



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

October 6, 2004

**Addendum No. 1**

RE: TIP I-2511CB  
Contract ID: C200929  
WBS # 34163.3.10  
Federal Aid No.: NHF-85-3(173)75  
Rowan County  
I-85 North of SR 1002 (Bringle Ferry Road)  
to North of SR 2120 near Spencer

**November 18, 2004 Letting**

To Whom It May Concern:

Reference is made to the Request for Proposal recently furnished to you on the above project.  
The following revision has been made to the Request for Proposal:

The 401 and 404 permits are included. Please add Page Nos. 210a through 210zz behind Page No. 210 in your proposal.

Sincerely,

A handwritten signature in black ink, appearing to read "R.A. Garriss".

R.A. Garriss, P.E.  
Contract Officer

Distribution:

Mr. W.S. Varnedoe, P.E.  
Mr. Pat Ivey, P.E.  
Ms. D.M. Barbour, P.E.  
Mr. S.D. DeWitt, P.E.  
Mr. J.V. Barbour, P.E.  
Mr. Art McMillian, P.E.  
Mr. S.D. Blevins, P.E.  
Mr. Jay Bennett, P.E.  
Mr. R.E. Davenport, P.E.  
Mr. J.A. Gay, P.E.  
Ms. Marsha Sample  
Mr. Rodger Rochelle, P.E. (w/attachment)  
Mr. Shannon Lassiter, P.E. (w/attachment)  
Technical Review Committee  
Project File (w/attachment)



REPLY TO  
ATTENTION OF:

**DEPARTMENT OF THE ARMY**  
**WILMINGTON DISTRICT, CORPS OF ENGINEERS**  
**P.O. BOX 1890**  
**WILMINGTON, NORTH CAROLINA 28402-1890**

September 30, 2004

Regulatory Division

SUBJECT: Action ID 200221534, TIP No. I-2511CB

Dr. Gregory J. Thorpe, Ph.D.  
Environmental Management Director, PDEA  
N.C. Department of Transportation  
1548 Mail Service Center  
Raleigh, NC 27699-1548

Dear Dr. Thorpe:


In accordance with your written request of February 20, 2004, and the resulting administrative record, enclosed are two copies of a Department of the Army permit to authorize the discharge of fill material into waters of the United States, for construction of Section CB of the I-85 widening and improvements (T.I.P. No. I-2511CB), impacting Town Creek and its unnamed tributaries, from north of SR 1002 (Bringle Ferry Road) to north of SR 2120 (Long Ferry Road), east of Spencer, in Rowan County, North Carolina.

You should acknowledge that you accept the terms and conditions of the enclosed permit by signing and dating each copy in the spaces provided ("Permittee" on page 3). Your signature, as permittee, shows that, as consideration for the issuance of this permit, you voluntarily accept and agree to comply with all of the terms and conditions of this permit. All pages of both copies of the signed permit with drawings should then be returned to this office for final authorization. A self-addressed envelope is enclosed for your convenience.

In addition, I have enclosed a copy of the Notification of Administrative Appeal Process and Options and Request for Appeal. Please carefully read Section "B" of this form for information regarding the appeal process for proffered permits

After the permit is authorized in this office, the original copy will be returned to you; the duplicate copy will be permanently retained in this office. Should you have questions, contact Mr. Eric Alsmeyer of my Raleigh Field Office regulatory staff at telephone (919) 876-8441, extension 23.

Sincerely,

A handwritten signature in cursive script, reading "E. David Franklin".

E. David Franklin  
Chief, NCDOT Team

Enclosures

## DEPARTMENT OF THE ARMY PERMIT

NC Department of Transportation

Permittee \_\_\_\_\_

200221534

Permit No. \_\_\_\_\_

USAED, Wilmington

Issuing Office \_\_\_\_\_

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

### Project Description:

Place fill material impacting a total of 2,218 linear feet of stream and 0.52 acre of wetlands, for construction of Section CB of the I-85 widening and improvements (T.I.P. No. I-2511CB), impacting Town Creek and its unnamed tributaries.

**Project Location:** From north of SR 1002 (Bringle Ferry Road) to north of SR 2120 (Long Ferry Road), east of Spencer, in Rowan County, North Carolina.

### Permit Conditions:

#### General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2008. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

See enclosed sheet.

**Further Information:**

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - ( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - ☒ Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - ( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
  - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
  - b. This permit does not grant any property rights or exclusive privileges.
  - c. This permit does not authorize any injury to the property or rights of others.
  - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
  - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
  - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
  - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
  - d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.


b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

  
(PERMITTEE)

10/04/04  
(DATE)

NC DEPARTMENT OF TRANSPORTATION

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

\_\_\_\_\_  
(DISTRICT ENGINEER)

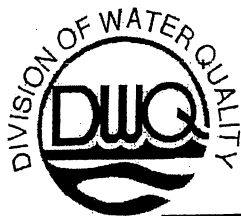
\_\_\_\_\_  
(DATE)

CHARLES R. ALEXANDER, JR. COLONEL

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFeree)

\_\_\_\_\_  
(DATE)



Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E., Director  
Division of Water Quality  
Coleen H. Sullins, Deputy Director  
Division of Water Quality

April 20, 2004

Mr. Gregory J. Thorpe, Ph.D., Environmental Director  
NCDOT Planning and Environmental Branch  
1548 Mail Service Center  
Raleigh, NC, 27699-1548

**RECEIVED**

APR 26 2004

Dear Dr. Thorpe:

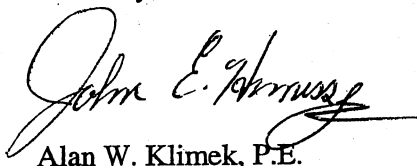
RALEIGH REGULATORY FIELD OFFICE

Re: Water Quality Certification Pursuant to §401 of the Federal Clean Water Act.  
Improvements to I-85 from north of SR 1002 to north of SR 2120 in Rowan County.  
F.A. Project No. IR-IM-85-3(132)74; State Project No. 8.1631503  
TIP No. I-2511CB  
DWQ Project No. 040271

Attached hereto is a copy of Certification No. 3456 issued to The North Carolina Department of Transportation dated April 20, 2004.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,



Alan W. Klimek, P.E.

**Attachments**

cc: Wilmington District Corps of Engineers  
Eric Alsmeyer, USACE Raleigh Field Office  
NCDWQ Mooresville Regional Office  
Christopher Militscher, US Environmental Protection Agency – Region IV  
William Gilmore, NC Ecological Enhancement Program  
Central Files  
File Copy





## NORTH CAROLINA 401 WATER QUALITY CERTIFICATION

**THIS CERTIFICATION** is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, .0500. This Certification authorizes the NCDOT to incur the following permanent impacts:

### I-2511 Section CB

- 0.05 acres of riverine wetlands through excavation and mechanized clearing;
- 0.47 acres of non-riverine wetlands through fill and mechanized clearing;
- 2218 linear feet of stream loss; 1642 linear feet requiring mitigation.

I-2511CB shall be constructed pursuant to the application dated February 20, 2004 to improve I-85 from north of SR 1002 to north of SR 2120 in Rowan County.

The Application provides adequate assurance that the discharge of fill material into the waters of the state with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your Application. All work authorized by this Certification must be done in strict compliance with the plans attached to the Application. If this project changes, incurring additional impacts to streams, wetlands or buffers, you are required to notify the DWQ *in writing*, and you may be required to submit a new application. Additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion Control, Non-discharge and Water Supply watershed regulations.

This Certification shall expire three (3) years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding US Army Corps of Engineers Permit, whichever is later.

### **Condition(s) of Certification:**

1. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
  - d. Any reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.

2. No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts depicted in the Application. All construction activities shall be performed so that no violations of state water quality standards, statutes, or rules occur.
3. Sediment and erosion control measures shall not be placed in wetlands or waters to the maximum extent practicable. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored within 30 days after the project has been released.
4. The outside wetland or water boundary as well as along the construction corridor within these boundaries approved under this authorization shall be clearly marked by orange fabric fencing for the areas that have been approved to infringe within the wetland or water prior to any land disturbing activities.
5. NCDOT and its contractors and/or agents shall not excavate, fill, or perform mechanized land clearing at any time in the construction or maintenance of this project within waters and/or wetlands, except as authorized by this Certification, or any modification to this Certification. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this Certification without appropriate modification. If this occurs, compensatory mitigation will be required since it is a direct impact from road construction activities.
6. Excavation of stream crossings should be conducted in the dry unless demonstrated by the applicant or its authorized agent to be unfeasible. Sandbags, cofferdams, flexible pipe, or other diversion structures should be used to minimize excavation in flowing water.
7. Stormwater management shall be constructed in accordance with the hydraulic design plans submitted in the February 20, 2004 application.
8. Culverts that are less than 48-inch in diameter should be buried to a depth equal to or greater than 20% of their size to allow for aquatic life passage. Culverts that are 48-inch diameter or larger should be buried at least 12 inches below the stream bottom to allow natural stream bottom material to become established in the culvert following installation and to provide aquatic life passage during periods of low flow. If any of the existing pipes are perched, they shall be removed and replaced, and re-installed correctly, unless demonstrated that this is topographically unfeasible.
9. Live or fresh concrete shall not come into contact with waters of the state until the concrete has hardened. This will lessen the chance of a fish kill.
10. Discharging hydroseeding mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is strictly prohibited.
11. The removal of vegetation in riparian areas should be minimized. NCDOT is encouraged to use existing on-site vegetation and materials for stream bank stabilization and to minimize the use of rip rap. Riprap shall not be placed in the stream bottom. Riparian vegetation, using native trees and shrubs, must be re-established within the construction limits of the project by the end of the growing season following completion of construction to reestablish the riparian zone and to provide long-term erosion control.

12. Heavy equipment should be operated from the bank rather than in the stream channel unless demonstrated by the applicant or its authorized agent to be unfeasible. All mechanized equipment operated near surface waters should be inspected and maintained regularly to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids or other toxic substances.
13. *Summary of Compensatory Mitigation:* Compensatory mitigation shall be the same as that approved by the US Army Corps of Engineers, as long as the mitigation required equals a ratio of 1:1 restoration or creation of lost wetland acres as described in 15A NCAC 2H.0506 (h)(6), and consists of the following:

I-2511 Section CB

- 1375 linear feet on on-site stream relocation using natural channel design technique (plans submitted with February 20, 2004 application).
- 0.05 acres of on-site riverine wetland restoration from the adjacent I-2304 Section AA
- 267 linear feet of stream impacts will be mitigated through NCDENR Ecosystem Enhancement Program (EEP).
- 0.47 acres of impacts to non-riverine wetlands will be mitigated through EEP.

In accordance with 15A NCAC 2R.0500, this contribution will satisfy NC Division of Water Quality's compensatory mitigation requirements under 15A NCAC 2H.0506(h). Until the EEP receives and clears your payments, wetland or stream fill shall not occur. The payments to EEP shall be sent within two (2) months of issuance of the 404 permit.

14. Rock check dams at culvert outlets should be removed at project completion to avoid blocking movement of aquatic life.
15. Two copies of the final construction drawings shall be furnished to NCDWQ prior to the pre-construction meeting. Written verification shall be provided that the final construction drawings comply with the attached permit drawings contained in the Application dated February 20, 2004.
16. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
17. NCDOT and its authorized agents shall conduct its activities in a manner consistent with State water quality standards and any other appropriate requirements of State law and Federal law. If DWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, DWQ may reevaluate and modify this Certification to include conditions appropriate to assure compliance with such standards and requirements in accordance with 15A NCAC 2H.0507(d). Before modifying the Certification, DWQ shall notify NCDOT and the US Army Corps of Engineers, provide public notice in accordance with 15A NCAC 2H.0503 and provide opportunity for public hearing in accordance with 15A NCAC 2H.0504. Any new or revised conditions shall be provided to NCDOT in writing, shall be provided to the United States Army Corps of Engineers for reference in any permit issued pursuant to Section 404 of the Clean Water Act, and shall also become conditions of the 404 Permit for the project.

Gregory J. Thorpe, Ph.D.  
§401 Water Quality Certification No. 3456  
I-2511CB

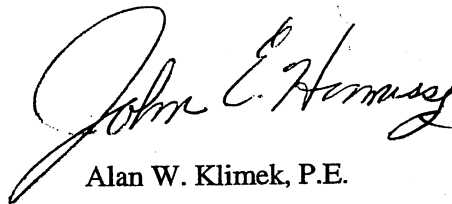
NCDOT shall require its contractors (and/or agents) to comply with all of the terms of this Certification, and shall provide each of its contractors (and/or agents) a copy of this Certification.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal Permit. This Certification shall expire upon the expiration of the 404 Permit.

If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition that conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. This certification and its conditions are final and binding unless you ask for a hearing.

This the 20<sup>th</sup> day of April 2004

DIVISION OF WATER QUALITY



Alan W. Klimek, P.E.

WQC No. 3456

**NORTH CAROLINA – DIVISION OF WATER QUALITY  
401 WATER QUALITY CERTIFICATION  
SUMMARY OF PERMITTED IMPACTS AND MITIGATION REQUIREMENTS**

In accordance with 15A NCAC 2H.0500, NCDOT, DWQ Project No. 040271, is authorized to impact the surface waters of the State of North Carolina as indicated below for the purpose of improving I-85 from north of SR 1002 to north of SR 2120 in Rowan County. All activities associated with these authorized impacts must be conducted in accordance with the conditions listed in the attached Certification transmittal letter. **THIS CERTIFICATION IS NOT VALID WITHOUT THE ATTACHMENTS.**

Summary of Impacts

*I-2511 Section CB*

- 0.05 acres of riverine wetlands through excavation and mechanized clearing;
- 0.47 acres of non-riverine wetlands through fill and mechanized clearing;
- 2218 linear feet of jurisdictional stream loss.

On-site mitigation to be performed by NCDOT:

- 1375 linear feet of on-site stream relocation using natural channel design.
- 0.05 acres of on-site riverine wetland restoration from adjacent I-2304 Section AA.

**COMPENSATORY MITIGATION REQUIREMENTS:**

**LOCATION:** I-85

**COUNTY:** Rowan County

**BASIN/SUBBASIN:** Yadkin-Pee Dee, Hydrologic Unit 03040103

As required by 15A NCAC 2B .0250 and 15A NCAC 2H .0506(h), and the conditions of this Certification, you are required to compensate for the above impacts through the restoration, creation, enhancement or preservation of wetlands, buffers, and surface waters as outlined below *prior* to conducting any activities that impact or degrade waters of the state. Mitigation to be performed by NC Ecological Enhancement Program in Hydrologic Unit 03040103:

- 267 linear feet of stream.
- 0.47 acres of non-riverine wetlands.

One of the options you have available to satisfy the compensatory mitigation requirements is through payment of a fee to the Ecosystem Enhancement Program per 15A NCAC 2R .0503. If you choose this option, please sign this form and mail it to the address listed below. An invoice for the appropriate amount of payment will be sent to you upon receipt of this form. **PLEASE NOTE, THE ABOVE IMPACTS ARE NOT AUTHORIZED UNTIL YOU RECEIVE NOTIFICATION THAT YOUR PAYMENT HAS BEEN PROCESSED BY THE ECOSYSTEM ENHANCEMENT PROGRAM.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

ECOSYSTEM ENHANCEMENT PROGRAM  
1652 Mail Service Center  
RALEIGH, NC, 27699-1652

**SPECIAL CONDITIONS (Action ID. 200221534; NCDOT/TIP I-2511CB)**

**Work Limits**

a. All work authorized by this permit must be completed in strict compliance with the attached plans, which are a part of this permit. The permittee will ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any deviation in the construction design plans will be brought to the attention of the U.S. Army Corps of Engineers (USACE), Raleigh Regulatory Field Office, prior to any active construction in waters or wetlands, and any modification to the permit plans must be approved by the USACE prior to implementation.

b. Except as authorized by this permit or any USACE approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or any activities that cause the degradation of waters or wetlands, except as authorized by this permit, or any modification to this permit. This permit does not authorize temporary placement or double handling of excavated or fill material within waters or wetlands outside the permitted area. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional waters or wetlands associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project.

c. Except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within waters or wetlands or to reduce the reach of waters or wetlands.

**Related Laws**

d. The North Carolina Division of Water Quality has issued a conditioned Water Quality Certification for your project; the conditions of that certification are hereby incorporated as special conditions of this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

e. All mechanized equipment will be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-5083, Ext. 526 or (800) 662-7956 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act will be followed.

### **Project Maintenance**

f. Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source and will be clean and free of any pollutants except in trace quantities. Metal products, organic materials (including debris from land clearing activities), or unsightly debris will not be used.

g. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit, and any authorized modifications. A copy of this permit, and any authorized modifications, including all conditions, shall be available at the project site during construction and maintenance of this project

h. The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

i. The permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.

### **Enforcement**

j. Violations of these conditions or violations of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act must be reported in writing to the Wilmington District U.S. Army Corps of Engineers within 24 hours of the permittee's discovery of the violation.

### **Mitigation**

k. The permittee shall mitigate for 1,642 linear feet of impact to streams with important aquatic function, and 0.52 acre of permanent bottomland forest and emergent marsh wetland impact for this project, as described below (1,375 linear feet of onsite stream relocation, 0.1 acre of restoration equivalent riverine wetlands, and 0.94 acre of restoration equivalent non-riverine wetlands, through the North Carolina Ecosystem Enhancement Program (EEP), in the Yadkin River basin (Cataloging Unit 03040103)).

### Onsite Stream Relocation

l. IMPLEMENTATION: The permittee shall mitigate for 1,375 linear feet of unavoidable impact to streams with important aquatic function, associated with this project, by completing 1,375 linear feet of onsite stream relocation, as described in the permit application. All stream relocations shall be constructed in accordance with the North Carolina Wildlife Resources Commission's (NCWRC) "Stream Relocation Guidelines." NCDOT shall consult with NCWRC on all stream relocations and implement all practicable recommendations in the design of specific site requirements for re-establishment of bank vegetation, and placement of meanders and habitat structures. Vegetation shall be used to the maximum extent practicable to stabilize banks, and riprap and other man-made structural measures shall be minimized. The permittee shall construct all channel relocations in a dry work area, and stabilize the new channel before stream flows are diverted. Whenever possible, the permittee shall allow new channels to stabilize for an entire growing season.

m. AS-BUILT SURVEY: The permittee shall complete an as-built channel survey within sixty days of completion of the stream relocation construction. The permittee shall document changes in the dimension, pattern, profile, vegetation plantings, and structures installed, of the relocated channel from the proposed design. The permittee shall also include in the as-built survey: photo documentation at representative segments and structures; and a plan view diagram.

n. MONITORING SCHEDULE: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e., identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action); visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the Corps of Engineers, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the Corps of Engineers, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

o. MONITORING DATA/REPORT: The permittee shall include the following information in the Level I monitoring report for the site: reference photos; plant survival notes and recommendations, as appropriate; and a report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall complete the Monitoring Data Record, Sections 1, 2 and 3 (pages 1, 2 and 3, attached), for each representative segment of the channel, and for each year of monitoring (twice each year, summer and winter, for reference photos). The permittee shall include in the monitoring reports a



discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

p. STREAM MITIGATION SUCCESS CRITERIA: The mitigation success criteria, and required remediation actions, will be generally based on the attached Appendix II, and the Photo Documentation, Ecological Function, and Channel Stability criteria in the "Stream Mitigation Guidelines", dated April, 2003 (available on the internet at [http://www.saw.usace.army.mil/wetlands/Mitigation/stream\\_mitigation.html](http://www.saw.usace.army.mil/wetlands/Mitigation/stream_mitigation.html)), pages 24 and 25, under "Success Criteria: ".

### **EEP Mitigation**

q. Compensatory mitigation for the unavoidable impacts to 0.05 acre of riverine wetlands, 0.47 acre of non-riverine wetlands, and 267 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in letters dated May 18, 2004 and September 23, 2004, from William D. Gilmore, EEP Transition Manager. Pursuant to the EEP Memorandum of Agreement (MOA) between the State of North Carolina and the US Army Corps of Engineers signed on July 22, 2003, the EEP will provide 0.1 acre of restoration equivalent riverine wetlands, 0.94 acre of restoration equivalent non-riverine wetlands, and 534 linear feet of restoration equivalent warm water stream channel in the Yadkin River basin (Hydrologic Cataloging Unit 03040103) by one year from the date of this permit. For wetlands, a minimum of 1:1 (impact to mitigation) must be in the form of wetland restoration. The NCDOT shall, within 30 days of the issue date of this permit, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V. of the MOA.

r. Failure to institute and carry out the details of special conditions a. - q., above, may result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with TIP I-2511CB, or such other remedy as the District Engineer or his authorized representatives may seek.

### **Instream Work Moratorium**

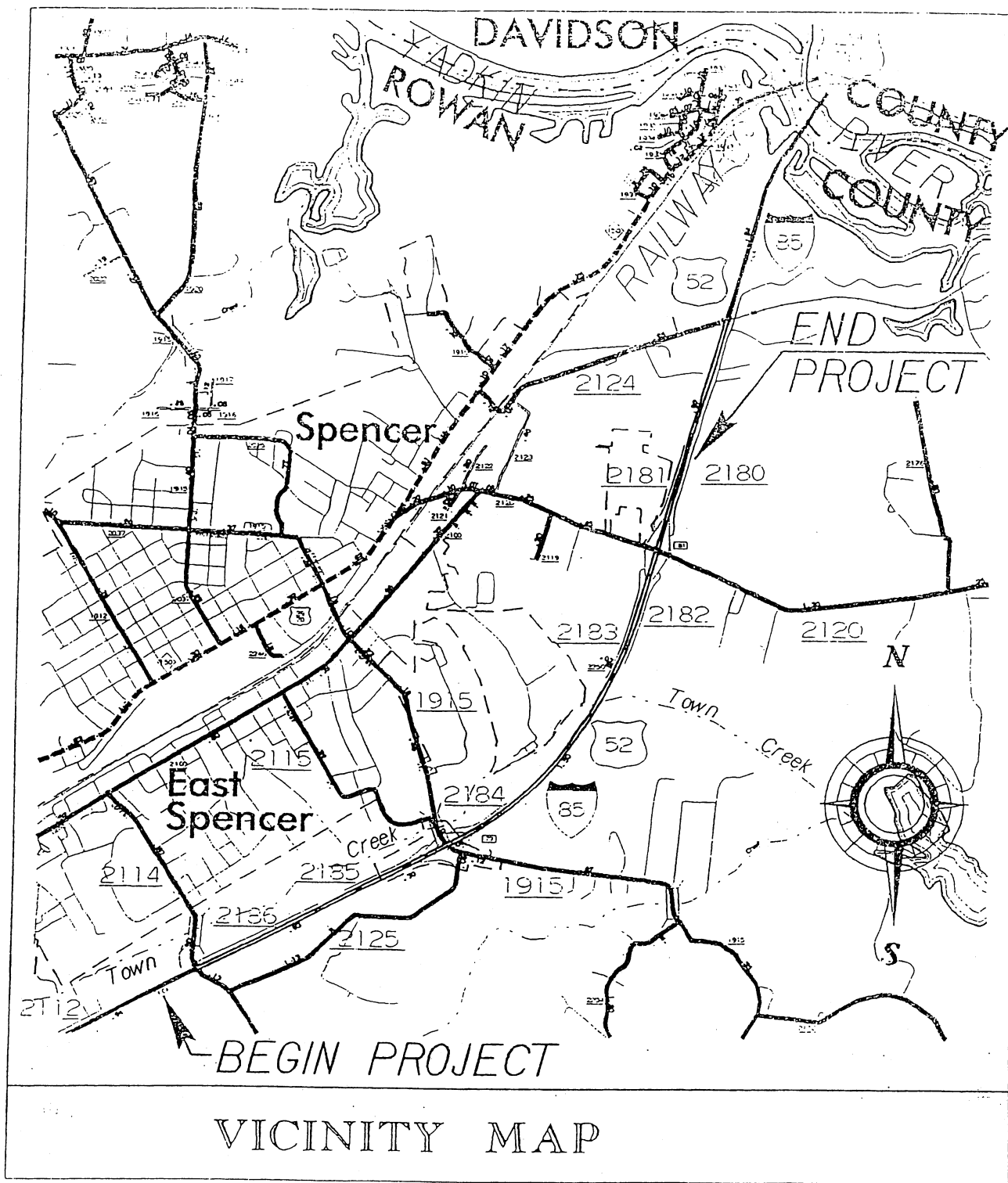
s. NCDOT shall not perform any work in the waters of Town Creek, including channel diversion, during the period of April 1 to June 1 of any year. NCDOT may perform work in dewatered portions of the stream during the moratorium.

### **Pre-Construction**

t. Prior to commencing construction within jurisdictional waters of the United States, the permittee shall forward the latest version of project construction drawings to the USACE, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager. Half-size drawings are acceptable.

u. The permittee shall schedule an environmental preconstruction meeting between its representatives, the contractor's representatives, and the USACE, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall provide the USACE, Raleigh Regulatory Field Office NCDOT Regulatory Project Manager, with a copy of the final plans at least two weeks prior to the preconstruction meeting along with a description of any changes that have been made to the project's design, construction methodology or construction timeframe. The permittee shall schedule the environmental preconstruction meeting for a time when the USACE and North Carolina Division of Water Quality (NCDWQ) Project Managers can attend. The permittee shall invite the USACE and NCDWQ Project Managers a minimum of four weeks in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting.

v. To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent wetlands and streams, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used to borrow material, or to dispose of dredged, fill, or waste material. The permittee shall provide the USACE with appropriate maps indicating the locations of proposed borrow or waste sites as soon as the permittee has that information. The permittee will coordinate with the USACE before approving any borrow or waste sites that are within 400 feet of any streams or wetlands. The permittee shall ensure that all such areas comply with condition (b.) of this permit, and shall require and maintain documentation of the location and characteristics of all borrow and disposal sites associated with this project. This information will include data regarding soils, vegetation and hydrology sufficient to clearly demonstrate compliance with the preceding condition (b.). All information will be available to the USACE upon request. NCDOT shall require its contractors to complete and execute reclamation plans for each waste and borrow site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the Corps of Engineers within 30 days of the completion of the reclamation work.

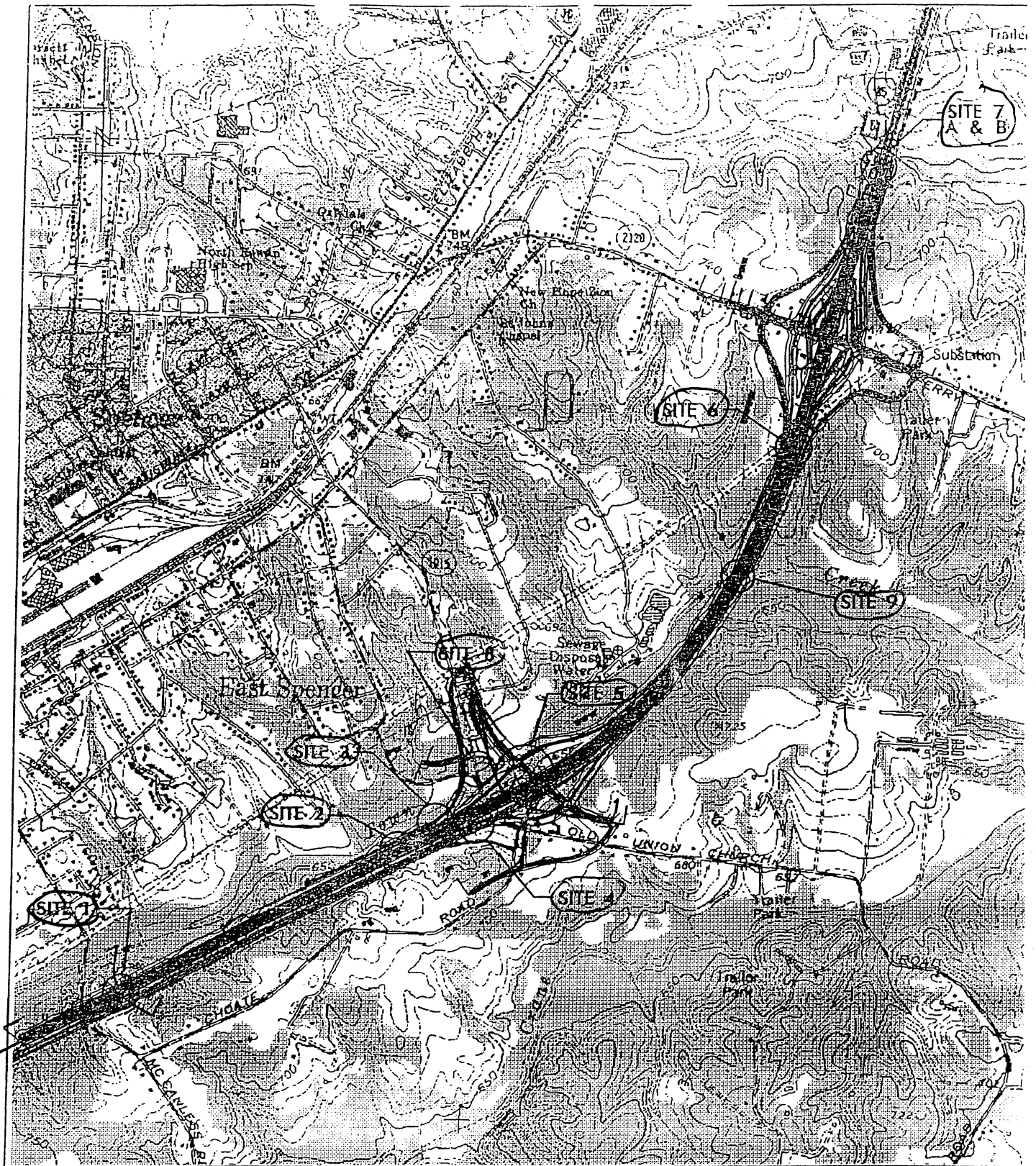


NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR 1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER



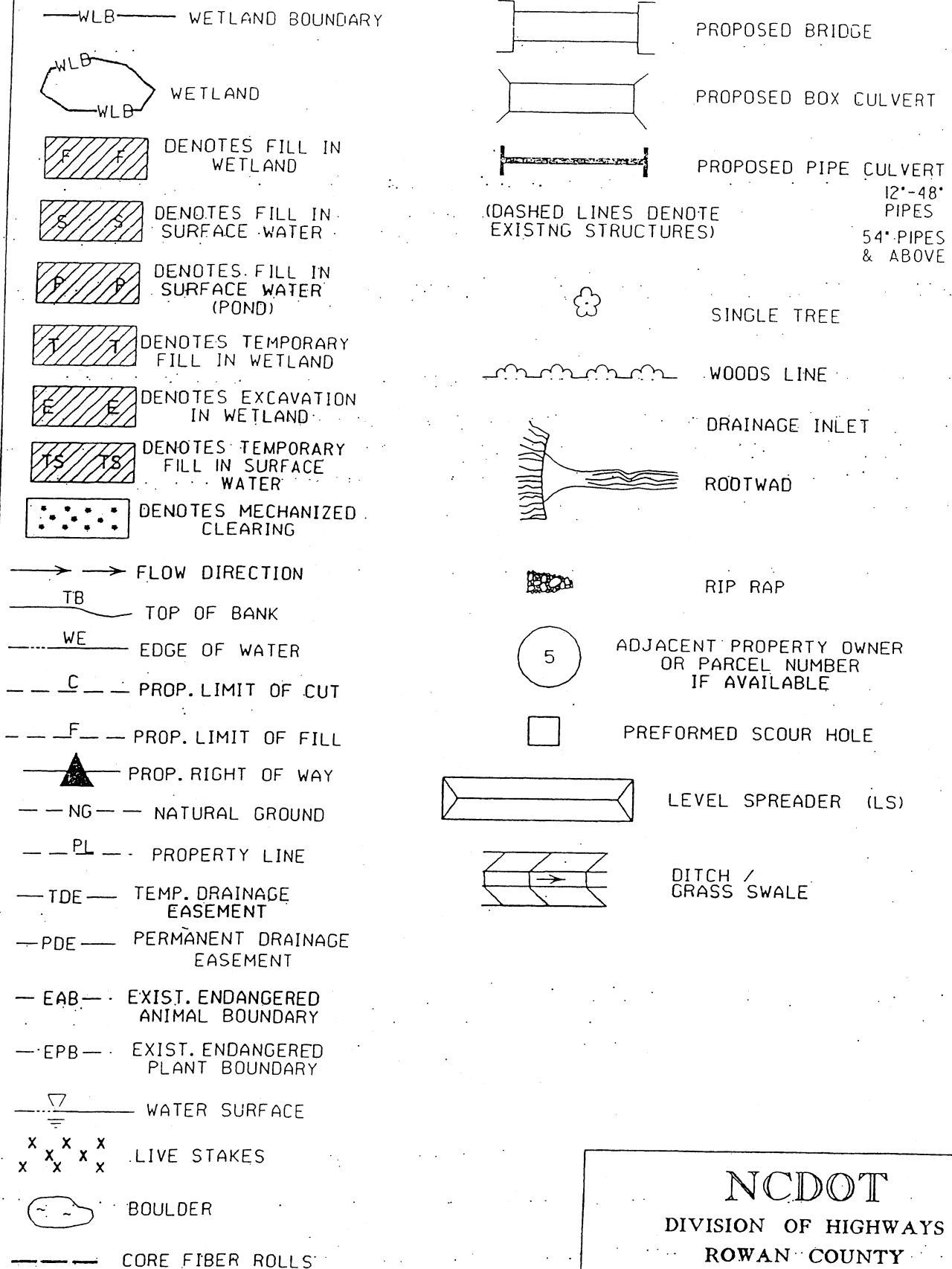
# SITE MAP

NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 N OF SR 1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER



NCDOT

DIVISION OF HIGHWAYS

ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR 1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 81631503 (I-251ICE)

I-85 FROM N OF SR1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

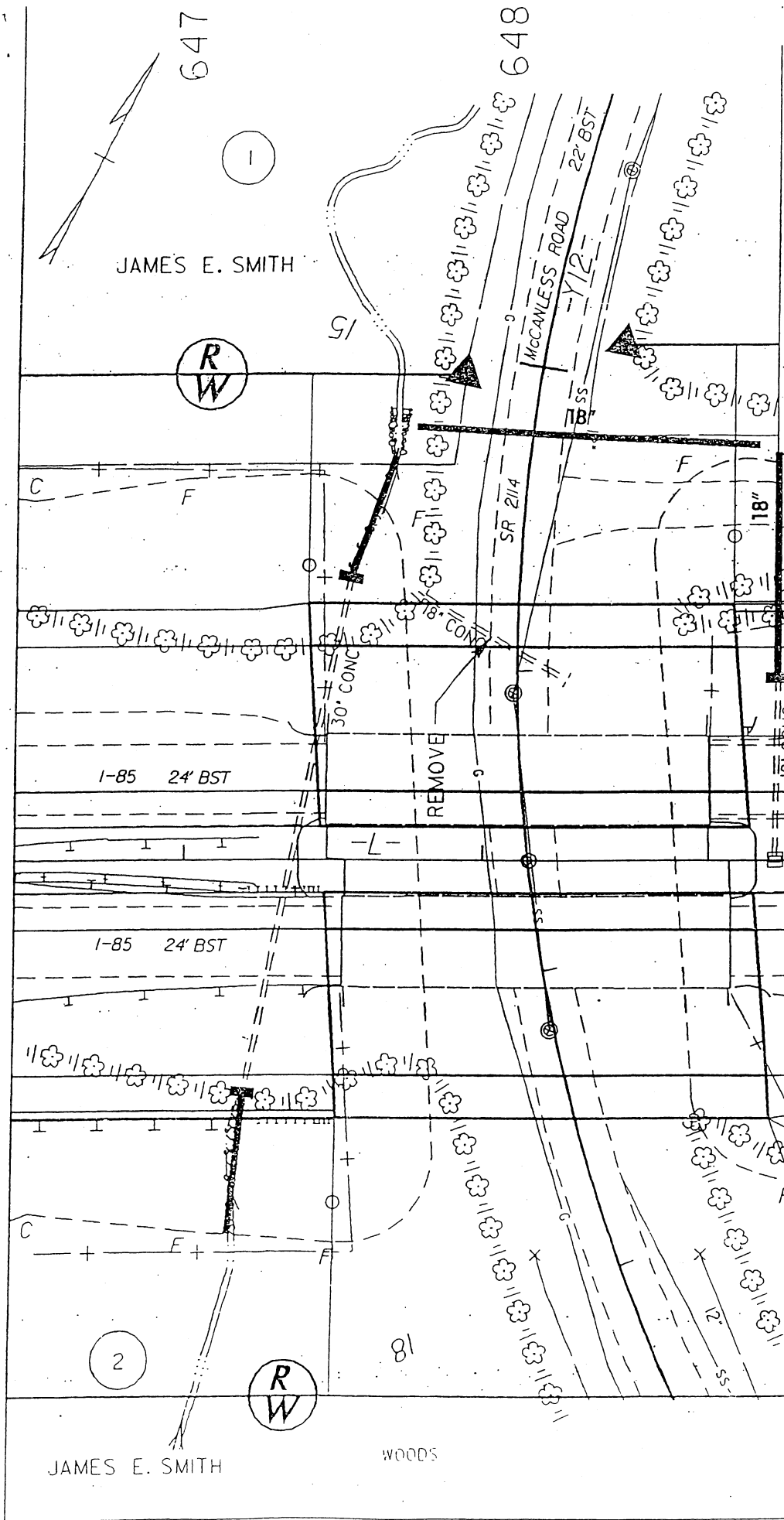
SHEET 4 OF 31

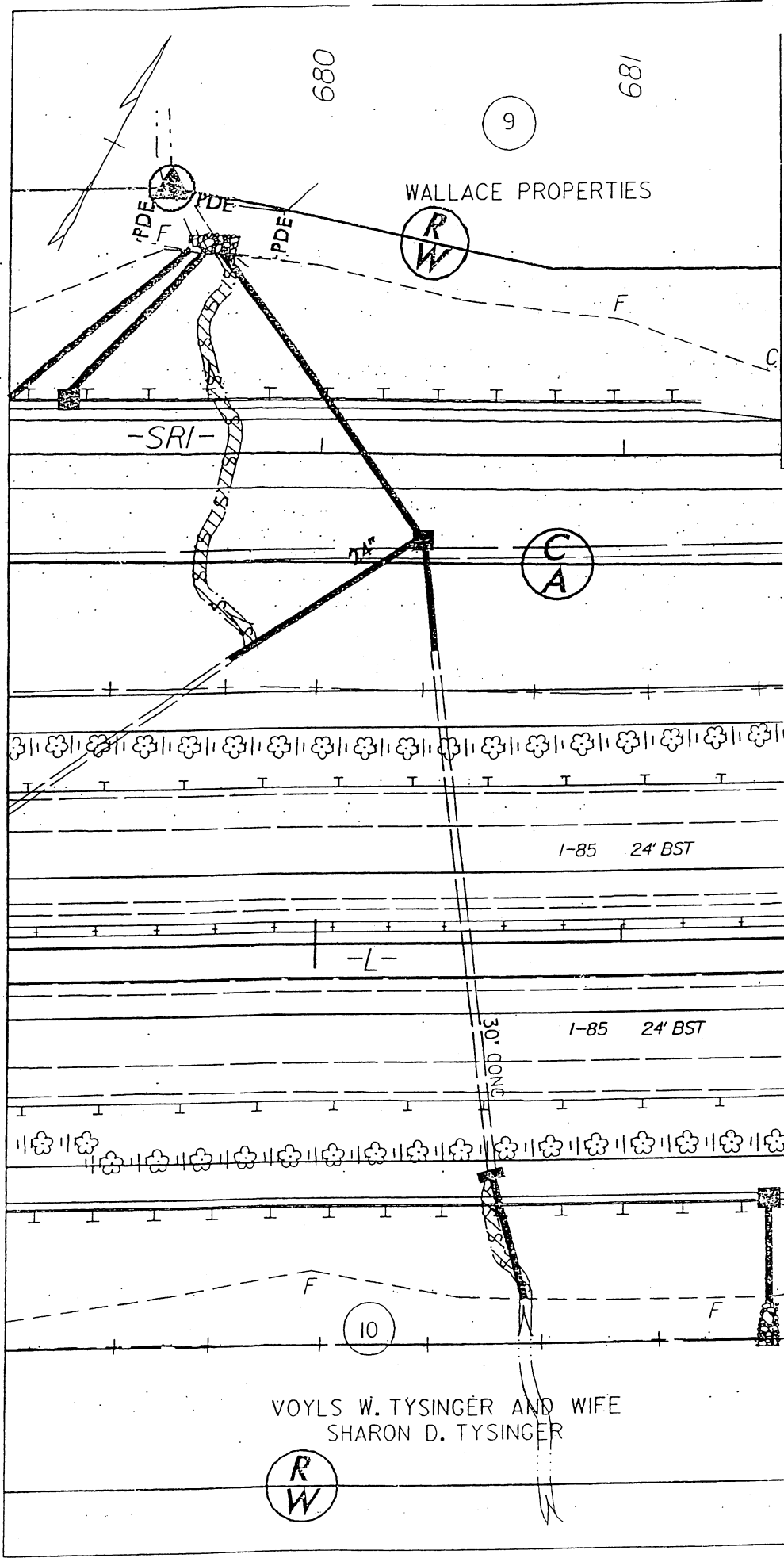
07/01/02

PLAN VIEW  
SITE 1



SCALE: 1" = 50' HORIZ.





NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-25/11CB)

I-85 FROM N OF SR1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

SHEET 5 OF 31

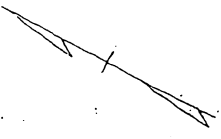
07/01/02

PLAN VIEW

SITE 2

50 0 25 50  
DENOTES FILL IN  
SURFACE WATER

SCALE: 1" = 50' HORIZ.



9

WALLACE PROPERTIES

50

WOODS

48

R W

R W

18

18

F

C

C

-SR1-

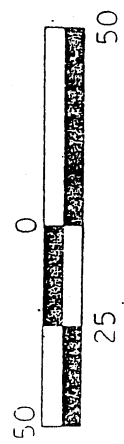
C A

9' SOIL

8' I



DENOTES FILL IN  
SURFACE WATER



SCALE: 1" = 50' HORIZ.

# PLAN VIEW SITE 3

## NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

SHEET 6 OF 31  
REVISED 03/07/03



NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG

FERRY RD.) NEAR SPENCER

SHEET 7 OF 31  
REVISED 03/07/01

I-85 24' BST

16' BST

-RPIC-

18"

WOODS

NEW HOPE  
BAPTIST CHURCH

13 + 00

14 + 00

15 + 00

16 + 00

17 + 00

18 + 00

19 + 00

20 + 00

21 + 00

22 + 00

23 + 00

24 + 00

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306 + 00

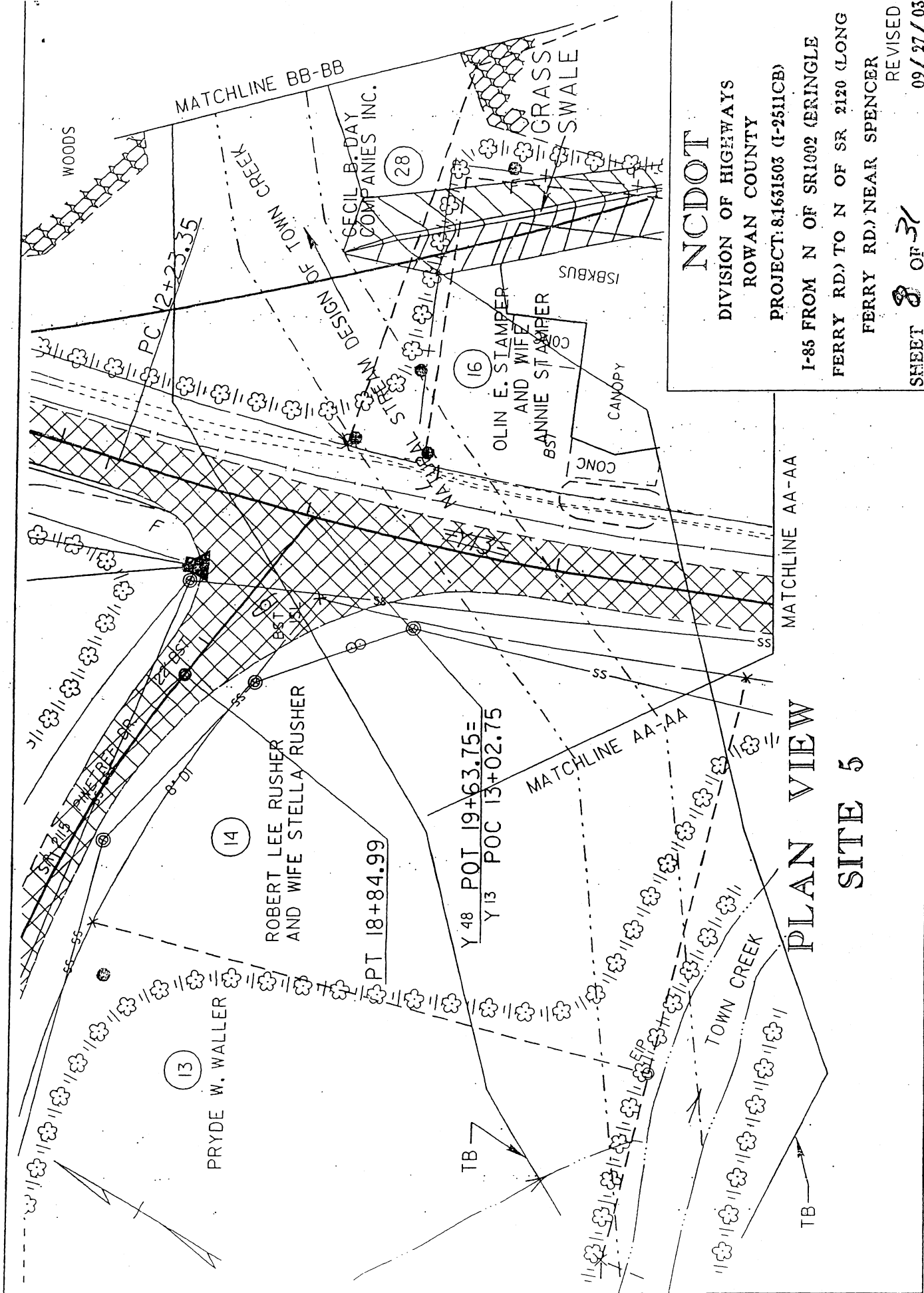
307 + 00

308 + 00

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310 + 00

311 + 00



NCDOT

DIVISION OF HIGHWAYS

ROWAN COUNTY

PROJECT: 81631503 (I-2511CB)

I-85 FROM N OF SR1002 (ERINGLE

FERRY RD.) TO N OF SR 2120 (LONG

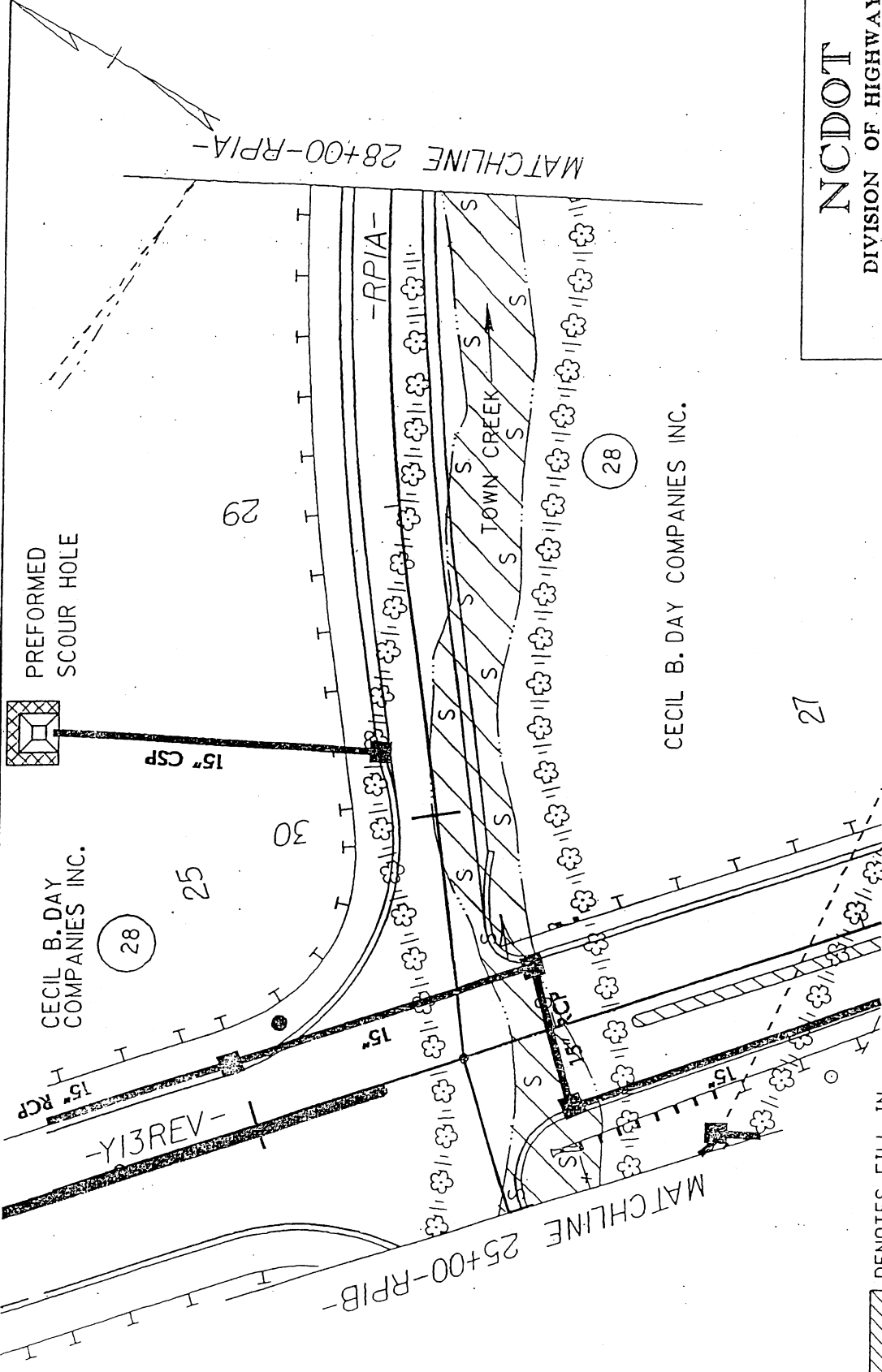
FERRY RD.) NEAR SPENCER

REVISED

SHEET 8 OF 37

09/27/03





NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-25HICB)

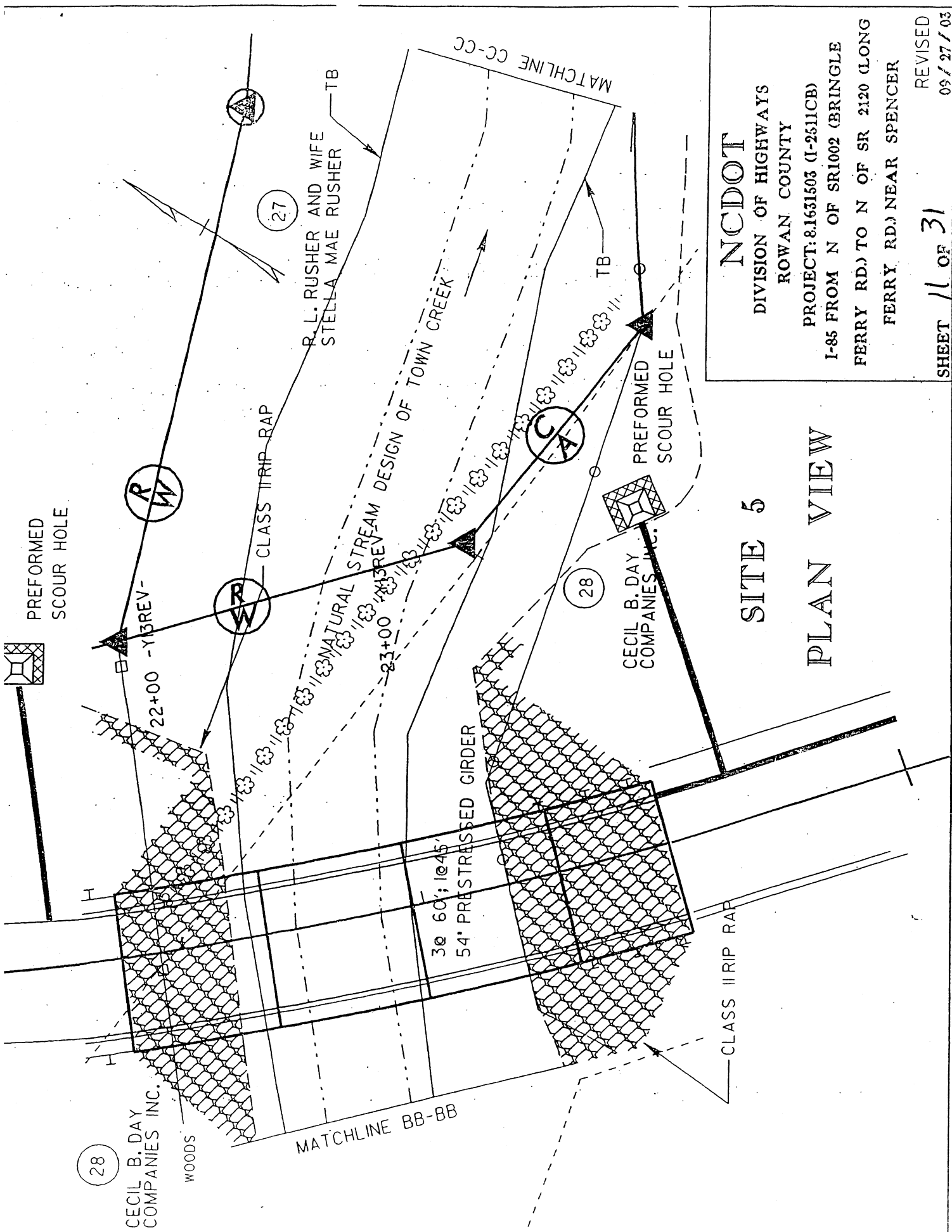
I-85 FROM N OF SR1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

SHEET 10 OF 31  
REVISED 09/27/03

PLAN VIEW  
SITE 5

50 25 0 50  
DENOTES FILL IN  
SURFACE WATER

SCALE: 1" = 50' HORIZ.



NCDOT

DIVISION OF HIGHWAYS

ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR1002 (BRINGLE

FERRY RD.) TO N OF SR 2120 (LONG

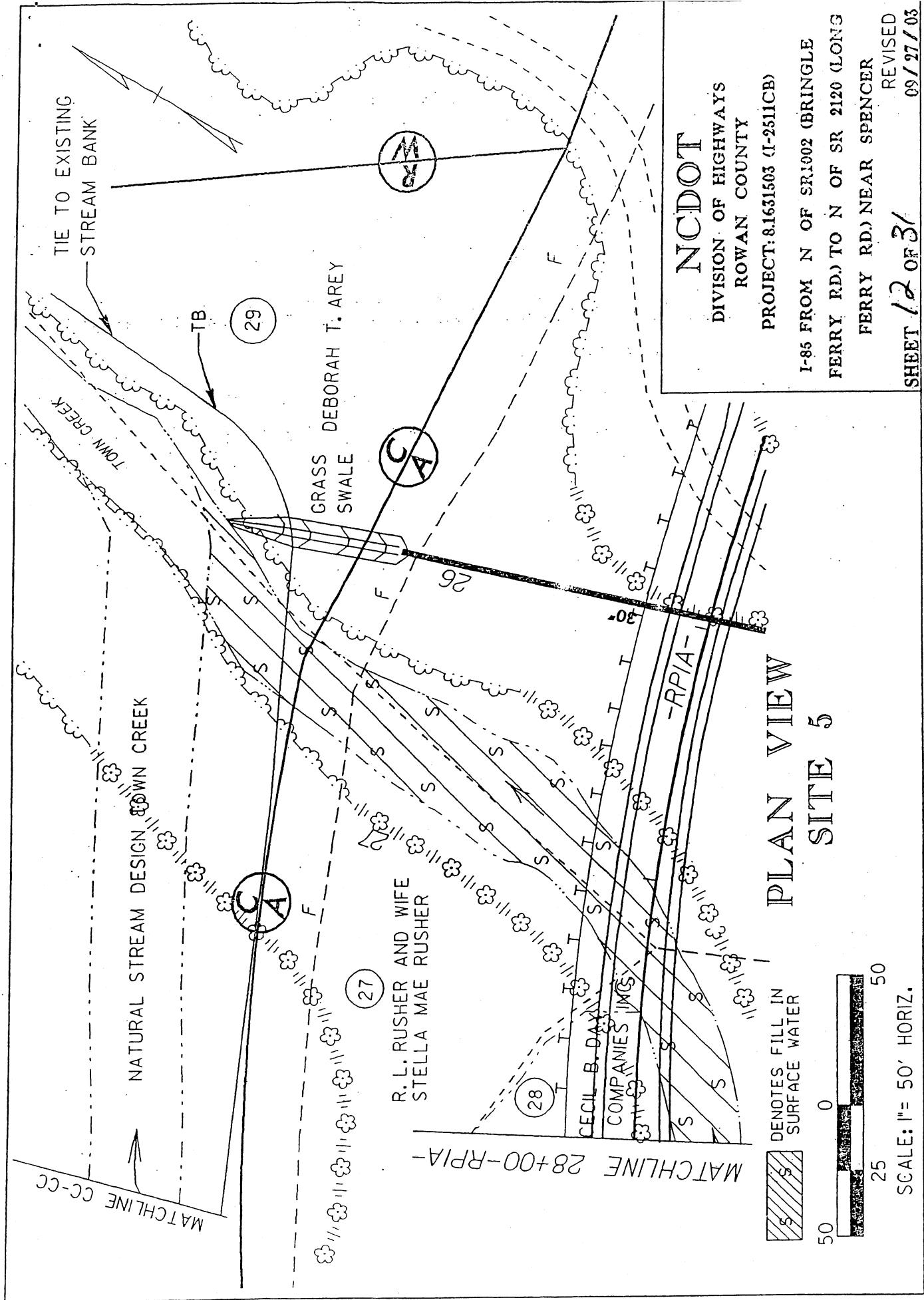
FERRY RD.) NEAR SPENCER

REVISED

09/27/03

SITE 5  
PLAN VIEW

SHEET 11 OF 31



Stream Mitigation Plan  
I-2511CB Rowan County  
January 21, 2003

This project involves relocation and restoration of approximately 1375ft. of Town Creek. Town Creek is unavoidably being impacted by the proposed I-85 widening from north of SR 1002(Bringle Ferry Rd.) to north of SR 2110(Long Ferry Rd.) near Spencer.

Upstream of the site Town Creek flows through Salisbury where it passes through several road culverts and an 800ft. bottomless culvert as it leaves the city limits. Downstream Town Creek flows through a 4-barrel culvert under I-85 before reaching High Rock Lake. The existing stream has been channelized and relocated over the years and is apparent from the trapezoidal shape of the stream and earth berm adjacent to the stream bank. The stream has very little riffle/ pool sequence and sinuosity. The side slopes are 1:1 and are relatively stable in wooded areas. The existing stream reach is entrenched and most nearly fits the geomorphic characteristics of a G4 stream type (see Morphological Measurement Table).

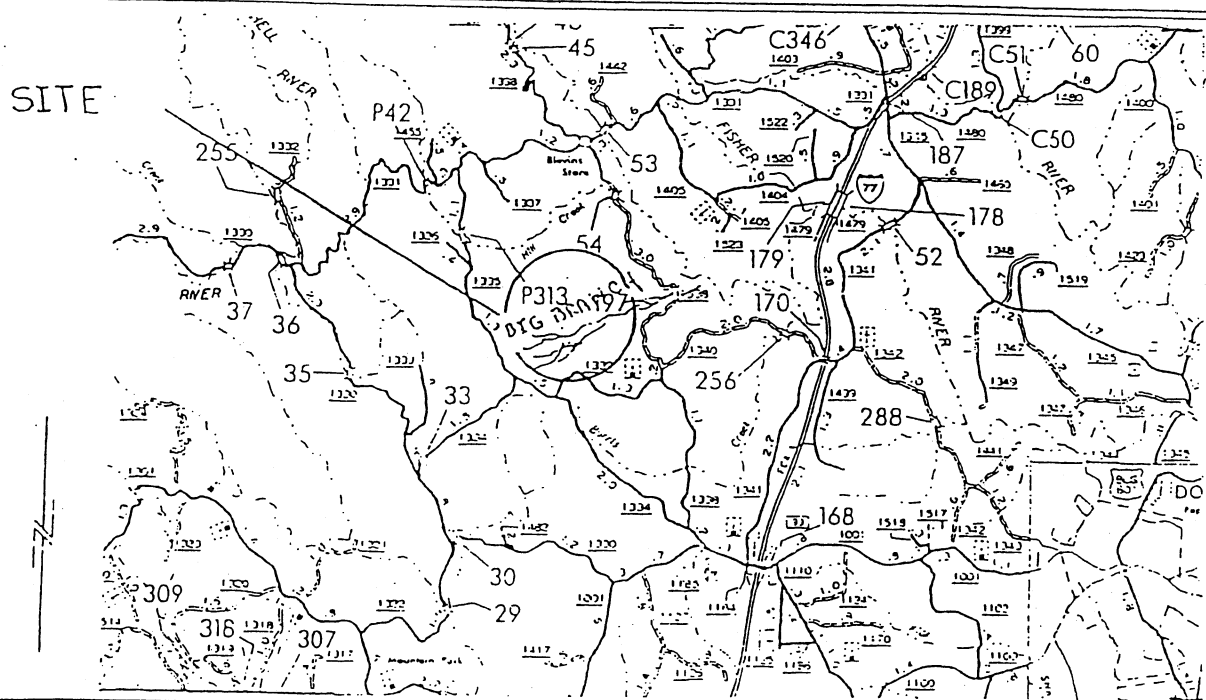
The drainage area contributing to this project site is 16.3sq.mi. Town Creek for the most part lies between I-85 and the Southern Railroad and is predominately wooded and agrarian in the upper half and heavily developed from Salisbury to Spencer. Development in the basin is estimated to be between 10 and 15% and is expected to increase. The stream extends approximately 12mi. upstream of the site.

As stated above the existing stream is entrenched. Morphological data was difficult to collect on the existing stream but was attempted and is shown on the Morphological Measurement Table. Pebble counts were conducted at two locations and the D50 size material was approximately 0.16ft. (52mm). The bankfull depth and width were determined for the existing stream so that a bankfull discharge could be developed for design purposes.

The reference stream for the proposed project is Big Branch in Surry County (see attached location map). The drainage area for Big Branch is 1.9sq.mi. Morphological ratios from the reference stream were used in conjunction with the bankfull depth from the existing stream to extrapolate pertinent data to the proposed stream. Big Branch best fits the geomorphic characteristics of an E4 stream type (see Morphological Measurement Table).

The proposed stream reach has a drainage area of 16.3sq.mi. and will be 1375ft. long. The width/depth ratio was adjusted to 14.5 so that the stream could be constructed as a C4 stream type. Bed material from the existing stream will be removed, stockpiled and placed on the riffles of the proposed stream (see plan for location.).

## A map of North Carolina showing its county boundaries. Wayne County, located in the western part of the state, is shaded in black. The map includes the state's coastline and major geographical features like the Pamlico River and the Tar River.



## NCDOT

PROJECT: 8.1631503 (I-2511CB)

SHEET

14 of 31

9 / 19 / 02



## Sediment Transport:

The following is the comparison for shear stress and stream power for the existing and proposed Town Creek.

The shear calculations come from the HYCHL program in the FHWA Integrated Drainage Design Computer System, Version 6.0 (HYDRAIN). HYCHL can analyze channels for stability through application of tractive force theory. The program compares shear exerted on the lining with the permissible shear stress of the lining. HYCHL can analyze composite linings (i.e. a bed lining and a side slope lining). Attached are the results calculated by HYCHL for the proposed stream having a natural cobble bed liner ( $d_{50}=0.16\text{ft.}$ ) and vegetative side slope lining. The results were determined for the existing bankfull elevation, the proposed bankfull elevation, and the proposed Q2 elevation. The results indicate a stable composite lining for the proposed stream.

Stream power in  $\text{lb/ft-s}$  is given by the equation  $\omega = \tau V$ , where:  $\tau$  is the average channel shear stress in  $\text{lb/ft}^2$  given by HYCHL.

	<u>STREAM POWER</u>	<u>BED SHEAR</u>	<u>SIDE SHEAR</u>	<u>PERMISSIBLE SHEAR</u>	
				Bed	Side
EXISTING STREAM (bkf)	3.1	1.12	0.86	1.5	2.0
PROPOSED STREAM (bkf)	2.9	1.03	0.80	1.5	2.0
PROPOSED Q2	2.6	1.43	1.39	1.5	2.0

```

JOB -TOWN CREEK NATURAL STREAM DESIGN(I-2511CB)
UNI
** UNITS PARAMETER = 0 (ENGLISH)
   CHL .0043,500
   TRP 25 2
** LEFT SIDE SLOPE      2.0 AND RIGHT SIDE SLOPE      2.0
** THE BASE WIDTH OF THE TRAPEZOID (ft)    25.00
   N .04,.09
** LOW FLOW N VALUE= .040
** SIDE SLOPE N VALUE= .090
   LRR 0.16,3
** D50 (ft) .16
   CPS 1
   LVG C
   PSS 1.5,2
** USER SUPPLIED - LOW PERMIS. SHEAR = (lb/ft^2) 1.50
** USER SUPPLIED - HIGH PERMIS. SHEAR = (lb/ft^2) 2.00
   END
*****END OF COMMAND FILE*****

```

EXISTING BANKFULL

-TOWN CREEK NATURAL STREAM DESIGN(I-2511CB)

-----  
INPUT REVIEW  
-----

```

DEFAULT ANGLE OF REPOSE (degrees):    35.71
DESIGN PARAMETERS:
  DESIGN DISCHARGE (ft^3/s):          500.00
  CHANNEL SHAPE:                      TRAPEZOIDAL
  CHANNEL SLOPE (ft/ft):              .004
  LINING TRANSITION HEIGHT (ft):      1.00

```

-----  
HYDRAULIC CALCULATIONS USING NORMAL DEPTH  
-----

	DESIGN	MAXIMUM
FLOW (cfs)	500.00	794.65
DEPTH (ft)	4.17	5.59
AREA (ft^2)	138.89	202.26
WETTED PERIMETER (ft)	43.63	50.00
HYDRAULIC RADIUS (ft)	3.18	4.05
VELOCITY (ft/s)	3.60	3.93
MANNINGS N (LOW FLOW)	.040	.040
MANNINGS N (SIDE SLOPE)	.090	.090
EFFECTIVE MANNINGS N	.059	.063
REYNOLDS NUMBER (10^5)	.11	

-----  
STABILITY ANALYSIS  
-----

CONDITION	LINING TYPE	PERMIS SHR (lb/ft^2)	CALC. SHR (lb/ft^2)	STAB. FACTOR	REMARKS
LOW FLOW LINING					
BOTTOM; STRAIGHT	RIPRAP	1.50	1.12	1.34	STABLE
SIDE SLOPE LINING					
SIDE; STRAIGHT	VEGETATIVE C	2.00	.86	2.33	STABLE

RATIO OF SIDE SHEAR TO BOTTOM SHEAR = .77

\*\*\* NORMAL END OF HYCHL \*\*\*

16 of 31

JOB -TOWN CREEK NATURAL STREAM DESIGN(I-2511CB)  
UNI  
\*\* UNITS PARAMETER = 0 (ENGLISH)  
CHL .0043,500  
TRP 30 2  
\*\* LEFT SIDE SLOPE 2.0 AND RIGHT SIDE SLOPE 2.0  
\*\* THE BASE WIDTH OF THE TRAPEZOID (ft) 30.00  
N .04,.1  
\*\* LOW FLOW N VALUE= .040  
\*\* SIDE SLOPE N VALUE= .100  
LRR 0.16,3  
\*\* D50 (ft) .16  
CPS 1  
LVG B  
PSS 1.5,2  
\*\* USER SUPPLIED - LOW PERMIS. SHEAR = (lb/ft^2) 1.50  
\*\* USER SUPPLIED - HIGH PERMIS. SHEAR = (lb/ft^2) 2.00  
END  
\*\*\*\*\*END OF COMMAND FILE\*\*\*\*\*

PROPOSED BANK FULL

-TOWN CREEK NATURAL STREAM DESIGN(I-2511CB)

-----  
INPUT REVIEW  
-----

DEFAULT ANGLE OF REPOSE (degrees): 35.71  
DESIGN PARAMETERS:  
DESIGN DISCHARGE (ft^3/s): 500.00  
CHANNEL SHAPE: TRAPEZOIDAL  
CHANNEL SLOPE (ft/ft): .004  
LINING TRANSITION HEIGHT (ft): 1.00  
-----

HYDRAULIC CALCULATIONS USING NORMAL DEPTH  
-----

	DESIGN	MAXIMUM
LOW (cfs)	500.00	887.62
DEPTH (ft)	3.82	5.59
AREA (ft^2)	143.84	230.21
WETTED PERIMETER (ft)	47.09	55.00
HYDRAULIC RADIUS (ft)	3.05	4.19
VELOCITY (ft/s)	3.48	3.86
MANNINGS N (LOW FLOW)	.040	.040
MANNINGS N (SIDE SLOPE)	.100	.100
EFFECTIVE MANNINGS N	.059	.066
REYNOLDS NUMBER (10^5)	.11	

-----  
STABILITY ANALYSIS  
-----

CONDITION	LINING TYPE	PERMIS SHR (lb/ft^2)	CALC. SHR (lb/ft^2)	STAB. FACTOR	REMARKS
LOW FLOW LINING					
BOTTOM; STRAIGHT	RIPRAP	1.50	1.03	1.46	STABLE
SIDE SLOPE LINING					
SIDE; STRAIGHT	VEGETATIVE B	2.00	.80	2.51	STABLE

RATIO OF SIDE SHEAR TO BOTTOM SHEAR = .78

\* NORMAL END OF HYCHL \*\*\*

17 of 31

JOB -TOWN CREEK NATURAL STREAM DESIGN(I-2511CB)  
UNI

\*\* UNITS PARAMETER = 0 (ENGLISH)

CHL .0043 1000

TRP 30 6.7

\*\* LEFT SIDE SLOPE 6.7 AND RIGHT SIDE SLOPE 6.7

\*\* THE BASE WIDTH OF THE TRAPEZOID (ft) 30.00

N .04 .1

\*\* LOW FLOW N VALUE= .040

\*\* SIDE SLOPE N VALUE= .100

LRR 0.16 3

\*\* D50 (ft) .16

CPS 1.0

LVG B

PSS 1.5 2

\*\* USER SUPPLIED - LOW PERMIS. SHEAR = (lb/ft^2) 1.50

\*\* USER SUPPLIED - HIGH PERMIS. SHEAR = (lb/ft^2) 2.00

END

\*\*\*\*\*END OF COMMAND FILE\*\*\*\*\*

-TOWN CREEK NATURAL STREAM DESIGN(I-2511CB)

-----  
INPUT REVIEW  
-----

DEFAULT ANGLE OF REPOSE (degrees): 35.71

DESIGN PARAMETERS:

DESIGN DISCHARGE (ft^3/s): 1000.00

CHANNEL SHAPE: TRAPEZOIDAL

CHANNEL SLOPE (ft/ft): .004

LINING TRANSITION HEIGHT (ft): 1.00

-----  
HYDRAULIC CALCULATIONS USING NORMAL DEPTH  
-----

	DESIGN	MAXIMUM
FLOW (cfs)	1000.00	1095.98
DEPTH (ft)	5.33	5.59
AREA (ft^2)	349.91	377.10
WETTED PERIMETER (ft)	102.17	105.74
HYDRAULIC RADIUS (ft)	3.42	3.57
VELOCITY (ft/s)	2.86	2.91
MANNINGS N (LOW FLOW)	.040	.040
MANNINGS N (SIDE SLOPE)	.100	.100
EFFECTIVE MANNINGS N	.077	.078
REYNOLDS NUMBER (10^5)	.11	

-----  
STABILITY ANALYSIS  
-----

CONDITION	LINING TYPE	PERMIS SHR (lb/ft^2)	CALC. SHR (lb/ft^2)	STAB. FACTOR	REMARKS
LOW FLOW LINING					
BOTTOM; STRAIGHT	RIPRAP	1.50	1.43	1.05	STABLE
SIDE SLOPE LINING					
SIDE; STRAIGHT	VEGETATIVE B	2.00	1.39	1.44	STABLE

ATIO OF SIDE SHEAR TO BOTTOM SHEAR = .97

\*\* NORMAL END OF HYCHL \*\*\*

PROPOSED Q2

Variables	Existing Channel	Proposed Reacl.	USGS Station	Reference Reach
1. Stream type	G4	C4	NONE	E4
2. Drainage area (D.A.)	16.3sq.mi.	16.3sq.mi.		1.9sq.mi.
3. Bankfull width ( $W_{bkt}$ )	40ft.	45ft.		21.5ft.
4. Bankfull mean depth ( $d_{bkt}$ )	3.6ft.	3.1ft.		2.0ft.
5. Width/depth ratio ( $W_{bkt}/d_{bkt}$ )	11	14.5		10.8
6. Bankfull cross-sectional area ( $A_{bkt}$ )	138sq.ft.	139sq.ft.		42.8ft.
7. Bankfull mean velocity ( $V_{bkt}$ )	3.6fps	3.5fps		
8. Bankfull discharge ( $Q_{bkt}$ )	450cfs	500cfs		
9. Bankfull max depth ( $d_{mbkt}$ )	4.0ft.	3.7.		2.6ft.
10. Width of floodprone area ( $W_{fpa}$ )	54ft.	130ft.		70ft.
11. Entrenchment ratio ( $W_{fpa}/W_{bkt}$ )	1.35	2.9		3.26
12. Meander length ( $L_m$ )	N/A	715ft.		54ft.
13. Ratio of meander length to bankfull width ( $L_m/W_{bkt}$ )	N/A	16		2.58
14. Radius of curvature ( $R_c$ )	N/A	353ft.		223ft.
15. Ratio of radius of curvature to bankfull width ( $R_c/W_{bkt}$ )	N/A	7.8		10.4
16. Belt width ( $W_{blt}$ )	N/A	190ft.		37ft.
17. Meander width ratio ( $W_{blt}/W_{bkt}$ )	N/A	4.2		1.8
18. Sinuosity (stream length/valley length) (K)	1.1	1.16		1.1
19. Valley Slope (VS)	0.0044	0.005		0.0087
20. Average slope (CS)	0.0041	0.0043		0.0087
21. Pool slope	N/A	0.0001		0.0001
22. Ratio of pool slope to average slope	N/A	0.02		0.02
23. Maximum pool depth ( $dp_{max}$ )	N/A	7.2ft.		4.0ft.
24. Ratio of pool depth to average bankfull depth ( $dp/d_{bkt}$ )	N/A	2.3		2
25. Pool width ( $W_p$ )	N/A	37ft.		17.8ft.
26. Ratio of pool width to bankfull width	N/A	0.82		0.83
27. Pool to pool spacing	N/A	353ft.		138.7ft.
28. Ratio of pool to pool spacing to bankfull width	N/A	7.8		6.68
29. Ratio of lowest bank height to bankfull height (or max bankfull depth) ( $BH_{low}/d_{mbkt}$ )	1.8	1		1

Note: See sheet 9C of 18 for vicinity map of reference stream

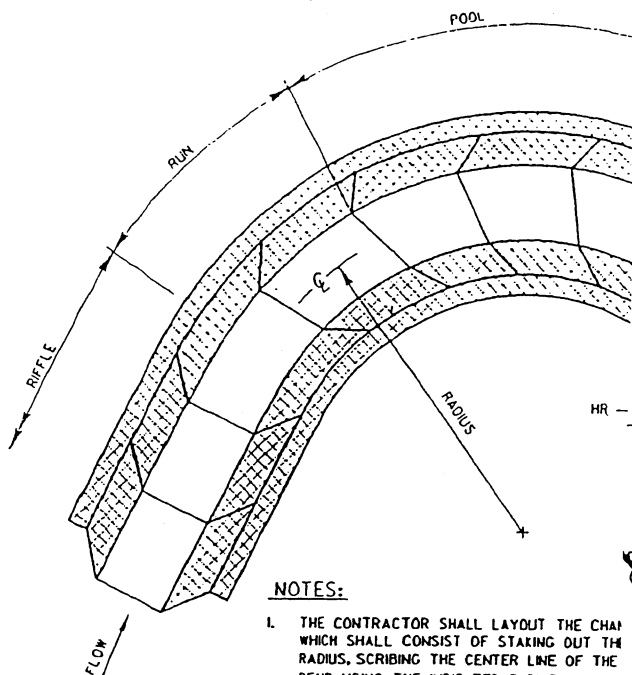
## NATURAL CHANNEL DESIGN DATA

### MORPHOLOGICAL MEASUREMENT TABLE

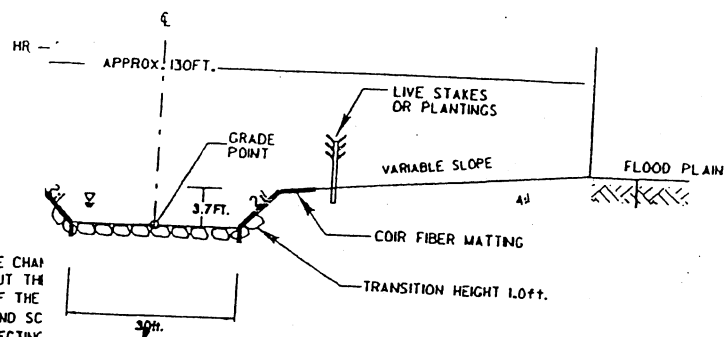
Reference Reach Name: Big Branch

SITE 5

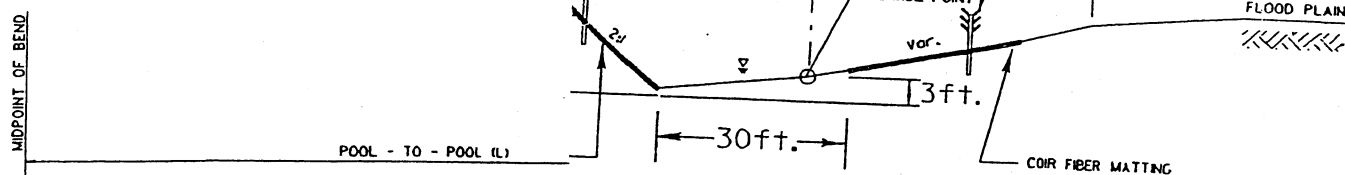
N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ROWAN COUNTY  
PROJECT: 8.1631503(I-251ICB)  
I-85 FROM N OF SR1002(BRINGLE FERRY  
ROAD TO N OF SR2120(LONG FERRY  
ROAD) NEAR SPENCER  
DATE: SEPTEMBER 2001  
SHEET 19 OF 31

**NOTES:**

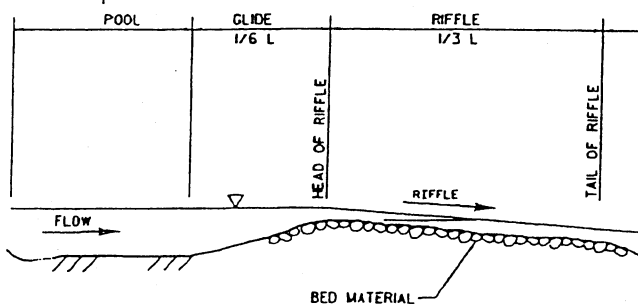
1. THE CONTRACTOR SHALL LAYOUT THE CHAIN WHICH SHALL CONSIST OF STAKING OUT THE RADIUS, SCRIBING THE CENTER LINE OF THE BEND USING THE INDICATED RADIUS, AND SC OF THE TANGENT SECTIONS BY CONNECTING WITH A STRAIGHT LINE.  $R_1 = +/-468ft.$
2. FIELD ADJUSTMENTS OF THE ALIGNMENT MAY AVOID CERTAIN OBSTACLES. APPROVAL BY STAKE-OUT ALIGNMENT SHALL BE REQUIRED OF THE CONSTRUCTION OF THE CHANNEL.
3. LOCATE ROCK VANES ACCORDING TO PLAN

**PICAL RIFFLE SECTION**

NOT TO SCALE

**TYPICAL POOL SECTION**

NOT TO SCALE

**NOTES:**

1. THE POOL TO POOL SPACING (L) SHALL AS THE DISTANCE FROM THE MIDPOINT OF THE BEND TO THE MIDPOINT OF THE DOWN
2. REFER TO MORPHOLOGICAL MEASUREM NOTE THAT POOL TO POOL SPACING VAI

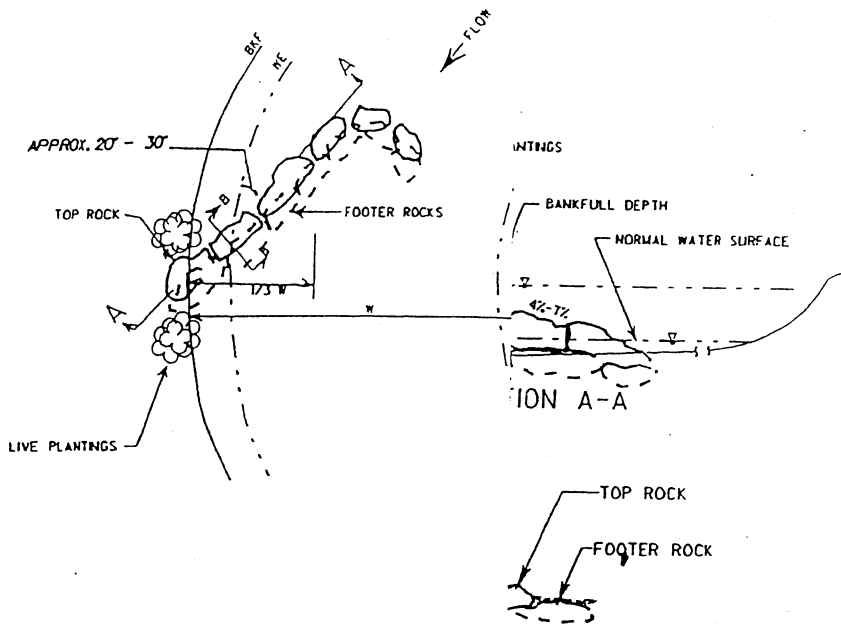
**TYPICAL PROFILE**

NOT TO SCALE

**SITE 5****NCDOT****DIVISION OF HIGHWAYS  
ROWAN COUNTY****PROJECT: 8.1631503 (I-2511CB)****I-85 FROM N OF SR1002 (BRINGLE FERRY  
ROAD TO N OF SR2120 (LONG FERRY ROAD  
NEAR SPENCER**

# J - HOOK

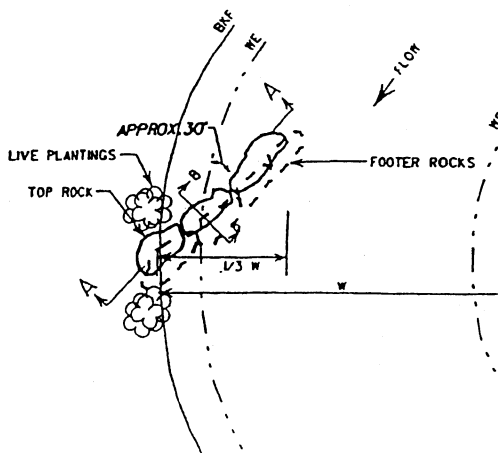
(NOT



NOTE:  
ROCKS SHOULD BE NATIVE  
STONE OR SHOT ROCK, ANGULAR AND OBLONG WITH  
AXIS APPROXIMATELY 5.0 FT. IN LENGTH

# ROCK

(NOT



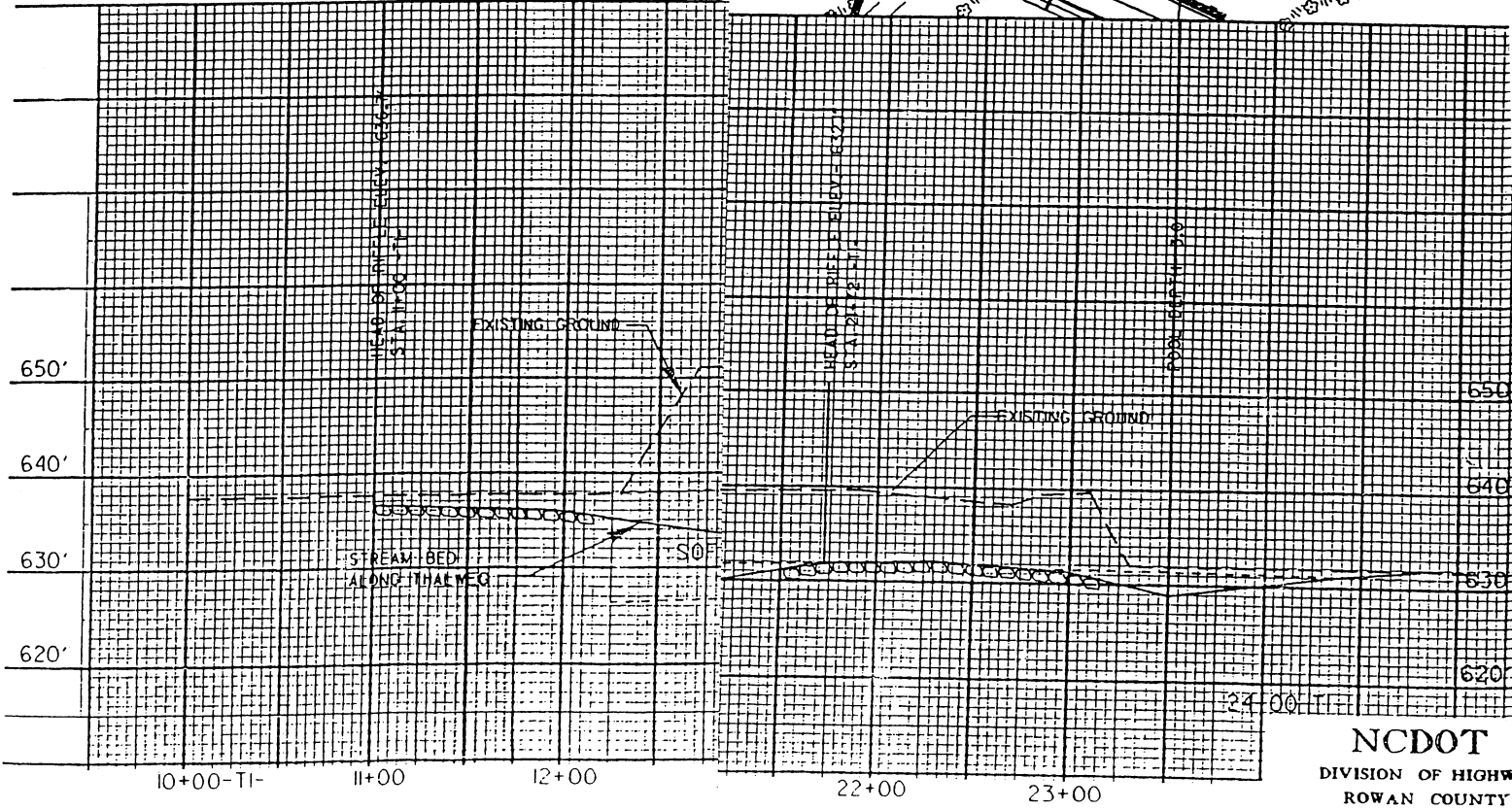
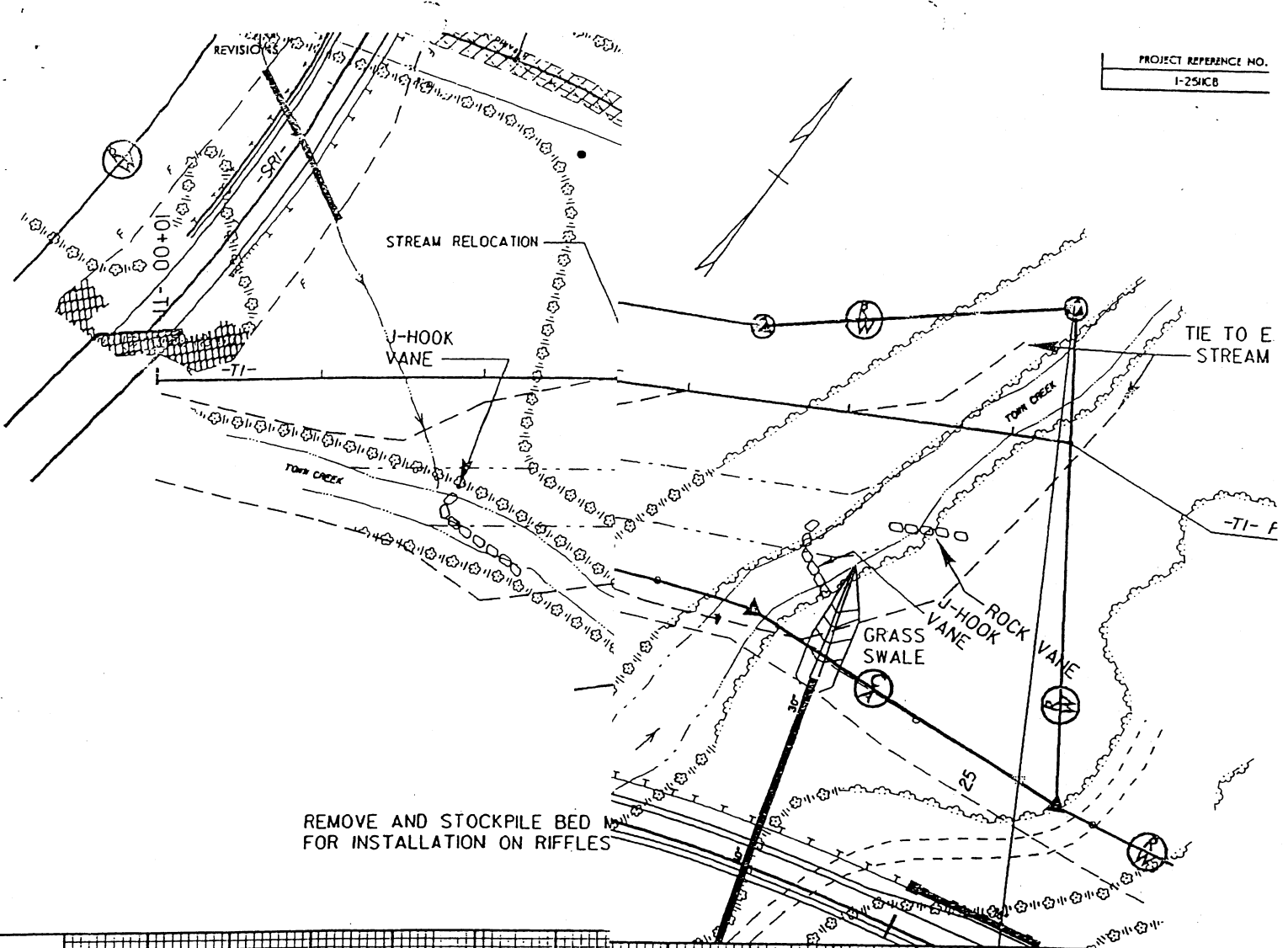
NOTE:  
ROCKS SHOULD BE NATIVE  
STONE OR SHOT ROCK, ANGULAR AND OBLONG WITH  
AXIS APPROXIMATELY 5.0 ft. IN LENGTH

## NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR1002 (BRINGLE FERRY  
ROAD TO N OF SR2120 (LONG FERRY ROAD)  
NEAR SPENCER





NCDOT

DIVISION OF HIGHWAYS

ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR1002 (BRINGLE



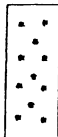
FERRY RD.) TO N OF SR 2120 (LON

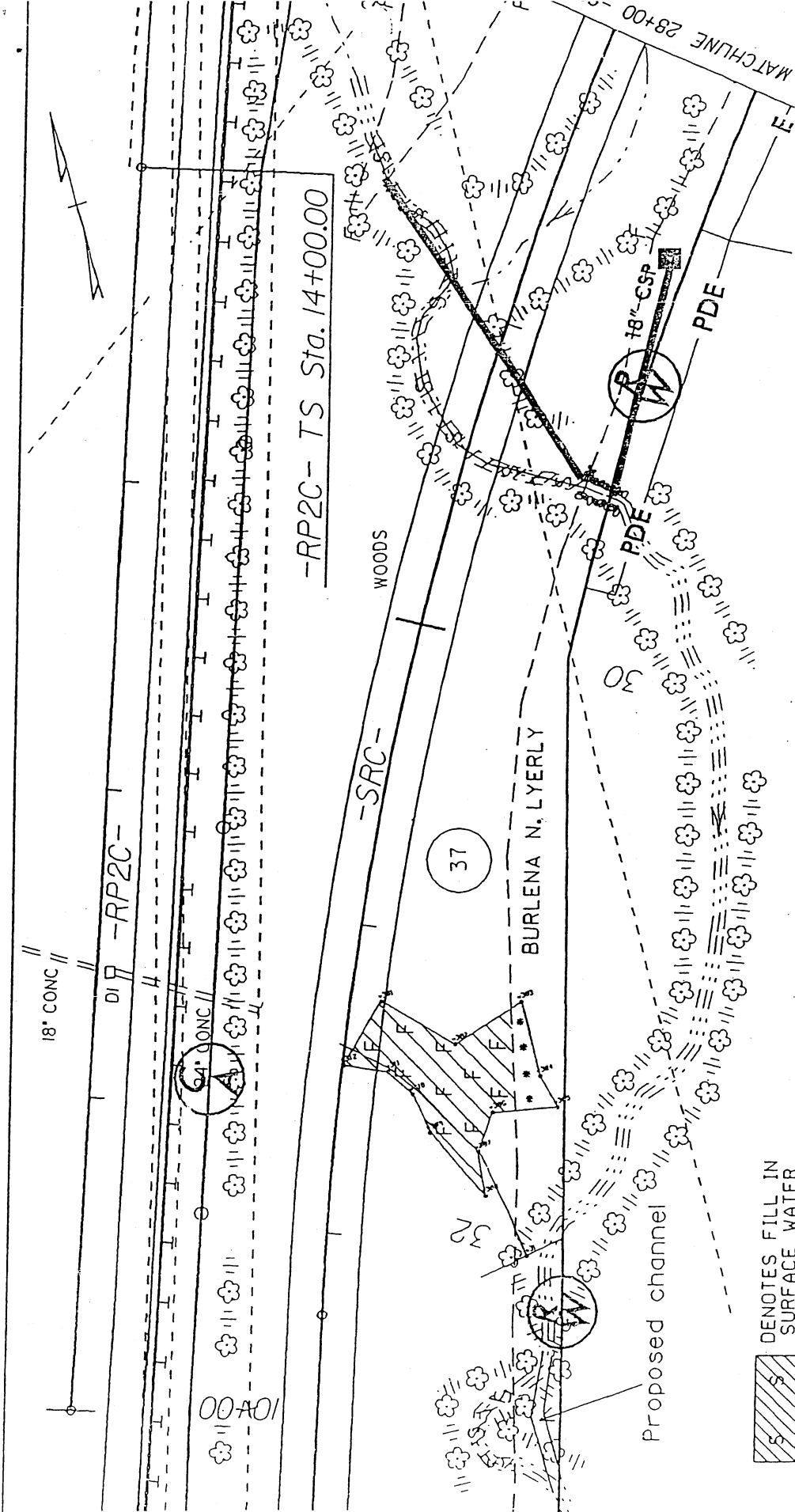
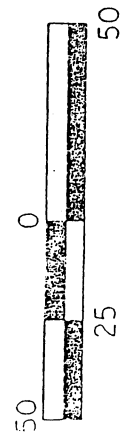
FERRY RD.) NEAR SPENCER

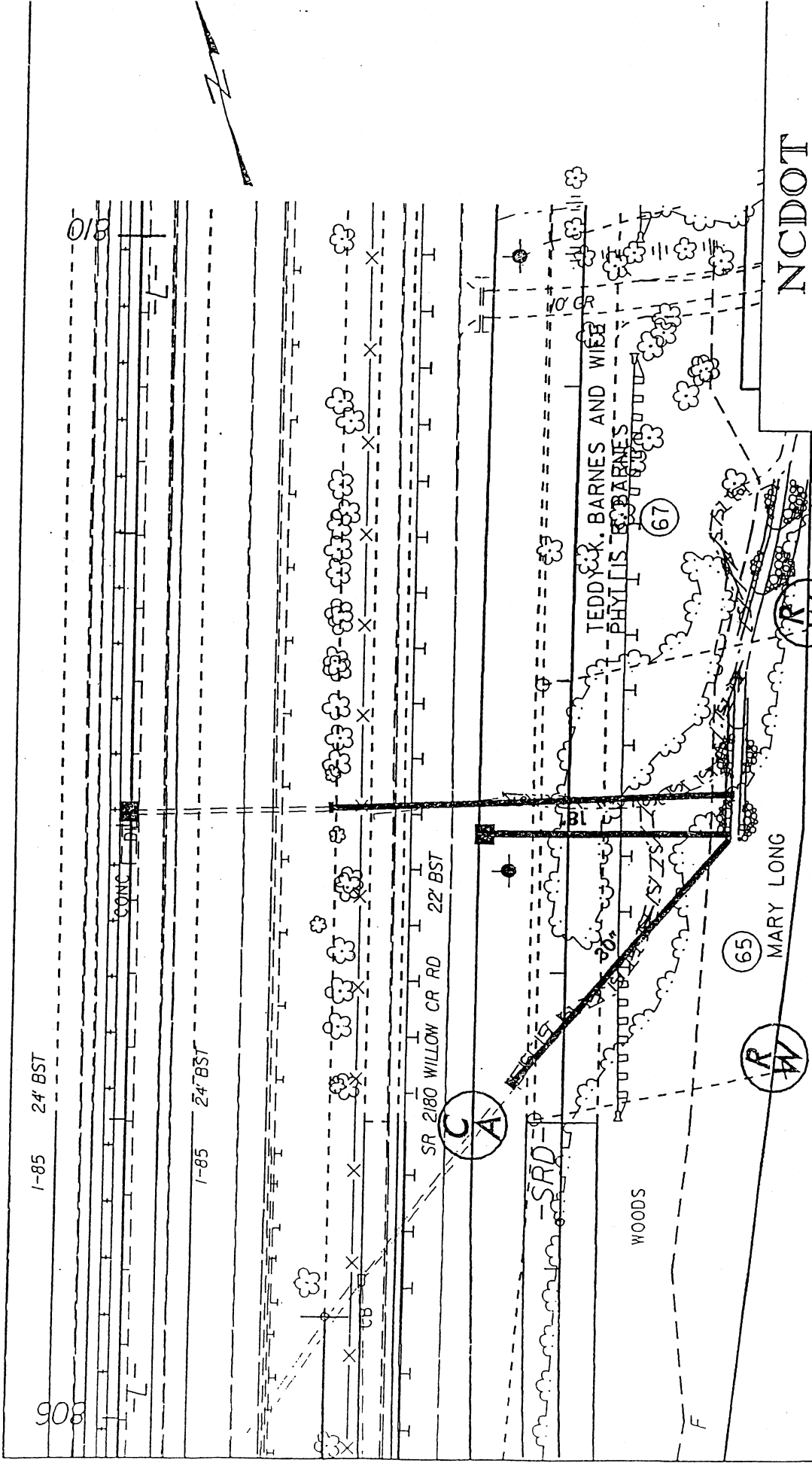
SHEET 23 OF 31  
REVISE 09/12/

# PLAN VIEW

## SITE 6

-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING





NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8J631503 (I-25/ICB)

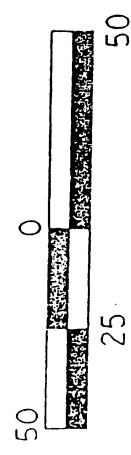
I-85 FROM N OF SR1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

REvised  
09/12/03  
SHEET 24 OF 31

PLAN VIEW

SITE 7A

DENOTES FILL IN  
SURFACE WATER



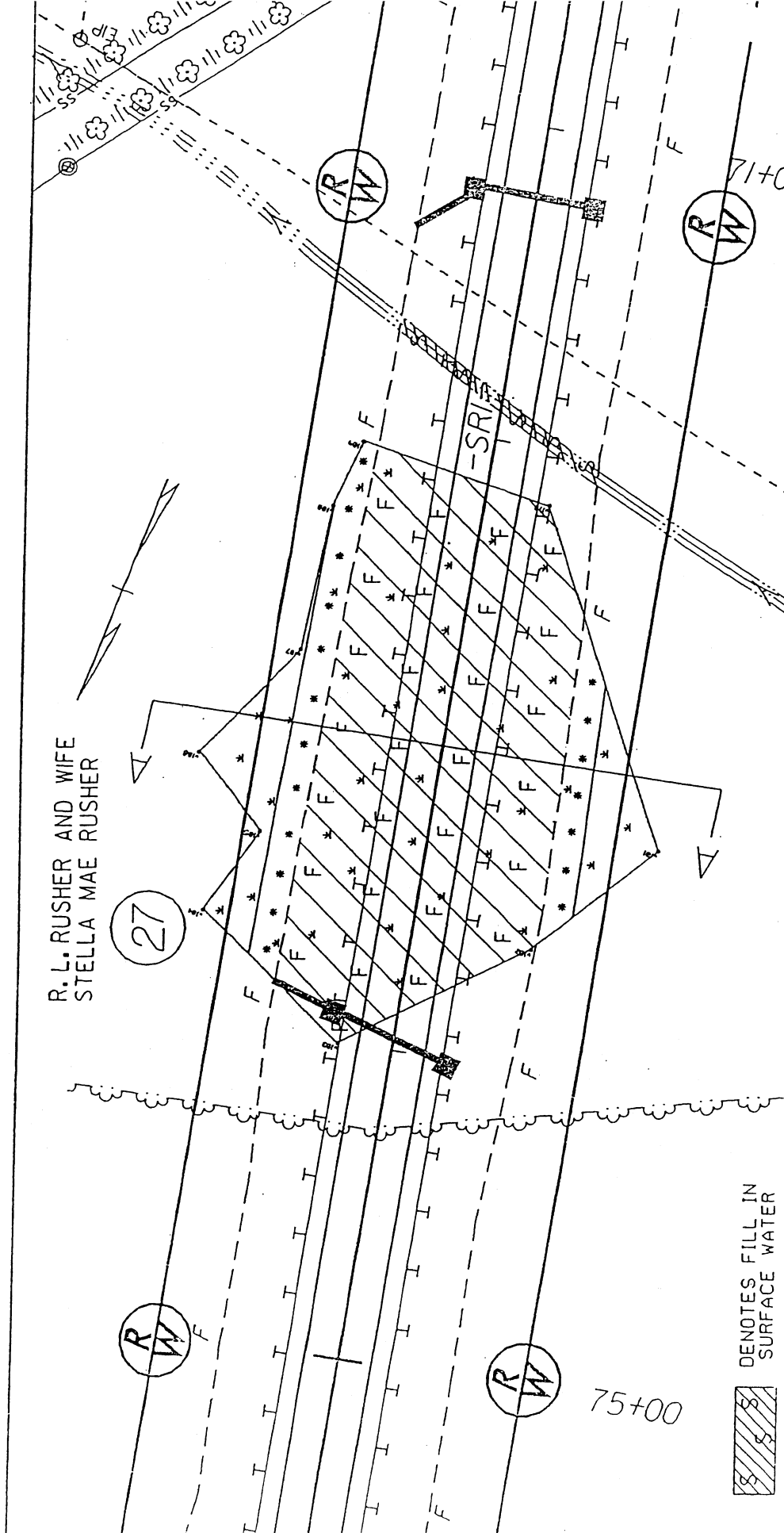
SCALE: 1" = 50' HORIZ.

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SITE 7B

50 0 25 50  
SCALE: 1"= 50' HORIZ.



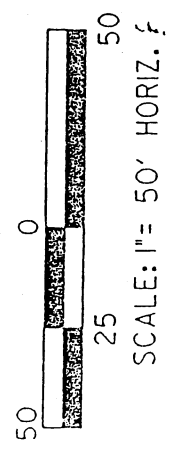


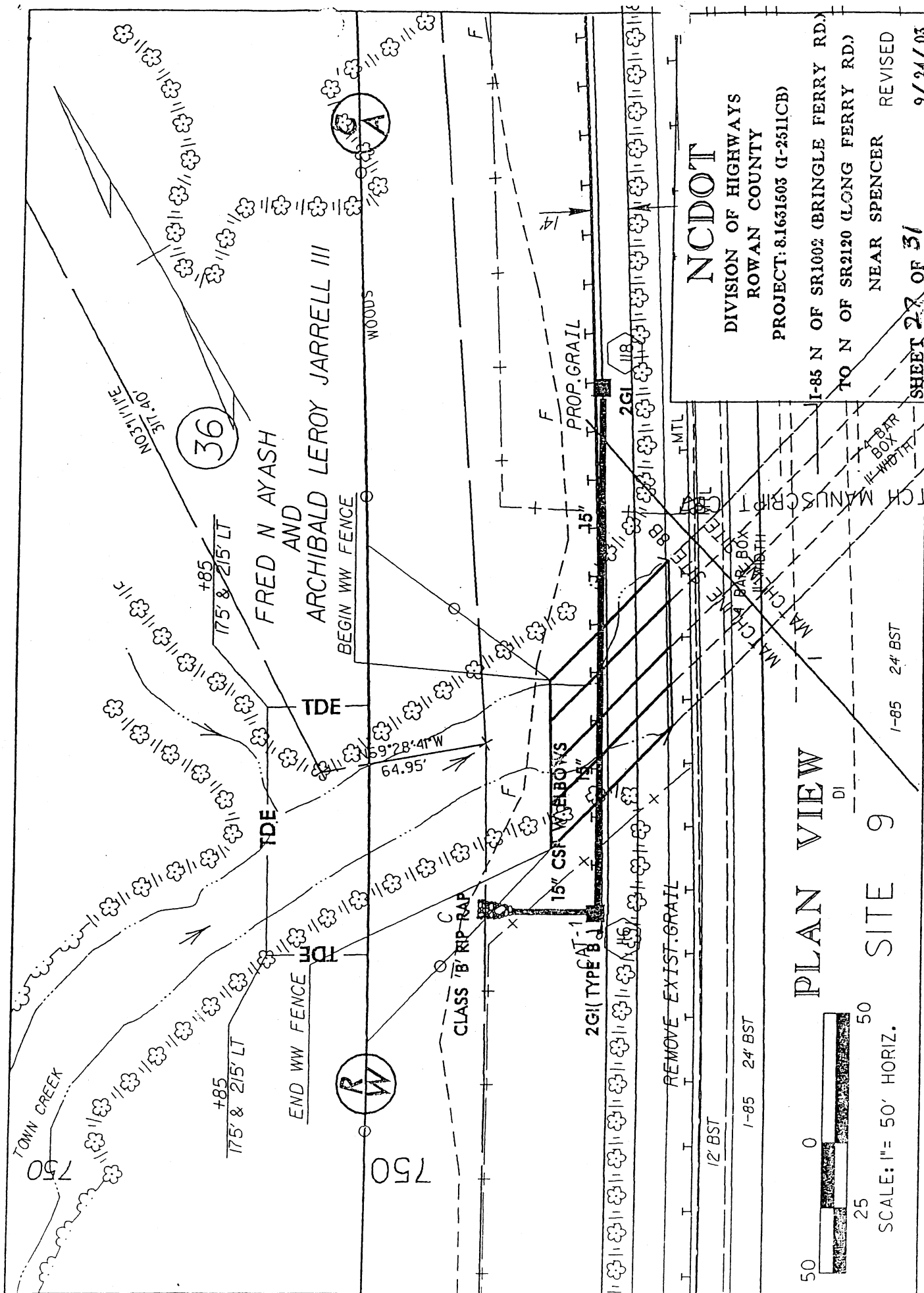
NCDOT  
 DIVISION OF HIGHWAYS  
 ROWAN COUNTY  
 PROJECT: 8.1631503 (I-25/ICB)  
 I-85 FROM N OF SR1002 (BRINGLE  
 FERRY RD.) TO N OF SR 2120 (LONG  
 FERRY RD.) NEAR SPENCER  
 SHEET 26 OF 31  
 REVISIONS  
 09/12/00

# SITE 8

## PLAN VIEW

- DENOTES FILL IN SURFACE WATER
- DENOTES MECHANIZED CLEARING
- DENOTES FILL IN WETLAND



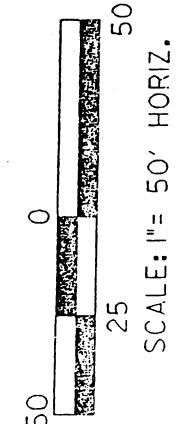


**NCDOT**  
 DIVISION OF HIGHWAYS  
 ROWAN COUNTY  
 PROJECT: 8.1631503 (I-2511CB)

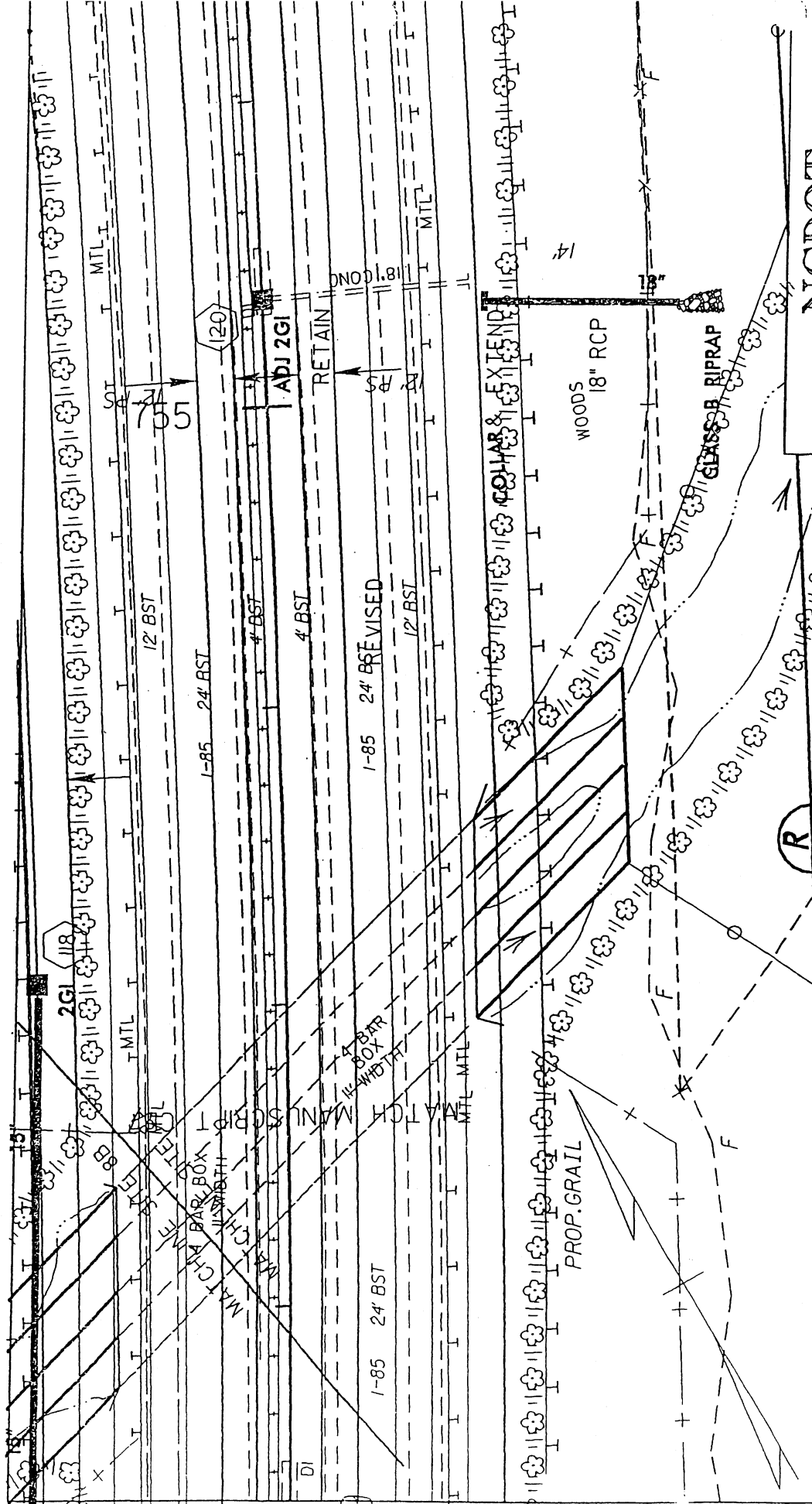
I-85 N OF SR1002 (BRINGLE FERRY RD.)  
 TO N OF SR2120 (LONG FERRY RD.)  
 NEAR SPENCER  
 REVISED  
 9/24/03

PLAN VIEW

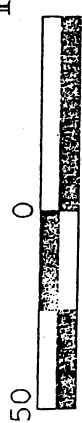
SITE 9



SHEET 27 OF 31



# SITE 9 PLAN VIEW



SCALE: 1" = 50' HORIZ.

**NCDOT**  
 DIVISION OF HIGHWAYS  
 ROWAN COUNTY  
 PROJECT: 8.1631503 (I-2511CB)  
 I-85 FROM N OF SR1002 (BRINGLE  
 FERRY RD.) TO N OF SR2120 (LONG  
 FERRY RD.) NEAR SPENCER  
 SHEET 28 OF 31

9/24/03

## WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To) (-L-)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS				
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)
1	647+50 -L- (LT/RT)	30" RCP	0	0	0	0	0.003	0	0	66	0
2	680+00 -L- (LT/RT)	30" RCP	0	0	0	0	0.01	0	0	180	0
3	49+27 -SR1- (LT.)	18" RCP	0	0	0	0	0.01	0	0	93	0
4	RPIC 16+00	18" RCP	0.001	0	0	0.003	0.008	0	0	114	0
5	708+00-717+00 -L- LT.	SPANS:3@60'.1@45'	0	0	0	0	0.64	0	0	864	1375
6	SRC 31+40 (LT.)	BRIDGE	0	0	0	0	0	0	0	0	0
7A & 7B	808+00-812+00	NONE	0.041	0	0	0.006	0.009	0	0	200	0
8	SR1- 72+00	18"/30"RCP/8x7 RCBC	0	0	0	0	0.06	0	0	481	0
9	SR1- 72+00	NONE	0.41	0	0	0	0.06	0	0	90	0
	752+65.85-L-	4@11' x 13' RCBC	0	0	0	0	0.1	0	0	130	0

**SITE 3: 93ft. Does not require mitigation**

SITE 6: 163ft. Does not require mitigation  
37ft. Does require mitigation

SITE 7A: 230ft. Does not require mitigation

22ft. Does require mitigation

Site8: 90ft. Does not require mitigation

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS

ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

REVISÉ

SHEET 29 OF 31 (9/12/03)

# PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	JAMES E. SMITH	453 STEEPLECHASE TRAIL SALISBURY N.C. 28144
2	JAMES E. SMITH	453 STEEPLECHASE TRAIL SALISBURY N.C. 28144
9	WALLACE PROPERTIES	301 N. MAIN ST. SALISBURY N.C. 28145-0102
10	VOYLS W. & SHARON TYSINGER	740 CHOATE RD. SALISBURY N.C. 28146
12	NEW HOPE BAPTIST CHURCH	830 CHOATE RD. SALISBURY N.C. 28146
16	OLIN E. STAMPER & WIFE	308 HENDERSON ST. SALISBURY N.C. 28144
27	ROBERT LEE & STELLA RUSHER	721 ANDREWS ST. SALISBURY N.C. 28144-8714
28	CECIL B. DAY COMPANIES, INC.	7000 CENTRAL PARKWAY NE STE. 850 ATLANTA GA. 30328
29	DEBORAH T. AREY	2685 PROVIDENCE CHURCH RD. SALISBURY N.C. 28146

## NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR 1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER



# PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
37	BURLENA N. LYERLY	1031 OLD MOCKSVILLE RD. SALISBURY N.C. 28144
65	MARY LONG	OVERHILL DR. SALISBURY N.C. 28144
67	TEDDY BARNES & WIFE	405 WILLOW CREEK DR. SALISBURY, N.C. 28146- 2469
18A	CLARICE H. & KAREN L. ROE	2 LAUREL BROOK CT. GREENSBORO, N.C. 27407- 5037

NCDOT

DIVISION OF HIGHWAYS  
ROWAN COUNTY

PROJECT: 8.1631503 (I-2511CB)

I-85 FROM N OF SR 1002 (BRINGLE  
FERRY RD.) TO N OF SR 2120 (LONG  
FERRY RD.) NEAR SPENCER

## Monitoring Data Record

Project Title: \_\_\_\_\_ COE Action ID: 200221216

Stream Name: \_\_\_\_\_ DWQ Number: \_\_\_\_\_

City, County and other Location Information: \_\_\_\_\_

Date Construction Completed: \_\_\_\_\_ Monitoring Year: ( ) of 5

Ecoregion: \_\_\_\_\_ 8 digit HUC unit \_\_\_\_\_

USGS Quad Name and Coordinates: \_\_\_\_\_

**Rosgen Classification:** \_\_\_\_\_

Length of Project: \_\_\_\_\_ Urban or Rural: \_\_\_\_\_ Watershed Size: \_\_\_\_\_

Monitoring DATA collected by: \_\_\_\_\_ Date: \_\_\_\_\_

Applicant Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email address: \_\_\_\_\_

Consultant Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email address: \_\_\_\_\_

**Project Status:** \_\_\_\_\_**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level 1 2 3Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3***Section 1. PHOTO REFERENCE SITES***(Monitoring at all levels must complete this section)***Attach site map showing the location and angle of all reference photos with a site designation (name,****number, letter, etc.) assigned to each reference photo location. Photos should be provided for all structures and cross section locations, should show both banks and include an upstream and downstream view. Photos taken to document physical stability should be taken in winter. Photos taken to document vegetation should be taken in summer (at representative locations). Attach photos and a description of each reference photo or location. We recommend the use of a photo identification board in each photo to identify location.****Total number of reference photo locations at this site:** \_\_\_\_\_**Dates reference photos have been taken at this site:** \_\_\_\_\_**Individual from whom additional photos can be obtained (name, address, phone):** \_\_\_\_\_

Other Information relative to site photo reference: \_\_\_\_\_

**If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.**

**Section 2. PLANT SURVIVAL**

**Attach plan sheet indicating reference photos.**

Identify specific problem areas (missing, stressed, damaged or dead plantings):

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Estimated causes, and proposed/required remedial action: \_\_\_\_\_

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ADDITIONAL COMMENTS: \_\_\_\_\_

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**If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.**

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

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Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: NCDOT/TIP I-2511CB		File Number: 200221534	Date: September 30, 2004
Attached is:			See Section below
X	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of permission)		B
	PERMIT DENIAL		C
	APPROVED JURISDICTIONAL DETERMINATION		D
	PRELIMINARY JURISDICTIONAL DETERMINATION		E

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

**A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT:** You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

## SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

### POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Mr. Eric C. Alsmeyer, Regulatory Project Manager  
U.S. Army Corps of Engineers, Wilmington District  
Raleigh Regulatory Field Office  
6508 Falls of Neuse Road, Suite 120  
Raleigh, North Carolina 27615-6814

If you only have questions regarding the appeal process you may also contact:

Mr. Arthur Middleton, Administrative Appeal Review Officer  
CESAD-ET-CO-R  
U.S. Army Corps of Engineers, South Atlantic Division  
60 Forsyth Street, Room 9M15  
Atlanta, Georgia 30303-8801

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

\_\_\_\_\_  
Signature of appellant or agent.

Date:

Telephone number:

### DIVISION ENGINEER:

Commander

U.S. Army Engineer Division, South Atlantic  
60 Forsyth Street, Room 9M15  
Atlanta, Georgia 30303-3490