

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR LYNDO TIPPETT Secretary

January 27, 2005

MEMORANDUM TO:	Mr. C. E. Lassiter, Jr., P.E. Division 2 Engineer
FROM:	Philip S. Harris, III, P.E., Manager PCASH Office of the Natural Environment Project Development and Environmental Analysis Branch
SUBJECT:	Pamlico County; Widening of NC 55 from East of SR 1129 (Bennett-Tingle Road) to NC 304 in Bayboro; Federal Aid Project No. STP-55(1); State Project No. 8.1170901; T.I.P. No. R-2539 C

Attached is the U. S. Army Corps of Engineers Individual 404 permit and the DWQ 401 Water Quality Certification. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

cc: Mr. Art McMillan, P.E.
Mr. Jay Bennett, P.E.
Mr. David Chang, P.E.
Mr. Randy Garris, P.E.
Mr. Greg Perfetti, P.E.
Mr. Mark Staley
Mr. John F. Sullivan, III, FHWA
Mr. Omar Sultan
Mr. Jay Johnson, Division 2 Environmental Officer

## TIP Project No. R-2539 C

# Widening of NC 55 From East of SR 1129 (Bennett-Tingle Road) to NC 304 in Bayboro in Pamlico County Federal Aid Project No. STP-55(1) State Project No. 8.1170901

In addition to the standard Section 404 Individual Permit General Conditions, Section 401 Major Water Quality Certification Conditions, and Coastal Resources Commission (CAMA) Permit general conditions, the following special commitments have been agreed to by NCDOT.

### COMMITMENTS DEVELOPED THROUGH PROJECT DEVELOPMENT AND DESIGN

All standard procedures and measures, including Best Management Practices for the Protection of Surface Waters and Sedimentation, will be implemented to avoid or minimize environmental impacts.

#### Hydraulics Unit, Division 2 Construction

NCDOT's Best Management Practices include designing culverts to maintain the existing water surface conditions during normal flow periods. The culvert alignments and inverts will be designed to prevent interruptions to the natural stream flow. To ensure that the project will not impede fish migration, NCDOT will follow the draft design guidelines entitled "Stream Crossing Guidelines for Anadromous Fish Passage." As discussed in these guidelines, instream activities will be minimized during the spring migrating period of March, April, and May. Where spanning structures are not practicable, NCDOT will incorporate these guidelines into the culvert design. *Culvert designs for the project have incorporated both Best Management Practices and Stream Crossing Guidelines. Minimization of instream activities during the spring migrating period will be incorporated into the construction plans for the project.* 

## COMMITMENTS DEVELOPED THROUGH PERMITTING

In addition to the commitments specified in the Greensheet developed for construction of Section *A*, dated 5/15/03, the following special commitments apply:

#### **Division 2 Construction, REU**

All protected riparian buffers impacted by the placement of fill or clearing activities shall be restored to the preconstruction contours and revegetated with native woody species upon completion of the project construction. A post-construction as-built with the restoration activities included shall be submitted to the DWQ no later than 60 days after the project is closed out by the DOT.

Sediment and erosion control devices shall not be placed in Zone 1 of any Neuse or Tar-Pamlico Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.

All temporary fills in wetlands and surface waters shall be removed upon completion of the project. In addition, the post-construction removal of any temporary bridge structures or fill will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species will be required.

Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction

#### **Division 2 Construction, Hydraulics Unit**

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 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. *ONE has requested an exception to this condition from DWQ, since existing perched culverts were discussed at the Interagency Permit Drawing Review meeting in Feb. 2003.* 

Culverts that are less than 48-inch in diameter should be buried to a depth equal to or greater than 20% of their size to allow for aquatic life passage. Culverts that are 48-inch in diameter or larger should be buried at least 12 inches below the stream bottom to allow natural stream bottom material to become established in the culvert following installation and to provide aquatic life passage during periods of low flow. These measurements must be based on natural thalweg depths. ONE has requested an exception to this condition from DWQ, since existing perched culverts were discussed at the Interagency Permit Drawing Review meeting in Feb. 2003.

#### **Division 2 Construction**

The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.

#### **O.N.E., Division 2 Construction**

Mitigation for unavoidable impacts to Tar-Pamlico Riparian Buffers shall be provided through an in-lieu payment to the North Carolina Ecosystem Enhancement Program (NCEEP). No construction activities in Tar-Pamlico River Riparian buffers shall begin until payment for buffer mitigation is made and the Ecosystem Enhancement Program receives and clears your check. *O.N.E. will forward a copy of the quarterly payment check sent to EEP.* 

Compensatory mitigation for the unavoidable impacts to 0.52 acres of non-riverine wetlands, 145.6 linear feet of stream within the Tar-Pamlico River Basin, and 4.38 acres of non-riverine wetlands within the Neuse River Basin associated with the proposed project shall be provided by the EEP. Within 30 days of the Section 404 permit issue date (which would be February 18, 2005), NCDOT shall certify that sufficient funds have been provided to EEP to complete the required mitigation. *O.N.E. will forward a copy of the quarterly payment check sent to EEP*.

## **PERMIT EXPIRATION DATES:**

404 Permit expires on December 31, 2006
401 WQC expires upon expiration of 404 or CAMA
CAMA Major Development permit expires on December 31, 2006



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

January 18, 2005

**Regulatory Division** 

Action ID No. 199303531

RECEIVED

Dr. Gregory J. Thorpe, Ph.D. Environmental Management Director, PEDA North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina 27699-1548

Dear Mr. Thorpe:

Reference the Department of the Army (DA) permit issued to you on May 9, 2003, and a modification to this permit issued on September 29, 2003, associated with the widening of approximately 14.2 miles of NC 55 from 0.7 miles east of US 17 in Bridgeton to NC 304 in Bayboro, Craven and Pamlico Counties, North Carolina (TIP R-2539, Federal Aid Project STP-55(1), State Project No. 8.1170901). Also reference your subsequent written request dated October 14, 2004, for a permit modification to:

1. Submit the attached final permit drawings and relevant information for R-2539 Section C. The final design revisions resulted in five sites differing from those submitted with the original permit application. These changes resulted in 4.90 additional non-riverine wetland impacts and 145.6 additional feet of stream impacts.

2. Mitigate for the additional wetland and stream impacts by utilizing the Ecosystem Enhancement Program to mitigate for 0.52 acres of non-riverine wetlands and 145.6 feet of stream located in Cataloging Unit 03020105 of the Tar-Pamlico River Basin and 4.38 acres of non-riverine wetlands located in Cataloging Unit 03020204 of the Neuse River Basin.

This modification request was coordinated with the North Carolina Division of Water Quality, and other appropriate State and Federal agencies. The coordination revealed no objections to this modification request. Therefore, the permit is hereby modified in accordance with the specific work activities described above and in the enclosed plans. It is understood that all conditions of the original permit remain applicable and that the expiration date is unchanged. In addition, the permittee will comply with the following special permit condition: a. Compensatory mitigation for the unavoidable impacts within the Tar-Pamlico River Basin to 0.52 acres of non-riverine wetlands and 145.6 linear feet of stream associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP). The EEP will provide 5.2 acres of preservation of non-riverine wetlands and 1,456 linear feet of stream preservation in the Southern Outer Coastal Plain Eco-Region at the Wallace Deer Club Tracts 1-5 in Pender 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 0.52 acres of restoration of non-riverine wetlands and 145.6 feet of stream restoration in the Tar-Pamlico River Basin (Hydrologic Cataloging Unit 03020105) by July 22, 2005, and half of the proposed preservation mitigation would be available at that time for mitigation for other project impacts. 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.

b. Compensatory mitigation for the remaining unavoidable impacts within the Neuse River Basin to 4.38 acres of non-riverine wetlands associated with the proposed project shall be provided by the Ecosystem Enhancement Program (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 8.76 acres of existing restoration equivalents of nonriverine wetlands, Neuse River Basin (Hydrologic Cataloging Unit 03020204). At least half of the 8.76 acre requirement must be in the form of restoration. The NCDOT shall, within 30 days of the issue date of this permit, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V. of the MOA.

Any questions regarding this correspondence may be directed to Mr. William Biddlecome, NCDOT Coordinator/Regulatory Project Manager at the Washington Regulatory Field Office, telephone (252) 975-1616, extension 31.

Sincerely,

J. Kenneth Jelly

Charles R. Alexander, Jr. Colonel, U.S. Army District Engineer

Enclosure

Copies Furnished (without enclosure):

Ms. Cathey Brittingham Division of Coastal Management 1638 Mail Service Center Raleigh, North Carolina 27699-16387 Mr. John Hennessy NCDENR-DWQ Wetlands Section 1650 Mail Service Center Raleigh, North Carolina 27699-1650

Mr. Ron Sechler National Marine Fisheries Service Pivers Island Beaufort, North Carolina 28516

Mr. Pete Benjamin U.S. Fish and Wildlife Service Fish and Wildlife Enhancement Post Office Box 33726 Raleigh, North Carolina 27636-3726

Mr. Ronald Mikulak, Chief Wetlands Regulatory Section - Region IV Environmental Protection Agency Atlanta Federal Center 100 Alabama Street, SW Atlanta, Georgia 30365



Alan W. Klimek, P.E. Director **Division of Water Quality** 

December 10, 2004

Dr. Gregory J. Thorpe, PhD., Manager Planning and Environmental Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina, 27699-1548

RECEIVED 15 2004 DEC **DIVISION OF HIGHWAYS** PDEA-OFFICE OF NATURAL ENVIRONMENT

Dear Dr. Thorpe:

Re: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act, Widening of NC 55 from US 17 in Bridgeton to NC 304 in Bayboro, Craven and Pamilico Counties. WQC Project No. 021232, TIP No. R-2539C.

Attached hereto is a copy of a modification to Certification No. 3415 issued to The North Carolina Department of Transportation dated March 17, 2003. This certification authorizes the NCDOT for the following impacts:

Section	Fill in Wetlands (acres)	Excavation & Drainage (acres)	Mechanized Clearing (acres)	Streams (Linear Feet)	Other surface waters (acres)	Buffer Zone 1 (acres)	Buffer Zone 2 (acres)
R-2539C (Original 401 WQC)	1.52	1.96	1.50	209	0.07	0.37	0.21
R-2539C (Additional Impacts with this Modification)	+0.95	+4.32	-0.37	+146	0	+0.33	+0.23
Total	2.47	6.28	1.13	355	0.07	0.70	0.44
Net Total for Wetland Impacts		9.88					
Net Total for Buffer Impacts						1.1	4

This certification modifies only segment C of the widening of NC 55 from Bridgeton to Bayboro and shall be constructed pursuant to the application dated received on October 19, 2004 and all subsequent submittals and revisions. All the authorized activities and conditions of the certification associated with the original Water Quality Certification dated March 17, 2003 and all subsequent modifications still apply except where superceded by this certification.

Transportation Permitting Unit 1650 Mail Service Center, Raleigh, North Carolina 27699-1650 2321 Crabtree Boulevard, Suite 250, Raleigh, North Carolina 27604 Phone: 919-733-1786 / FAX 919-733-6893 / Internet: http://h2o.enr.state.nc.us/ncwetlands



If we can be of further assistance, do not hesitate to contact Nicole Thomson at 919-715-3415. and the second Sincerely, 200 Alan W. Klimek, P.E. Director

Attachments

cc: Wilmington District US Army Corps of Engineers
Mr. Mike Bell, Corps of Engineers Washington Field Office
Mr. Mike Thomas, NC DWQ Washington Regional Office
Mr. Christopher Militscher, US Environmental Protection Agency – Region IV
Mr. William Gilmore, P.E. Transition Manager, NC DENR Ecosystem Enhancement Program
Mr. C.E. Lassiter, Jr., P.E. Division 2 Engineer, PO Box 1587, Greenville, NC 27835
Mr. Jay Johnson, Division 2 Environmental Officer, PO Box 1587, Greenville, NC 27835
Central Files
File Copy

## Modification of APPROVAL OF 401 Water Quality Certification and ADDITIONAL CONDITIONS and Tar-Pamlico River Buffer Authorization

**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, and 15 NCAC 2B .0259. This certification authorizes the NCDOT for the following impacts:

Section	Fill in Wetlands (acres)	Excavation & Drainage (acres)	Mechanized Clearing (acres)	Streams (Linear Feet)	Other surface waters (acres)	Buffer Zone 1 (acres)	Buffer Zone 2 (acres)
R-2539C (Original 401 WQC)	1.52	1.96	1.50	209	0.07	0.37	0.21
R-2539C (Additional Impacts with this Modification)	+0.95	+4.32	-0.37	+146	0	+0.33	+0.23
Total	2.47	6.28	1.13	355	0.07	0.70	0.44
Net Total for Wetland Impacts		9.88				题对	
Net Total for Buffer Impacts						1.1	.4

## Wetland, Surface Water and Protected Riparian Buffer Impacts

#### **Impacts to Tar-Pamlico Riparian Buffers**

Section	Zone 1 (Sq. Ft.)	Zone 2 (Sq. Ft.)
Site 3 (STA 196+00 – L)	10,793	6,495
Site 3 (STA 199+77 –L)	10,440	6,373
Site 3A (STA 12+10 - Y7)	750	1,064
Site 5 (STA 206+00)	8,442	5,039
Total	30,425	18,971
Impacts Requiring Mitigation	21,233	12,868
Onsite Buffer Replacement	1,186	0
Total Remaining Impacts Requiring Mitigation	20,047	12,868

This certification modifies only segment C of the widening of NC 55 from Bridgeton to Bayboro and shall be constructed pursuant to the application dated received on October 19, 2004 and all subsequent submittals and revisions. All the authorized activities and conditions of the certification associated with the original Water Quality Certification dated March 17, 2003 and all subsequent modifications still apply except where superceded by this certification.

The application provides adequate assurance that the discharge of fill material into the waters of the Tar-Pamlico and Neuse River Basin 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 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 any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, 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, 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. Construction will be conducted in such a manner as to prevent a significant increase in turbidity outside the area of construction or construction-related discharge. 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 assure compliance with the appropriate turbidity water quality standard.

a. The erosion and sediment control measures for the project must equal or exceed the proper design, installation, operation and maintenance outlined in the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual. These 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.

b. For borrow pit sites, the erosion and sediment control measures must equal or exceed the proper design, installation, operation and maintenance outlined in the most recent version of the North Carolina Surface Mining Manual. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.

- 2. All 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. Pursuant to NCAC15A 2B.0233(6) and NCAC15A 2B.0259(6), sediment and erosion control devices shall not be placed in Zone 1 of any Neuse or Tar-Pamlico Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
- 4. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1.
- 5. 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.
- 6. No live or fresh concrete shall come into contact with waters of the state until the concrete has hardened.
- 7. There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. 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.

- 8. 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.
- 9. 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 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.
- 10. The Ecosystem Enhancement Program (EEP) previously provided wetland mitigation for Sections A and B and a portion of the mitigation required for Section C at the initial 404 and 401 permit issuance. The additional amounts of impact requiring mitigation are as follows:

Wetlands Impacted	Impacts (Ac)	Replacement Ratio	Mitigation Site	Acres of Mitigation Credited
Non-Riverine Wetland			Wallace Club Deer	
Impacts			Tract 1 and 2,	20 21
Tar-Pamlico River Basin	0.63	10:1	Pender County	6.30
Non-Riverine Wetland			Cataloging Unit	
Impacts			03020204 of the	
Neuse River Basin)	4.4	2:1	Neuse River Basin	8.8

- 11. We understand that you have chosen to perform compensatory mitigation for impacts to 145.6 linear feet o streams through the North Carolina Ecosystem Enhancement Program (NCEEP), and that the EEP has agreed to implement the mitigation for the project
- 12. Compensatory mitigation for the additional impacts to 0.76 acres (20,047 square feet in Zone 1 and 12,868 square feet in Zone 2) of Tar-Pamlico Riparian Buffers shall be provided for as described below.

Zone of	Impacts	Replacement	Total Square Feet of
Impact	(Square Feet)	Ratio	Mitigation Required
Zone 1	20,047	3:1	60,141
Zone 2	12,868	1.5:1	19,302
Total	32,915		79,443

We understand that you have chosen to perform compensatory mitigation for impacts to protected buffers through an in lieu payment to the North Carolina Ecosystem Enhancement Program (NCEEP), and that the EEP has agreed to implement the mitigation for the project. Mitigation for unavoidable impacts to Tar-Pamlico Riparian Buffers shall be provided through an in-lieu payment to the North Carolina Ecosystem Enhancement Program (NCEEP) at a rate of \$0.96 per square foot. Therefore, a total payment of \$76,265.28 shall be submitted to the NCEEP to offset the impacts. No construction activities in Tar-Pamlico River Riparian buffers shall begin until payment for buffer mitigation is made and the Ecosystem Enhancement Program receives and clears your check (made payable to DENR – Ecosystem Enhancement Program).

- 13. All stormwater runoff shall be directed to sheetflow through stream buffers at nonerosive velocities, unless approved otherwise by this certification.
- 14. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- 15. All temporary fills in wetlands and surface waters shall be removed upon completion of the project. In addition, the post-construction removal of any temporary bridge structures or fill will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species will be required.
- 16. Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 17. The dimension, pattern and profile of the stream above and below the crossing should not be modified by widening the stream channel or reducing the depth of the stream. Disturbed floodplains and streams should be restored to natural geomorphic conditions.
- 18. Any riprap used must not interfere with thalweg performance and aquatic life passage during low flow conditions.
- 19. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
- 20. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 21. All protected riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated with native woody species upon completion of the project construction. A post-construction as-built with the restoration activities included shall be submitted to the DWQ no later than 60 days after the project is closed out by the Department of Transportation.
- 22. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
- 23. 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). Before modifying the certification, DWQ shall notify NCDOT and the US Army Corps of Engineers, provide public notice in accordance with 15A NCAC 2H.0503 and provide opportunity for public hearing in accordance with 15A NCAC 2H.0504. Any new or revised conditions shall be provided to NCDOT in writing, shall be provided to the United States Army Corps of Engineers for reference in any permit issued pursuant to Section 404 of the Clean Water Act, and shall also become conditions of the 404 Permit for the project.
- 24. Culverts that are less than 48-inch in diameter should be buried to a depth equal to or greater than 20% of their size to allow for aquatic life passage. Culverts that are 48-inch in diameter or larger should be buried at least 12 inches below the stream bottom to allow natural stream bottom material to become established

in the culvert following installation and to provide aquatic life passage during periods of low flow. These measurements must be based on natural thalweg depths.

25. A copy of this Water Quality Certification shall be posted on the construction site at all times. In addition, the Water Quality Certification (and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.

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 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

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 10<sup>th</sup> day of December 2004

DIVISION OF WATER QUALITY

ofm C

Alan W. Klimek, P.E. Director

WQC No. 3415

OF WATER PE	Michael F. Easley, Governor William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources
	Alan W. Klimek, P.E. Director Division of Water Quality
DWQ Project No.:	County:
Applicant:	
Project Name:	
Date of Issuance of 401 Water Quality Co	ertification:
Certificate of Completion Upon completion of all work approved with	nin the 401 Water Quality Certification or applicable Buffer Rules, and
Carolina Division of Water Quality, 1621 M	t is required to return this certificate to the 401/Wetlands Unit, North Mail Service Center, Raleigh, NC, 27699-1621. This form may be icant's authorized agent, or the project engineer. It is not necessary to
Carolina Division of Water Quality, 1621 M returned to DWQ by the applicant, the appli send certificates from all of these. Applicant's Certification	t is required to return this certificate to the 401/Wetlands Unit, North Mail Service Center, Raleigh, NC, 27699-1621. This form may be icant's authorized agent, or the project engineer. It is not necessary to
Carolina Division of Water Quality, 1621 M returned to DWQ by the applicant, the appli send certificates from all of these. Applicant's Certification I,	t is required to return this certificate to the 401/Wetlands Unit, North Mail Service Center, Raleigh, NC, 27699-1621. This form may be icant's authorized agent, or the project engineer. It is not necessary to , hereby state that, to the best of my abilities, due care and diligence tion such that the construction was observed to be built within substantial ality Certification and Buffer Rules, the approved plans and
Carolina Division of Water Quality, 1621 M returned to DWQ by the applicant, the appli send certificates from all of these. Applicant's Certification I,	t is required to return this certificate to the 401/Wetlands Unit, North Mail Service Center, Raleigh, NC, 27699-1621. This form may be icant's authorized agent, or the project engineer. It is not necessary to , hereby state that, to the best of my abilities, due care and diligence tion such that the construction was observed to be built within substantial ality Certification and Buffer Rules, the approved plans and
Carolina Division of Water Quality, 1621 M returned to DWQ by the applicant, the appli send certificates from all of these. Applicant's Certification I,	t is required to return this certificate to the 401/Wetlands Unit, North Mail Service Center, Raleigh, NC, 27699-1621. This form may be icant's authorized agent, or the project engineer. It is not necessary to , hereby state that, to the best of my abilities, due care and diligence tion such that the construction was observed to be built within substantial ality Certification and Buffer Rules, the approved plans and als. Date:
Carolina Division of Water Quality, 1621 M returned to DWQ by the applicant, the appli send certificates from all of these. Applicant's Certification I,	t is required to return this certificate to the 401/Wetlands Unit, North Mail Service Center, Raleigh, NC, 27699-1621. This form may be icant's authorized agent, or the project engineer. It is not necessary to , hereby state that, to the best of my abilities, due care and diligence tion such that the construction was observed to be built within substantial ality Certification and Buffer Rules, the approved plans and als. Date:

Engineer's (	Certification
Partia	1

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 and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature	_ Registration No
-----------	-------------------

Final

Date \_\_\_\_\_



( plista treeman



North Carolina Department of Environment and Natural Resources

Division of Coastal Management Charles S. Jones, Director

Michael F. Easley, Governor

November 8, 2004

Gregory J Thorpe, PhD, Environmental Management Director Project Development & Environmental Analysis Branch N.C. Department of Transportation 1548 Mail Service Center Raleigh, NC 27699-1548

William G. Ro NOV 10 200

RE: Request for a Modification to authorize the C Section of the widening project for NC 55 in Panifico County, TIP No. R-2539. NCDOT Letter dated 10/14/04 with accompanying drawings and revised drawing 13 of 24 dated 11/1/04 requesting a Modification of the existing CAMA Permit No. 55-03.

Dear Dr. Thorpe:

This letter is in response to the N.C. Department of Transportation's (NCDOT's) request dated October 14, 2004 requesting a Modification for CAMA Major Permit No. 55-03. The NCDOT letter requests authorization for construction of the C Section of the widening project for NC 55 in Pamlico County, TIP No. R-2539.

Please be advised that through this Letter of Refinement, DCM conveys its determination that this request as described in the October 14, 2004 NCDOT correspondence to Bill Arrington, is consistent with existing State rules and regulations and is in keeping with the original purpose and intent of the CAMA permit, with the following conditions.

- 1. This letter does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.
- 2. This Letter of Refinement must be attached to the original of CAMA Permit No. 55-03, which was issued on April 22, 2003 and both documents must be readily available on site when a DCM representative inspects the project for compliance.
- 3. All conditions and stipulations of the active permit remain in force unless altered herein.

Please contact Bill Arrington at (252) 528-0019 if you have any questions or concerns.

Sincerely,

Tere Barrett, MHC District Manager NC Division of Coastal Management.

Ce: Ted Tyndall, DCM Doug Huggett, DCM Steve Sollod, DCM Bill Arrington, DCM Mike Bell, USACE Nicole Thomson, DWQ

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NCDDT

## PROPERTY OWNERS

NAMES AND ADDRESSES

REFERENCE	NO. NAMES	ADDRESSES
1	WEYERHAEUSER CO.	PO BOX 1391 NEW BERN, NC 28563
2	GEORGE BRINSON	7960 NEUSE RD. GRANTSBORO, NC 28529
3	JAY BARRINGTON	904 LYNN ST. NEW BERN, NC 28562
4	SARAH HARRIS	420 NC HWY.306 SOUTH GRANTSBORD, NC 28529
5	DORIS WILLIAMS	PO BOX 294 Alliance, NC 28509
6	TSUNEKO TYNDALL	273 KEEL RD. GRANTSBORO, NC 28529
7	DAVID HARRIS	188 DEER RD. HUBERT, NC 28539
8	ROBERT COURTENAY SMARIDGE	2994 WILMA EDWARDS RD. ELLABELL, GA 31308
9	ROBERT COURTENAY SMARIDGE	189 FACTORY RD. HAMSTEAD, NC 28443
10	ARTHUR KELLY, JR.	PO BOX 243 GRANTSBORO, NC 28529
11	PHOEBE CAMPEN C/O GEORGIE THOMPSON	689 LICHFIELD RD. WINSTON-SALEM, NC 27104
12	JESSE BRAXTON CAHOON	52 BRINSON DR. GRANTSBORO, NC 28529
13	PAUL LEE PEGRAM	PO BOX 274 Alliance, nc 28509
14	DUDLEY PAUL. JR.	PO BOX 345 Alliance.nc 28509
		NCDOT
		DIVISION OF HIGHWAYS
		PAMLICO COUNTY
		PROJECT: 8.1170901 (R-2539C)
		NC 55 FROM EAST OF SR 1129
		TO NC 304 IN BAYBORO

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7/31/03

PROPERTY OWNERS NAMES AND ADDRESSES

REFERENCE NO.	NAMES	ADDRESSES							
15	HERMAN IRELAND	PO BOX 125 Alliance, NC 28509							
16	PEGGY WOOSTER	PO BOX 152 Alliance, NC 28509							
17	C.W. PHILLIPS	PO BOX 73 Alliance, NC 28509							

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NCDOT

DIVISION OF HIGHWAYS PAMLICO COUNTY PROJECT: 8.1170901 (R-2539C) NC 55 FROM EAST OF SR 1129 TO NC 304 IN BAYBORO

SHEET 23 OF 24

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Rev 11/2/04 8/30/2004 Natural Stream Des<u>ig</u>n DIVISION OF HIGHWAYS PAMLICO COUNTY PROJECT 8.1170901 (R-2539C) NC 55 FROM EAST OF SR 1129 TO NC 304 IN BAYBORO € Existing Channel Impacted (ft) 135.5 123 NCDOT 354.6 96,1 SURFACE WATER IMPACTS Temp. Fill In SW (ac) SHEET 24 OF 24 0 Fill In SW (Pond<u>)</u> (ac) 0 Fill In SW (Natural) (ac) 0.05 0.02 0.09 Mechanized Clearing (Method III) (ac) 0.12 0.12 0.83 0.01 1.13 WETLAND PERMIT IMPACT SUMMARY Excavation in Wetlands (ac) 0.01 6.25\* 0.02 WETLAND IMPACTS 6.28 Temp. Fill In Wetlands (ac) 0 Fill In Wetlands (ac) 2.45 0.02 2.47 3 @ 2.1 X 2.4 RCBC 2 @ 2.7 X 1.8 RCBC @ 2.4 x 1.2 RCBC Structure Size / Type \* - There are 4.95 acres of Boussinesq Impacts at Site No. 2. 153+20 to 154+20 -1-155+40 to 166+08 -L-195+45 to 202+60 -L-202+20 -L-206+00 -L-Station (From/To) Form Revised 3/22/01 FOTALS: Site. No. 20 ო ი 4 S







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BUFFI	ER LEGEND
WLB WETLAND BDUNDARY	PROPDSED BRIDGE
WLD WETLAND	PROPOSED BOX CULVERT
ALLOWABLE IMPACTS ZONE I	PROPDSED PIPE CULVERT
ALLOWABLE IMPACTS ZONE 2	(DASHED LINES DENDTE PIPES EXISTNG STRUCTURES) 54" PIPES & ABOVE
MITIGABLE IMPACTS ZONE I	없 SINGLE TREE
MITIGABLE IMPACTS ZONE 2	WOODS LINE
-BZ - RIPARIAN BUFFER ZONE	DRAINAGE INLET
	RODTWAD
-BZ2- RIPARIAN BUFFER ZONE 2 20 ft (6.1m)	RIP RAP
FLOW DIRECTION	
TB TOP DF BANK	5 ADJACENT PROPERTY DWNER 5 OR PARCEL NUMBER IF AVAILABLE
WEEDGE OF WATER	
C PROP.LIMIT OF CUT	PREFORMED SCOUR HOLE (PSH)
F PRDP. LIMIT OF FILL	S
PRDP. RIGHT DF WAY	LEVEL SPREADER (LS)
NG NATURAL GROUND	
PL PROPERTY LINE	GRASS SWALE
TDE TEMP. DRAINAGE EASEMENT	
PDE PERMANENT DRAINAGE EASEMENT	
EAB EXIST. ENDANGERED ANIMAL BOUNDARY	
EPB EXIST. ENDANGERED PLANT BOUNDARY	
WATER SURFACE	NCDOT
x x x LIVE STAKES	DIVISION OF HIGHWAYS
	PAMLICO COUNTY
CORE FIBER RDLLS	PROJECT: 8.1170901 (R-2539C) NC 55 FROM EAST OF SR 1129
	TO NC 304 IN BAYBORO
	SHEET 4 OF 9 7/9/03

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	ER	EMEN	ZONE 2 (sqft)			-											- - - - - -	ATION S 539C) 1129 0
	BUFFER	REPLACEMENT	ZONE 1 (sqft)	651	252		283										1,186	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS PAMLICO COUNTY PROJECT: 8.1170901 (R-2539C) NC 55 FROM EAST OF SR 1129 TO NC 304 IN BAYBORO
		111	TOTAL (sqft)	17,288	16,813												34,101	C. DEPT. OF DIVISION C PAMLIC ROJECT: 8.1 VC 55 FROMI TO NC 304
		MITIGABLE	ZONE 2 (sqft)	6,495	6,373												12,868	N.C. DEP DIVIS PROJEC NC 555 F TO N
		V	ZONE 1 (sqft)	10,793	10,440												21,233	
۲۲			TOTAL (sqft)			1,814	13,481										15,295	
MMA	IMPACT	ALLOWABLE	ZONE 2 . (sqft)			1,064	5,039					 -					6,103	
TS SU		ALL	ZONE 1 (sqft)			750	8,442										9,192	
FFER IMPACTS SUMMARY		Ē	PARALLEL IMPACT															
BUFFEF		ТҮРЕ	ROAD CROSSING	×	×	×	×											
			STATION (FROM/TO)	196+60 -L-	199+77 -L-	12+10 -Y7-	206+00 -L-											
			STRUCTURE SIZE / TYPE	3 @ 2.1 X 2.4 RCBC	2 @ 2.7 X 1.8 RCBC	BRIDGE	1 @ 2.4 X 1.2 RCBC						-					
			SITE NO.	ę	ო	3A	5										TOTAL:	

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