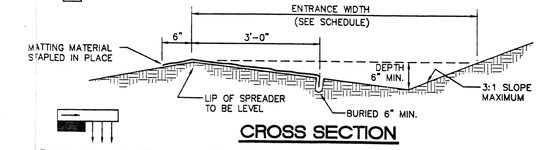
5. [illegible]
   SEED AND MULCH THE ENTIRE DISTURBED AREA OF THE SPREADER.
6. SEE SCHEDULE FOR LEVEL SPREADER DIMENSIONS.




CROSS SECTION

## 103.06 - LEVEL SPREADER

NOT TO SCALE REV. 5-15-00

BEFORE YOU DIG CALL TOLL FREE 1-800-632-4949 NORTH CAROLINA ONE-CALL CENTER

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_____ Date: _____

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NAME: _____
TITLE: _____ DATE: _____

APPLAN

**GRADING PLAN for Hwy. 301 - Swift Creek Property Nash County, North Carolina**

01-060
D-0657
CE-1

C:\Users\jo-637\0_sbp-1.dwg, 05/06/02 01:37:20 PM, 1:50, PLOT By K.H.

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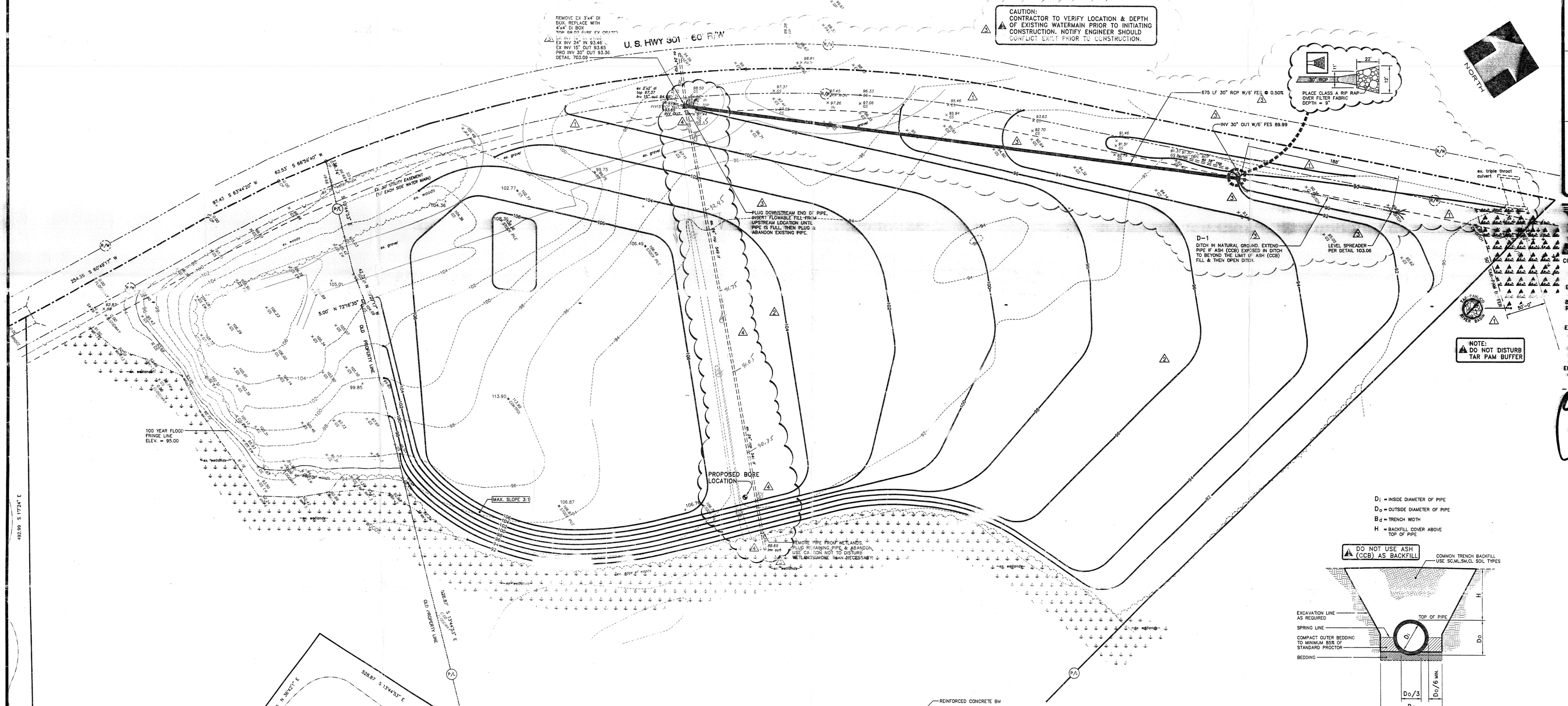
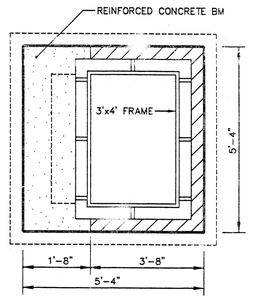
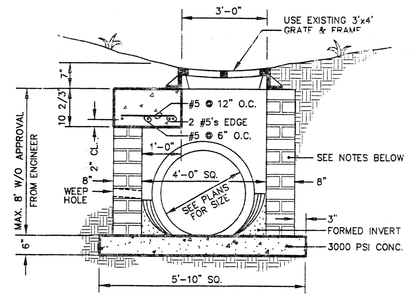



24" @ Bot (Hwy 301)
93.46
89.65
3.81'

3.81' / 549' = .007




**TOP VIEW**
NOT TO SCALE




**703.09 - SECTION OF 4' x 4' BOX**
NOT TO SCALE 12/21/92

NOTES:
1. USE EITHER CONC. BUILDING BRICK-ASTM C55, GRADE N, TYPE 1 OR CLAY BRICK-ASTM C32, GRADE MS.
2. MORTAR TO BE TYPE M.
3. CONCRETE PIPE TO BE CLASS III

$D_i$ = INSIDE DIAMETER OF PIPE
$D_o$ = OUTSIDE DIAMETER OF PIPE
$B_d$ = TRENCH WIDTH
H = BACKFILL COVER ABOVE TOP OF PIPE

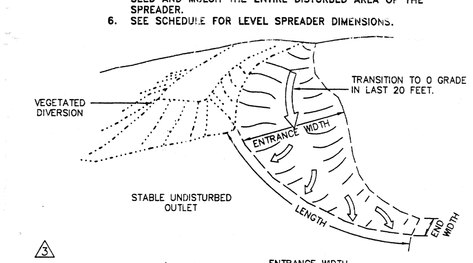
DO NOT USE ASH (CCB) AS BACKFILL

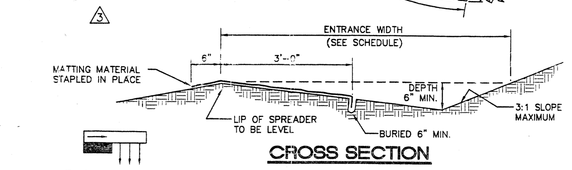



**TRENCH INSTALLATION FOR CONCRETE PIPE**
NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS**

1. FIBERGLASS MATTING, 4.0' WIDE, SHOULD EXTEND 6" OVER THE LEVEL LIP AND BE BURIED 6" DEEP AT THE LOWER EDGE.
2. ENSURE THAT THE SPREADER LIP IS LEVEL THROUGHOUT ITS LENGTH.
3. CONSTRUCT THE LEVEL SPREADER ON UNDISTURBED SOIL (NOT ON FILL)
4. CONSTRUCT A TRANSITION SECTION FROM THE DIVERSION TO BLEND SMOOTHLY TO THE WIDTH AND DEPTH OF THE SPREADER.
5. IMMEDIATELY AFTER CONSTRUCTION, APPROPRIATELY SEED AND MULCH THE ENTIRE DISTURBED AREA OF THE SPREADER.
6. SEE SCHEDULE FOR LEVEL SPREADER DIMENSIONS.




CROSS SECTION

**103.06 - LEVEL SPREADER**
NOT TO SCALE REV. 5-15-00

CONTOURS = 2'
SCALE: 1" = 50'
0 50 100 125 150 175 200

BEFORE YOU DIG CALL TOLL FREE 1-800-632-4949 NORTH CAROLINA ONE-CALL CENTER

These plans are for bidding purposes only and are not to be used as Construction drawings unless initialed and dated as approved for construction below by the Engineer.

Approved for Construction: _____ Date: _____

RECORD DRAWINGS
These drawings are believed to be a correct representation of actual field conditions but are not warranted as such.

By: _____ Date: _____

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

COLORED COVER SHEETS
In an effort to maintain quality design and construction, Applan has established a plan cover sheet protocol to ensure that the involved parties are all working from the most recent plan revision. Applan has assigned colors to the plan cover sheet to correspond with stages of the design / construction process: WHITE for agency review/ [illegible] for the construction phase. Contractor should note that the only set of plans to be used for construction are those with a gold cover. Contractor is to contact the project engineer to obtain the most current plan.

CONSTRUCTION SAFETY
These drawings do not contain the requirements for job safety. All provisions for safety shall be the sole [illegible] of the contractor.

EXISTING CONDITIONS:
The contractor shall be responsible for reviewing all existing job conditions. Any adverse existing conditions affecting work shown on these drawings shall be brought to the attention of the engineer for possible clarification or reconciliation.

ADA AND LEGAL DISCLAIMER
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"This certifier that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act as determined by the undersigned on this date. Unless there is a change in the law or our published regulations, this determination of Section 404 jurisdiction is valid for a period not to exceed five years from this date. This determination was made utilizing the 1987 Corps of Engineers Wetlands Delineation Manual."

NAME: _____
TITLE: _____ DATE: _____

| | | | |
|---|---|---|---|
| HOR. SCALE: AS NOTED | DATE: 8-15-01 | DRAWN BY: Chris Herron | DESIGN: Pete Sokolski |
| VER. SCALE: AS NOTED | DRAWN BY: | DWG: Bobby Joyner | |

REVISIONS

| NO. | DATE: | DESCRIPTION: | BY: | CAD: |
|---|---|---|---|---|
| 1 | 10-2-01 | NCDENR COMMENTS | PS | CH |
| 2 | 10-4-01 | OWNER COMMENTS | PS | CH |
| 3 | 4-30-02 | DRAINAGE REVISIONS | PS | CH |
| 4 | 5-14-02 | DRAINAGE REVISIONS | PS | CH |

APPLAN
CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
— ROCKY MOUNT: —
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ROCKY MOUNT, N.C. 27804
PHONE: (252) 972-7703
FAX: (252) 972-7638
EMAIL: applan@eocentral.com
— WAKE FOREST: —
331 S. WHITE ST.
WAKE FOREST, N.C. 27587
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applanwf@mindspring.com
ENVIRONMENT: (919) 562-4673
applanwfe@mindspring.com
FAX: (919) 562-4675
— WORLD WIDE WEB: —
www.applanengineers.com

NORTH CAROLINA PROFESSIONAL SEAL 8421 ENGINEER BOBBY L. JOYNER
14 May 02

APPLAN

# GRADING PLAN for Hwy. 301 - Swift Creek Property Nash County, North Carolina

01-060
D-0657
CE-1

C:\Applan\Wrd-Pro\01060-1.dwg 05/29/02 10:11:44 AM, 1:50, 1:1.01 By: A.W.

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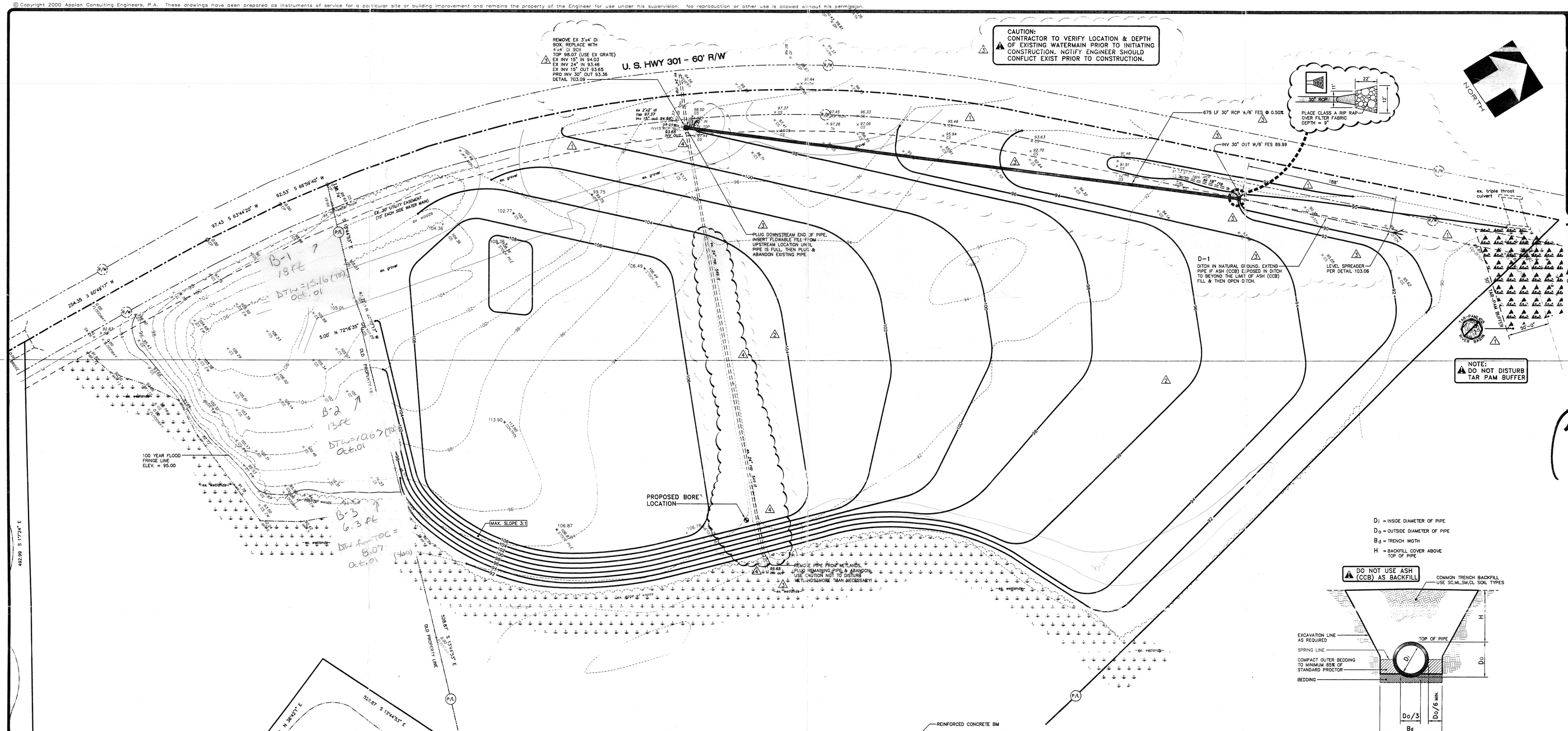


| NOR. SCALE: | AS NOTED | DATE: | 8-15-01 | INCHOR / Ale Sokolski |
|---|---|---|---|---|
| VER. SCALE: | AS NOTED | DRAWN BY: | Chris Herron | CHKD. / Abby Hafner |

REVISIONS

| NO. | DATE | DESCRIPTION | BY: | CAD. |
|---|---|---|---|---|
| 1 | 10-2-01 | NCDENR COMMENTS | PS | CH |
| 2 | 12-4-01 | OWNER COMMENTS | PS | CH |
| 3 | 4-11-02 | AGENCY COMMENTS | PS | CH |
| 4 | 5-30-02 | DRAINAGE REVISIONS | PS | CH |

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– WAKE FOREST: –
331 S. WHITE ST.
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applanwfe@mindspring.com
FAX: (919) 562-4675
WORLD WIDE WEB: –
www.applan-engineers.com

NORTH CAROLINA PROFESSIONAL SEAL 8421 ENGINEER JOHN L. JOYNER
7.16.02

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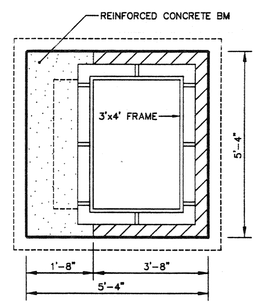
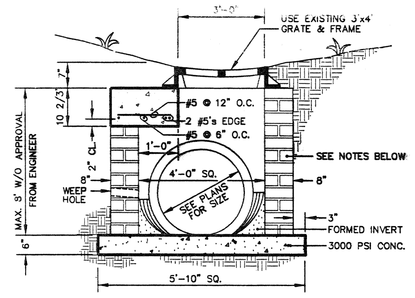
NOT TO SCALE




## TOP VIEW

NOT TO SCALE




## 703.09 - SECTION OF 4' x 4' BOX

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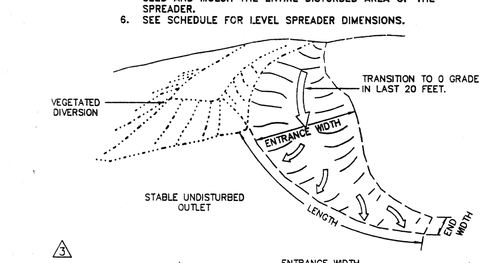
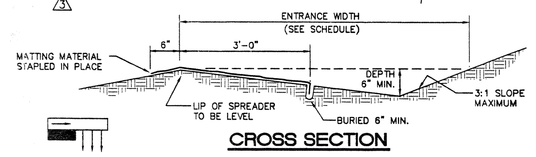
5. [illegible]
[illegible] THE EXISTING UNDISTURBED AREA OF THE SPREADER.
6. SEE SCHEDULE FOR LEVEL SPREADER DIMENSIONS.




CROSS SECTION

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NAME:
TITLE: _____ DATE: _____

1C
2002 Maps showing different locations for concrete pipe

JUL 2002 Received Water Quality Section

APPLAN

GRADING PLAN for
Hwy. 301 - Swift Creek Property
Nash County, North Carolina

01-060
D-0657
CE-1