



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

September 28, 2004

Addendum No. 1

RE: Contract ID: C200893
WBS # 34336.3.4
Robeson County (R-513BB, R-513C)
US-74 From West of SR-1157 (Henry Berry Road)
To West of SR-1164 (Back Swamp Road) and From
West of SR-1164 to NC-41.

October 19, 2004 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form recently furnished to you on the above-mentioned project.

The following revisions have been made to the Roadway plans:

Plan Sheet No. 10 has been revised to remove the noise wall north of Ramp "B". Please void Sheet No. 10 in your plans and staple the revised Sheet No. 10 thereto.

The following sheets in the Traffic Control, Marking and Delineation plans have been revised:

TCP-2A, PMP-1 thru PMP-17 and PMP-24.

Please void Sheet Nos. TCP-2A, PMP-1 thru PMP-17 and PMP-24 in your plans and staple the revised sheets thereto.

The following sheets in the Utility Construction plans for the R-513C portion of the project have been revised:

UC-1, UC-2, UC-12, UC-13, UC-15, UC-16, UC-19, UC-22 and UC-23.

Please void these sheets in your Utility Construction plans and staple the revised sheets thereto.

Page No. 2 (C200893)

The following revisions have been made to the proposal form:

On Page No. 12 the “WBE” goal has been revised in the project special provision entitled ‘Minority and Women Business.’ Please void Page No. 12 in your proposal and staple the revised Page No. 12 thereto.

On Page Nos. 23 and 24 the project special provision entitled “Contractor Borrow Source” has been updated to a newer version. Please void Page Nos. 23 and 24 in your proposal and staple the revised Page Nos. 23 and 24 thereto.

Page Nos. 42 thru 47 have been revised to remove the “Utilities Unit Scope Details” portion of the project special provision entitled “Design and Construct I-85 Temporary Median Crossover Detours.” Please void Page Nos. 42 thru 47 in your proposal and staple the revised Page Nos. 42 thru 47 thereto.

On Page No.111, a revision has been made to the second paragraph of section “2. PE Water Tubing” in the Utility Construction provisions. Please void Page No. 111 in your proposal and staple the revised Page no. 111 thereto.

Beginning on Page No. 127, a project special provision for “Safety Fence” has been added. Please void Page No. 127 in your proposal and replace with Page Nos. 126-A and 127.

On Page No. 316, the project special provision entitled “Permits” has been revised. Please void Page No. 316 in your proposal and staple the revised Page no. 316 thereto.

New Page Nos. 317 thru 391 are being added to include the 404 and 401 permits for the project. Please staple the new Page Nos. 317 thru 391 after Page No. 316 in your proposal.

On Page No. 13 and 14 of the item sheets, by copy of this addendum, the following quantity changes have been made:

<u>Item Number</u>	<u>Old Quantity</u>	<u>New Quantity</u>
209-4685000000-M-1205 Thermoplastic Pavement Marking Lines (100MM, 2.3MM)	88,621 M	3,960 M
210-4686000000-M-1205 Thermoplastic Pavement Marking Lines (100MM, 3.1MM)	15,086 M	4,366 M
211-4688000000-M-1205 Thermoplastic Pavement Marking Lines (150MM, 2.3MM)	32,781 M	117,442 M
212-4690000000-M-1205 Thermoplastic Pavement Marking Lines (150MM, 3.1MM)	2,823 M	13,543 M
213-4695000000-M-1205 Thermoplastic Pavement Marking Lines (200MM, 2.3MM)	4,347 M	Item Deleted
214-4700000000-M-1205 Thermoplastic Pavement Marking Lines (300MM, 2.3MM)	1,942 M	6,289 M

The Contractor's bid price must be based on these revised pay item quantities. The Contract will be prepared accordingly.

On Page No. 16 of the item sheets a change has been made to the diameter and thickness for line item "259-5888000000-M-SP 3.00 MM Steel Encasement Pipe, 4.77 MM Thick, By Open Cut." By copy of this addendum the diameter is hereby changed to "600MM" and the thickness is hereby changed to "6.35MM." The Contractor's bid price shall be based on this revised pay item description. The contract will be prepared accordingly.

On Page No. 21 of the item sheets, a new pay item is being added. By copy of this addendum, the following line item is hereby added: "375-6147000000-M-SP Safety Fence (Quantity=8175 M)." The Contractor's bid price must include this new pay item. The contract will be prepared accordingly.

The Table of Contents has been revised to reflect the above mentioned changes. Please void the Table of Contents in your proposal and staple the revised Table of Contents thereto.

The Expedite file has been updated to reflect these revisions. Please download the Expedite addendum file and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag/pa
Attachments

cc: Mr. W. S. Varnedoe, PE
Mr. S. D. DeWitt, PE
Mr. E. C. Powell, PE
Mr. T. R. Gibson, PE
Ms. D. M. Barbour, PE
Mr. Art McMillan, PE
Mr. J. V. Barbour, PE
Mr. Mark Staley (2)
Mr. Aydren Flowers
Mr. R. E. Davenport, Jr. PE
Ms. Kim Canady
Ms. Taylor Mishoe
Project File (2)

CONTRACT: C200893 (R-513BB & R-513C)

Robeson County

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STANDARD SPECIAL PROVISIONS (YELLOW SHEETS)

14. The pre-bid *Non-Collusion Affidavit, Debarment Certification signature sheet, Execution of Contract, Non-Collusion Affidavit, Debarment Certification signature sheet*, certified check or cashier's check in lieu of electronic bid bond, payment and performance bonds shall be delivered to the Contract Office at the address shown herein:

Physical Address

State Contract Officer
Project Services Unit
Century Center Bldg. B
1020 Birch Ridge Drive
Raleigh, NC 27610

Mailing Address:

State Contract Officer
NC Department of Transportation
Contracts and Proposals
1591 Mail Service Center
Raleigh, NC 27699-1591

SP1G60

MINORITY AND WOMEN BUSINESS

07-17-01

POLICY

It is the policy of the North Carolina Department of Transportation that minority and women businesses shall have the maximum opportunity to participate in the performance of contracts financed by Non-Federal Funds.

The Contractor is also encouraged to give every opportunity to allow MB/WB participation in Supplemental Agreements.

OBLIGATION

The Contractor and any subsequent Subcontractor shall ensure that minority and women businesses have the maximum opportunity to participate in the performance of the work included in this contract. The Contractor and any subsequent Subcontractor shall take all necessary and reasonable steps to ensure that minority and women businesses have the maximum opportunity to compete for and perform a portion of the work included in this contract and shall not discriminate on the basis of race, color, national origin or sex. Failure on the part of the Contractor to carry out the requirements set forth herein shall constitute a breach of contract and after proper notification, may result in award disqualification, termination of the contract, disqualification from bidding, or other appropriate remedy.

GOALS

Pursuant to the requirements of North Carolina General Statute 136-28.4, the following goals for participation are established for this contract:

Minority Business Enterprises 12%
Women Business Enterprises 6%

Before each steel or iron product is incorporated into this project or included for partial payment on a monthly estimate, the Contractor shall furnish the Resident Engineer a notarized certification certifying that the product conforms to the above requirements of this Special Provision. The Resident Engineer will forward a copy of each certification to the Materials and Tests Unit.

Each purchase order issued by the Contractor or a subcontractor for steel and iron products to be permanently incorporated into this project shall contain in bold print a statement advising the supplier that all manufacturing processes to produce the steel or iron shall have occurred in the United States. The Contractor and all affected subcontractors shall maintain a separate file for steel products permanently incorporated into this project so that verification of the Contractor's efforts to purchase "domestic" steel and iron products can readily be verified by an authorized representative of the Department or the Federal Highway Administration. SP1G97

COMPENSATION AND RECORD KEEPING

03-16-04

Revise the *2002 Standard Specifications* as follows:

104-8 Compensation and Record Keeping

Change Article (A), subarticle 1. with the following:

In line 3 and line 6, change \$15,000.00 to \$25, 000.00.

SP1G110

CONTRACTOR BORROW SOURCE

10-19-04

Revise the *2002 Standard Specifications* as follows:

Page 2-17, Article 230-4(C) Contractor Furnished Sources, add the following;

If the Contractor proposes a borrow source, the environmental assessment shall include wetland and stream delineation extending 400 feet beyond the proposed borrow source limits.

1. If wetlands or streams are present within 400 feet of the borrow source and the contractor proposes to dewater:
 - a. Submit a hydrologic analysis (Skaggs Method) to determine if lateral effects will permanently impact or cause degradation to wetlands or streams. The analysis shall be performed by an environmental or hydraulics engineer with expertise in this discipline and shall consist of, but not be limited to:

- Hydric soil type
- Average profile depth to restrictive soil layer
- Average hydraulic conductivity or permeability
- Average drainable porosity or available water capacity
- Required buffer width, including safety factor

- b. Attach a conservation easement specifying that the completed pit impoundment, shall not be drained, ditched, used for irrigation, or any other manner that would degrade wetlands and streams.
 - c. Provide copy of recorded conservation easement to Engineer prior to commencement of any work on proposed pit.
2. If wetlands or streams are not present within 400 feet, no additional documentation will be required.

During Department review of the proposed borrow area, the hydrologic analysis will be submitted to the U. S. Army Corps of Engineers for evaluation.

Obtain copy of Skaggs Method for Determining Lateral Effects of a Borrow Pit on Adjacent Wetlands from Roadside Environmental Unit web site:

http://www.doh.dot.state.nc.us/operations/dp_chief_eng/roadside/fieldops/

Copies may also be obtained from Room 558, Transportation Building, 1 S. Wilmington Street, Raleigh, NC 27601.

SP1G111

SUBSURFACE INFORMATION:

7-1-95

Subsurface information is available on the roadway and structure portions of this project. SP1G119

PAYMENTS FOR MATERIALS - PORTABLE CONCRETE BARRIER:

7-1-95

When so authorized by the Engineer, partial materials payments will be made up to 90 percent of the delivered cost of portable concrete barrier, provided that these materials have been delivered on the project and stored in an acceptable manner, and further provided the documents listed in Subarticle 109-5(C) of the Standard Specifications have been furnished to the Engineer.

The provisions of Subarticle 109-5(B) of the Standard Specifications will apply to the portable concrete barrier.

SP1G121

PAYMENTS FOR MATERIALS - REMOVABLE PAVEMENT

07-01-95

MARKING MATERIAL:

When so authorized by the Engineer, partial materials payments will be made up to 90 percent of the delivered cost of pavement marking tape, provided that these materials have been delivered on or in the vicinity of the project, stored in an acceptable manner, not to exceed the shelf life recommended by the manufacturer, and further provided the documents listed in Subarticle 109-5(C) of the Standard Specifications have been furnished to the Engineer.

The Contractor shall be responsible for the material and the satisfactory performance of the material when used in the work.

The provisions of Article 109-6 of the Standard Specifications will not apply to removable pavement marking materials.

SP1G124

Develop Traffic Control Plan details at a scale of 1:500 unless otherwise agreed upon. The NCDOT's Traffic Control Website should be utilized when developing the Traffic Control Plan details. The Traffic Control Website is continuously updated and provides key information necessary in preparing Traffic Control Plans. The Traffic Control Website Address: <http://www.doh.dot.state.nc.us/preconstruct/traffic/congestion/tc/>

Hold a coordination meeting with NCDOT one month prior to the beginning of construction of the temporary median crossover detours on -Y2- (I-95). NCDOT will be responsible for any public information efforts through its' IMPACT Team.

Use traffic control devices that conform to all NCDOT requirements and are listed on the Department's Approved Products List as shown on NCDOT's Traffic Control Website.

2-PROJECT REQUIREMENTS

Construction and removal of the temporary median crossover detours shall be considered as part of the construction work zone on -Y2- (I-95) inclusive of any grading, drainage, temporary pavement, pavement markings, pavement markers, temporary detour signing, and traffic control devices. The condition of the temporary detour pavements shall be monitored at all times during traffic usage and maintained as necessary to ensure safe traffic operations.

As part of this project, the General Notes contained in the Traffic Control Plans shall apply at all times during the construction, traffic operations, and removal phases of the temporary median crossover detours on -Y2- (I-95) unless otherwise directed by the Engineer.



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EROSION CONTROL SCOPE OF WORK:

Use correct NCDOT symbology for all phases of erosion control design. Utilize adequate perimeter controls (Temporary Diversions, Silt Fence, etc.). Devices at all drainage turnouts should utilize sediment control stone (TRSC-A, TRSD-B). Protect existing streams and existing and proposed inlets, catch basins, etc. with RIST-A, RIST-C, PIST-A, etc. Provide adequate silt storage for 130 cubic meters per hectare (1800 cubic feet per acre) of land disturbance, and sediment basins should be sized with surface area equal to .01 times the peak inflow rate using the 10-year peak runoff data (NCDENR-Land Quality's Erosion and Sediment Control Planning and Design Manual). Utilize temporary slope drains and earth berms at top of fill slopes 3 meters (10 ft.) or higher or where there are super elevations above .04 and fills are greater than 1.5 meters (5 ft.). Provide rock energy dissipater at slope drain outlets. Use matting on all ditch lines (non-jurisdictional streams) with 1.25% grade or larger and all cut/fill slopes 2:1 or greater where it is difficult to establish vegetation and/or slope failure is occurring. Plan submittal must include all pertinent design information required for review, such as design calculations, drainage areas, etc. The NCDOT Roadside Environmental Unit (REU) will provide a sample set of Erosion and Sedimentation Control Plans (including any special details or special provisions used by the NCDOT REU) and MicroStation Erosion Control Tool Palette to the Designer/Planner for reference if requested. Sufficient time must be allowed for the Designer/Engineer to make any changes to the Erosion and Sediment Control Plans deemed necessary by the NCDOT REU. All Erosion and Sediment Control Plans must be approved by the NCDOT REU before any land disturbing activities can commence.

1. BEDDING MATERIAL:

Bedding material for utility lines shall be installed in accordance with the applicable utility provisions herein, as shown on the utility construction plans, and/or as directed by the Engineer.

Bedding material shall meet the requirements of Article 1016-3 of the Standard Specifications. Bedding material shall be installed in accordance with Articles 300-6 and 300-7 of the Standard Specifications.

Bedding material installed in accordance with the plans and provisions herein and accepted, will be measured and paid for at the contract unit price per metric ton for "Bedding Material, Utilities Class ____". Such prices and payments shall be full compensation for all materials, labor, equipment, compaction and shaping the bedding material in accordance with the Standard Specifications, and incidentals necessary to complete the work as required

2. PE WATER TUBING:

Polyethylene plastic water tubing shall be installed in accordance with the applicable utility provisions herein, as shown on the utility construction plans, and/or as directed by the Engineer.

PE water tubing shall conform to ASTM D2239 or AWWA C901. PE tubing materials shall be either PE 2406, PE 3406 or PE 3408 depending upon the required pressure class and dimension ratio (SDR) specified on the plans. PE water tubing shall meet the requirements of the National Sanitation Seal of Approval for potable water.

The ends of the plastic water tubing shall be connected using approved compression type couplings and/or compression type fittings. Such couplings and fittings shall have been approved by the Engineer.

PE water tubing, installed in accordance with the plans and provisions herein and accepted will be measured along the pipe from end to end with no deductions for fittings or couplings, and paid for at the contract unit price per linear meter for “____ mm PE Water Tubing, SDR 7, PC 1.38 MPa”. Such prices and payments shall be full compensation for furnishing all labor, equipment, materials, couplings and fittings, excavation, chlorination, backfilling, and incidentals necessary to complete the work as required.

3. REMOVE EXISTING WATER METER:

The existing water meters to be removed at the connection to the existing service piping and stockpiled in an area accessible by truck or as directed by the Engineer.

contained in this contract and in accordance with Section 1631 of the Standards and Specification Manual.

The above requirements apply to the stream channels being constructed at the following stations:

Approx. Sta. 252+00 to Sta. 252+50 -L- Rt.

Approx. Sta. 252+70 to Sta. 256+40 -L- Lt.

Safety Fence:

Description:

The work of "Safety Fence" shall consist of furnishing, installing and maintaining polyethylene or polypropylene fence along the outside riparian buffer, wetland, or water boundary located within the construction corridor to mark the areas that have been approved to infringe within the buffer, wetland or water, and as directed by the Engineer in accordance with the special provisions included herein. The fence shall be installed prior to any land disturbing activities.

Materials:

Fence Material:

Polyethylene or polypropylene fence shall be a preconstructed safety fence approved by the Engineer.

Posts:

Either wood posts or steel posts may be used. Wood posts shall be nominal 2" x 4" (51 mm x 102 mm) or 4" x 4" (102 mm x 102 mm), lengths as required, structural light framing, grade No. 2, Southern Pine. Steel posts shall be at least 5 feet (1.6 m) in length, approximately 1 3/8" (35 mm) wide measured parallel to the fence, and have a minimum weight of 1.25 lb./ft. (1.9 kg/m) of length. The steel post shall be equipped with an anchor plate having a minimum area of 14 square inches (90 square centimeters).

Clearing and Grading:

No additional clearing and grubbing is anticipated for the installation of this fence; however, if any clearing and grubbing is required, it will be the minimum required for the installation of the safety fence. Such clearing shall include satisfactory removal and disposal of all trees, brush, stumps and other objectionable material.

The fence shall be erected to conform to the general contour of the ground. When determined necessary by the Engineer, minor grading along the fence line shall be done to meet this requirement provided no obstructions to proper drainage are created.

Installation:

Posts shall be set and maintained in a vertical position and may be hand set or set with a post driver. If hand set, all backfill material shall be thoroughly tamped. If power driven, wood posts may be sharpened to a dull point. Posts damaged by power driving shall be removed and replaced prior to final acceptance. The tops of all wood posts shall be cut at a 30 degree angle. The wood posts may, at the option of the Contractor, be cut at this angle either before or after the posts are erected.

The fence fabric shall be attached to the wood posts with one 2" (51 mm) galvanized wire staple across each cable or to the steel posts with wire or other acceptable means.

The Contractor shall be required to maintain the safety fence in a satisfactory condition for the duration of the project as determined by the Engineer.

Method of Measurement:

The quantity of safety fence to be paid for shall be the actual number of linear feet (meter) of "Safety Fence", installed in place and accepted. No direct payment will be made for post and post bracing. Cost shall be included in the cost of the fence per linear foot (meter).

Basis of Payment:

The quantity of safety fence measured as provided above will be paid for at the contract unit price per linear foot (meter) of safety fence. Such payment will be full compensation for the work as described in the above paragraphs, including but not limited to clearing and grading, furnishing and installing fence fabric with necessary posts and post bracing, staples, tie wires, tools, equipment and incidentals necessary to complete the work.

Payment will be made under:

Safety Fence..... LF (M)

PROJECT SPECIAL PROVISIONS
PERMITS

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

PERMIT

AUTHORITY GRANTING THE PERMIT

Dredge and Fill and/or
Work in Navigable Waters (404)

U. S. Army Corps of Engineers

Water Quality (401)

Division of Environmental Management, DENR,
State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by * are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

The Contractor's attention is also directed to Articles 107-10 and 107-14 of the Standard Specifications and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.



REPLY TO
ATTENTION OF:

317

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

September 2, 2004

Regulatory Division

Action ID Number 200300999, U.S. 74, Transportation Improvements Project R-513

Dr. Gregory J. Thorpe, PhD, Manager
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
Division of Highways
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

In accordance with your written request of May 5, 2004, and the ensuing administrative record, enclosed are two copies of a Department of the Army permit to directly discharge dredged and/or fill material into tributaries to Back Swamp, Double Branch, Jacob Swamp, and Lumber River to facilitate the construction of the U.S. 74, Transportation Improvements Project (TIP) R-513, State Project Number 6.469002T, in Roberson County, North Carolina. The proposed 19.6 mile four-lane, median divided, full control of access highway extends from the existing US 74/74 Business intersection in Maxton (LAT. DD 34.7165; LONG DD 79.3110) and runs on new alignment to just east of the I-95 interchange (LAT. DD 34.5938; LONG DD 79.0842) and continues on the existing US 74 alignment to the intersection with NC 41 (LAT DD 34.5798; LONG DD 79.0483).

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, indicates 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. Richard K. Spencer of my Wilmington Field Office regulatory staff at telephone (910) 251-4172.

Sincerely,



E. David Franklin.
Chief, NCDOT Team

Enclosures

DEPARTMENT OF THE ARMY PERMIT

RECEIVED

SEP 08 2004

REGULATORY
WILM. FLD. OFC.

Permittee NC Department of Transportation
 Permit No. 200300999
 Issuing Office USAED, Wilmington

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:

Directly discharge dredged and/or fill material into tributaries to Back Swamp, Double Branch, Jacob Swamp, and Lumber River to facilitate the construction of the U.S. 74, Transportation Improvements Project (TIP) R-513, State Project Number 6.469002T. This authorization will also include the temporary construction of diversion structures consisting of impervious dikes and a fabric-lined diversion channel at Site #2, Section BA.

Project Location: In the Lumber River basin, beginning at the existing US 74/74 Business intersection in Maxton (LAT. DD 34.7165; LONG DD 79.3110) and runs on new alignment to just east of the I-95 interchange (LAT. DD 34.5938; LONG DD 79.0842) and continues on the existing US 74 alignment to the intersection with NC 41 (LAT DD 34.5798; LONG DD 79.0483), Roberson County, North Carolina.

Permit Conditions:**General Conditions:**

1. The time limit for completing the work authorized ends on December 31, 2007. 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).
 - (x) 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.

DEPARTMENT OF THE ARMY PERMIT

NC Department of Transportation
 Permittee _____
 Permit No. 200300999
 Issuing Office USAED, Wilmington

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:

Directly discharge dredged and/or fill material into tributaries to Back Swamp, Double Branch, Jacob Swamp, and Lumber River to facilitate the construction of the U.S. 74, Transportation Improvements Project (TIP) R-513, State Project Number 6.469002T. This authorization will also include the temporary construction of diversion structures consisting of impervious dikes and a fabric-lined diversion channel at Site #2, Section BA.

Project Location: In the Lumber River basin, beginning at the existing US 74/74 Business intersection in Maxton (LAT. DD 34.7165; LONG DD 79.3110) and runs on new alignment to just east of the I-95 interchange (LAT. DD 34.5938; LONG DD 79.0842) and continues on the existing US 74 alignment to the intersection with NC 41 (LAT DD 34.5798; LONG DD 79.0483), Roberson County, North Carolina.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on December 31, 2007. 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.

SPECIAL CONDITIONS (Action ID. 2003-0-0999; NCDOT/TIP R-513)

1. All work authorized by this permit must be preformed in strict compliance with the attached plans, which are a part of this permit. Written verification shall be provided that the final construction drawings comply with the attached permit drawings prior to any active construction in waters of the United States, including wetlands. The permittee shall 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 shall be brought to the attention of the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office prior to any active construction in waters or wetlands and any modification to the permit plans must be approved by the Corps of Engineers prior to implementation.
2. The permittee shall schedule a preconstruction meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office, 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 notify the Corps of Engineers Project Manager a minimum of thirty (30) days in advance of the scheduled meetings in order to provide that individual with ample opportunity to schedule and participate in the required meetings. One copy of the final construction drawings shall be furnished to the Corps of Engineers, Mr. Richard Spencer, Wilmington Regulatory Field Office prior to the pre-construction meeting. Written verification shall be provided to the Corps of Engineers that the final construction drawings comply with the attached permit drawings.
3. 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. Copies of this permit and any modifications authorized by the USACE shall be available for review at the construction site at all times. All violations, including non-compliance of these conditions, of the authorized permit shall be reported to the District Engineer within 24 hours of the violation.
- *4. Compensatory mitigation for the unavoidable impacts to 54.12 acres of wetland and 8,192 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated July 28, 2004 from William D. Gilmore, EEP Transition Manager. The EEP will provide 541.20 acres of preservation of wetlands (55.3 acres of riverine and 485.9 acres of non-riverine wetlands) and 81,920 linear feet of stream preservation in the Southern Inner Coastal Plain Eco-Region at the Great Coharie Site in Sampson County that has been acquired and protected by the EEP. 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 a minimum of 48.59 acres of restoration of non-riverine wetlands, 5.53 acres of restoration of riverine wetlands and 8,192 linear feet of restoration of warm water stream channel in the Lumber River basin (Hydrologic Cataloging Unit 03040203 by July 22, 2005 and half of the proposed preservation mitigation would be available at that time for mitigation for other project impacts.

Construction within wetlands on the permitted highway project shall begin only after the EEP has provided written confirmation to the District Engineer that the EEP and not the NCDOT is responsible for providing the required mitigation, pursuant to Paragraph VI.B.7 of the MOA. 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.

5. The permittee and its contractors and/or agents shall not excavate, fill, or perform mechanized landclearing at any time in the construction or maintenance of this project within waters and/or wetlands, or cause the degradation of waters and/or wetlands, except as authorized by this permit, or any modification to this permit. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters 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.

6. To ensure that all borrow and waste activities occur on high ground and do not result in loss or 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 ensure that all such areas comply with the preceding condition (#5) 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 (#5). All information will be available to the Corps of Engineers 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.

7. The permittee shall comply with the conditions specified in the water quality certification, No. 3468, issued by the North Carolina Division of Water Quality on August 5, 2004.

8. The permittee shall place the inverts of culverts and other structures greater than 48 inches in diameter in waters, streams, and wetlands one foot below the bed of the stream to allow low flow passage of water and aquatic life, unless providing passage would be impractical and the Corps of Engineers has waived this requirement. For culverts 48 inches in diameter or smaller, culverts must be buried below the bed of the stream to a depth equal to or greater than 20 percent of the diameter of the culvert. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to, upstream or downstream of the structures.

9. The temporary diversion channels at Site #2, Section BA shall be constructed in accordance with Section 5.2.4 of the August 2003, "Best Management Practices for Construction and Maintenance Activities". All temporary diversion channels shall be constructed of non-erodible materials. All channel diversion structures shall be sized to withstand expected high flows.
10. The permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to assure compliance with the appropriate turbidity water quality standard.
11. The permittee shall remove all sediment and erosion control measures placed in wetlands or waters, and shall restore natural grades in those areas, prior to project completion.
12. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.
13. If the permittee discovers any previously unknown historic or archeological remains while accomplishing the authorized work, he shall immediately stop work and notify the Wilmington District Engineer who will initiate the required State/Federal coordination.
14. No excavated or fill material shall be placed at any time in waters or wetlands outside the authorized permit area, nor will it be placed in any location or in any manner so as to impair surface water flow into or out of any wetland area.
15. The permittee shall maintain the authorized work in good condition and in conformance with the terms and conditions of this permit. The permittee is not relieved of this requirement if he abandons the permitted activity without transferring it to a third party.
16. All fill material shall be clean and free of any pollutants except in trace quantities. Metal products, organic materials, or unsightly debris will not be used.
17. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
18. In issuing this permit, the Federal Government does not assume any liability for:
 - 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 Federal activities initiated on behalf of the general public.
 - c. Damages to other permitted or un-permitted activities or structures caused by the authorized activity.

- d. Design and construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

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

Applicant: NCDOT/TIP R-513 (U.S. 74)	File Number: 2003-0-0999	Date: September 2, 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. Richard K. Spencer, Regulatory Project Manager
 U.S. Army Corps of Engineers, Wilmington District
 Wilmington Regulatory Field Office
 69 Darlington Avenue
 Wilmington, North Carolina 228402

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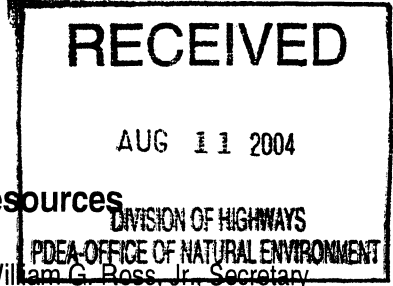
DIVISION ENGINEER:
 Commander
 U.S. Army Engineer Division, South Atlantic
 60 Forsyth Street, Room 9M15
 Atlanta, Georgia 30303-3490

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Cashin



North Carolina Department of Environment and Natural Resources
Division of Water Quality



Michael F. Easley, Governor

August 5, 2004

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



Dear Dr. Thorpe:

Re: Water Quality Certification Pursuant to §401 of the Federal Clean Water Act,
Maxton Bypass, from existing US 74 Business Bypass in Maxton to just east of the I-95 Interchange
to the intersection with NC 41, Robeson County.
WBS Element 34336.1.5; State Project No. 6.469002T
TIP No. R-513
DWQ Project No. 040734

Attached hereto is a copy of Certification No. 3468 issued to The North Carolina Department of
Transportation dated August 5, 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
- Richard Spencer, USACE Wilmington Field Office
- Ken Averitte, NCDWQ Fayetteville Regional Office
- Christopher Militscher, US Environmental Protection Agency – Region IV
- William D. Gilmore, P.E., Transition Manager, NC DENR Division of Ecosystem Enhancement
- T. R. Gibson, PE, Division Engineer, NCDOT Division 6
- 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:

- 54.12 acres of jurisdictional wetlands;
- 3.48 ac of fill in surface waters; and
- 8,192 linear feet of jurisdictional stream loss;

in Robeson County.

Site R-513A	Station Number	Wetlands Impacts (ac)	Drainage Impacts (ac)
1	13+00-16+60	0.37	0.87
3	33+38-33+75	1.07	0
4	12 + 78 Rp 'B'	0.03	0
6	82+00-85+50	8.54	
Site R-513BA			
1	85+80-87+14.77	2.19	0
1A	14+19.67-RPB-144+ 40 -Y1 -	0.04	0
2	12+86-SR1 -	0.004	0
7	140+30-140+60	0.12	0
8	145+58-148+15	2.58	0
Site R-513BB			
1	160+92-161+44	0.334	0
2	18+99-19+52	0.252	0
3	170+05-172+16	3.697	0
4	188+99-191+93	3.018	0
5	194+51-195+93	1.551	0
7	214+49-215+89	1.843	0
8	217+06-223+00	8.531	0
Site R-513C			
	Station Number	Wetland Impacts (ac)	Drainage Impacts (ac)
1	250+34-253+07	8.47	0
2	282+14-282+72 12+23-14+03-Y8-	3.62	0
2A	6+50-RP"D"-	0.13	0
3	285+59-287+09 15+85-18+27-Y8-	4.25	0
4	32+42-33+42-Y3-	1.17	0
5	51+63-53+56-Y8-	1.42	0
7	272+90 LT&RT	0.01	0
TOTAL		54.12 acres	

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Site R-513A	Station Number	Stream Name	Impact (feet)
1	13+00-16+60	UT to Lumber River	1715
5	12+42-Y2	Double Branch Canal	164
Site R-513BA	Station Number	Stream Name	Impact (feet)
1A	14+19-RPB-14+40-Y1-	Double Branch Canal	640
2	12+86-SR1-	Double Branch Canal	135
4	120+86	Back Swamp Canal	1132
5	128+01	UT to Back Swamp Canal	341
6	134+00-136+00	UT to Back Swamp Canal	338
Site R-513BB	Station Number	Stream Name	Impact (feet)
6	200+21	UT to Little Back Swamp	246
9	229+60	UT to Back Swamp	207
Site R-513C	Station Number	Stream Name	Impact (feet)
1A	252+00-257+00	UT to Back Swamp	2217
3	285+59-287+09	Jacob Swamp	827
7	272+90 LT&RT	UT to Back Swamp	1056
8	290+85	UT to Jacob Swamp	413
9	308+00	UT to Little Jacob Swamp	230
TOTAL			8,192 feet

The US 74 relocation from Maxton bypass in Maxton to NC 41 in Lumberton, Robeson County, shall be constructed pursuant to the Application dated May 5, 2004 (complete application received July 28, 2004).

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 or wetlands, 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. Page 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 buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by orange fabric fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
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 and approved by the DWQ. Sandbags, cofferdams, flexible pipe, or other diversion structures should be used to minimize excavation in flowing water.

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7. Placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it is otherwise approved by the DWQ that providing passage would be impractical. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium shall be maintained if requested in writing by DWQ.
8. The natural dimension, pattern and profile of the streams above and below the approved crossings shall not be modified by widening the stream channel or changing the depth of the stream, except as approved by this certification.
9. 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.
10. Using native trees and shrubs, riparian vegetation must be re-established within the construction limits of the project by the end of the growing season following completion of construction.
11. Heavy equipment should be operated from the stream bank rather than in the stream channel unless demonstrated by the applicant or its authorized agent to be unfeasible and approved by the DWQ. 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.
12. Live or fresh concrete shall not come into contact with waters of the state until the concrete has hardened. Water that inadvertently contacts uncured concrete should not be discharged to surface waters.
13. Discharging hydroseeding mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is strictly prohibited.
14. 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.

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*15. *Mitigation:*

Wetland Mitigation

Compensatory mitigation for 54.12 acres of wetland impacts shall be provided through the following schemes:

- The NCDENR Ecosystem Enhancement Program (EEP) has agreed to provide compensatory mitigation for 54.12 acres of wetland impacts incurred for construction of R-513. DWQ acknowledges that the EEP has agreed to provide compensation for the subject project (reference EEP letter May 20, 2004, received by DWQ July 28, 2004).

Stream Mitigation

Compensatory mitigation for 8,192 feet of stream impacts shall be provided through the following schemes:

- The NCDENR Ecosystem Enhancement Program has agreed to provide compensatory mitigation for 8,192 feet of stream impacts incurred for construction of R-513 (reference EEP letter May 20, 2004). EEP shall provide the compensatory mitigation in accordance with the Tri-Party MOA signed on June 12, 2002 and the Dual-Party MOA signed on July 22, 2003.

- *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 Transportation Permitting Unit of the Division of Water Quality upon completion of the project.

NCDOT and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) 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). 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.

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.

NCDOT TIP No. R-513

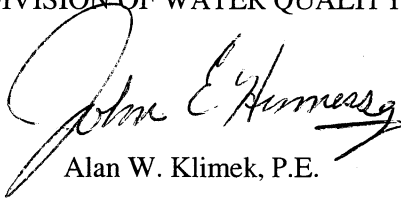
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If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition that conforms to Chapter 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 5th day of August 2004

DIVISION OF WATER QUALITY



Alan W. Klimek, P.E.

WQC No. 3468

DWQ Project No.: 040734

County: Robeson

Applicant: NCDOT

Project Name: R-513 Maxton Bypass

Date of Issuance of 401 Water Quality Certification: August 5, 2004

Certificate of Completion

* Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the Transportation Permitting Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

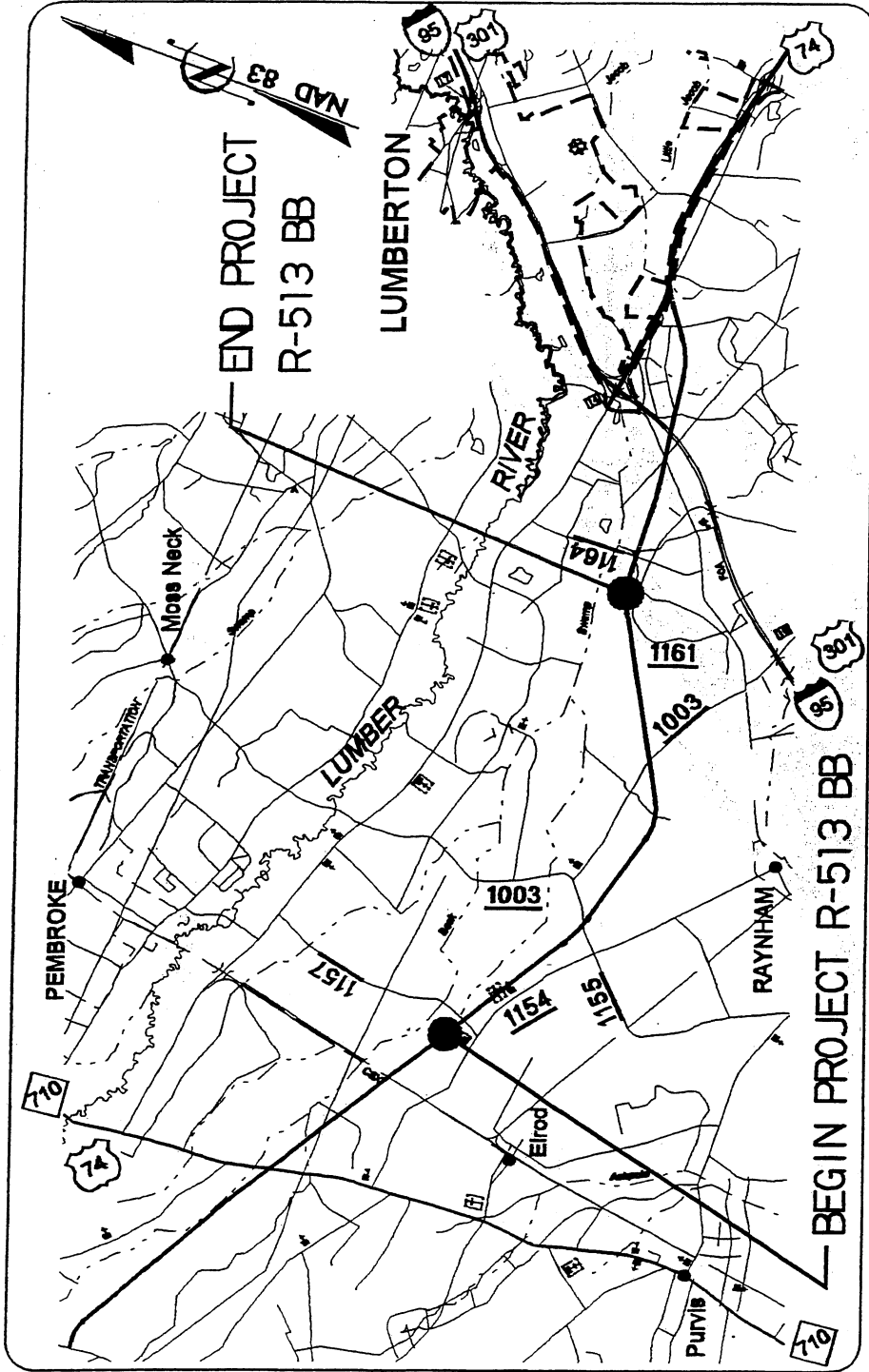
Engineer's Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____



NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

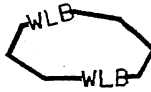
TO WEST OF SR 1164

SHEET 1 OF 18 9/18/03

VICINITY MAP

WETLAND 339 LEGEND

 WETLAND BOUNDARY

 WETLAND

 DENOTES FILL IN WETLAND

 DENOTES FILL IN SURFACE WATER

 DENOTES FILL IN SURFACE WATER (POND)

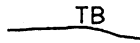
 DENOTES TEMPORARY FILL IN WETLAND

 DENOTES EXCAVATION IN WETLAND

 DENOTES TEMPORARY FILL IN SURFACE WATER

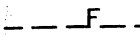
 DENOTES MECHANIZED CLEARING


 FLOW DIRECTION

 TOP OF BANK

 EDGE OF WATER

 PROP. LIMIT OF CUT

 PROP. LIMIT OF FILL

 PROP. RIGHT OF WAY

 NATURAL GROUND

 PROPERTY LINE

 TEMP. DRAINAGE EASEMENT


 PERMANENT DRAINAGE EASEMENT

 EXIST. ENDANGERED ANIMAL BOUNDARY

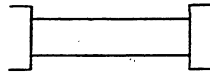
 EXIST. ENDANGERED PLANT BOUNDARY

 WATER SURFACE


 LIVE STAKES


 BOULDER

 CORE FIBER ROLLS

 PROPOSED BRIDGE

 PROPOSED BOX CULVERT

 PROPOSED PIPE CULVERT
 (DASHED LINES DENOTE EXISTING STRUCTURES)
 12"-48" PIPES
 54" PIPES & ABOVE


 SINGLE TREE

 WOODS LINE

 DRAINAGE INLET

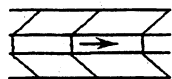
 ROOTWAD

 RIP RAP

 ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE

 PREFORMED SCOUR HOLE

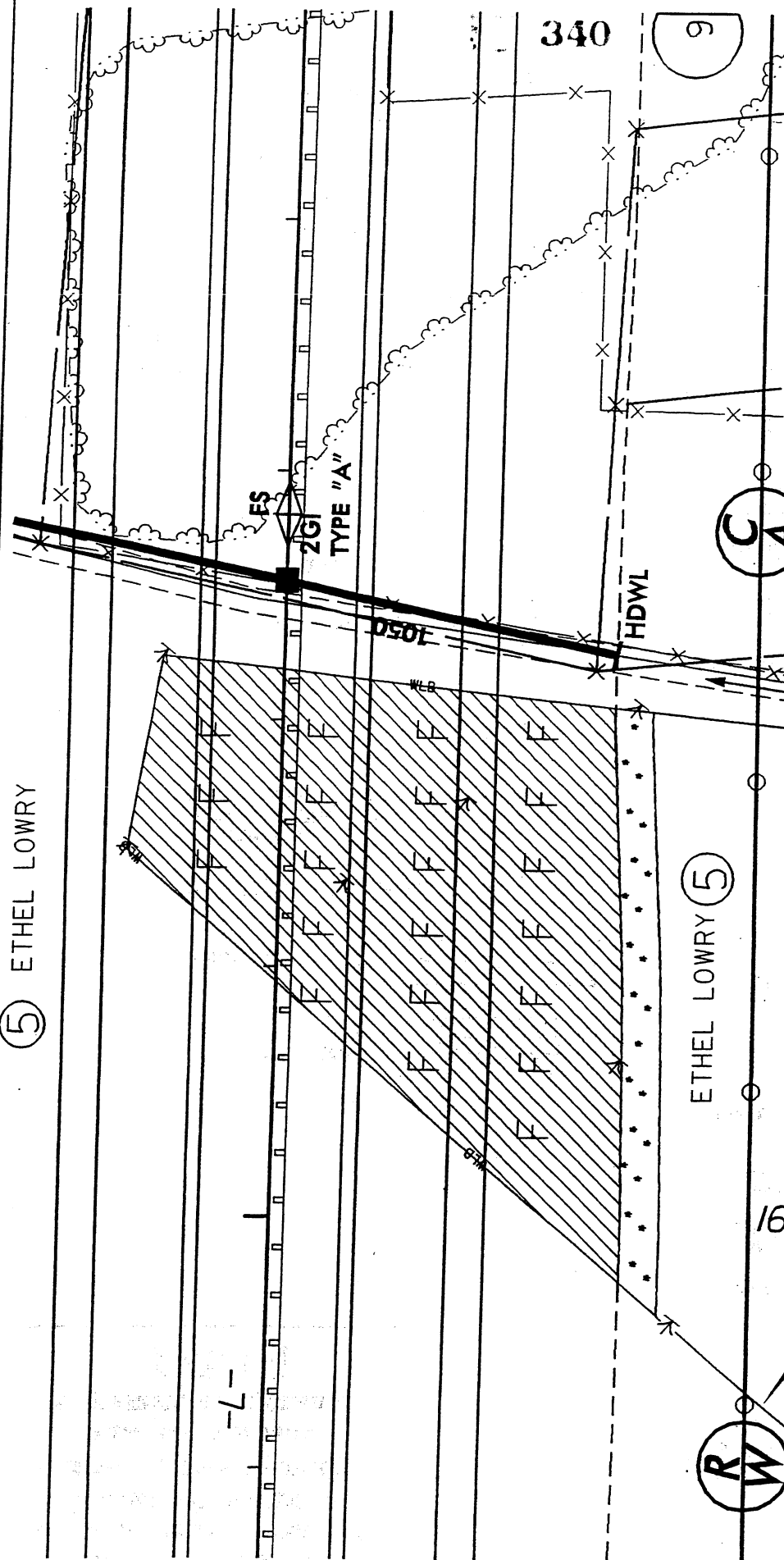
 LEVEL SPREADER (LS)

 DITCH / GRASS SWALE

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164


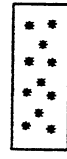
SHEET 3 OF 18 9/18/03

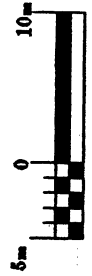
⑤ ETHEL LOWRY



NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR1164
 SHEET 4 OF 18 9/18/03

PLAN VIEW
SITE # 1

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

19+60

LOIS OXENDINE (6)

CL B RIPRAP



009

CL B RIPRAP

341



FS



19+00

SPECIAL FILL DITCH

F

F

F

F

F

F

F

F

(6)

LOIS OXENDINE



-SR5-



X



NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

TO WEST OF SR 1164

SHEET 5 OF 18

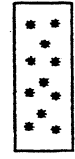
9/18/05

PLAN VIEW
SITE # 2

DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

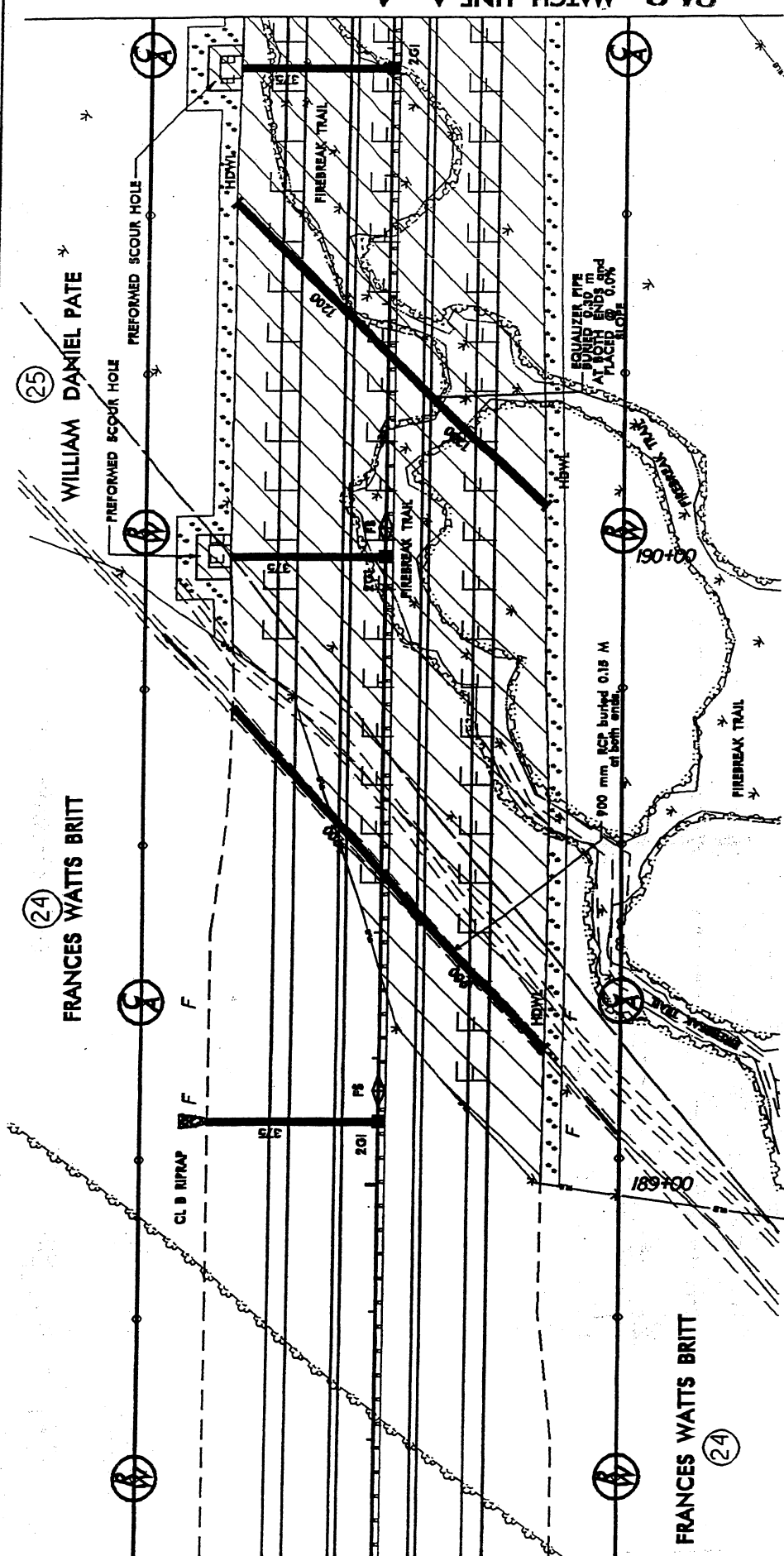
MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

TO WEST OF SR 1164

SHEET 7 OF 18

9/18/03

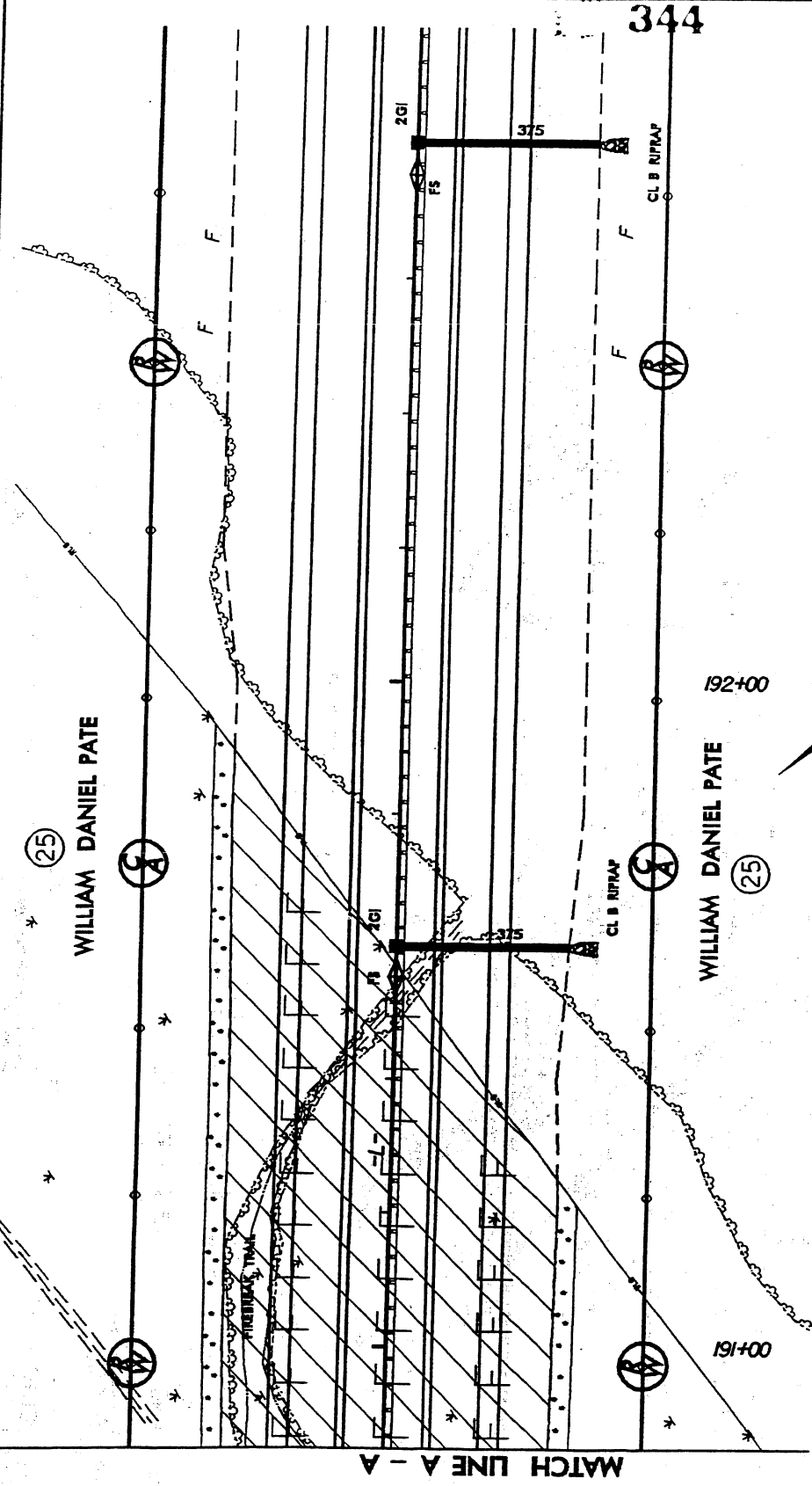


PLAN VIEW
SITE # 4

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING



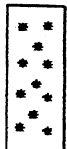
HORIZONTAL SCALE

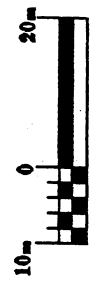


MATCH LINE A - A

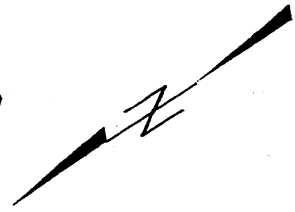
NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6-469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 8 OF 18 9/18/03

PLAN VIEW
SITE # 4

- 
 DENOTES FILL IN WETLAND
- 
 DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE



344

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-515BB)

MAXTON-LUMBERTON

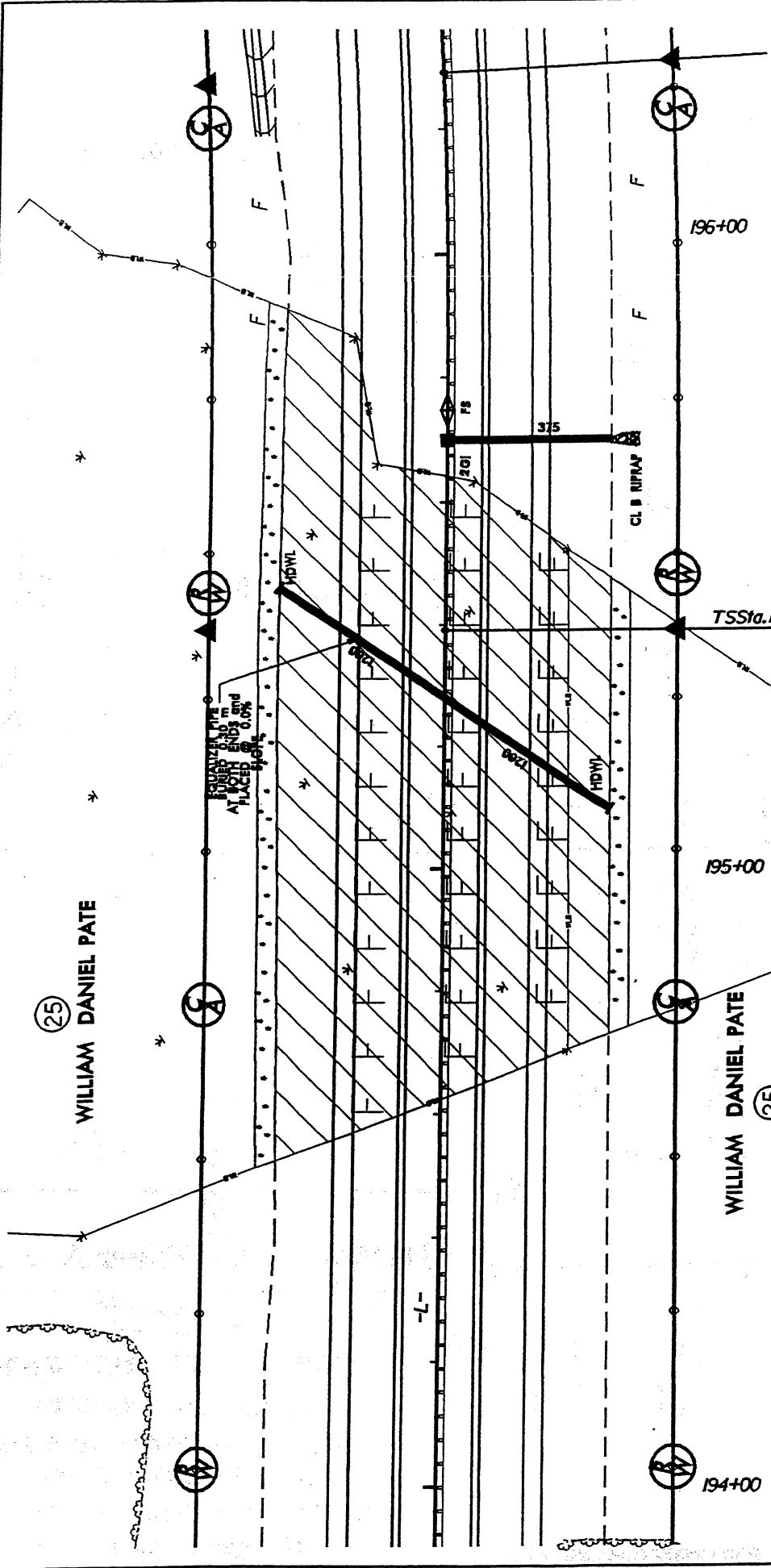
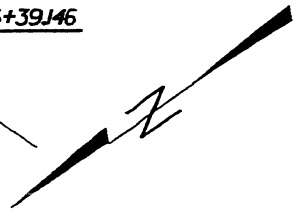
US 74 FROM WEST OF SR 1157

TO WEST OF SR1164

SHEET 7 OF 18 9/18/03

PLAN VIEW
SITE # 5

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



(25)

WILLIAM DANIEL PATE

195+00

WILLIAM DANIEL PATE
(25)

194+00

196+00

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6-469002T (R-513BB)

MAXTON-LUMBERTON

US 74 FROM WEST OF SR 1157

TO WEST OF SR 1164

SHEET 11 OF 13

9/18/03

DAVID H. FULLER

30

DAVID H. FULLER



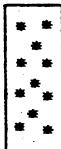
30

25+00

24+00

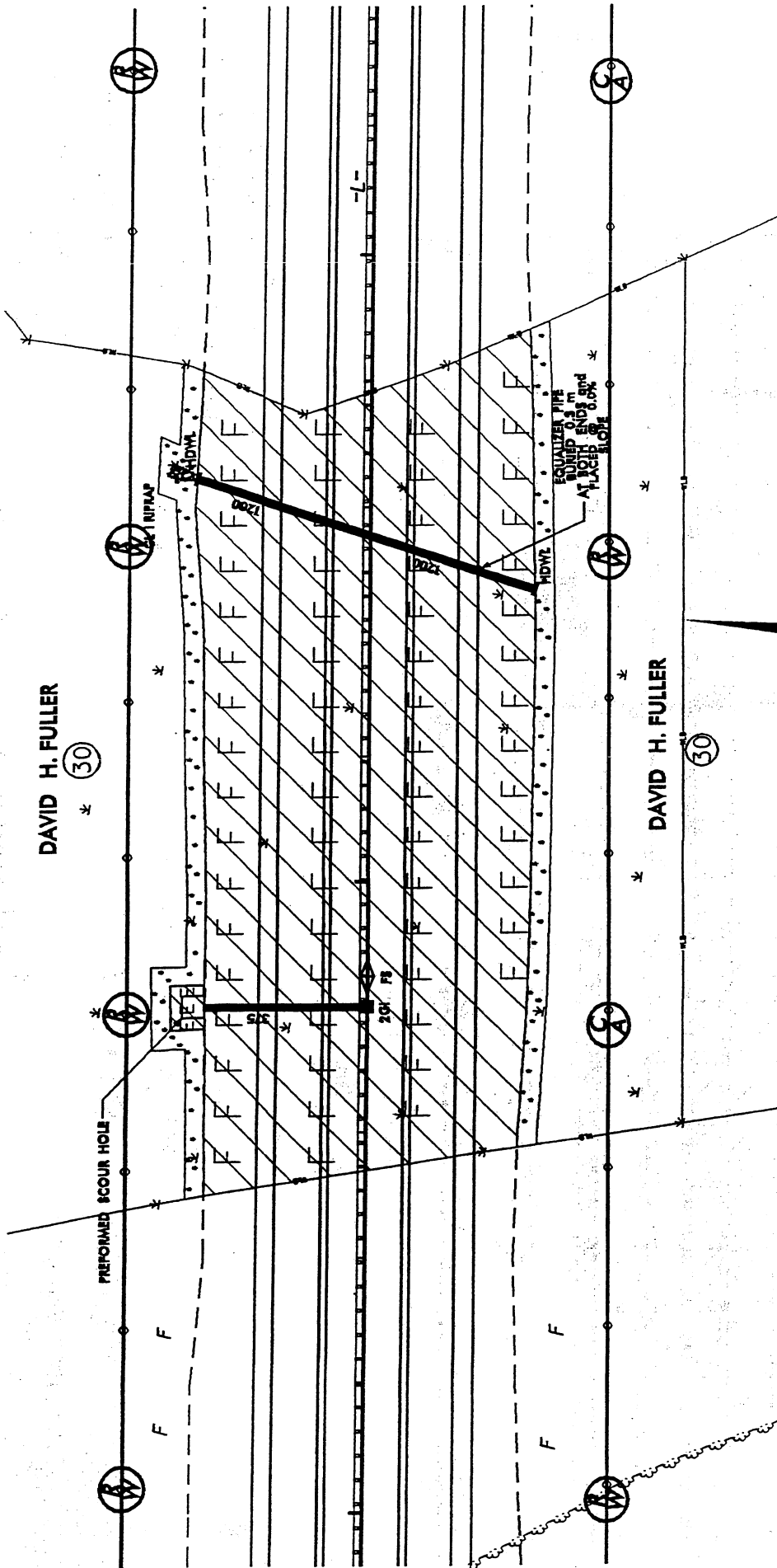
PLAN VIEW

SITE # 7

-  DENOTES FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

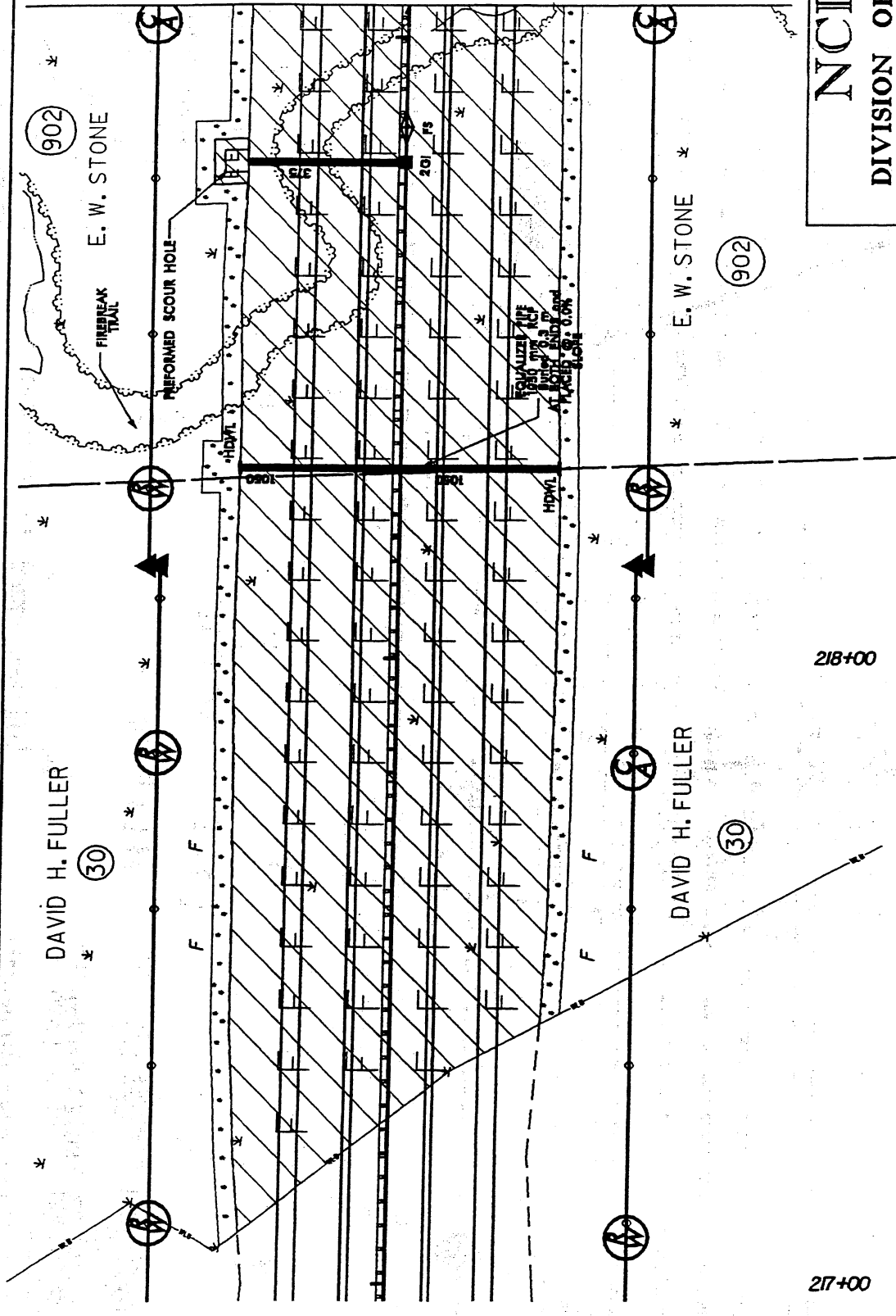


NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6.469002T (R-513BB)
MAXTON-LUMBERTON
US 74 FROM WEST OF SR 1157
TO WEST OF SR 1164

SHEET 1/2 OF 18 9/18/03

MATCH LINE B - B



PLAN VIEW SITE # 8

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

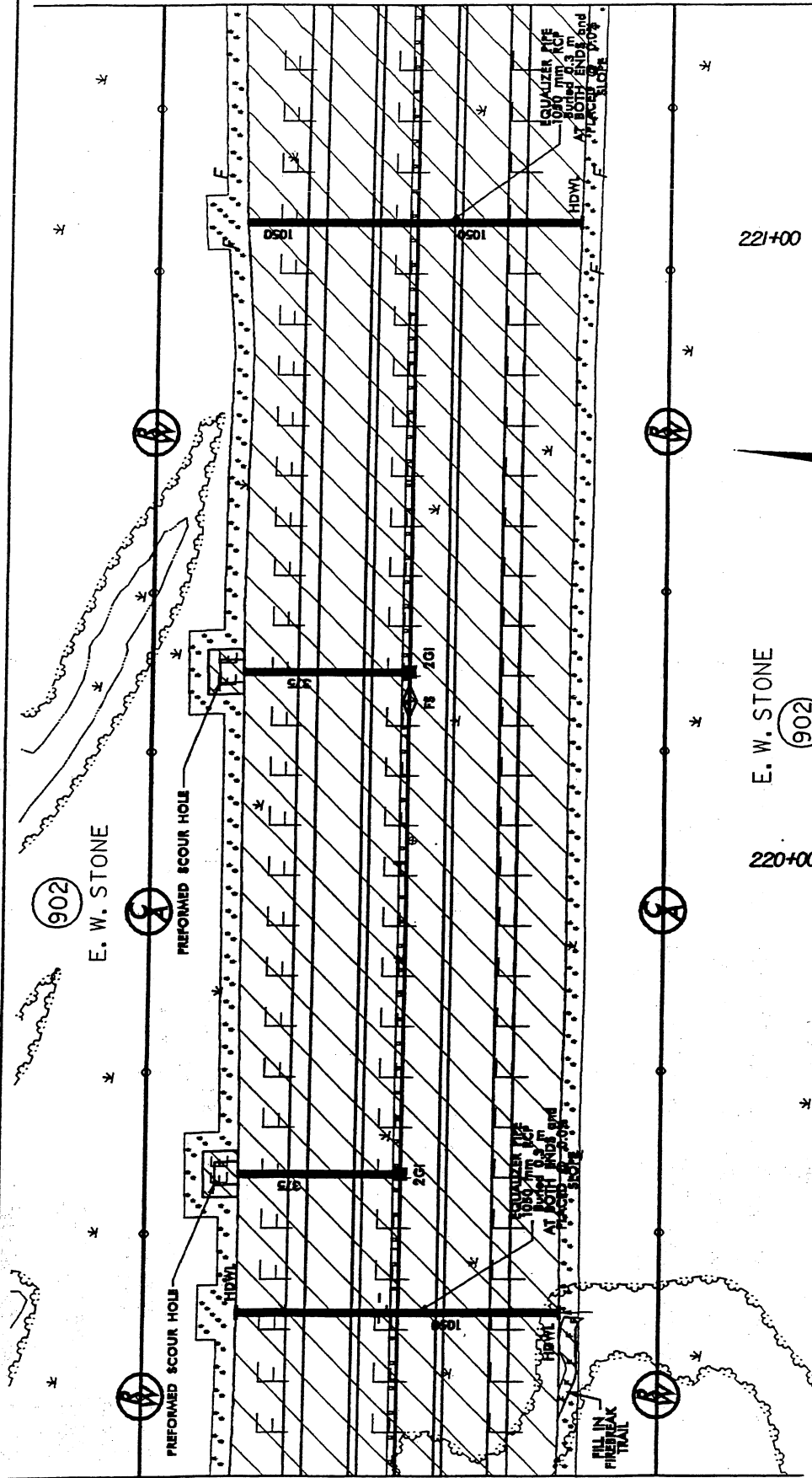
217+00

218+00

MATCH LINE C - C

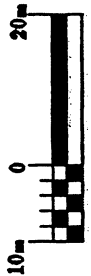
MATCH LINE B - B

NC DOT
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 6-469002T (R-513BB)
MAXTON-LUMBERTON
US 74 FROM WEST OF SR 1157
TO WEST OF SR 1164
SHEET /3 OF /8 9/18/03



PLAN VIEW
SITE # 8

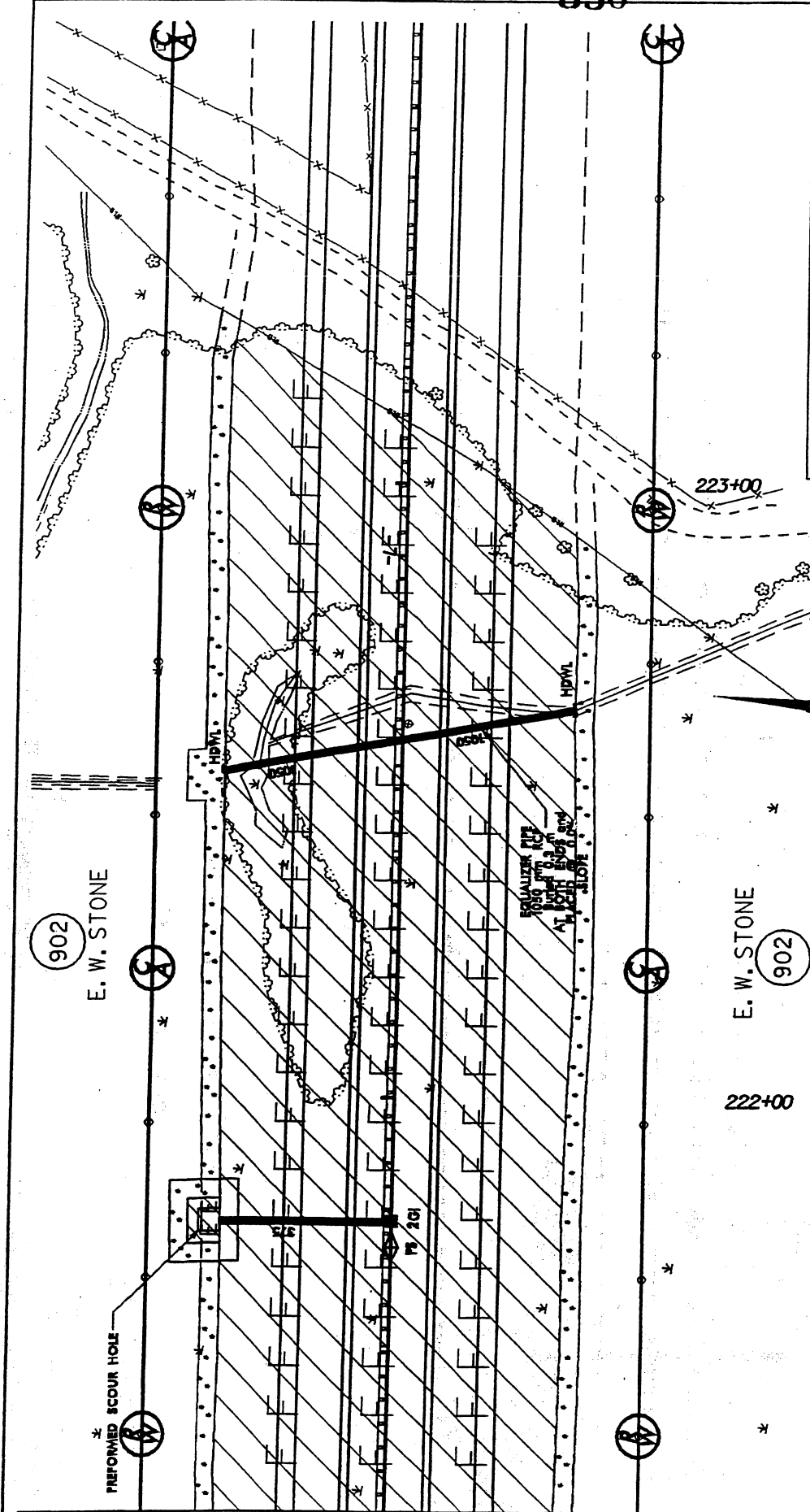
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING



E. W. STONE (902)
 220+00
 221+00

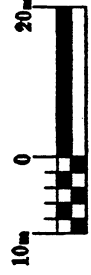
643

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 14 OF 18 9/18/03



PLAN VIEW
SITE # 8

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING



HORIZONTAL SCALE

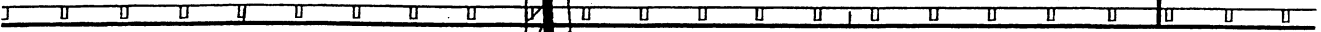
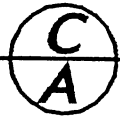
351

JOHN W. BRADLEY, JR.

31



CL B RIPRAP



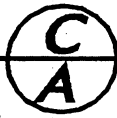
-L-

1200

1200

BURIED 0.3 m. AT BOTH ENDS

HDWL

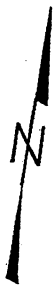


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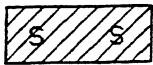
JOHN W. BRADLEY, JR.

230+00

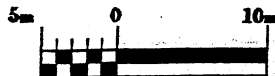
229+40



PLAN VIEW SITE # 9



DENOTES FILL IN SURFACE WATER



HORIZONTAL SCALE

NCDOT
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002T (R-513BB)
 MAXTON-LUMBERTON
 US 74 FROM WEST OF SR 1157
 TO WEST OF SR 1164
 SHEET 15 OF 18 9/18/03

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	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	160+92.65 to 161+44.08 -L-	NONE	0.299			0.035									
2	18+99.07 to 19+51.92 -SR5-	NONE	0.217			0.035									
3	170+04.90 to 172+15.80 -L-	1200 mm RCP	3.169		0.002	0.526				0.012					
4	188+99.69 to 191+93.48 -L-	1200 mm & 900 mm RCP	2.665		0.02	0.333									
5	194+51.36 to 195+93.06 -L-	1200 mm RCP	1.393			0.158									
6	200+20.89 -L-	750 mm RCP								0.022			246		
7	214+49.55 to 215+89.33 -L-	1200 mm RCP	1.623		0.01	0.21									
8	217+05.98 to	4 @ 1050 mm RCP	7.575		0.04	0.916									
9	229+60.27 -L-	900 mm RCP								0.047			207		
TOTALS:			16.941	0	0.072	2.213	0.069	0.012	0	453	0				

NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T (R-513BB)
MAXTON-LUMBERTON
US 74 FROM WEST OF SR 1157
TO WEST OF SR 1164

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
5	ETHEL LOWRY	3030 UNION SCHOOL RD. ROWLAND, N.C. 28383
6	LOIS OXENDINE	153 DIVINE STREET ROWLAND, N.C. 28383
18	JERRY FRANKLIN STONE	RT.1 BOX 221 ROWLAND, N.C. 28383
24	FRANCES WATTS BRITT	422 E. JONES STREET RALEIGH, N.C. 27601
25	WILLIAM DANIEL PATE	307 SERPENTINE DRIVE SOUTHERN PINES, N.C. 28387
28	WILLIAM A. McCORMICK, JR.	P.O. BOX 223 ROWLAND, N.C. 28383
30	DAVID H. FULLER	1705 N. WALNUT STREET LUMBERTON, N.C. 28358
31	JOHN W. BRADLEY, JR.	105 W. 26TH STREET LUMBERTON, N.C. 28358
902	E. W. STONE	3802 US HWY 301 ROWLAND, N.C. 28383

NCDOT

DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T (R-513BB)

MAXTON-LUMBERTON

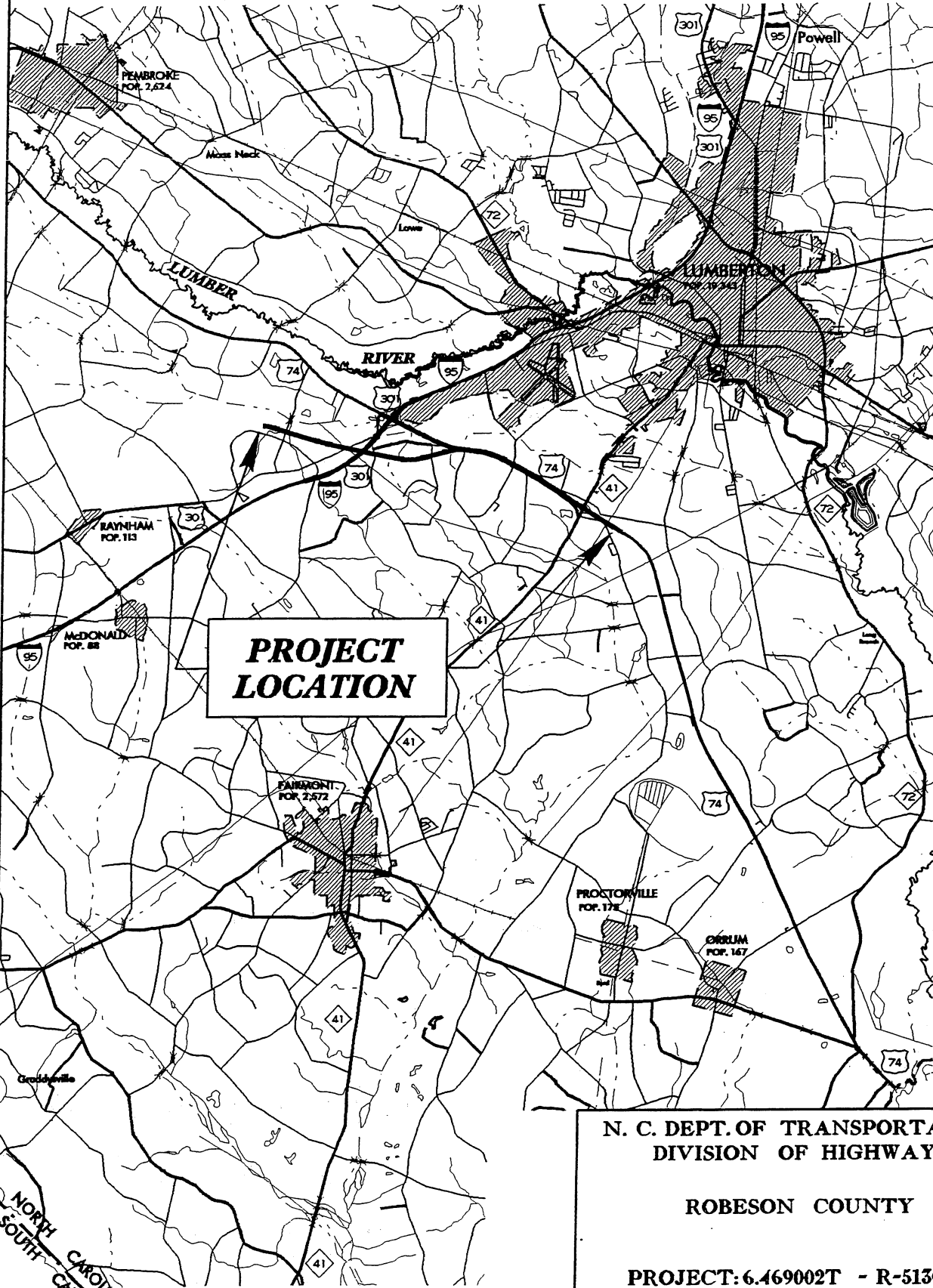
US 74 FROM WEST OF SR 1157

TO WEST OF SR1164

SHEET 18 OF 18

9/18/03

VICINITY MAP 355



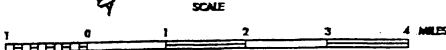
**PROJECT
LOCATION**

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

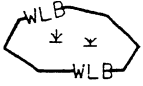
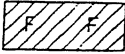





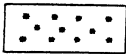
ROBESON COUNTY




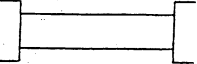
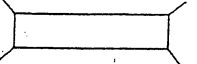


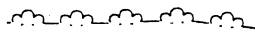

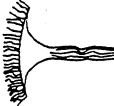


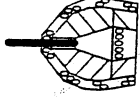
PROJECT: 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

NORTH CAROLINA
SOUTH CAROLINA



LEGEND

- WLB — WETLAND BOUNDARY
-  WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES FILL IN SURFACE WATER
-  DENOTES FILL IN SURFACE WATER (POND)
-  DENOTES TEMPORARY FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING
- ← ← FLOW DIRECTION
- TB — TOP OF BANK
- WE — EDGE OF WATER
- C --- PROP. LIMIT OF CUT
- F --- PROP. LIMIT OF FILL
- ▲ PROP. RIGHT OF WAY
- NG --- NATURAL GROUND
- PL --- PROPERTY LINE
- TDE — TEMP. DRAINAGE EASEMENT
- PDE — PERMANENT DRAINAGE EASEMENT
- EAB --- EXIST. ENDANGERED ANIMAL BOUNDARY
- EPB --- EXIST. ENDANGERED PLANT BOUNDARY
- ▽ WATER SURFACE

-  LIVE STAKES
-  BOULDER
- COIR FIBER ROLLS
-  ADJACENT PROPERTY OWNER OR PARCEL NUMBER
-  PROPOSED BRIDGE
-  PROPOSED BOX CULVERT
-  PROPOSED PIPE CULVERT
- (DASHED LINES DENOTE EXISTING STRUCTURES)
-  SINGLE TREE
-  WOODS LINE
-  DRAINAGE INLET
-  ROOTWAD
-  VANE
-  RIP RAP
-  RIP RAP ENERGY DISSIPATOR BASIN

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002T - R-513C

RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

SITE MAP



BEGIN PROJECT

END PROJECT

SITE 1
SITE 1A

SITE 6

SITE 7

SITE 2A
SITE 2

SITE 3

SITE 8




SITE 4

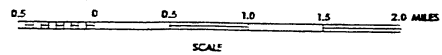
SITE 9

SITE 5

Back Swamp

LUMBERTON

 **WETLAND SITES**
 **SURFACE WATER SITES**
 **COMB. WETLAND AND SURFACE WATER SITES**



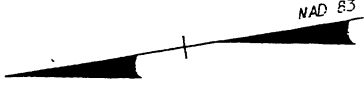
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469200T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R.1164
TO EAST OF N.C. 41

SHEET 3 OF 36

REV. OCT. 2003
JUNE, 2000



MATCH LINE STA. 251+80.00
MATCH TO SITE 1 - SHT 2

1

JOHN JACOBS
AND RON JACOBS

SHEET 1

SITE 1

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R.1164
TO EAST OF N.C.41

SHEET 4 OF 36
JUNE, 2000
Rev. OCT., 2003
Rev. APRIL, 2004

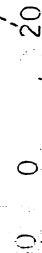
2

DEXTER LOCKLEAR AND WIFE,
DEBORAH ANN LOCKLEAR

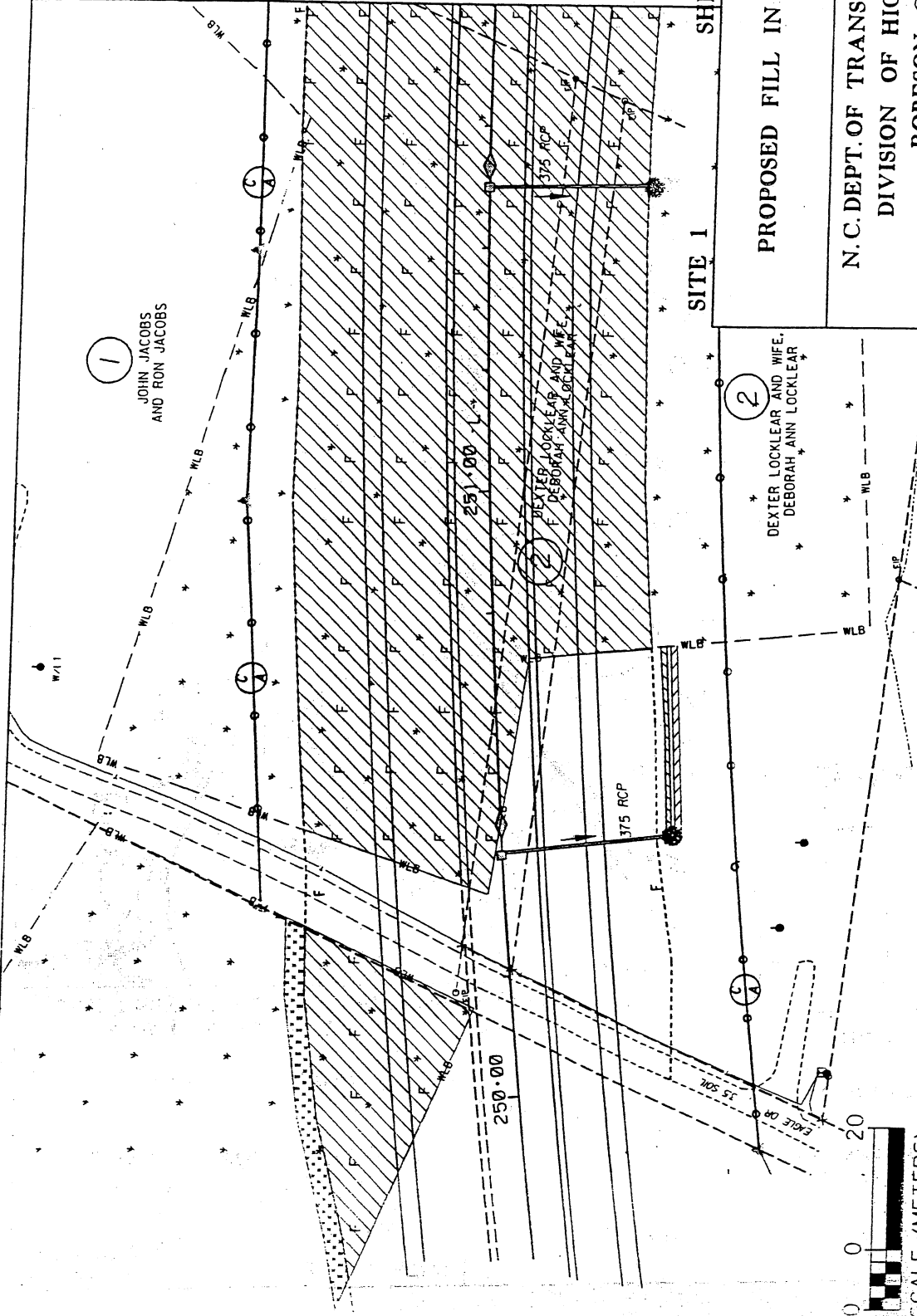
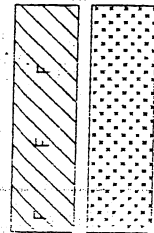
PLAN VIEW
SITE 1

DENOTES FILL
IN WETLAND

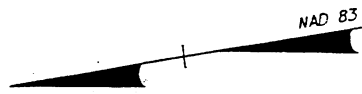
DENOTES
MECHANIZED
CLEARING

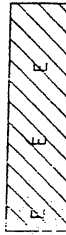
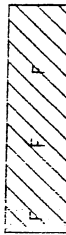



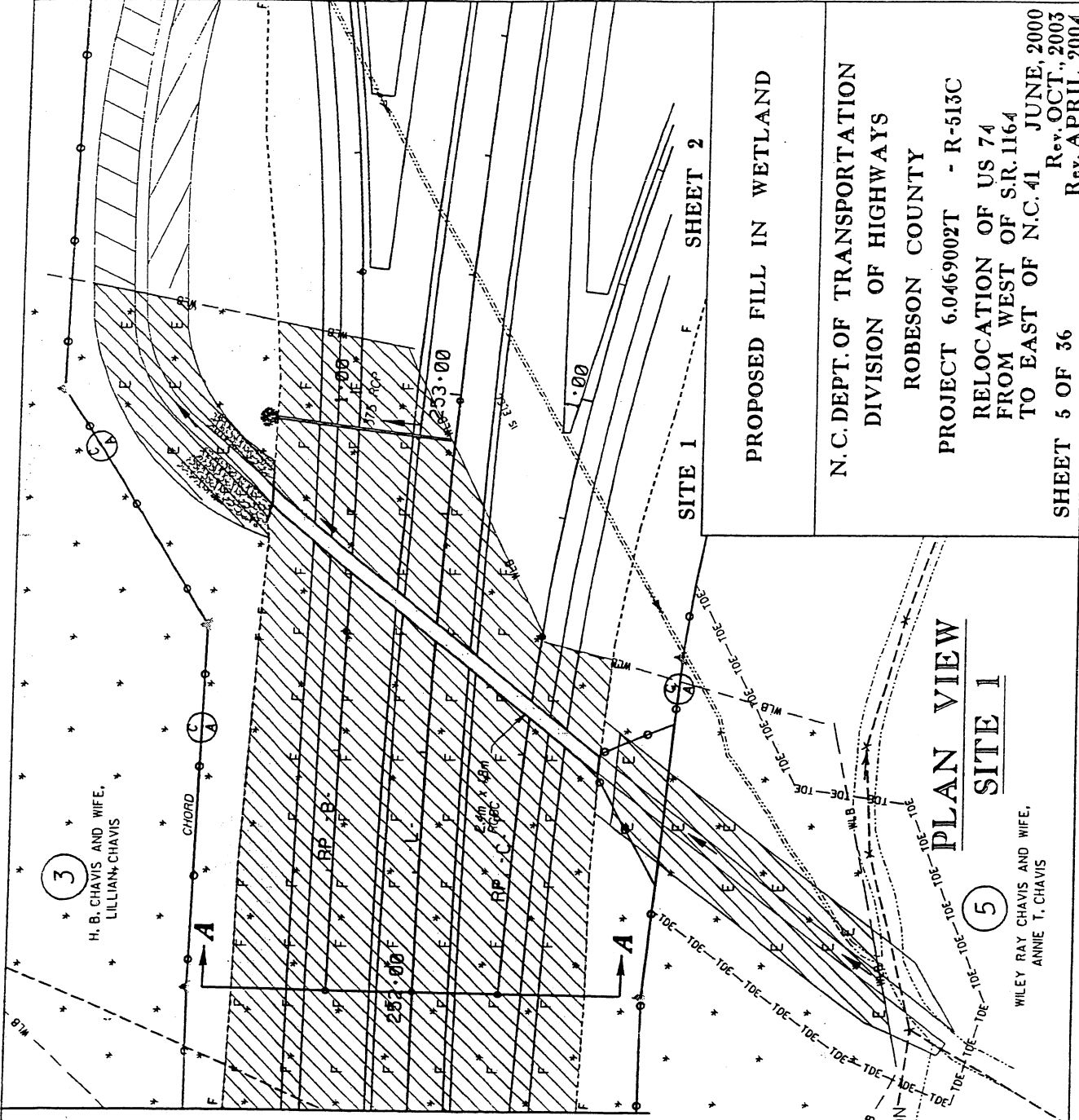
SCALE (METERS)



MATCH LINE STA. 251+80.00
MATCH TO SITE 1 - SHT 1



-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



3

H. B. CHAVIS AND WIFE,
LILLIAN CHAVIS

CHORD

RP

RP

RP

RP

5

WILEY RAY CHAVIS AND WIFE,
ANNIE T. CHAVIS

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.0469002T - R-513C

RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

JUNE, 2000
Rev. OCT., 2003
Rev. APRIL, 2004

SHEET 5 OF 36

PLAN VIEW
SITE 1

SITE 1 SHEET 2

STA 250+36.00 -L-
BEGIN GR. EL. = 44.92

PROP. GRADE LINE (-) 0.3000%

GROUND LINE

WETLANDS

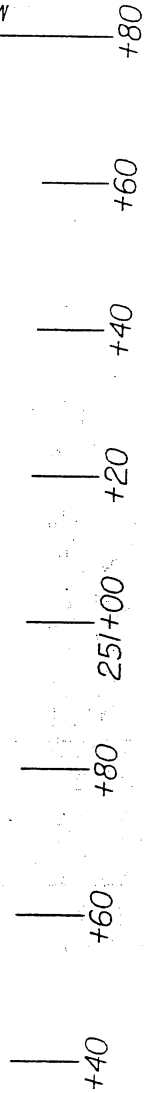
MATCH TO SITE 1-SHT 4

50

46

42

38



SITE 1 SHEET 3

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469200T - R-513C

RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 6 OF 36

JUNE, 2000

PROFILE VIEW

SITE 1



HORIZONTAL SCALE



VERTICAL SCALE

50

46

42

38

50
46
42
38

MATCH TO SITE 1-SHT 3

PROP. GRADE LINE

(-) 0.3000%

GROUND LINE

WETLANDS

24m x 18m N.C.D.C.

+80 252+00 +20 +40 +60 +80 253+00 +20

SITE 1 SHEET 4

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469200T - R-513C

RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 7 OF 36 JUNE, 2000

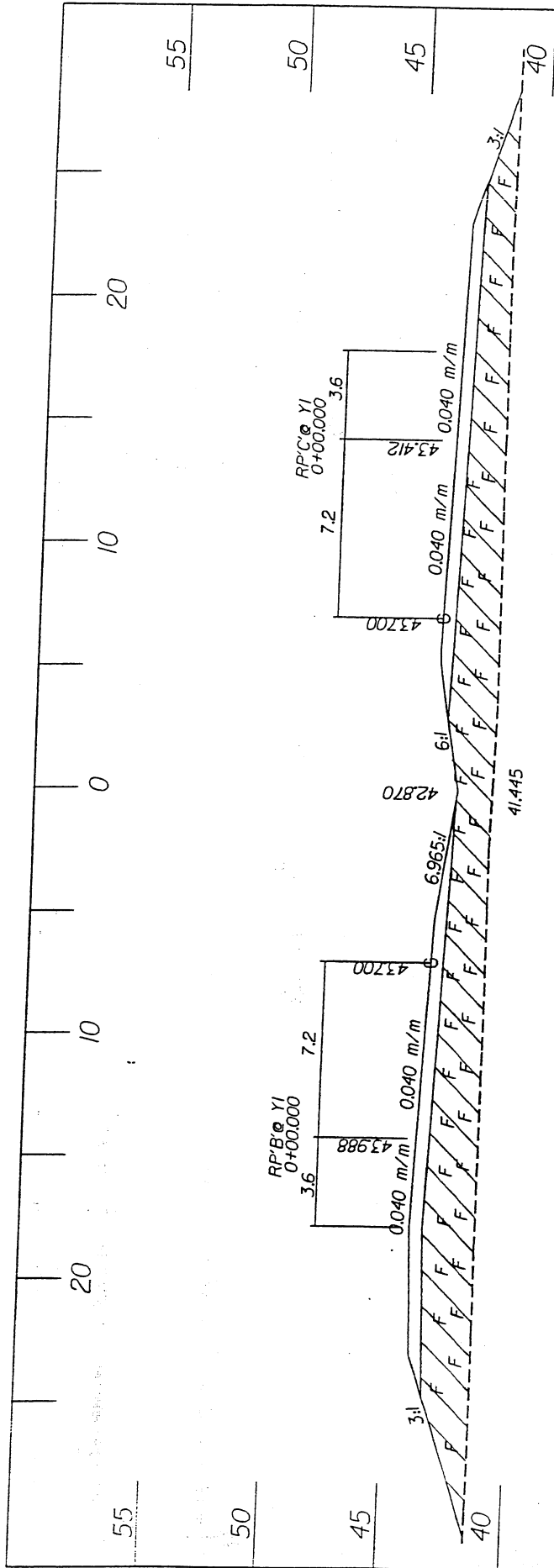
PROFILE VIEW
SITE 1



HORIZONTAL SCALE



VERTICAL SCALE



252+00.000

SECTION A-A

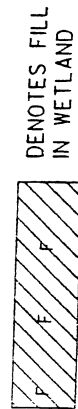
SITE 1 SHEET 5

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

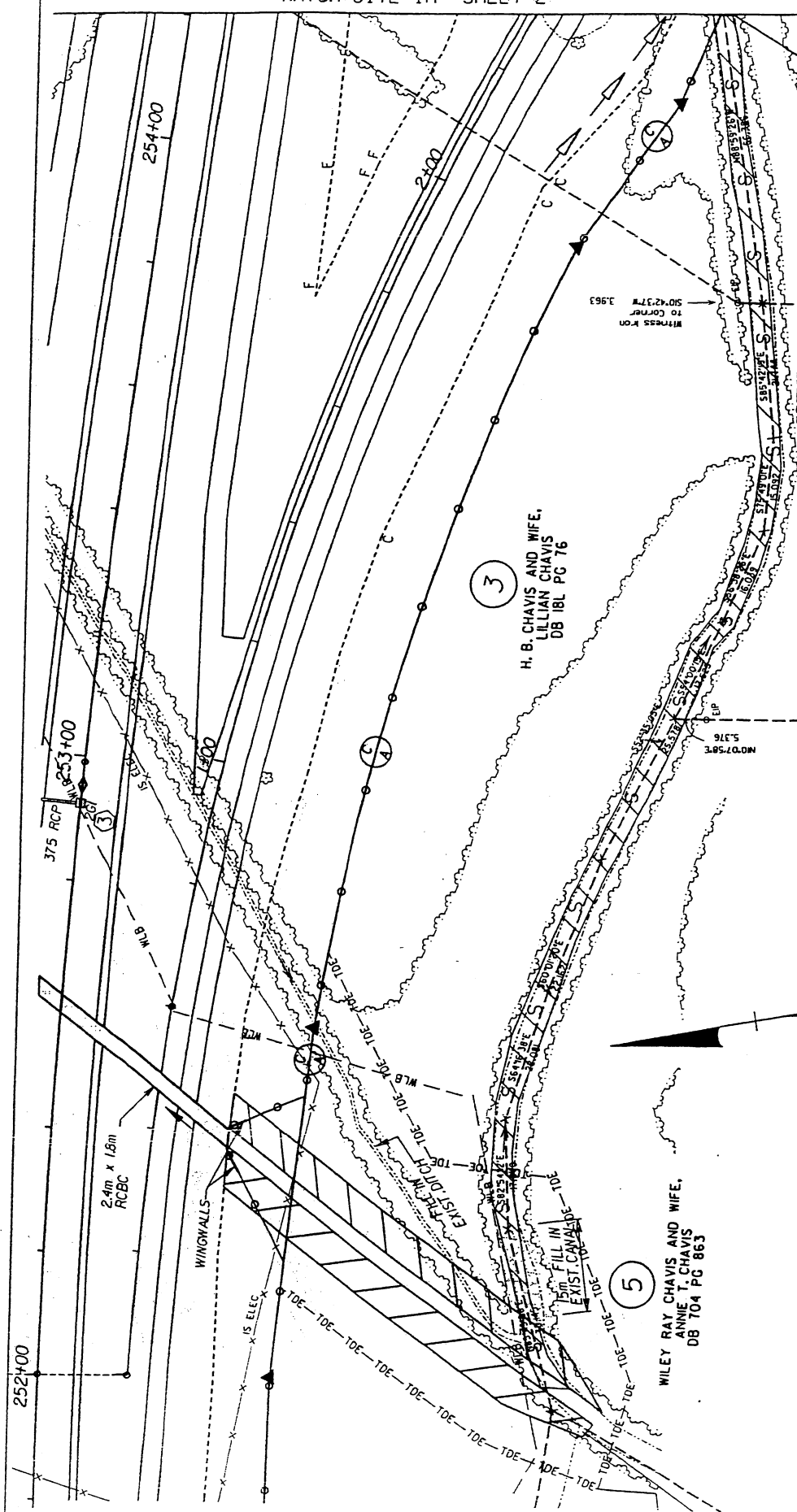
SHEET 8 OF 36
 JUNE, 2000
 Rev. APRIL, 2004

CROSS-SECTION
 SITE 1



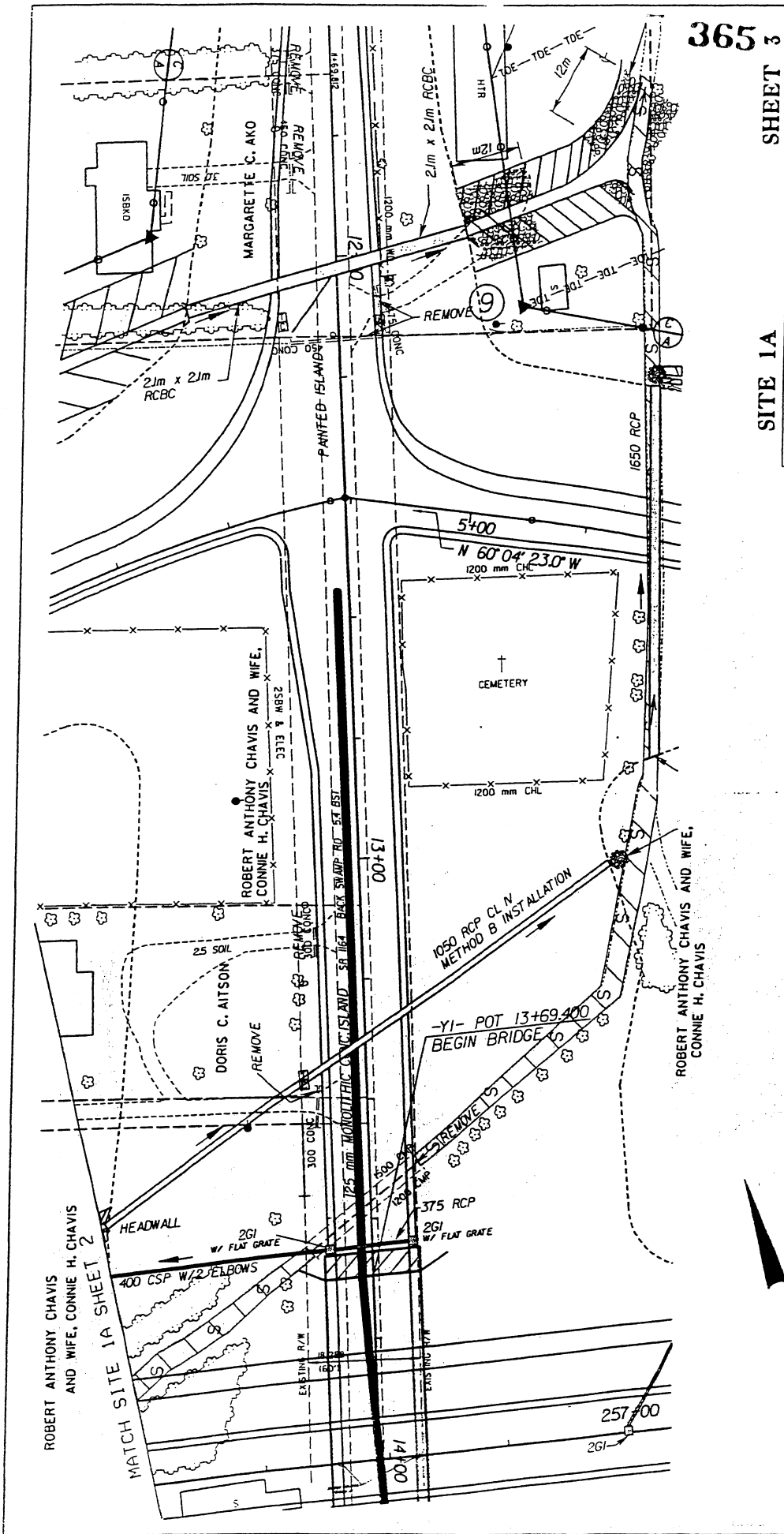
PROPOSED FILL IN WETLAND
 N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.46902T - R-513C
 RELOCATION OF US 74
 FROM WEST OF S.R. 1164
 TO EAST OF N.C. 41
 REV. OCT., 2003
 JUNE, 2000

SHEET 9 OF 36



PLAN VIEW SITE 1A





365

SITE 1A

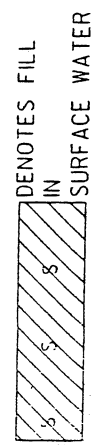
SHEET 3

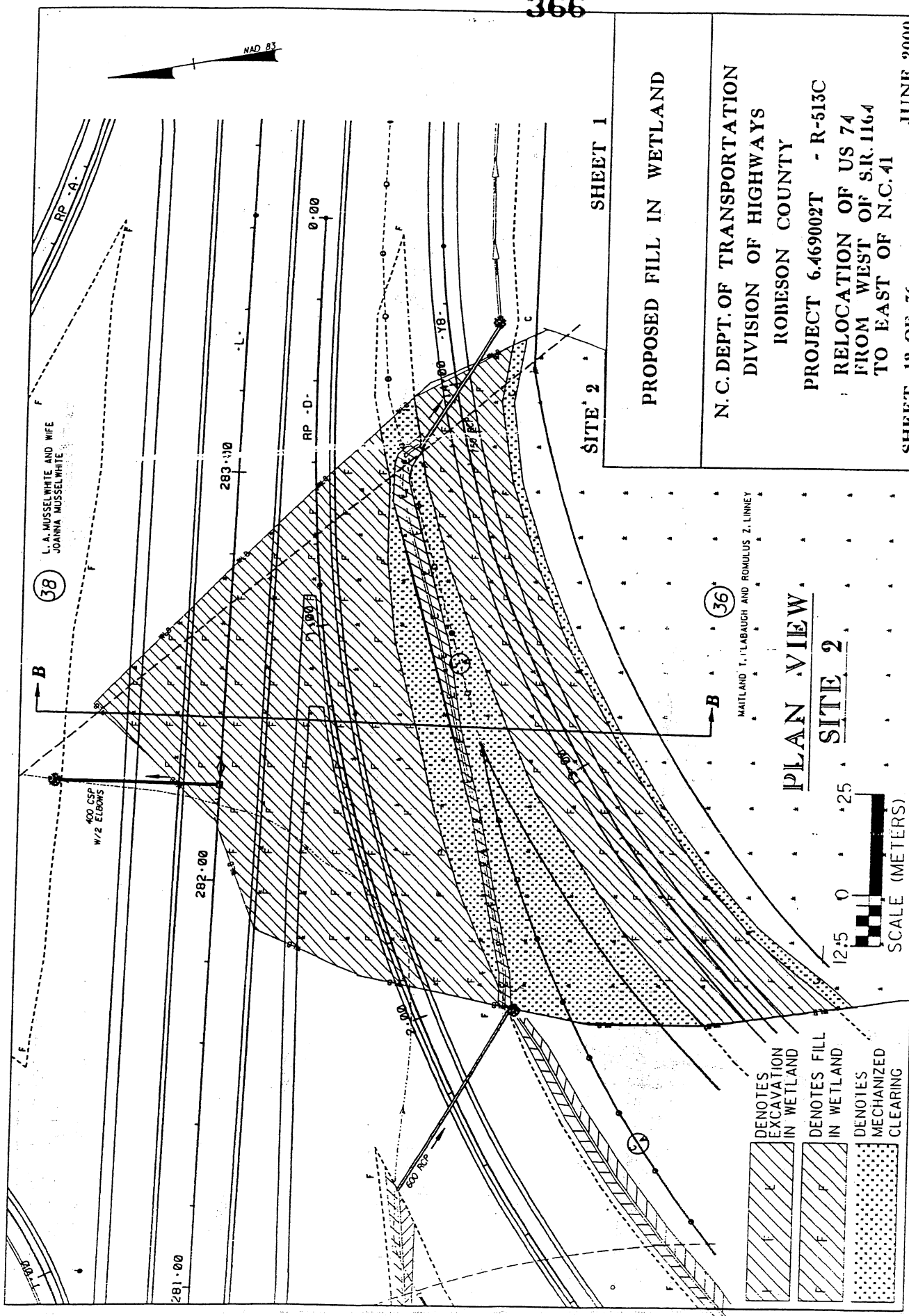
N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF US 74
 FROM WEST OF S.R. 1164
 TO EAST OF N.C. 41

SHEET 11 OF 36

REV. OCT., 2003
 JUNE, 2000

PLAN VIEW
 SITE 1A





38




L.A. MUSSELWHITE AND WIFE
JOANNA MUSSELWHITE

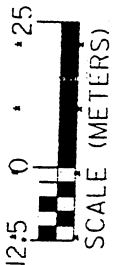
36

MATLAND T. LABAUGH AND ROMULUS Z. LINNEY

PLAN VIEW

SITE 2

-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



SHEET 1

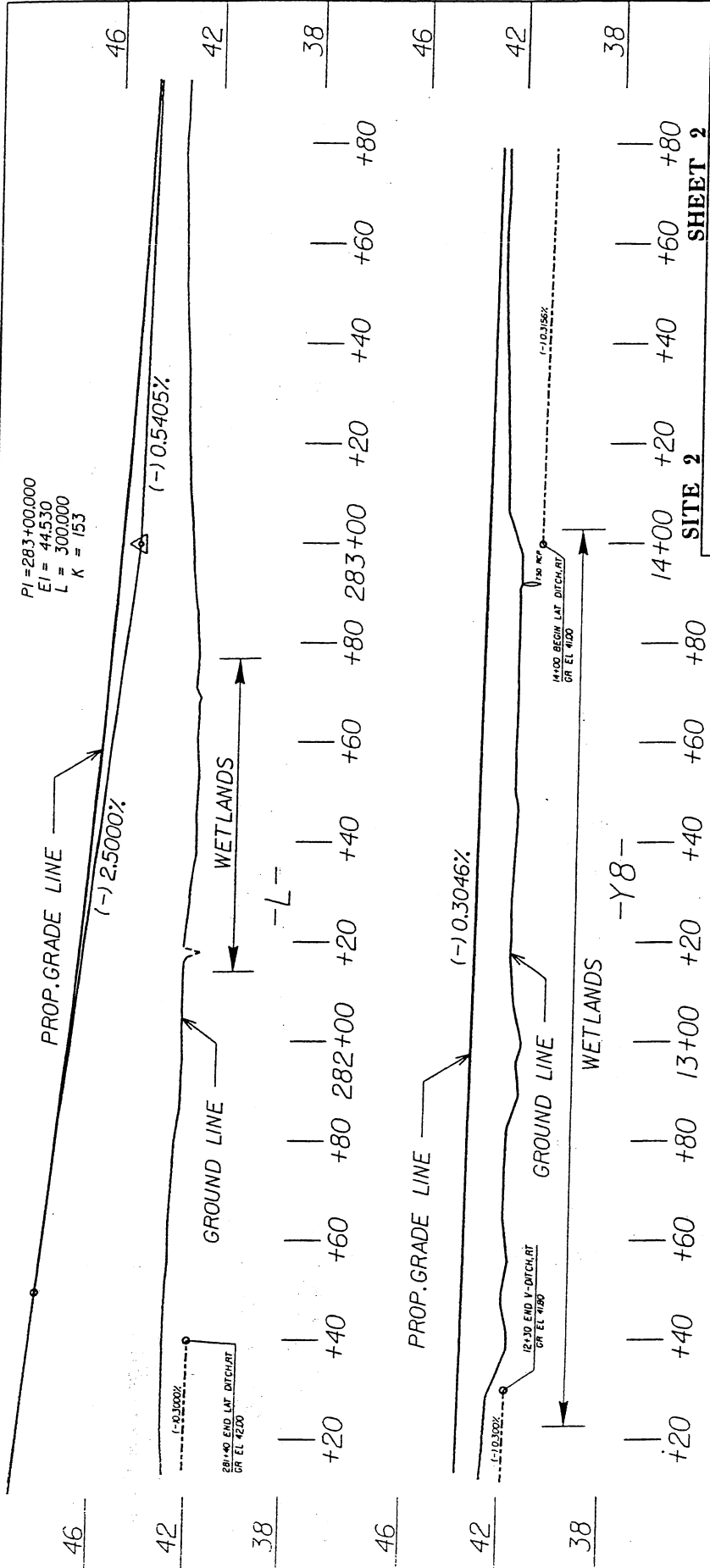
SITE 2

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY

PROJECT 6.469002T - R-513C
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

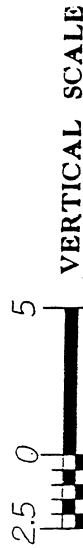
SHEET 12 OF 36
JUNE 2000
Rev. APRIL, 2004

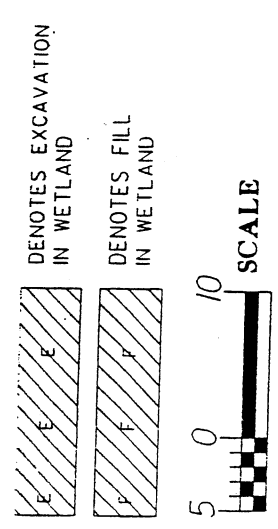
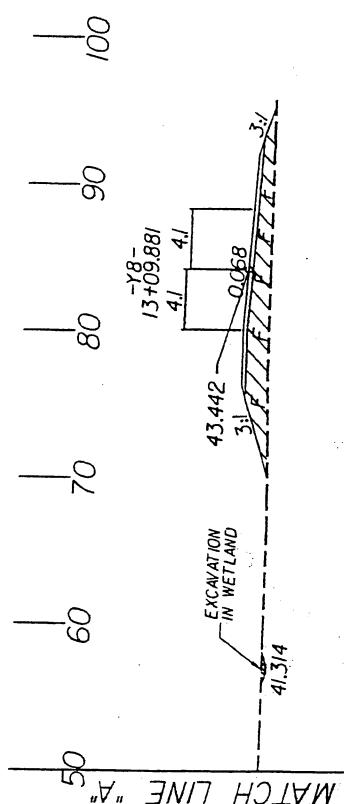
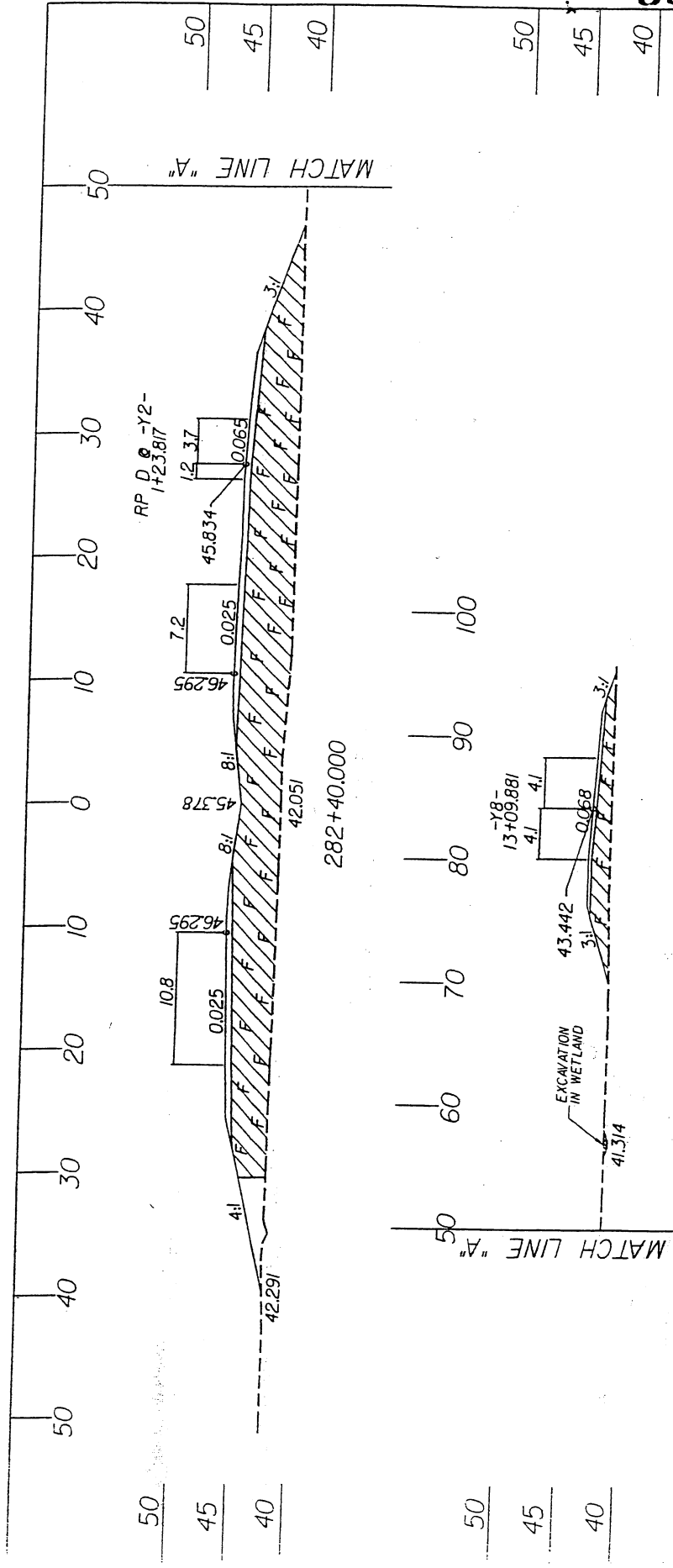


PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469200T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

PROFILE VIEW
SITE 2





SITE 2 SHEET 3

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.462002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

SHEET 14 OF 36 JUNE, 2000
 Rev. APRIL, 2004

SECTION B-B

CROSS-SECTION

SITE 2

PROPOSED FILL IN WETLAND

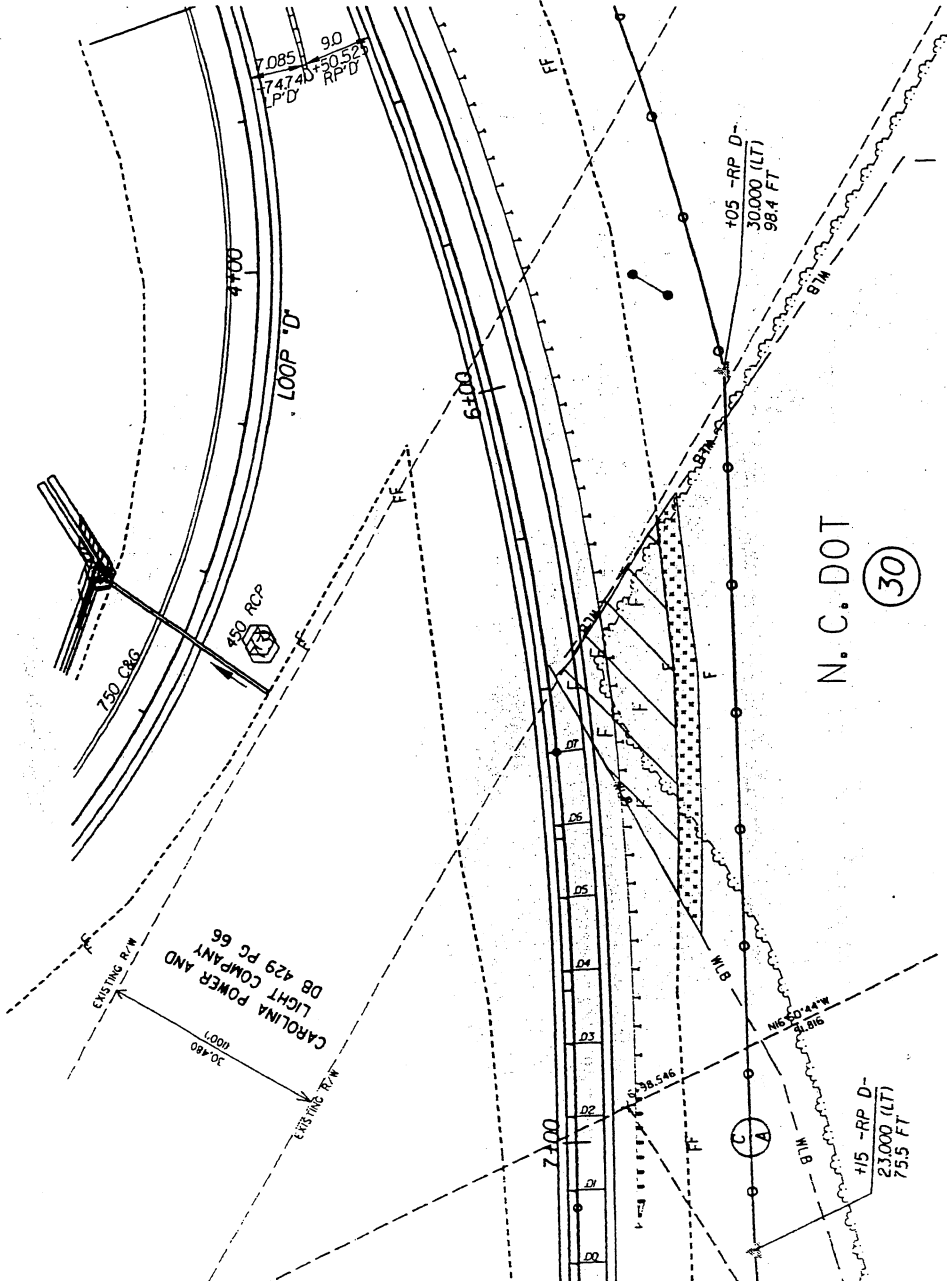
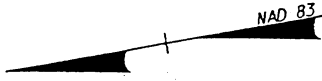
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

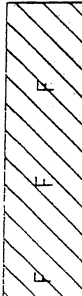
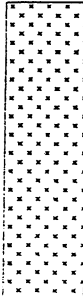
PROJECT 6.469002T - R-513C

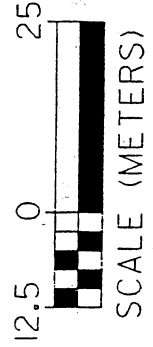
RELOCATION OF US 74
FROM WEST OF S.R. 1164
TO EAST OF N.C. 41

SHEET 15 OF 36
OCTOBER, 2003
Rev. APRIL, 2004

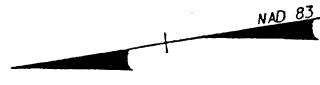


PLAN VIEW
SITE 2A

 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING



MATCH LINE STA. 286+60.00
MATCH TO SITE 3 - SHT 2



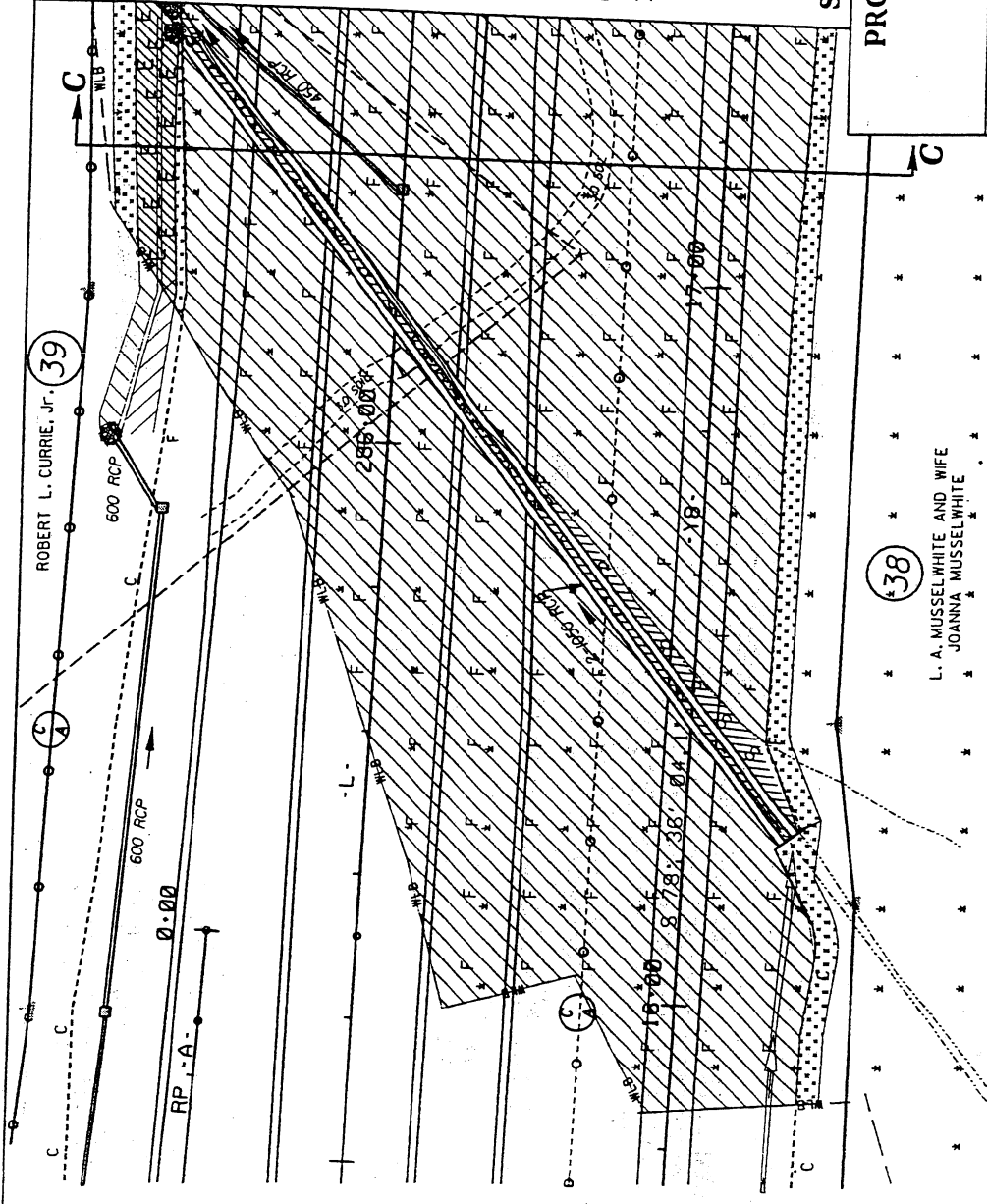
SITE 3 SHEET 1

PROPOSED FILL IN WETLAND
AND
PROPOSED FILL IN
SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY.

PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74 FROM
WEST OF S.R. 1164 TO EAST OF N.C. 41

SHEET 16 OF 36
JUNE, 2000
Rev. APRIL, 2004



(38)
L. A. MUSSELWHITE AND WIFE
JOANNA MUSSELWHITE

PLAN VIEW
SITE 3

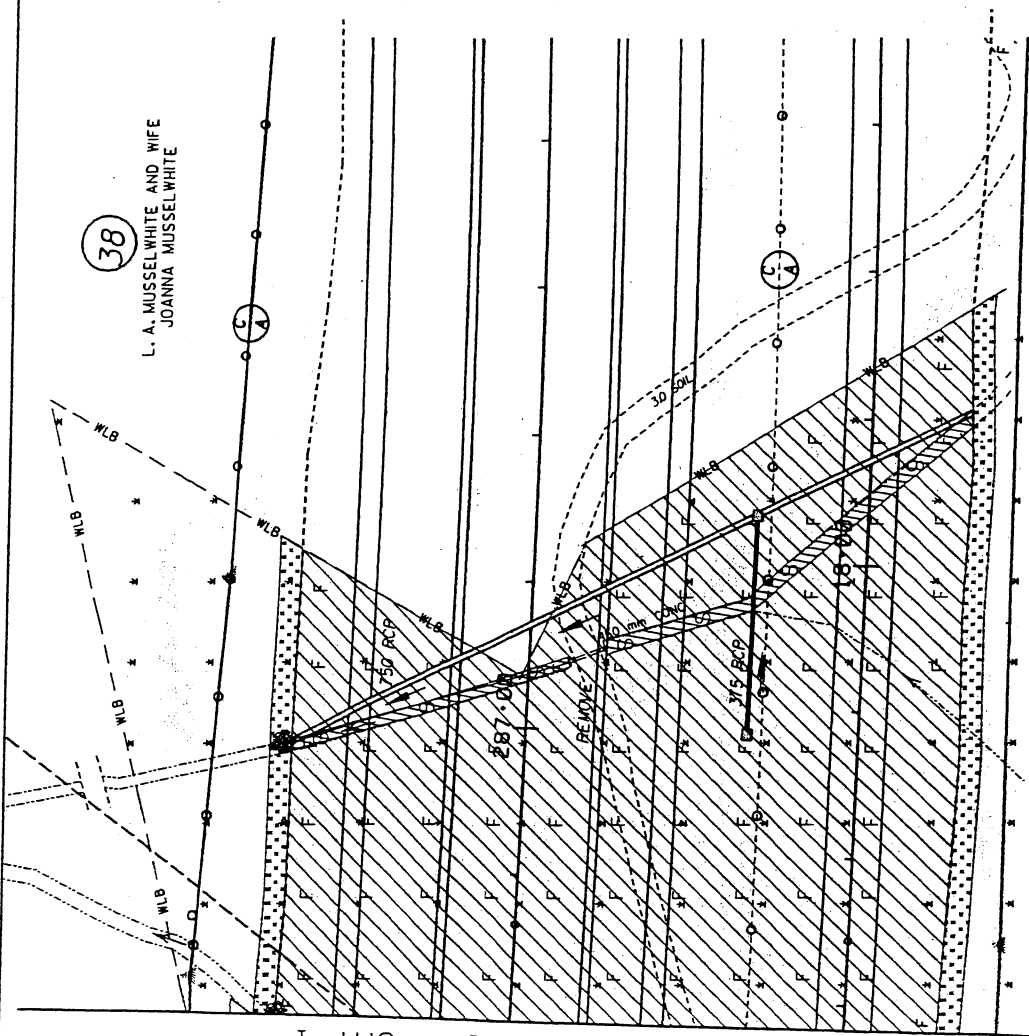


SCALE (METERS)

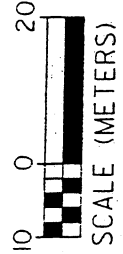
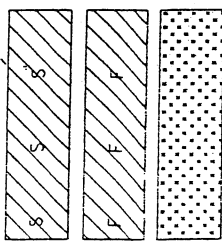
38

L. A. MUSSELWHITE AND WIFE
JOANNA MUSSELWHITE

NAO 83



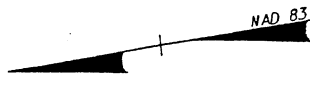
MATCH LINE STA. 286+60.00
TO SITE 3 - SHT 1



PLAN VIEW
SITE 3

SITE 3 SHEET 2
PROPOSED FILL IN WETLAND
AND
PROPOSED FILL IN
SURFACE WATER

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74 FROM
WEST OF S.R. 1164 TO EAST OF N.C. 41
JUNE, 2000
Rev. OCT, 2003
SHEET 17 OF 36 Rev. APRIL, 2004



MATCH LINE STA. 286+60.00
MATCH TO SITE 3 - SHT 2

SHEET 1a

SITE 3

PROPOSED FILL IN WETLAND
AND
PROPOSED FILL IN
SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6-469002T - R-513C
RELOCATION OF U.S. 74 FROM
WEST OF S.R. 1164 TO EAST OF N.C. 41

JUNE, 2000
REV 3/2004
Rev. APRIL, 2004

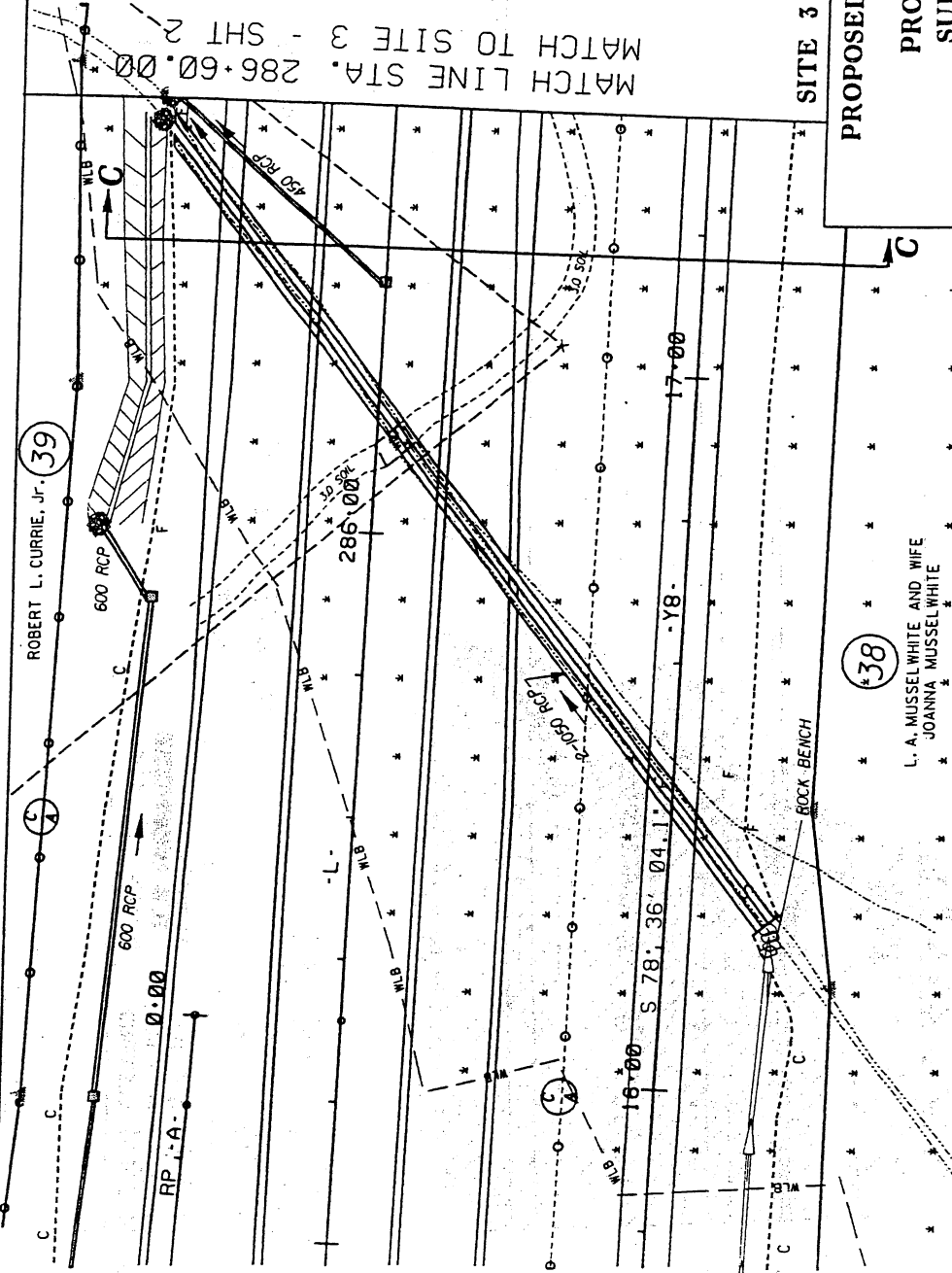
SHEET 18 OF 36

39

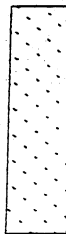
ROBERT L. CURRIE, JR.

38

L. A. MUSSELWHITE AND WIFE
JOANNA MUSSELWHITE

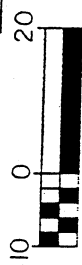


BOUSSINESQ EQUATION
DITCH IMPACTS



PLAN VIEW

SITE 3



SCALE (METERS)

46

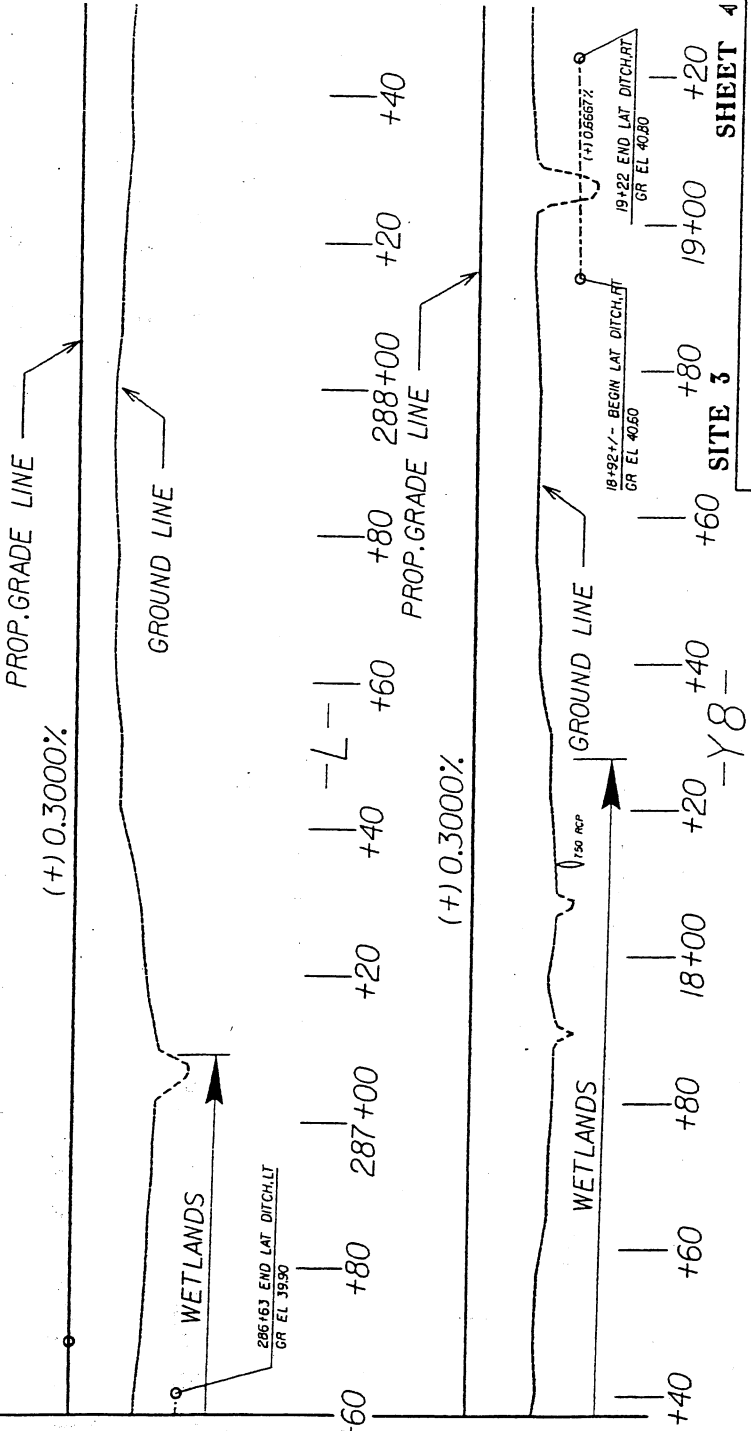
42

38

46

42

38



PROFILE VIEW
SITE 3



HORIZONTAL SCALE



VERTICAL SCALE

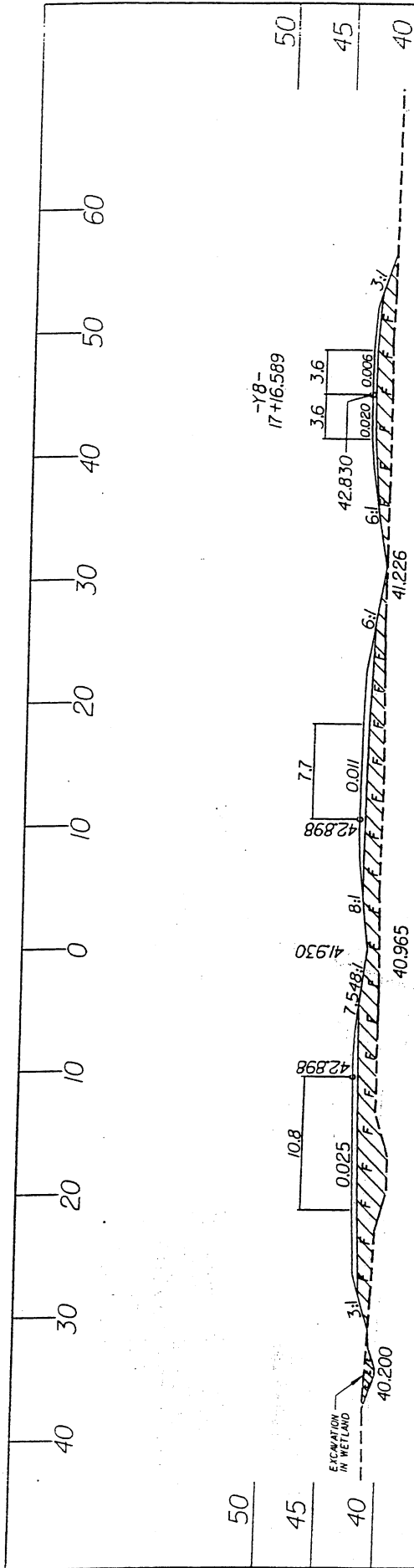
PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY

PROJECT 6.469200T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 20 OF 36

JUNE, 2000



286+40.000

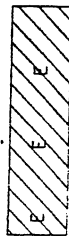
SECTION C-C

SITE 3 SHEET 5

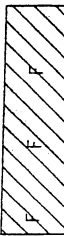
PROPOSED FILL IN WETLAND

CROSS-SECTION
SITE 3

DENOTES EXCAVATION
IN WETLAND

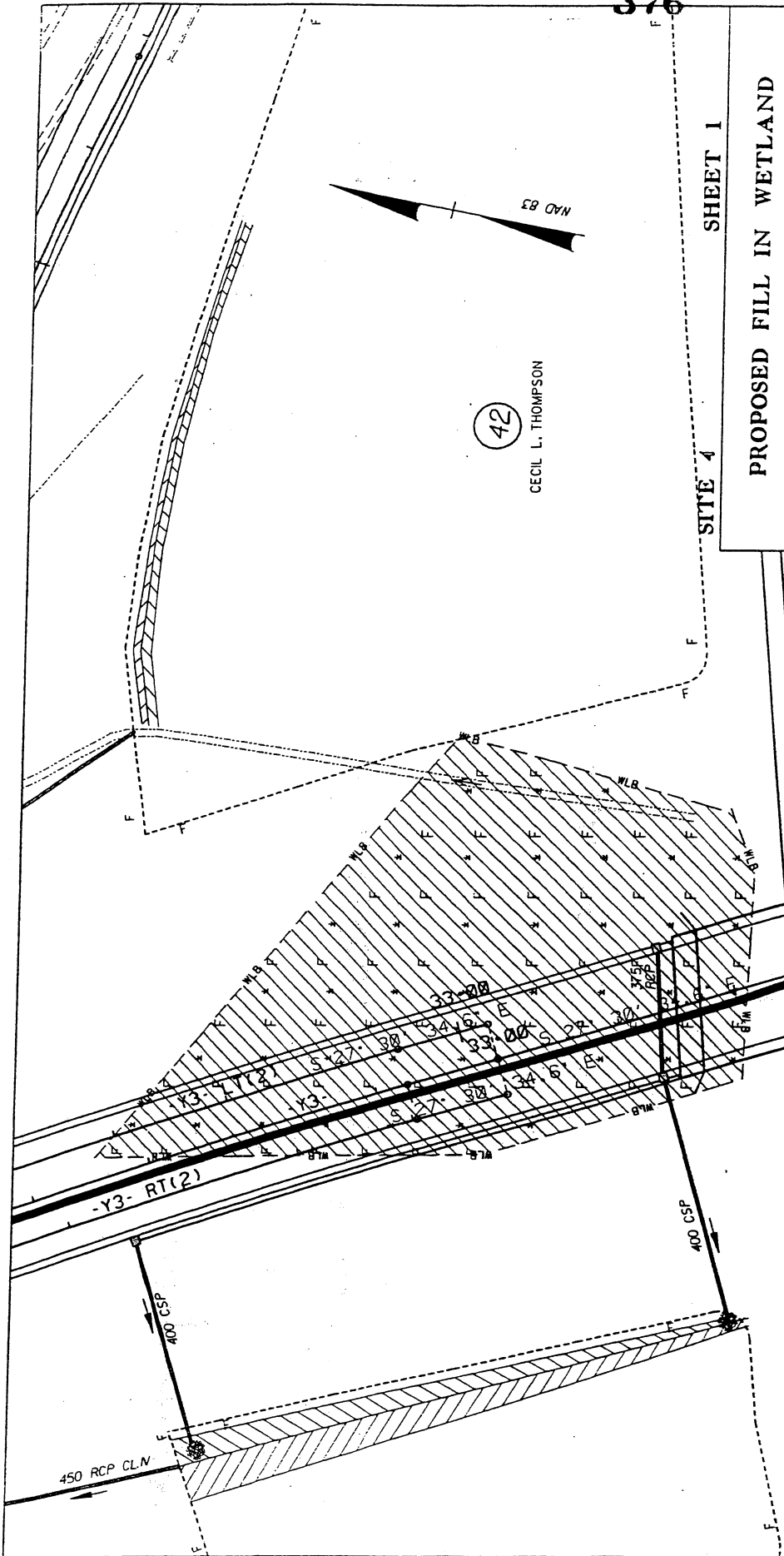


DENOTES FILL
IN WETLAND



SHEET 21 OF 36
JUNE, 2000
Rev. APRIL, 2004

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41



SHEET 1

SITE 4

PROPOSED FILL IN WETLAND

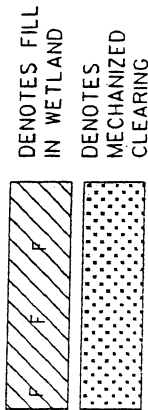
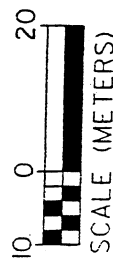
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

6.469002T - R-513C

RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

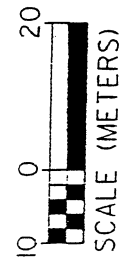
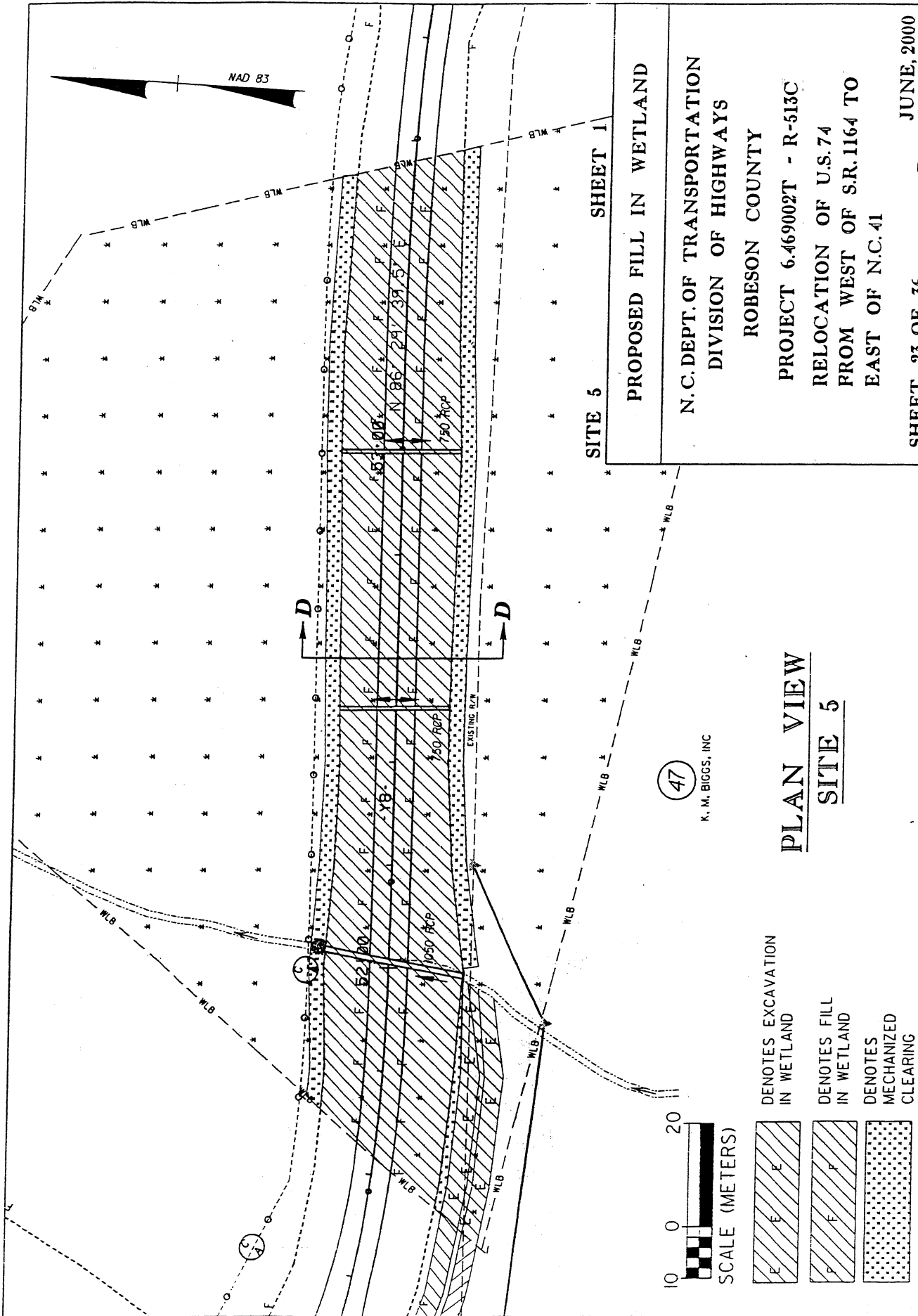
SHEET 22 OF 36 JUNE, 2000

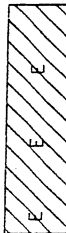
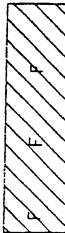



PLAN VIEW
SITE 4

299.00

-L-



-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

47

K. M. BIGGS, INC

PLAN VIEW SITE 5

SITE 5 SHEET 1

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

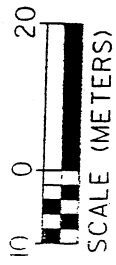
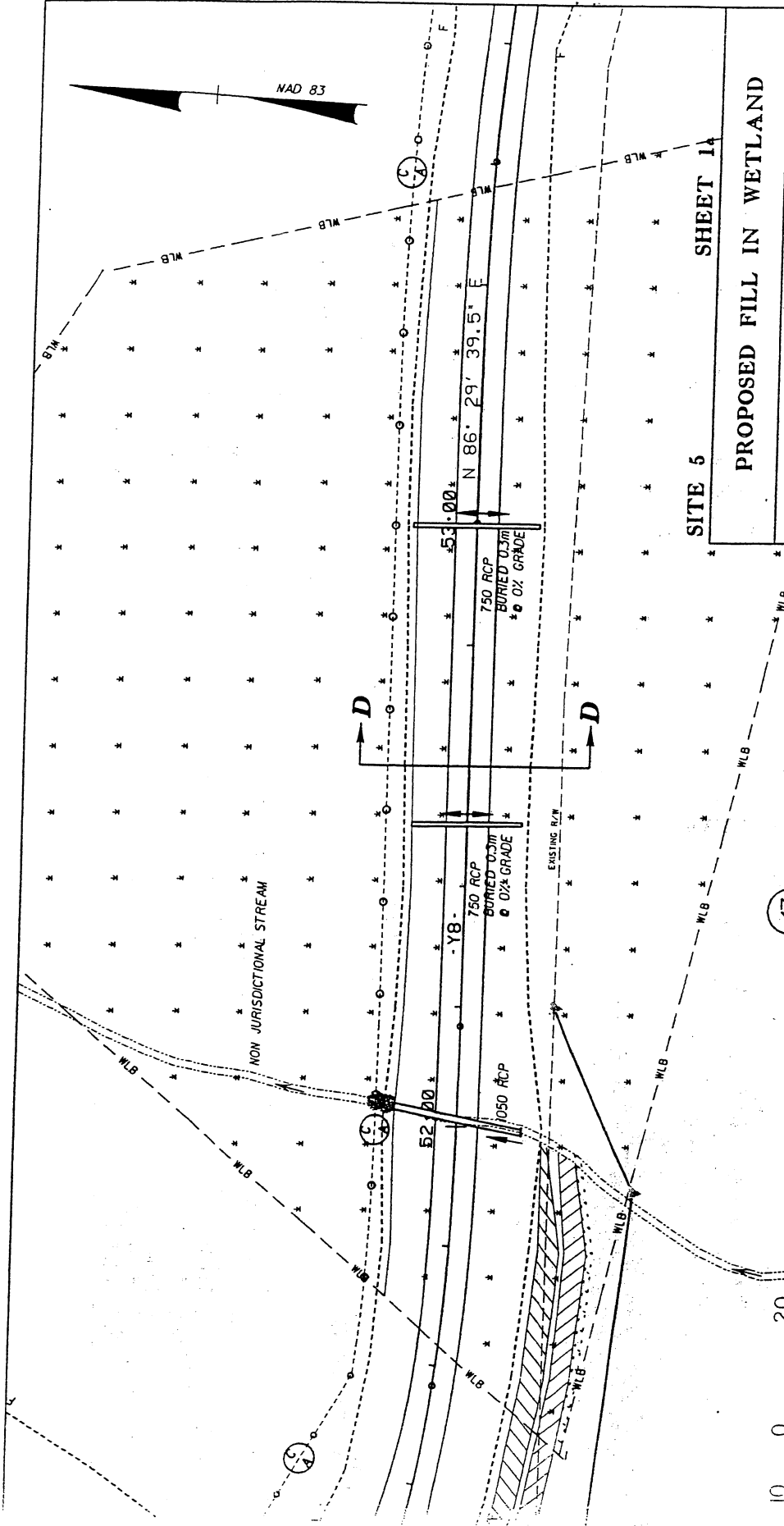
ROBESON COUNTY

PROJECT 6.469002T - R-513C

RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 23 OF 36

JUNE, 2000
Rev. APRIL, 2004



BOUSSINESQ EQUATION
DITCH IMPACTS

(47)

K. M. BIGGS, INC

PLAN VIEW
SITE 5

SITE 5 SHEET 1A

PROPOSED FILL IN WETLAND

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT 6.469002T - R-513C

RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

JUNE, 2000
REV 3/2004
Rev. APRIL, 2004

SHEET 24 OF 36

46

42

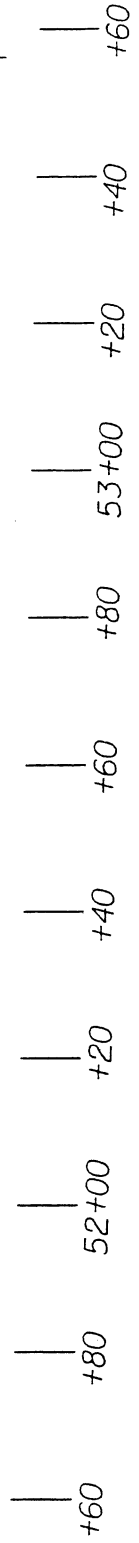
38

PROP. GRADE LINE (-) 0.5000%

GROUND LINE

WETLANDS

1:10.000%
M 50 RCP
52+00 END LAT DITCH RT
GR EL 4020



SITE 5 SHEET 2

PROPOSED FILL IN WETLAND

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

SHEET 25 OF 36 JUNE, 2000

PROFILE VIEW
SITE 5



HORIZONTAL SCALE

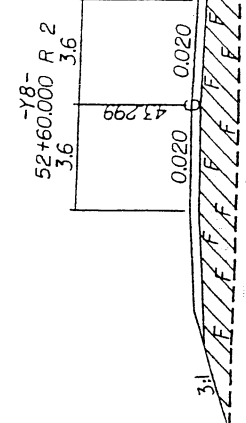


VERTICAL SCALE

50

45

40



52+60.000

SECTION D-D

50

45

40

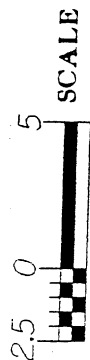
SITE 5

SHEET 3

PROPOSED FILL IN WETLAND

CROSS-SECTION

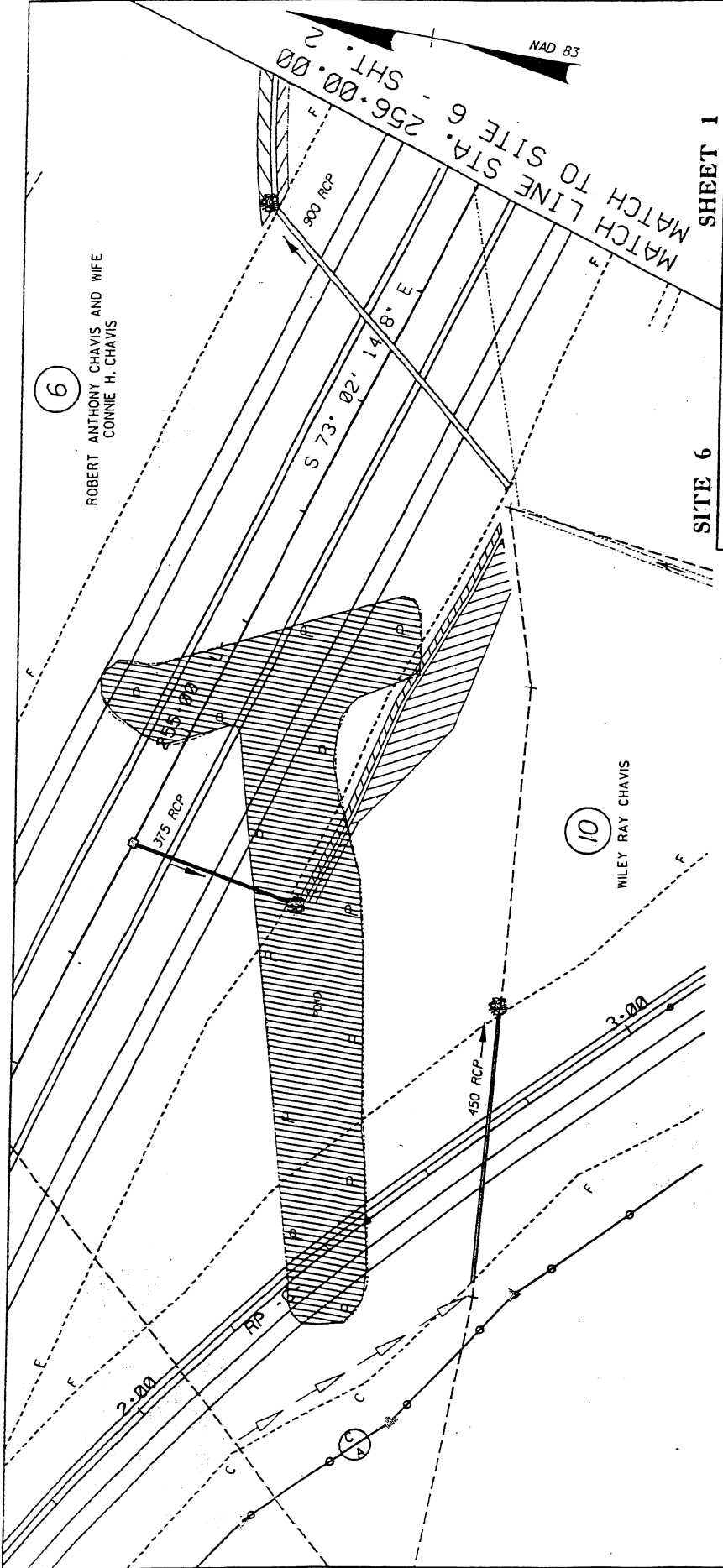
SITE 5



N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S.74
 FROM WEST OF S.R.1164 TO
 EAST OF N.C.41

SHEET 26 OF 36

JUNE, 2000
Rev. APRIL, 2004



6

ROBERT ANTHONY CHAVIS AND WIFE
CONNIE H. CHAVIS

10

WILEY RAY CHAVIS

MATCH LINE STA. 256+00.00 SHT. 2
NAD 83

SITE 6 SHEET 1

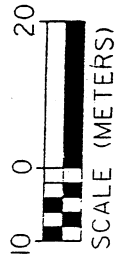
PROPOSED FILL IN
SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 63469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

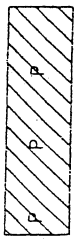
REV. OCT., 2003
JUNE, 2000

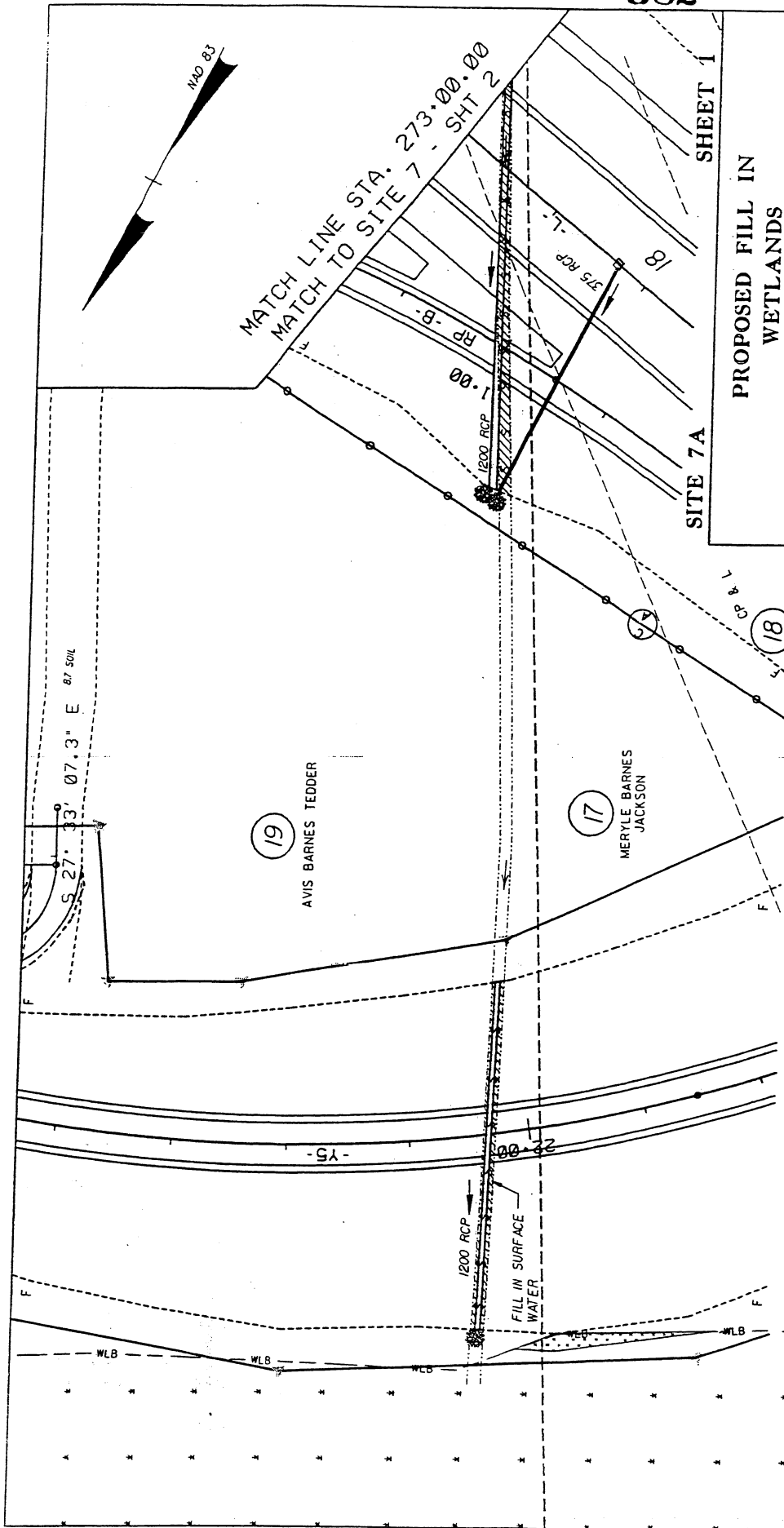
SHEET 27 OF 36

PLAN VIEW
SITE 6



DENOTES FILL IN
POND





PROPOSED FILL IN
WETLANDS

SITE 7A SHEET 1

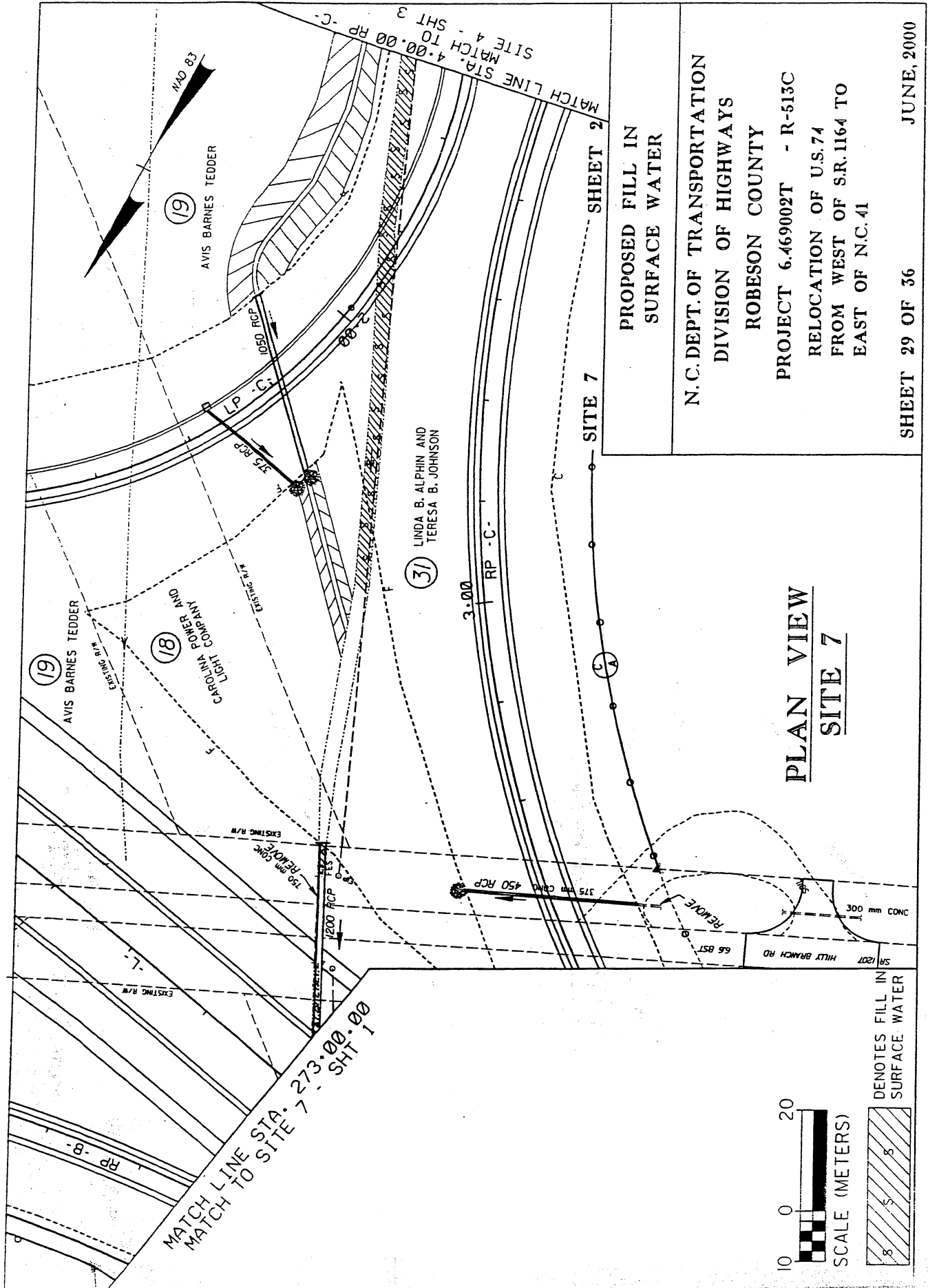
N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

SHEET 28 OF 36 OCTOBER, 2003

PLAN VIEW
SITE 7A



DENOTES
MECHANIZED
CLEARING



PLAN VIEW
SITE 7

PROPOSED FILL IN
SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY

PROJECT 6.469002T - R-513C
RELOCATION OF U.S. 74
FROM WEST OF S.R. 1164 TO
EAST OF N.C. 41

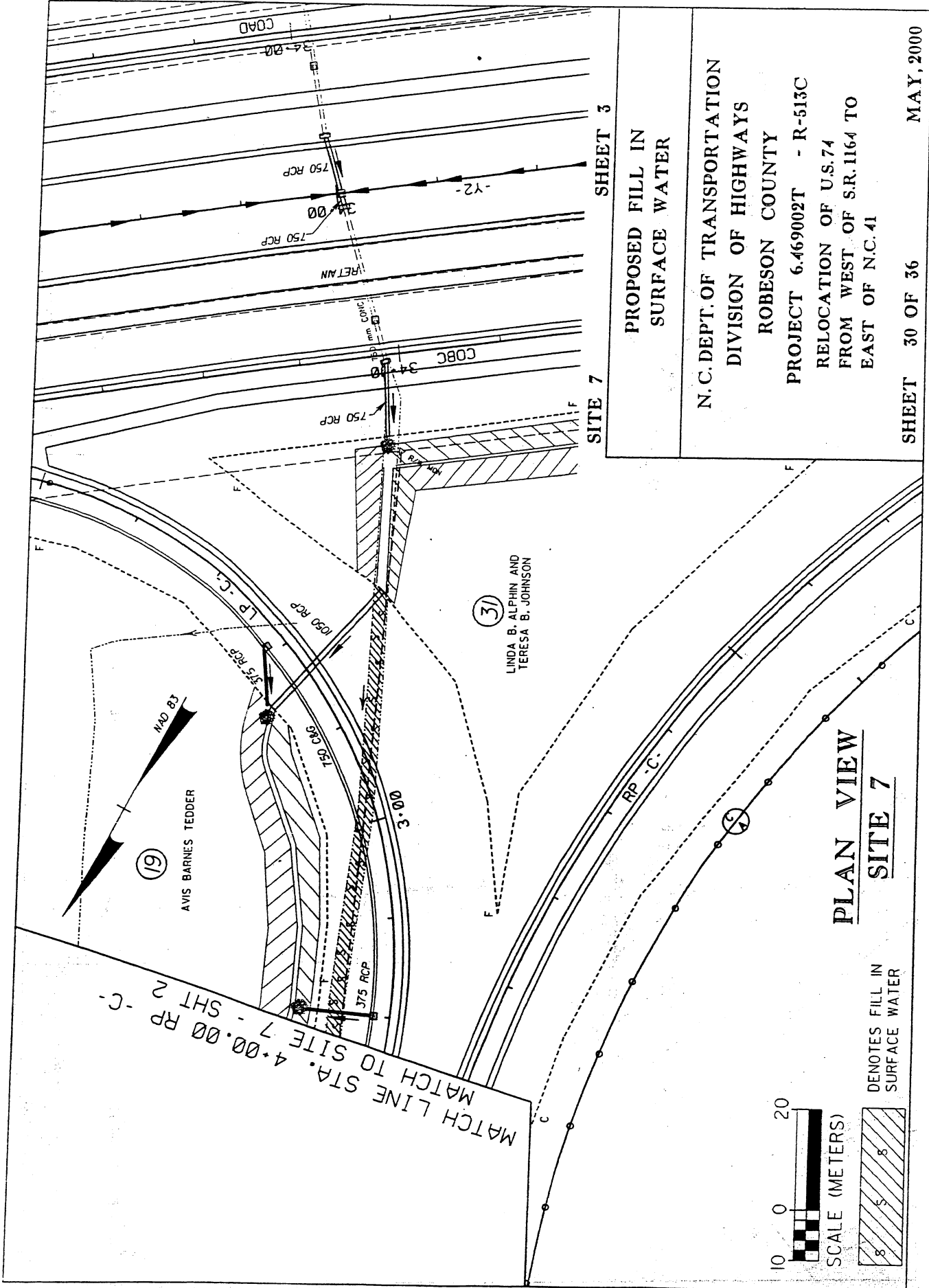
SHEET 29 OF 36 JUNE, 2000

10 0 20

SCALE (METERS)

8 5 5 5 5

DENOTES FILL IN
SURFACE WATER



SHEET 3

SITE 7

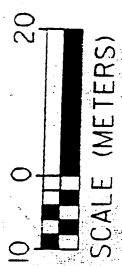
PROPOSED FILL IN SURFACE WATER

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT 6.469002T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

MAY, 2000

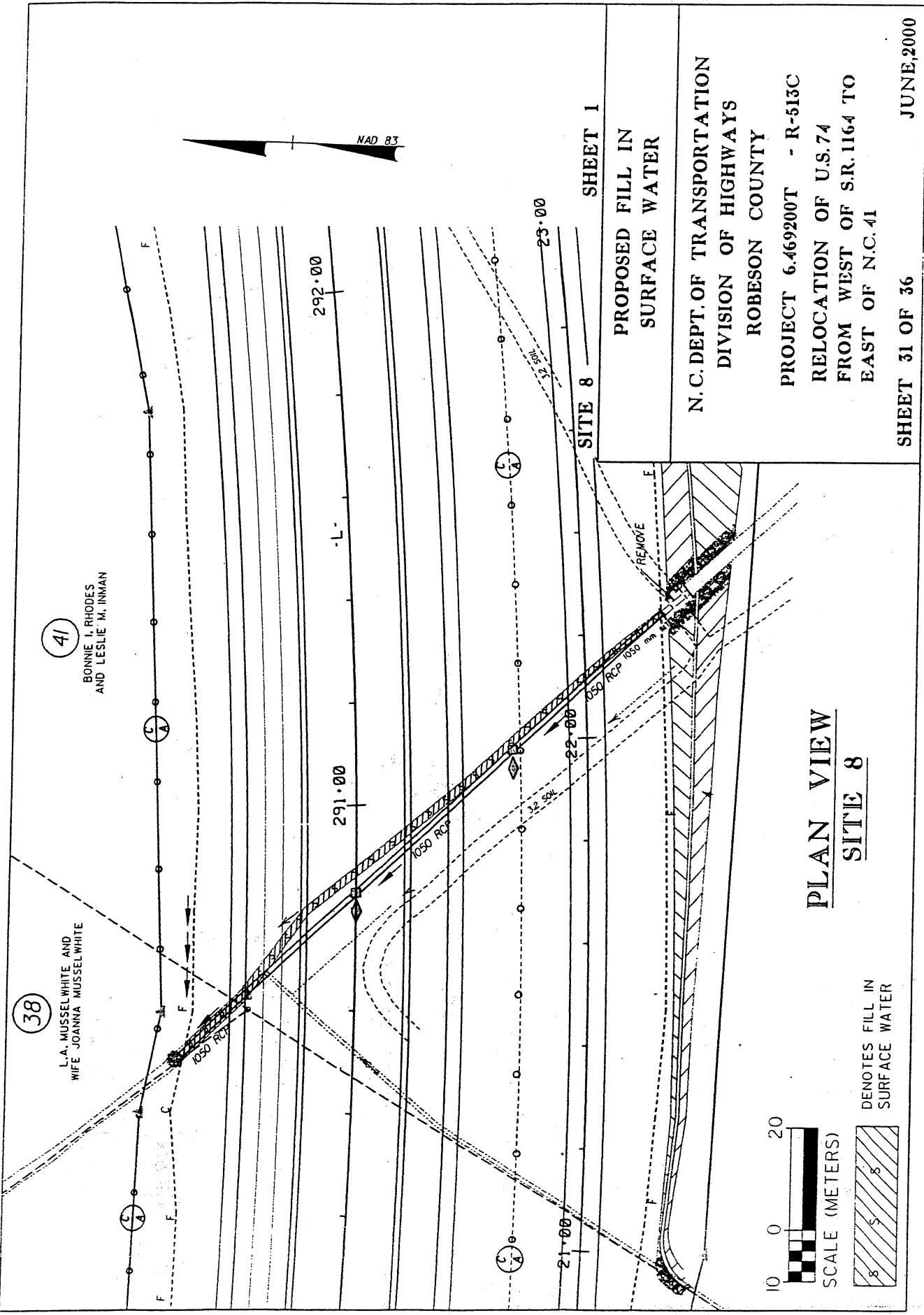
SHEET 30 OF 36

PLAN VIEW
SITE 7



DENOTES FILL IN SURFACE WATER





41
 BONNIE I. RHODES
 AND LESLIE M. INMAN

38
 L.A. MUSSELWHITE AND
 WIFE JOANNA MUSSELWHITE

SHEET 1

SITE 8

PROPOSED FILL IN
 SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY

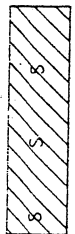
PROJECT 6.469200T - R-513C
 RELOCATION OF U.S. 74
 FROM WEST OF S.R. 1164 TO
 EAST OF N.C. 41

SHEET 31 OF 36 JUNE, 2000

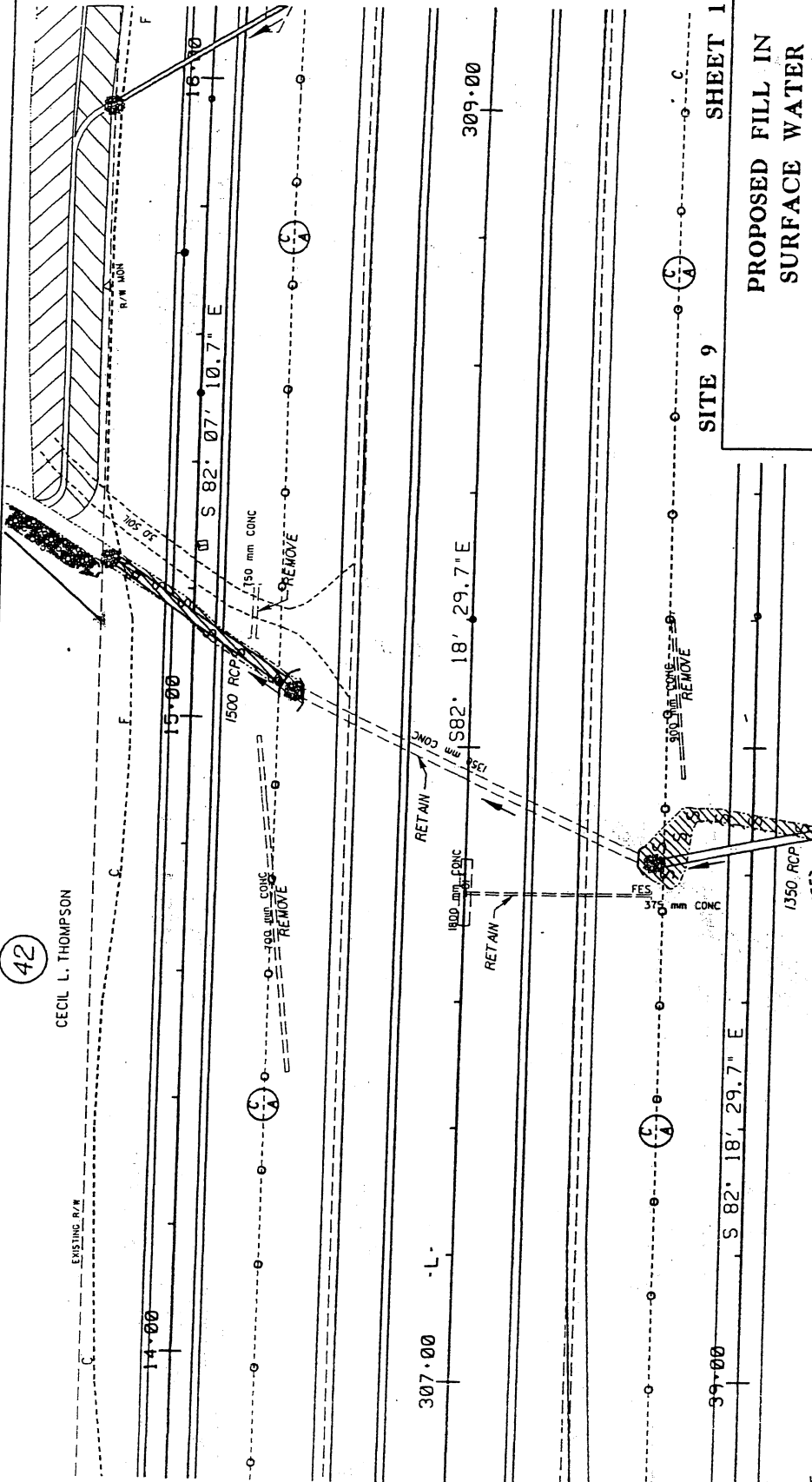
PLAN VIEW
 SITE 8



DENOTES FILL IN
 SURFACE WATER



NAD 83



42

CECIL L. THOMPSON



SCALE (METERS)



DENOTES FILL IN SURFACE WATER

42

CECIL L. THOMPSON

PLAN VIEW

SITE 9

SITE 9 SHEET 1

PROPOSED FILL IN SURFACE WATER

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY

PROJECT 6.469200T - R-513C
RELOCATION OF U.S.74
FROM WEST OF S.R.1164 TO
EAST OF N.C.41

REV. OCT., 2003
JUNE, 2000

SHEET 32 OF 36

IMPACT SUMMARY																	
Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS				SURFACE WATER IMPACTS										
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Boussinesq Equation Ditch Impacts (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)	Enclosed Channel (ft)					
1	250+34 TO 253+07 -L-	8' x 6'	3.60		0.35		0.05										
		RCBC															
2	282+14 TO 282+72 -L- 12+23 TO 14+03 -Y8-		2.57		0.12		0.93										
3	285+59 TO 287+09 -L- 15+85 TO 18+27 -Y8-	2@42" RCP	3.93		0.05		0.27		0.15			827				781	
4	32+42 TO 33+42 -Y3-		1.17														
5	51+63 TO 53+56 -Y8-		1.08		0.09		0.01		0.25								
6	256+00 -L- LT & RT										0.54						
7	272+90 -L- LT & RT								0.25			1056	476			777	
8	290+85 -L-	42" RCP															
9	308+00-L-																
1A	252+00 TO 257+00 -L- 11+80 TO 13+50 -Y1-	66" RCP															
2A	6+50 -RP"D"		0.09				0.04										
TOTALS			12.44	0	0.61	0.01	1.55	1.10	0.54	0.54	4743	476	2391				

SITE 1: Wetlands considered total take
 Total fill, exc., boussinesq, mechanized clearing impacts=
 Additional wetlands for total take=
 Total SITE 1 Impacts=

4.00 acres
 4.47 acres
 8.47 acres

Total R-513C Impacts = (12.44 + 4.47 + 0.61 + 0.01 + 1.55) =

19.08 acres

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469200T R-513C
 Rev 4/2004
 Rev 3/2004
 SHEET 33A OF 36
 JUNE, 2000

IMPACT SUMMARY																
Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS					SURFACE WATER IMPACTS								
			Fill In Wetlands (ha)	Temp. Fill In Wetlands (ha)	Excavation In Wetlands (ha)	Boussinesq Equation Ditch Impacts (ha)	Mechanized Clearing (Method III) (ha)	Fill In SW (Natural) (ha)	Fill In SW (Pond) (ha)	Existing Channel Impacted (m)	Relocated Channel (m)	Enclosed Channel (m)				
1	250+34 TO 253+07 -L-	2.4 x 1.8 RCBC	1.457		0.14		0.019									
2	282+14 TO 282+72 -L- 12+23 TO 14+03 -Y8-		1.039		0.047		0.377									
3	285+59 TO 287+09 -L- 15+85 TO 18+27 -Y8-	2@1050 RCP	1.589		0.02		0.11		0.061			252			238	
4	32+42 TO 33+42 -Y3-		0.472													
5	51+63 TO 53+56 -Y8-		0.438		0.036		0.101									
6	256+00 -L- LT & RT										0.217					
7	272+90 -L- LT & RT								0.1			322		145		237
8	290+85 -L-	1050 RCP							0.047			126				123
9	308+00 -L-								0.019			70				66
1A	252+00 TO 257+00 -L- 11+80 TO 13+50 -Y1-	1650 RCP							0.218			676				65
2A	6+50 -RP"D".		0.038				0.016									
TOTALS			5.033	0	0.243	0.004	0.628	0.445	0.217	1446	145	729				

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469200T R-513C
 Rev 4/2004
 Rev 3/2004
 SHEET 33B OF 36
 JUNE, 2000

PROPERTY OWNER

SITE	OWNER'S NAME	ADDRESS
1	H. B. Chavis	RT. 6 Box 376 Lumberton, NC 28358
	Wiley Ray Chavis	RT. 6 Box 364 A Lumberton, NC 28358
	John Jacobs	RT. 6 Box 335 Lumberton, NC 28358
	Dexter Locklear	102 Eagle Dr. Lumberton, NC 28358
	E. W. Stone	RT. 1 Box 221 Rowland, NC 28383
1A	H.B. Chavis and wife Lillian	Rt. 6 Box 376. Lumberton, NC 28358
	Doris C. Aitson	Rt. 6 Box 375 Lumberton, NC 28358
	Marquerite Chavis	13414 Oakdale Southgate, MI 48195
	Robert Anthony Chavis and wife Connie	RT. 1 Box 366 Lumberton, NC 28358
	Margarette Ako	RT. 1 Box 374 Lumberton, NC 28358
2	Maitland T. Clabaugh	35 Clairmont Ave 9N New York, NY 10027
	L. A. Musselwhite	RT. 1 Box 382 Lumberton, NC 28358

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002 - R-513 C

RELOCATION OF US 74
FROM WEST OF SR 1164
TO EAST OF NC 41

PROPERTY OWNER

SITE	OWNER'S NAME	ADDRESS
2A	N. C. DOT	
3	Robert L. Currie, Jr.	1311 West 5th St. Lumberton, NC 28358
	L. A. Musselwhite	RT. 1 Box 382 Lumberton, NC 28358
4	Cecil Thompson	1403 Elm St. Lumberton, NC 28358
5	K. M. Biggs, INC.	PO Box 967 Lumberton, NC 28359
6	Robert Chavis	RT. 6 Box 366 Lumberton, NC 28358
7	Linda B. Alphin	4900 Independence Dr. #29 Lumberton, NC 28358
	Carolina Power and Light	347 Military Cutoff Rd. Wilmington, NC 28405
	Meryle Barnes Jackson	2418 Colgate Dr. Fayetteville, NC 28304
	Avis Barnes Tedder	300 Martin St. Fairmont, NC 283408

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY

PROJECT: 6.469002 - R-513 C

RELOCATION OF US 74

FROM WEST OF SR 1164

TO EAST OF NC 41

SHEET 35 OF 36

Oct, 2003

PROPERTY OWNER

SITE	OWNER'S NAME	ADDRESS
8	L. A. Musselwhite	RT. 1 Box 382 Lumberton, NC 28358
	Bonnie I. Rhodes	1171 West 8th St. Lumberton, NC 28358
9	Cecil Thompson	1403 Elm St. Lumberton, NC 28358

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ROBESON COUNTY
 PROJECT: 6.469002 - R-513 C
 RELOCATION OF US 74
 FROM WEST OF SR 1164
 TO EAST OF NC 41