

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH, N.C.

PROPOSAL

VOID FOR BIDDING

DATE AND TIME OF BID OPENING: **September 17, 2002 AT 10:00 AM**

CONTRACT ID C200486

WORK ORDER NO. 8.2443002

FEDERAL-AID NO. STP-1344(4)

COUNTY CUMBERLAND

T.I.P. NO. U-3312

KILOMETERS 3.457

ROUTE NO. SR 1344

LOCATION SR-1344 (BLACK & DECKER RD) FROM SR-1141 (CUMBERLAND RD) TO I-95 BUS & US-301.

TYPE OF WORK **WIDENING, GRADING, DRAINAGE & PAVING.**

**NOTICE:**

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$50,000 OR MORE, EXCEPT FOR CERTAIN SPECIALITY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

\$ \_\_\_\_\_

THIS IS A ROADWAY PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

### SPECIAL CONDITIONS

1. All work authorized by this permit must be prepared in strict compliance with the attached plans, which are a part of this permit.

2. The permittee shall mitigate for 1.17 acres of unavoidable impacts to wetlands, and for 514 linear feet of impact to important streams, for the project, as described below (173 linear feet of onsite stream relocation, 682 linear feet of stream mitigation and 2.34 acres of wetland mitigation through the North Carolina Wetlands Restoration Program (NCWRP), in the Cape Fear River basin (Cataloging Unit 03030004)).

3. The permittee shall mitigate for 173 linear feet of unavoidable impacts to important stream channel associated with this project by completing 173 linear feet of onsite stream relocation, as described in the permit application. The stream relocation shall be constructed in accordance with the North Carolina Wildlife Resources Commission's (NCWRC) "Stream Relocation Guidelines", and with the attached permit drawings. NCDOT shall consult with NCWRC on all stream relocations and implement all practicable recommendations in the design of specific site requirements for re-establishment of bank vegetation, and placement of meanders and habitat structures. Vegetation shall be used to the maximum extent practicable to stabilize banks, and riprap and other man-made structural measures shall be minimized.

4. The permittee shall construct all channel relocations in the dry. The permittee shall stabilize the relocated channel before stream flows are directed into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season and stream flow shall not be released into the new channel until the Corps of Engineers has approved the release. Vegetation used to stabilize banks shall be limited to native woody species, and should include establishment of a 30 foot wide wooded buffer and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical.

5. The permittee shall provide the NCDOT Regulatory Project Manager with a stream mitigation construction sequencing schedule within 30 days following the project preconstruction meeting. The plan, shall at a minimum, indicate a date of start of construction, grading schedule, planting schedule, completion of construction, monitoring schedule, and a date of potential diversion into the new channel.

\*6. The permittee shall visually monitor the vegetative plantings on all mitigation stream banks to assess and insure complete stabilization of the mitigation stream segments. This monitoring shall include adequate visual monitoring of planted vegetation quarterly for a minimum of two years after final planting, and appropriate remedial actions (e.g., replanting, streambank grading, etc.). If within any monitoring year, bank stabilization is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the two-year

Planted Jan. 2004

monitoring of the affected portions of the stream will begin again. The permittee will coordinate stream mitigation activities with the Corps of Engineers, Wilmington NCDOT Regulatory Project Manager, and will report verbally on the status of the stream mitigation within thirty days of the quarterly monitoring. The permittee will submit to the NCDOT Regulatory Project Manager a brief written report with representative photographs within 90 days after the monitoring year is completed.

✖7. The permittee shall mitigate for 1.17 acres of unavoidable impacts to wetlands associated with this project by payment to the North Carolina Wetlands Restoration Program (NCWRP) in an amount determined by the NCWRP sufficient to perform 2.34 acres of riparian, palustrine forested wetland mitigation in the Cape Fear River basin (Cataloging Unit 03030004). Construction within wetlands on the permitted highway project shall begin only after the permittee has made full payment to the NCWRP, and the NCWRP has made written confirmation to the District Engineer, that it agrees to accept responsibility for the mitigation work required, pursuant to Paragraph IV.D. of the Memorandum of Understanding between the North Carolina Department of Environment and Natural Resources and the U.S. Army Corps of Engineers, Wilmington District, dated November 4, 1998.

✖8. The permittee shall mitigate for 341 linear feet of unavoidable impacts to important stream channel associated with this project by payment to the North Carolina Wetlands Restoration Program (NCWRP) in an amount determined by the NCWRP sufficient to perform 682 linear feet of warm water stream mitigation, or the equivalent water quality improvement projects, as approved by the Corps of Engineers, in the Cape Fear River basin (Cataloging Unit 03030004). Construction within streams on the permitted highway project shall begin only after the permittee has made full payment to the NCWRP, and the NCWRP has made written confirmation to the District Engineer, that it agrees to accept responsibility for the mitigation work required, pursuant to Paragraph IV.D. of the Memorandum of Understanding between the North Carolina Department of Environment and Natural Resources and the U.S. Army Corps of Engineers, Wilmington District, dated November 4, 1998.

9. When final design plans are completed for TIP U-3312, any necessary permit modifications shall be submitted to the District Engineer and the North Carolina Division of Water Quality (NCDWQ). If necessary, a public notice will be circulated for review. Final designs shall reflect all appropriate avoidance, minimization, and a compensatory mitigation plan for impacts within streams and wetlands. Construction within streams and wetlands on TIP U-3312 shall begin only after approval by the District Engineer of the modified impacts.

10. Prior to commencing construction within jurisdictional waters of the United States for any portion of the proposed highway project, the permittee shall forward the latest version of project construction drawings to the Corps of Engineers, Wilmington Regulatory Field Office, NCDOT Regulatory Project Manager. Half-size drawings will be acceptable.

11. The permittee shall schedule a meeting between its representatives, the contractor's representatives, and the Corps of Engineers, Wilmington NCDOT Regulatory Project Manager, prior to any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all of the terms and conditions contained within this Department of the Army Permit. The permittee shall notify the Corps of Engineers NCDOT Regulatory 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.

12. 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, except as authorized by this permit, or any modification to this permit. There shall be no excavation from, or waste disposal into, 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.

13. To ensure that all borrow and waste activities occur on high ground, except as authorized by this permit, the permittee shall require its contractors and/or agents to identify all areas to be used for borrow material, or to dispose of dredged, fill, or waste material. The permittee shall ensure that all such areas comply with the preceding condition (11) 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 (11). All information will be available to the Corps of Engineers upon request.

14. The permittee shall comply with the conditions specified in the water quality certification, No. 3380, issued by the North Carolina Division of Water Quality on April 16, 2002.

15. The permittee shall place the inverts of culverts and other structures in waters, streams, and wetlands one foot below the elevation of the streambed to allow low flow passage of water and aquatic life, unless 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 downstream of the structures.

16. 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 (50 NTU's in all streams and rivers, and 25 NTU's in all lakes).

17. 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.

18. The permittee shall take measures to prevent live or fresh concrete from coming into contact with any surface waters until the concrete has hardened.

19. 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.

20. 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.

21. 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.

22. 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.

23. This Department of the Army permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

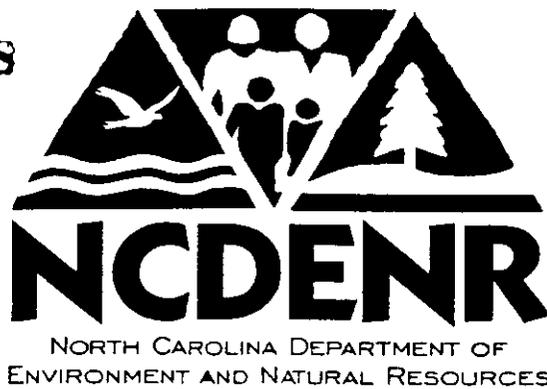
24. This permit does not grant any property rights or exclusive privileges.

25. 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 un-permitted 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.

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

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Michael F. Easley, Governor  
William G. Ross, Jr., Secretary  
Gregory J. Thorpe, Ph.D., Acting Director

April 16, 2002

Mr. William D. Gilmore, P.E., Manager  
Planning and Environmental Branch  
North Carolina Department of Transportation  
1548 Mail Service Center  
Raleigh, North Carolina, 27699-1548

Dear Mr. Gilmore:

Re: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act,  
Proposed widening and realignment of SR 1344 (Black & Decker Road) from SR 1141 to I-95 Business in  
Cumberland County (TIP U-3312). Federal Project No. STP-1344(2), State Project No. 8.2443001.  
WQC Project No. 020228 COE ID

Attached hereto is a copy of Certification No. 3380 issued to The North Carolina Department of Transportation dated April 16, 2002. You have our approval, in accordance with the attached conditions and those listed below, to place fill material in 0.89 acres of jurisdictional wetlands, perform mechanized clearing in 0.21 acres of jurisdictional wetlands, and excavate in 0.07 acres of jurisdictional wetlands. In addition, you are authorized the place fill in 341 linear feet of streams. The project purpose is the widening and realignment of SR 1344 (Black and Decker Road) from SR 1141 to I-95 Business in Cumberland County. The project shall be constructed in accordance with your application dated January 29, 2002 and any additional conditions listed later in this certification.

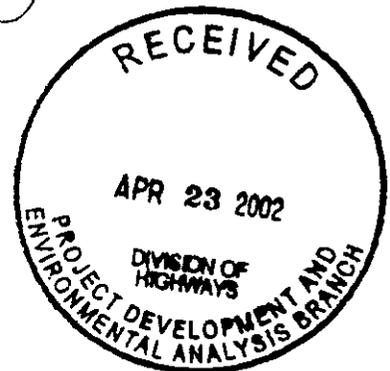
If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Gregory J. Thorpe, Ph.D.  
Acting Director

Attachments

cc: Wilmington District Corps of Engineers  
Corps of Engineers Wilmington Field Office  
DWQ Fayetteville Regional Office  
Ron Ferrell, Wetlands Restoration Program  
Central Files  
File Copy



Wetlands/401 Unit

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Telephone 919-733-1786  
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### 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. Section .0500. This certification authorizes the NCDOT, in accordance with the attached conditions and those listed below, to place fill material in 0.89 acres of jurisdictional wetlands, perform mechanized clearing in 0.21 acres of jurisdictional wetlands, and excavate in 0.07 acres of jurisdictional wetlands. In addition, you are authorized the place fill in 341 linear feet of streams. The project purpose is the widening and realignment of SR 1344 (Black and Decker Road) from SR 1141 to I-95 Business in Cumberland County. The project shall be constructed in accordance with your application dated January 29, 2002 and any additional conditions listed later in this certification.

The application provides adequate assurance that the discharge of fill material into the waters of the Cape Fear River in conjunction 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, as described in the Public Notice. Should your project change, you are required to notify the DWQ and you may be required to submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If additional (add or remove additional) wetland or stream impacts, occur as a result of this project (now or in the future) additional compensatory mitigation will 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, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire three years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding Corps of Engineers Permit, whichever is sooner.

#### Condition(s) of Certification:

1. 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" or the "North Carolina Surface Mining Manual" whichever is more appropriate (available from the Division of Land Resources (DLR) in the DENR Regional or Central Offices) shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standard

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Division of Water Quality

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(50 NTUs in all fresh water streams and rivers not designated as trout waters; 25 NTUs in all lakes and reservoirs, and all saltwater classes; and 10 NTUs in trout waters);

2. 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 after the Division of Land Resources has released the project;
3. If an environmental document is required, this Certification is not valid until a FONSI or ROD is issued by the State Clearinghouse. All water quality-related conditions of the FONSI or ROD shall become conditions of this Certification;
4. Measures shall be taken to prevent live or fresh concrete from coming into contact with waters of the state until the concrete has hardened;
5. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this certification. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.
6. All channel relocations will be constructed in a dry work area, and stabilized before stream flows are diverted. Channel relocations will be completed and stabilized prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used for bank stabilization shall be limited to native woody species, and should include establishment of a 30 foot wide wooded and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical. A transitional phase incorporating coir fiber and seedling establishment is allowable. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested.
7. Compensatory mitigation for impacts to streams shall be done for 341 linear feet of stream impact at a replacement ratio of 1:1. Compensatory mitigation for impacts to jurisdictional streams shall be provided by onsite stream relocations of 173 linear feet of streams on site as described (i.e. a stable stream pattern, dimension, and profile) in the January 29, 2002 permit application. All stream relocations shall have 50-foot wooded buffers planted on both sides of the stream. As-Builts for the completed streams shall be submitted to the North Carolina Division of Water Quality 401 Wetlands Unit within 30 days of the completion of the construction of the relocations. If the parameters of this condition are not met, then the NCDOT shall supply additional stream mitigation for the 173 linear feet of impacts. In addition to the 173 linear feet of on-site mitigation, compensatory mitigation for an additional 168 linear feet of streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through an in lieu payment to the North Carolina Wetland Restoration Program (NCWRP), and that the WRP has agreed to implement the mitigation for the project. \*Mitigation for unavoidable impacts to streams shall be provided through an in-lieu payment to the North Carolina Wetlands Restoration Program (NCWRP) at a rate of \$125 per linear foot. Therefore, a total payment of \$21,000 shall be submitted to the NCWRP to offset the impacts. No construction activities in jurisdictional streams shall begin until payment for stream mitigation is made and the Wetland Restoration Program receives and clears your

Wetlands/401 Unit

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Department of Environment  
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Division of Water Quality

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check (made payable to DENR – Wetland Restoration Program). The payment to NCWRP shall be sent within two months of issuance of the 404 permit. If you have any questions concerning the Wetland Restoration Program please contact them at 919-733-5208.

- \*8. Compensatory mitigation for impacts to wetlands shall be done for 1.17 acres of impacts. Applying a replacement ration of 2:1 total mitigation for 2.34 acres of riparian wetlands shall be provided. We understand that you have chosen to perform compensatory mitigation for impacts to streams through an in lieu payment to the North Carolina Wetland Restoration Program (NCWRP), and that the WRP has agreed to implement the mitigation for the project. Mitigation for unavoidable impacts to wetlands shall be provided through an in-lieu payment to the North Carolina Wetlands Restoration Program (NCWRP) at a rate of \$12,000 per acre for 1.25 acres of impacts (Acreage requirements proposed to be mitigated through the Wetland Restoration Program must be rounded to one-quarter increments according to 15A 2R.0503(b). Therefore, a total payment for 2.25 acres impact at \$12,000 per acre for a total payment of \$27,000 shall be submitted to the NCWRP to offset the impacts. No construction activities in jurisdictional streams shall begin until payment for stream mitigation is made and the Wetland Restoration Program receives and clears your check (made payable to DENR – Wetland Restoration Program). The payment to NCWRP shall be sent within two months of issuance of the 404 permit. If you have any questions concerning the Wetland Restoration Program please contact them at 919-733-5208.
- \*9. Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
10. Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed to allow low flow passage of water and aquatic life unless it can be shown to 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 disequilibrium of wetlands or stream beds 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.
11. The permittee shall require its contractors (and/or agents) to comply with all of the terms of this certification, and shall provide each of its contractors (and/or agents) a copy of this certification.

Violations of any condition herein set forth shall 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 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

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Department of Environment  
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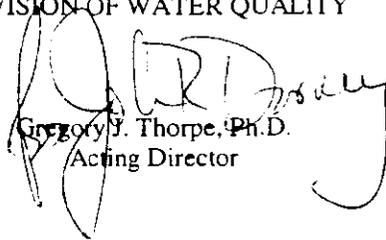


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If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, P.O. Box 27447, Raleigh, N.C. 27611-7447. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 16<sup>th</sup> day of April 2002

DIVISION OF WATER QUALITY

  
Gregory J. Thorpe, Ph.D.  
Acting Director

WQC No. 3380

Wetlands/401 Unit

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

In accordance with 15A NCAC 2H.0500, the North Carolina Department of Transportation is authorized to impact the waters of the State of North Carolina as indicated below for the purpose of widening and realigning SR 1344 (Black and Decker Road) from SR 1141 to I-95 Business in Cumberland County (TIP No. U-3312, DWQ No. 020228). All activities associated with these authorized impacts must be conducted in accordance with the conditions listed in the attached certification transmittal letter. **THIS CERTIFICATION IS NOT VALID WITHOUT THE ATTACHMENTS.**

**COMPENSATORY MITIGATION REQUIREMENTS FOR WETLAND RESTORATION:**

**LOCATION:** Improvements to SR 1344 (Black and Decker Road)  
**COUNTY:** Cumberland  
**BASIN/SUBBASIN:** Cape Fear, Cataloging Unit 03030004  
**DWQ No.:** 020228

As required by 15A NCAC 2H.0506, and the conditions of this certification, you are required to compensate for the above impacts through the restoration, creation, enhancement or preservation of wetlands and surface waters as outlined below prior to conducting any activities that impact or degrade waters of the state.

Note: Acreage requirements proposed to be mitigated through the Wetland Restoration Program must be rounded to one-quarter increments according to 15A 2R.0503(b).

2.25 acres of Class WL wetlands  
2.25 acres of riparian wetlands  
0.0 acres of non-riparian wetlands

0 acres of Class SWL wetlands

168 linear feet of stream channel

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

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

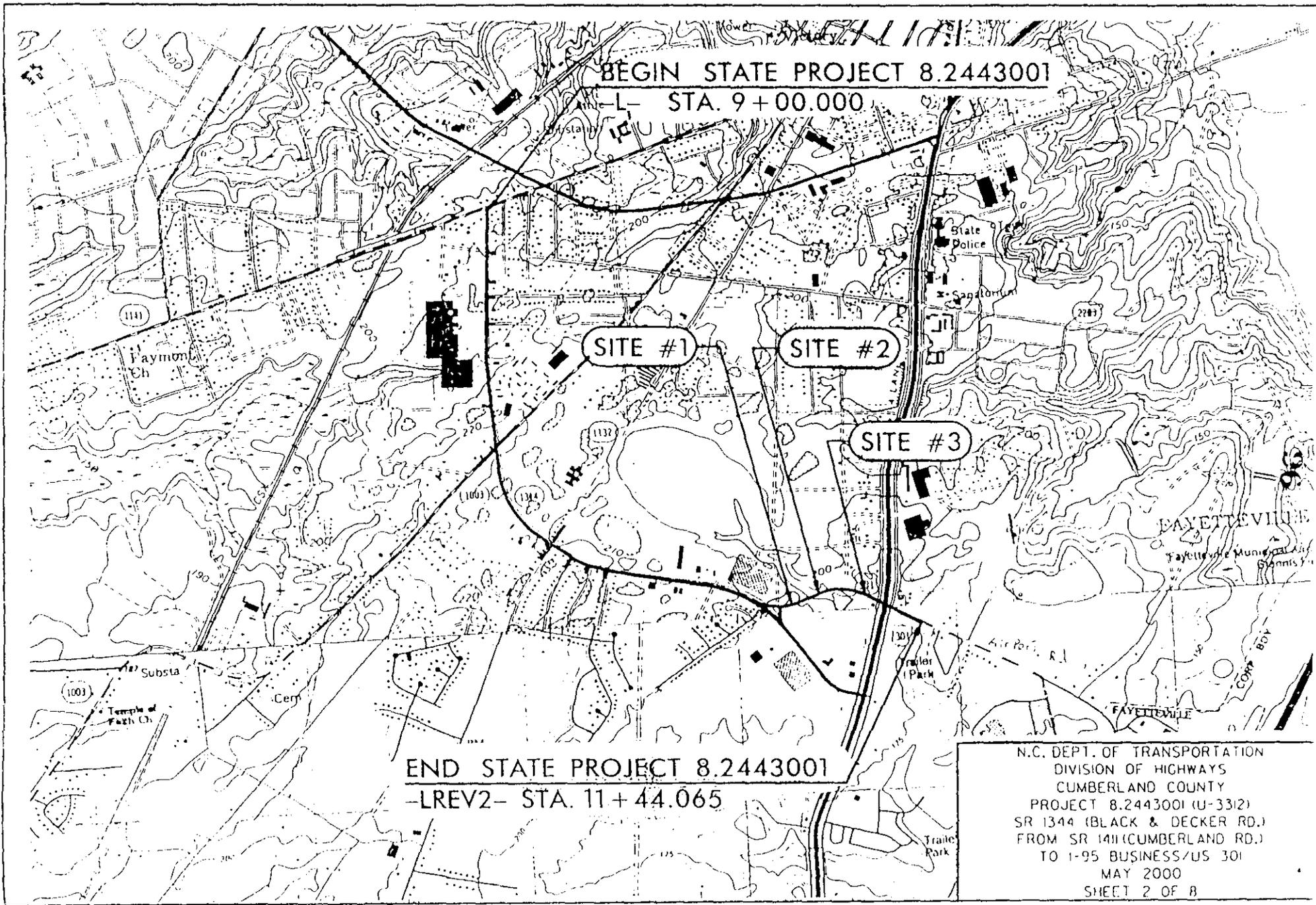
WETLANDS RESTORATION PROGRAM  
DIVISION OF WATER QUALITY  
P.O. BOX 29535  
RALEIGH, NC. 27626-0535  
(919) 733-5208

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BEGIN STATE PROJECT 8.2443001

-L- STA. 9+00.000

SITE #1

SITE #2

SITE #3

END STATE PROJECT 8.2443001

-LREV2- STA. 11+44.065

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CUMBERLAND COUNTY  
PROJECT 8.2443001 (U-3312)  
SR 1344 (BLACK & DECKER RD.)  
FROM SR 1411 (CUMBERLAND RD.)  
TO I-95 BUSINESS/US 301  
MAY 2000  
SHEET 2 OF 8



All work described above will be paid for at the contract unit prices established in the contract for the work involved. Additional payments will not be made for the requirements of this section as the cost for this work should be included in the contract unit prices for the work involved.

**Streambank Reforestation:**

Streambank reforestation will be planted in areas designated on the plans and as directed by the Engineer. See the streambank reforestation detail sheet.

Seedlings shall be planted as soon as practical following permanent seeding and mulching. Type I seedlings shall be planted along both streambanks. Type II seedlings shall be planted in a 26 ft. (8 meters) wide swath from top of bank along both sides of stream.

Seasonal limitations: Seedlings shall be planted from November 15 through March 15.

Root dip: the roots of reforestation seedlings shall be coated with a slurry of water, and either a fine clay ("kaolin") or a superabsorbent that is made to be used as a bare root dip. The type, mixture ratio, method of application, and the time of application shall be submitted to the Engineer for approval.

With the approval of the Engineer, seedlings may be coated before delivery to the job or at the time of planting, but at no time shall the roots of the seedlings be allowed to dry out. The roots shall be moistened immediately prior to planting.

**Measurement:**

The quantity of streambank reforestation to be paid for will be the actual number of acres (hectares) of land, measured along of the surface of ground, which has been acceptably planted with seedlings in accordance with these specifications.

**Payment:**

The quantity of streambank reforestation will be paid for at the contract unit price per acre (hectare) for "Streambank Reforestation".

Payment will be made under:

Streambank Reforestation.....ACR (HA)

**Waste Areas And Borrow Sources:**

Payment for temporary erosion control measures, except those made necessary by the Contractor's own negligence or for his own convenience, will be paid for at the appropriate contract unit price for the devices or measures utilized in borrow sources and waste areas.